

รายงานสถิติพลังงานของประเทศไทย 2558

ENERGY STATISTICS OF THAILAND 2015

สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

รายงานสถิติพลังงานของประเทศไทย 2558

ENERGY STATISTICS OF THAILAND 2015





รายงานสถิติพลังงานของประเทศไทย 2558

ENERGY STATISTICS OF THAILAND 2015



THAI NATIONAL ASSEMBLY LIBRARY
3961202036

ส 05875

พน
06
2.2
333.79
2558

กระทรวงพลังงาน. สำนักนโยบายและแผน.
รายงานสถิติพลังงานของประเทศไทย 2558.



รายงานสถิติพลังงานของประเทศไทย 2558

ENERGY STATISTICS OF THAILAND 2015

สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

บทนำ

สำนักงานนโยบายและแผนพลังงาน (สนพ.) เป็นหน่วยงานหนึ่งที่มีบทบาทสำคัญในกระทรวงพลังงาน มีภารกิจหลักในการวางนโยบายและแผนพลังงาน รวมถึงมาตรการในการบริหารจัดการพลังงานของประเทศ โดยคำนึงถึงการพัฒนาเศรษฐกิจสังคม ควบคู่ไปกับการรักษาสิ่งแวดล้อม การดำเนินงานดังกล่าวมีความจำเป็นต้องใช้ข้อมูลสนับสนุนจำนวนมาก เพื่อใช้ในการวิเคราะห์และจัดทำข้อเสนอแนะด้านพลังงานแก่ผู้บริหาร ด้วยเหตุนี้ สนพ. จึงได้จัดทำหนังสือรายงานสถิติพลังงานของประเทศไทยขึ้น เพื่อติดตามสถานการณ์พลังงานของประเทศอย่างต่อเนื่อง

หนังสือรายงานสถิติพลังงานของประเทศไทย เป็นหนังสือที่ได้มีการจัดทำขึ้นปีละครั้ง เพื่อเป็นการเพิ่มช่องทางในการให้บริการข้อมูลผ่านทางสื่อสิ่งพิมพ์และแผ่น CD ที่สามารถตอบสนองความต้องการของผู้ใช้ได้อย่างรวดเร็ว และมีประสิทธิภาพ โดยมีการเผยแพร่หนังสือดังกล่าวไปยังหน่วยงานต่างๆ ทั้งในและต่างประเทศ ซึ่งมีการตอบรับเป็นอย่างดี อย่างไรก็ตาม สนพ. ยังคงพัฒนาและรักษาคุณภาพมาตรฐานต่างๆ ของหนังสือนี้ โดยดำเนินการปรับปรุงเนื้อหา จัดเรียงหมวดหมู่และรูปแบบการนำเสนอสถิติต่างๆ ให้มีความน่าสนใจ เข้าใจง่าย และตรงตามความต้องการของผู้ใช้มากยิ่งขึ้น ข้อมูลที่นำเสนอถูกรวบรวมเป็นสถิติย้อนหลังหลายปี ครอบคลุมเรื่องพลังงานทุกด้าน ได้แก่ การผลิต การใช้ การนำเข้า การส่งออก ราคาและมูลค่าพลังงาน รวมทั้งข้อมูลปริมาณการปลดปล่อยก๊าซคาร์บอนไดออกไซด์ (CO_2) จากการใช้พลังงาน ซึ่งข้อมูลดังกล่าวเหล่านี้ได้นำมาใช้เป็นสารสนเทศทางการบริหารพลังงานของไทย ตลอดจนใช้ประกอบการวิเคราะห์แนวโน้มเพื่อกำหนดนโยบายและแผนด้านพลังงานของประเทศ

สนพ. หวังเป็นอย่างยิ่งว่า รายงานสถิติพลังงานของประเทศไทย 2558 จะเป็นประโยชน์ต่อหน่วยงาน องค์กร และผู้ที่สนใจทั่วไป เพื่อนำข้อมูลไปใช้ในการศึกษา วิจัย วิเคราะห์และการอ้างอิง ที่จะนำไปสู่การพัฒนาทางด้านพลังงานของประเทศต่อไป

#74635
W4
06
2.2
333.79
2558
ห้องสมุด
ที่ ส05875
4 พ.ย. 58
สภา

INTRODUCTION

The Energy Policy and Planning Office (EPPO) is a pivotal agency under the Ministry of Energy, being tasked with the development of national energy policies and planning, including measures to manage and administer the energy sector, with due consideration of economic and social development, concurrently with environmental protection. In order to undertake the mentioned tasks, it is crucial to acquire substantial information and data for analysis and development of recommendation on energy issues to be presented to the management. As a consequence of this, EPPO has published a report on energy statistics of Thailand with a view to following up continuously national energy situations.

This report on energy statistics of Thailand is issued annually, with the first one issued in 2010, to be another channel to provide energy information via printed matters and in the form of CD, which is expected to promptly and efficiently respond to the users' needs. After EPPO's first publication and dissemination of the report, there has been favorable response and feedback from concerned agencies/organizations, both domestic and overseas. However, EPPO have tried harder to keep improving for better standard in publishing our statistics. We are not only to improve the book content, but also to reorganize and to focus on more user friendly with higher quality paper and more understandable format. This is to respond our user comments that we always give them the first priority. This report is covering all aspects of energy, i.e. production, consumption, import, export, prices and nominal value of energy, including the information about carbon dioxide (CO_2) emissions from the use of energy. The mentioned information/data has much contributed to energy management of the country, particularly in support of decision making of the management based on close follow-ups on energy situation movements, and to the analysis of energy trends to assess the impact which may occur from energy use. The analysis outcome will form the basis for the development of recommendations on the energy policy and management plan as well as the energy development plan of the country.

EPPO Hopefully the "Energy Statistics of Thailand 2015" is useful to organizations and people that are interested in General to bring information to use in education, research, analysis and reference. That will lead to the development of the country's energy.

สิ่งพิมพ์รัฐบาล
สมบัติห้องสมุดรัฐสภา

Contents

Introduction 2

CHAPTER 1 : THAILAND'S ENERGY SITUATION IN 2014 13

Table Yearly

1.1 Primary Energy

Table 1.1-1Y: Production, Consumption and Import (Net) of Primary Commercial Energy 29

Table 1.1-2Y: Primary Commercial Energy Production (Physical Unit) 30

Table 1.1-3Y: Primary Commercial Energy Production (KTOE) 32

Table 1.1-4Y: Primary Commercial Energy Import (Net) (Physical Unit) 34

Table 1.1-5Y: Primary Commercial Energy Import (Net) (KTOE) 36

Table 1.1-6Y: Primary Commercial Energy Consumption (Physical Unit) 38

Table 1.1-7Y: Primary Commercial Energy Consumption (KTOE) 39

1.2 Final Energy

Table 1.2-1Y: Final Modern Energy Consumption (Physical Unit) 40

Table 1.2-2Y: Final Modern Energy Consumption (KTOE) 42

1.3 Energy Reserves

Table 1.3-1: Energy Reserves 44

Table Monthly

1.1 Primary Energy

Table 1.1-1M: Primary Commercial Energy Production (Physical Unit) 45

Table 1.1-2M: Primary Commercial Energy Production (KTOE) 47

Table 1.1-3M: Primary Commercial Energy Import (Net) (Physical Unit) 49

Table 1.1-4M: Primary Commercial Energy Import (Net) (KTOE) 51

Table 1.1-5M: Primary Commercial Energy Consumption (Physical Unit) 53

Table 1.1-6M: Primary Commercial Energy Consumption (KTOE) 55

1.2 Final Energy

Table 1.2-1M: Final Modern Energy Consumption (Physical Unit) 57

Table 1.2-2M: Final Modern Energy Consumption (KTOE) 59

CHAPTER 2 : OIL 61

Table Yearly

2.1 Crude Oil/Condensate

2.1.1 Production

Table 2.1.1-1Y: Production of Crude Oil 69

Table 2.1.1-2Y: Production of Condensate 69

2.1.2 Import

Table 2.1.2-1Y: Import of Crude Oil Classified by Sources 70

Table 2.1.2-2Y: Quantity and Value of Petroleum Products Import 71

2.1.3 Export

Table 2.1.3-1Y: Quantity and Value of Petroleum Products Export 73

2.2 Refinery

Table 2.2-1Y: Refining Capacity 75

Table 2.2-2Y: Material Intake by Refinery 76

2.3 Petroleum Products

2.3.1 Production

Table 2.3.1-1Y: Production of Petroleum Products (Million Litres) 76

Table 2.3.1-2Y: Production of Petroleum Products (Barrels/Day) 77

2.3.2 Consumption/Sale

Table 2.3.2-1Y: Sale of Petroleum Products (Million Litres) 77

Table 2.3.2-2Y: Sale of Petroleum Products (Barrels/Day) 78

2.3.3 Import

Table 2.3.3-1Y: Import of Petroleum Products (Million Litres) 78

Table 2.3.3-2Y: Import of Petroleum Products (Barrels/Day) 79

2.3.4 Export

Table 2.3.4-1Y: Export of Petroleum Products (Million Litres) 79

Table 2.3.4-2Y: Export of Petroleum Products (Barrels/Day) 80

2.4 Demand and Supply

Table 2.4-1Y: Demand and Supply of Crude Oil and Oil Products 80

Table 2.4-2Y: Demand and Supply of LPG, Propane and Butane 81

Table Monthly

2.1 Crude Oil/Condensate

2.1.1 Production

Table 2.1.1-1M: Production of Crude Oil 82

Table 2.1.1-2M: Production of Condensate 84

2.1.2 Imports

Table 2.1.2-1M: Import of Crude Oil Classified by Sources 86

2.2 Refinery

Table 2.2-1M: Material Intake by Refinery 87

2.3 Petroleum Products

2.3.1 Production

Table 2.3.1-1M: Production of Petroleum Products (Million Litres) 89

Table 2.3.1-2M: Production of Petroleum Products (Barrels/Day) 91

2.3.2 Consumption/Sales

Table 2.3.2-1M: Sale of Petroleum Products (Million Litres) 93

Table 2.3.2-2M: Sale of Petroleum Products (Barrels/Day) 95

2.3.3 Import

Table 2.3.3-1M: Import of Petroleum Products (Million Litres) 97

Table 2.3.3-2M: Import of Petroleum Products (Barrels/Day) 99

2.3.4 Export

Table 2.3.4-1M: Export of Petroleum Products (Million Litres) 101

Table 2.3.4-2M: Export of Petroleum Products (Barrels/Day) 103

2.4 Demand and Supply

Table 2.4-1M: Demand and Supply of Crude Oil and Oil Products 105

Table 2.4-2M: Demand and Supply of LPG, Propane and Butane 107

CHAPTER 3 : NATURAL GAS 109

Table Yearly

3.1 Production/Import

Table 3.1-1Y: Production and Import of Natural Gas 115

3.2 Consumption/Sales

Table 3.2-1Y: Distribution of NGL 115

Table 3.2-2Y: Consumption of Natural Gas by Sector 116

Table Monthly

3.1 Production/Import

Table 3.1-1M: Production and Import of Natural Gas 117

3.2 Consumption/Sale

Table 3.2-1M: Distribution of NGL 119

Table 3.2-2M: Consumption of Natural Gas by Sector 121

Table 3.2-3M: Consumption of Compressed Natural Gas (CNG) 123

CHAPTER 4 : COAL/LIGNITE 125

Table Yearly

4.1 Production/Consumption

Table 4.1-1Y: Production and Consumption of Lignite 133

Table 4.1-2Y: Consumption of Lignite and Coal Classified by Sector (1,000 Tons) 134

Table 4.1-3Y: Consumption of Lignite and Coal Classified by Sector (KTOE) 135

4.2 Import

Table 4.2-1Y: Coal Import 136

Table Monthly

4.1 Production/Consumption

Table 4.1-1M: Production and Consumption of Lignite 137

4.2 Import

Table 4.2-1M: Coal Import 139

CHAPTER 5 : ELECTRICITY 141

Table Yearly

5.1 Generation

Table 5.1-1Y: Electricity Generation by Fuel Type 155

Table 5.1-2Y: Power Generation Classified by Fuel Type 155

Table 5.1-3Y: Peak Generation Requirement, Energy Generation Requirement and Load Factor 156

Table 5.1-4Y: EGAT Purchased from SPP 156

Table 5.1-5Y: EGAT Purchased from IPP 157

5.2 Fuel Consumption

Table 5.2-1Y: EGAT Fuel Consumption in Power Generation 157

5.3 Consumption/Sale

Table 5.3-1Y: Electricity Consumption in MEA Service Areas (Classified by Tariff) 158

Table 5.3-2Y: Electricity Consumption in PEA Service Areas (Classified by Tariff) 158

Table 5.3-3Y: Electricity Consumption for the Whole Country (Classified by Tariff) 159

Table 5.3-4Y: Electricity Consumption in MEA Service Areas (Classified by Sector) 159

Table 5.3-5Y: Electricity Consumption in PEA Service Areas (Classified by Sector) 160

Table 5.3-6Y: Electricity Consumption for the Whole Country (Classified by Sector) 160

Table Monthly

5.1 Generation

Table 5.1-1M: Electricity Generation by Fuel Type 161

Table 5.1-2M: Power Generation Classified by Fuel Type 163

Table 5.1-3M: Peak Generation Requirement, Energy Generation Requirement and Load Factor 165

Table 5.1-4M: EGAT Purchased from SPP 167

Table 5.1-5M: EGAT Purchased from IPP 169

5.2 Fuel Consumption

Table 5.2-1M : EGAT Fuel Consumption in Power Generation 171

5.3 Consumption/Sale

Table 5.3-1M: Electricity Consumption in MEA Service Areas (Classified by Tariff) 172

Table 5.3-2M: Electricity Consumption in PEA Service Areas (Classified by Tariff) 174

Table 5.3-3M: Electricity Consumption for the Whole Country (Classified by Tariff) 176

Table 5.3-4M: Electricity Consumption in MEA Service Areas (Classified by Sector) 178

Table 5.3-5M: Electricity Consumption in PEA Service Areas (Classified by Sector) 180

Table 5.3-6M: Electricity Consumption for the Whole Country (Classified by Sector) 182

5.4 Import and Export

Table 5.4-1M: Import of Electricity 184

Table 5.4-2M: Export of Electricity 184

CHAPTER 6 : ENERGY VALUE 185

Table Yearly

Table 6.1-1Y: Expenditure on Final Energy Consumption 191

Table 6.1-2Y: Expenditure on Petroleum Products Consumption 192

Table 6.1-3Y: Value of Energy Import 193

Table 6.1-4Y: Value of Energy Export 194

Table Monthly

Table 6.1-1M: Expenditure on Final Energy Consumption 195

Table 6.1-2M: Expenditure on Petroleum Products Consumption 196

Table 6.1-3M: Value of Energy Import 198

Table 6.1-4M: Value of Energy Export 200

CHAPTER 7 : ENERGY AND ECONOMICS 201

7.1 Economics Data

Table 7.1-1: GDP at Constant 1988 Prices 211

Table 7.1-2: Population 212

Table 7.1-3: Industrial Index 212

Table 7.1-4: Industrial Capacity Utilization Ratios 213

Table 7.1-5: Sales of Vehicles 213

Table 7.1-6: GDP, Energy, Import and Export of Goods 214

7.2 Analysis

Table 7.2-1: Final Energy Consumption per Capita 216

Table 7.2-2: Electricity Consumption per Capita 219

CHAPTER 8 : PETROLEUM PRICES 223

Table Yearly

Table 8.1-1Y: Rate of Exchange in Bangkok 235

Table 8.1-2Y: Ex-Refinery Prices of Petroleum Products in Thailand 235

Table 8.1-3Y: Oil Fund Levied (Ex-Refinery) on Petroleum Products in Thailand 236

Table 8.1-4Y: Wholesale Prices of Petroleum Products at Refinery in Thailand 237

Table 8.1-5Y: Retail Prices of Petroleum Products in Bangkok 239

Table 8.1-6Y: Tax and Oil Fund Revenue in Thailand 241

Table Monthly

Table 8.1-1M: Rate of Exchange in Bangkok 242

Table 8.1-2M: Ex-Refinery Prices of Petroleum Products in Thailand 244

Table 8.1-3M: Oil Fund Levied (Ex-Refinery) on Petroleum Products in Thailand 246

Table 8.1-4M: Wholesale Prices of Petroleum Products at Refinery in Thailand 248

Table 8.1-5M: Retail Prices of Petroleum Products in Bangkok 253

Table 8.1-6M: Tax and Oil Fund Revenue in Thailand 263

Table 8.1-7M: Retail Prices of Premium Gasoline and High Speed Diesel 265

CHAPTER 9 : AIR POLLUTION EMISSION IN THE ENERGY SECTOR 267

Table Yearly

Table 9.1-1Y: CO_2 Emission by Energy Type 287

Table 9.1-2Y: CO_2 Emission from Energy Consumption by Sector 288

Table 9.1-3Y: CO_2 Emission in Power Generation by Energy Type 289

Table 9.1-4Y: CO_2 Emission in Transport by Energy Type 290

Table 9.1-5Y: CO_2 Emission in Industry by Energy Type 291

Table 9.1-6Y: CO_2 Emission in Other Economic Sectors by Energy Type 292

Table 9.1-7Y: CO_2 Emission by Sector and Energy Type 293

Table Monthly

Table 9.1-1M: CO_2 Emission by Energy Type 297

Table 9.1-2M: CO_2 Emission from Energy Consumption by Sector 299

Table 9.1-3M: CO_2 Emission in Power Generation by Energy Type 301

Table 9.1-4M: CO_2 Emission in Transport by Energy Type 303

Table 9.1-5M: CO_2 Emission in Industry by Energy Type 305

Table 9.1-6M: CO_2 Emission in Others Economic Sectors by Energy Type 307

Appendix Conversion Factors and Abbreviations 309

Conversion Factors 310

Abbreviations 312

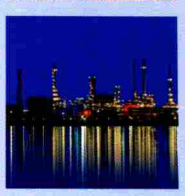
* Note : M = Monthly

Y = Yearly









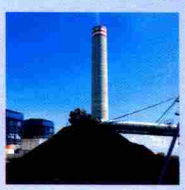














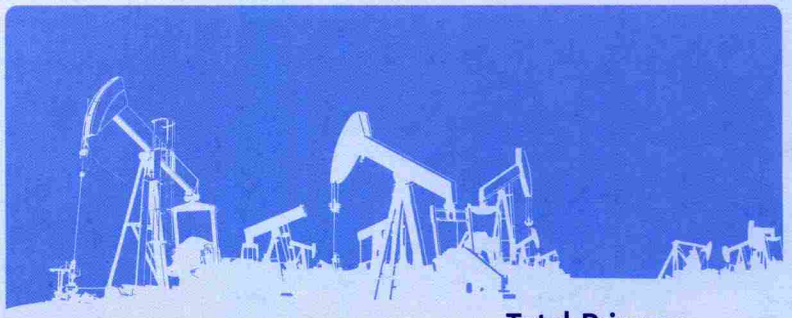


Chapter 1

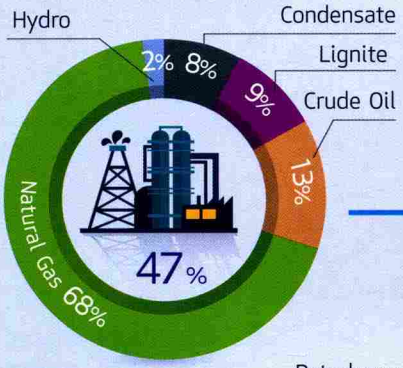
Thailand's Energy Situation in 2014



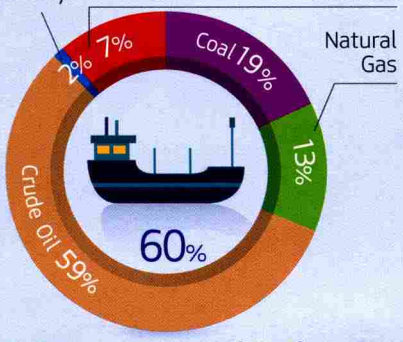
Energy Overview 2014



Domestic Production



Import



Stock Change (-7%)



Supply (100%) - Export (14%) = Total Primary Energy Supply

Crude Oil 3% | Electricity 1%

Export (14%): Petroleum Products 96%

Total Primary Energy Supply: Primary Enregy Supply 100%

Primary Energy Demand

Petroleum Products — 36%

- Agriculture 10%
- Industry 15%
- Power Generation 1%
- Residential and Commercial 9%
- Transportation 65%

Natural Gas — 44%

- Power Generation 59%
- Industry 14%
- Gas Separation Plant 20%
- NGV 7%

Coal and Lignite — 18%

- Power Generation 53%
- Industry 47%

Hydro & Imported Electricity — 2%

บทที่ 1

สถานการณ์พลังงานไทยปี 2557

ภาพรวมเศรษฐกิจ

สำนักงานคณะกรรมการพัฒนาการเศรษฐกิจและสังคมแห่งชาติ (สศช.) รายงานว่าอัตราการเจริญเติบโตทางเศรษฐกิจไทยปี 2557 ขยายตัวร้อยละ 0.9 เนื่องจากในไตรมาสแรกเศรษฐกิจไทยอยู่ในภาวะหดตัวและเริ่มปรับตัวดีขึ้นในช่วงไตรมาสที่สอง ภายหลังจากสถานการณ์ทางการเมืองเปลี่ยนแปลงไปในทางที่ดีขึ้น ส่งผลต่อความเชื่อมั่นของผู้บริโภคที่ปรับตัวดีขึ้นอย่างชัดเจน ทั้งการลงทุนของภาคเอกชนและการใช้จ่ายของภาคครัวเรือน รวมทั้งการฟื้นตัวของภาคการท่องเที่ยวซึ่งสะท้อนจากจำนวนนักท่องเที่ยวต่างชาติที่เข้ามาประเทศไทยมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่องในช่วงครึ่งปีหลัง การส่งออกสินค้าขยายตัวจากอุปสงค์ต่างประเทศที่เพิ่มขึ้นโดยเฉพาะอย่างยิ่งสินค้ากลุ่มอิเล็กทรอนิกส์และเครื่องใช้ไฟฟ้า ซึ่งปัจจัยเหล่านี้ส่งผลต่อสถานการณ์พลังงานของประเทศในปี 2557 ดังนี้

การใช้ การผลิต และการนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น

การใช้พลังงานเชิงพาณิชย์ขั้นต้น ในปี 2557 อยู่ที่ระดับ 2,053 เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน เพิ่มขึ้นร้อยละ 2.6 เมื่อเทียบกับปีก่อน โดยก๊าซธรรมชาติมีสัดส่วนการใช้มากที่สุดคิดเป็นร้อยละ 45 มีการใช้เพิ่มขึ้นร้อยละ 0.8 การใช้น้ำมันมีสัดส่วนรองลงมาที่ร้อยละ 36 มีการใช้เพิ่มขึ้นร้อยละ 0.6 ส่วนการใช้ถ่านหิน/ลิกไนต์ซึ่งมีสัดส่วนการใช้ที่ร้อยละ 17 มีการใช้เพิ่มขึ้นร้อยละ 12.9 ในขณะที่การใช้ไฟฟ้าพลังน้ำ/ไฟฟ้านำเข้าซึ่งมีสัดส่วนการใช้ที่ร้อยละ 2 มีการใช้ลดลงร้อยละ 3.6

การผลิตพลังงานเชิงพาณิชย์ขั้นต้น ในปี 2557 อยู่ที่ระดับ 1,073 เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน ลดลงร้อยละ 0.4 เมื่อเทียบกับปีก่อน ในขณะที่การนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น (สุทธิ) อยู่ที่ระดับ 1,171 เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน เพิ่มขึ้นร้อยละ 4.4 ทั้งนี้ การนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น (สุทธิ) คิดเป็นร้อยละ 57 ของการใช้พลังงานเชิงพาณิชย์ขั้นต้น

การใช้ การผลิต การนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น

หน่วย: เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน

	2553	2554	2555	2556	2557
การใช้	1,783	1,854	1,982	2,002	2,053
การผลิต	989	1,018	1,082	1,078	1,073
การนำเข้า (สุทธิ)	1,001	1,020	1,082	1,122	1,171
การนำเข้า / การใช้ (%)	56	55	55	56	57
อัตราการเปลี่ยนแปลง (%)					
การใช้	7.2	4.0	6.9	1.0	2.6
การผลิต	10.5	2.9	6.3	-0.4	-0.4
การนำเข้า (สุทธิ)	8.6	1.9	6.1	3.6	4.4
GDP (%)	7.5	0.8	7.3	2.8	0.9

การใช้พลังงานเชิงพาณิชย์ขั้นต้น	น้ำมัน	ก๊าซธรรมชาติ	ถ่านหิน/ลิกไนต์	พลังน้ำ/ไฟฟ้านำเข้า	รวม
อัตราการเปลี่ยนแปลง (%)	0.6	0.8	12.9	-3.6	2.6

มูลค่าการใช้พลังงานขั้นสุดท้าย ปี 2557 รวม 2.28 ล้านล้านบาท เพิ่มขึ้นร้อยละ 2.6

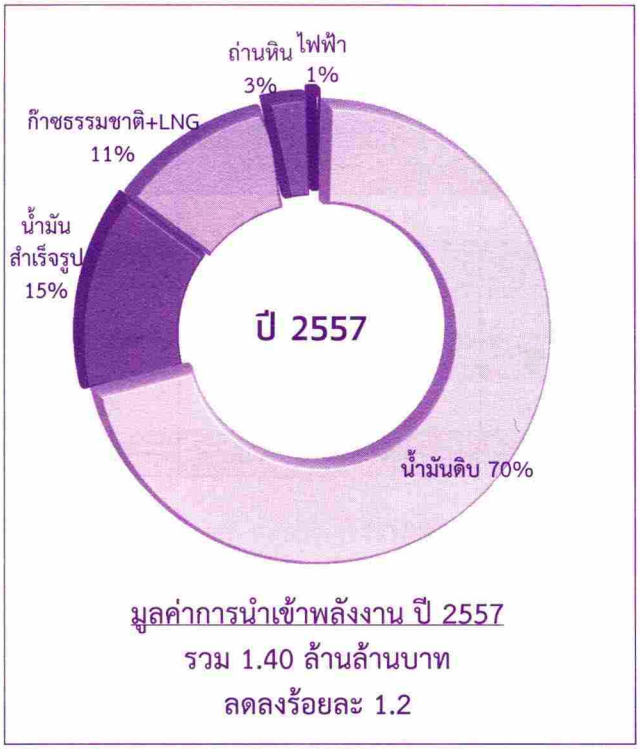
พลังงานเชิงพาณิชย์ขั้นสุดท้าย	น้ำมันสำเร็จรูป	ไฟฟ้า	ก๊าซธรรมชาติ	ถ่านหิน/ลิกไนต์	พลังงานทดแทน
มูลค่าการใช้ (ล้านบาท)	1,336,615	662,474	123,964	33,483	123,100
อัตราการเปลี่ยนแปลง (%)	0.7	6.6	2.4	28.3	-2.3

มูลค่าการใช้พลังงาน ในปี 2557 มีมูลค่า 2,279,636 ล้านบาท เพิ่มขึ้นจากปี 2556 ซึ่งอยู่ที่ระดับ 2,221,328 ล้านบาท อยู่ 58,308 ล้านบาท หรือคิดเป็นเพิ่มขึ้นร้อยละ 2.6 โดยมูลค่าการใช้พลังงานเกือบทุกชนิดมีมูลค่าเพิ่มขึ้น ในขณะที่มูลค่าการใช้พลังงานทดแทนลดลงร้อยละ 2.3

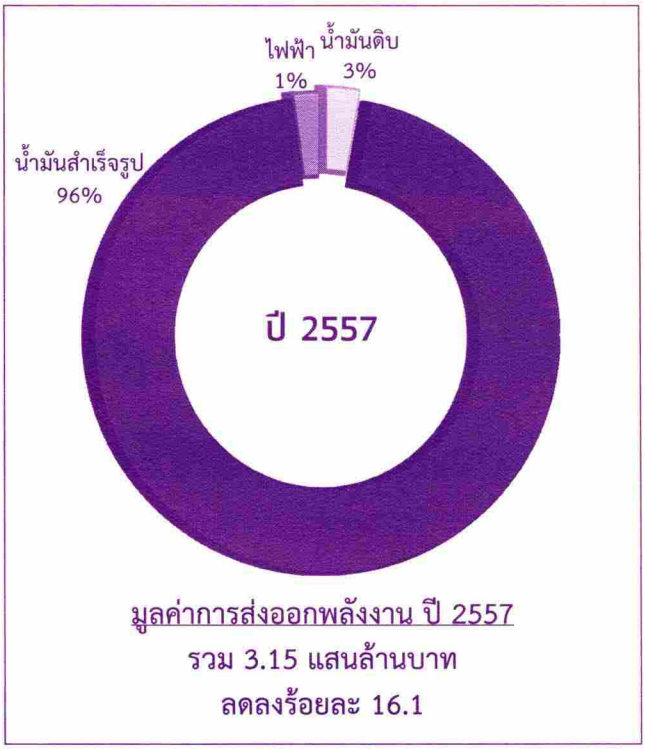
มูลค่าการนำเข้าพลังงาน ในปี 2557 มีมูลค่ารวม 1,399,311 ล้านบาท ลดลงจากปี 2556 ซึ่งอยู่ที่ระดับ 1,416,239 ล้านบาท อยู่ 16,928 ล้านบาท หรือคิดเป็นลดลงร้อยละ 1.2 โดยมูลค่าการนำเข้าน้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 70 ของมูลค่าการนำเข้าพลังงานทั้งหมด มีมูลค่าลดลงร้อยละ 8.6 เนื่องจากราคาน้ำมันดิบนำเข้าลดลงเฉลี่ยอยู่ที่ระดับ 102 ดอลลาร์ สรอ. ต่อบาร์เรล โดยลดลงต่ำมากในช่วงปลายปี 2557 จากอุปทานน้ำมันดิบของโลกที่เพิ่มสูงขึ้นประกอบกับอุปสงค์ที่ไม่สูงมากนัก

มูลค่าการส่งออกพลังงาน ในปี 2557 มีมูลค่ารวม 315,194 ล้านบาท ลดลงจากปี 2556 ซึ่งอยู่ที่ระดับ 375,747 ล้านบาท อยู่ 60,553 ล้านบาท หรือคิดเป็นลดลงร้อยละ 16.1 โดยมูลค่าการส่งออกน้ำมันสำเร็จรูปมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 96 มีมูลค่าการส่งออกอยู่ที่ระดับ 301,425 ล้านบาท ลดลงร้อยละ 11.9 เมื่อเทียบกับปี 2556

มูลค่าการนำเข้าและมูลค่าการส่งออกพลังงาน



มูลค่าการนำเข้าพลังงาน ปี 2557
รวม 1.40 ล้านล้านบาท
ลดลงร้อยละ 1.2



มูลค่าการส่งออกพลังงาน ปี 2557
รวม 3.15 แสนล้านบาท
ลดลงร้อยละ 16.1

ปี 2557	น้ำมันดิบ	น้ำมันสำเร็จรูป	ก๊าซธรรมชาติ +LNG	ถ่านหิน	ไฟฟ้า
มูลค่าการนำเข้า (ล้านบาท)	979,704	202,265	150,476	47,947	18,919
อัตราการเปลี่ยนแปลง (%)	-8.6	45.5	2.5	-15.0	20.1

ปี 2557	น้ำมันดิบ	น้ำมันสำเร็จรูป	ไฟฟ้า
มูลค่าการส่งออก (ล้านบาท)	8,653	301,425	5,116
อัตราการเปลี่ยนแปลง (%)	-70.3	-11.9	-15.6

สถานการณ์พลังงานแต่ละชนิด

น้ำมันดิบ ปี 2557 มีปริมาณการนำเข้าอยู่ที่ระดับ 805 พันบาร์เรลต่อวัน ลดลงร้อยละ 7.2 คิดเป็นมูลค่า 980 พันล้านบาท ลดลงร้อยละ 8.6 เมื่อเทียบกับปี 2556 เนื่องจากราคาเฉลี่ยน้ำมันดิบนำเข้าลดลง โดยส่วนใหญ่ประเทศไทยนำเข้าน้ำมันดิบจากกลุ่มประเทศตะวันออกกลาง (คิดเป็นสัดส่วนร้อยละ 66)

น้ำมันสำเร็จรูป ในปี 2557 มีการใช้น้ำมันสำเร็จรูปเพิ่มขึ้นจากปี 2556 ร้อยละ 0.6 โดยการใช้น้ำมันเบนซินเพิ่มขึ้นร้อยละ 3.7 การใช้น้ำมันดีเซลเพิ่มขึ้นร้อยละ 0.8 ในขณะที่การใช้น้ำมันเครื่องบินลดลงร้อยละ 0.8 การใช้น้ำมันเตาลดลงร้อยละ 3.7 และการใช้ LPG (ไม่รวมการใช้ในอุตสาหกรรมปิโตรเคมี) ลดลงร้อยละ 0.1

การใช้น้ำมันสำเร็จรูป ปี 2557

หน่วย: ล้านลิตรต่อวัน

ชนิด	2554	2555	2556	2557	อัตราการเปลี่ยนแปลง (%)		
					2555	2556	2557
เบนซิน	20.1	21.1	22.5	23.3	4.8	6.6	3.7
ดีเซล	52.6	56.2	57.3	57.8	6.9	1.9	0.8
เครื่องบิน	13.9	13.9	15.3	15.1	0.0	9.5	-0.8
น้ำมันเตา	6.8	6.5	6.0	5.7	-4.0	-8.7	-3.7
LPG*	22.4	24.4	24.8	24.6	8.9	1.3	-0.1
รวม	**115.9**	**122.2**	**125.7**	**126.5**	**5.4**	**2.9**	**0.6**

*ไม่รวมการใช้ LPG ที่ใช้เป็น Feedstocks ในปิโตรเคมี

- ***น้ำมันกลุ่มเบนซิน*** ในปี 2557 การใช้น้ำมันเบนซินเฉลี่ยอยู่ที่ระดับ 23.3 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 3.7 เมื่อเทียบกับปี 2556 เนื่องจากปริมาณรถใหม่ที่เพิ่มขึ้นประกอบกับราคาขายปลีกน้ำมันกลุ่มเบนซินที่ลดลงจากราคาน้ำมันในตลาดโลกที่ลดลง ส่งผลให้มีการใช้มากขึ้น

น้ำมันเบนซิน (เบนซินออกเทน 95) ในปี 2557 มีปริมาณการใช้น้ำมันเบนซินออกเทน 95 เฉลี่ยอยู่ที่ระดับ 1.4 ล้านลิตรต่อวัน ลดลงจากปี 2556 ซึ่งมีการใช้เฉลี่ย 1.7 ล้านลิตรต่อวัน เนื่องจากผู้ใช้บางส่วนหันมาใช้น้ำมันแก๊สโซฮอลมากขึ้น

น้ำมันแก๊สโซฮอล ในปี 2557 มีปริมาณการใช้ 21.9 ล้านลิตรต่อวัน เพิ่มขึ้นจาก 20.5 ล้านลิตรต่อวันในปี 2556 ปัจจัยหลักมาจากมาตรการจูงใจทางด้านราคาของน้ำมันในกลุ่มแก๊สโซฮอลที่มีราคาถูกกว่าน้ำมันเบนซิน รวมทั้งสถานีบริการน้ำมันแก๊สโซฮอลมีจำนวนมากขึ้น ทั้งนี้ ณ เดือนธันวาคม 2557 มีสถานีบริการน้ำมันแก๊สโซฮอล 95 (E20) จำนวน 2,665 แห่ง และสถานีบริการน้ำมันแก๊สโซฮอล 95 (E85) จำนวน 596 แห่ง

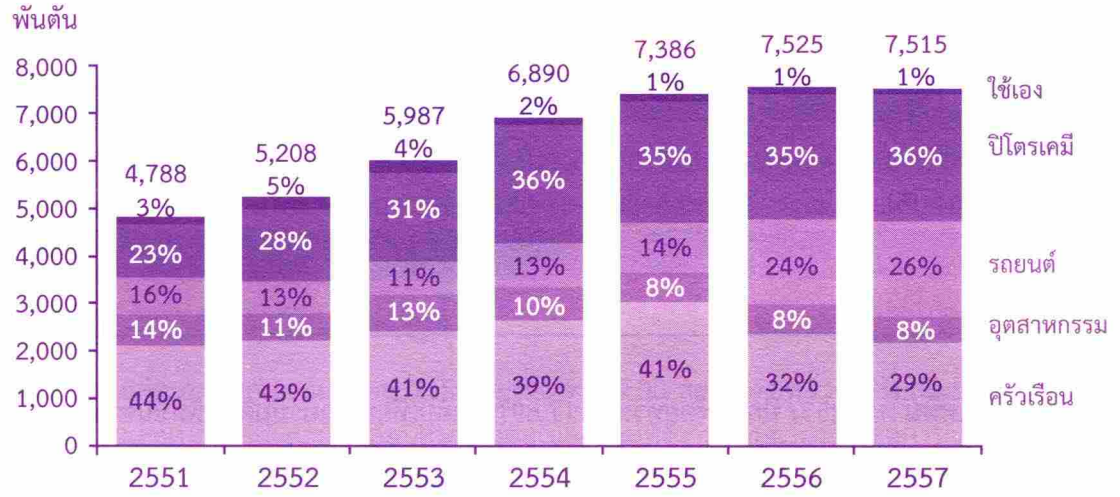
- ***น้ำมันดีเซล*** ในปี 2557 มีปริมาณการใช้เฉลี่ย 57.8 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 0.8 จากปี 2556 ที่มีปริมาณการใช้อยู่ที่ 57.3 ล้านลิตรต่อวัน การที่น้ำมันดีเซลมีปริมาณการใช้เพิ่มขึ้นไม่มากนักเนื่องจากรถบางส่วนมีการเปลี่ยนไปใช้ NGV แทนการใช้น้ำมันดีเซลโดยเฉพาะกลุ่มรถบรรทุก ประกอบกับการเพิ่มขึ้นของรถใหม่ที่ใช้น้ำมันดีเซลเริ่มชะลอตัวลง ทั้งนี้ ในปี 2557 รัฐบาลยังมีนโยบายตรึงราคาขายปลีกน้ำมันดีเซลให้อยู่ในระดับที่ไม่เกิน 30 บาทต่อลิตร โดยในช่วงปลายปี 2557 ราคาขายปลีกน้ำมันดีเซลลดต่ำลงจากราคาน้ำมันในตลาดโลกที่ลดลง ส่งผลให้มีการใช้มากขึ้นในช่วงดังกล่าว

- ***น้ำมันเครื่องบิน*** ในปี 2557 มีปริมาณการใช้เฉลี่ย 15.1 ล้านลิตรต่อวัน ลดลงร้อยละ 0.8 จากปี 2556 ที่มีปริมาณการใช้อยู่ที่ 15.3 ล้านลิตรต่อวัน เนื่องจากนักท่องเที่ยวต่างชาติที่เข้ามาท่องเที่ยวในประเทศไทยมีจำนวนลดลงต่อเนื่องมาตั้งแต่ปลายปี 2556 จากปัญหาทางการเมืองของประเทศไทย ทั้งนี้ ในช่วงครึ่งปีหลังของปี 2557 สถานการณ์ทางการเมืองของไทยเริ่มคลี่คลายทำให้การท่องเที่ยวเริ่มฟื้นตัว ส่งผลให้มีการใช้น้ำมันเครื่องบินมากขึ้นในช่วงครึ่งปีหลัง

LPG โพรเพน และบิวเทน ในปี 2557 การใช้อยู่ที่ระดับ 7,515 พันตัน ลดลงจากปี 2556 ร้อยละ 0.1 โดยในปี 2557 การใช้ LPG เป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมีมีสัดส่วนมากที่สุด คิดเป็นร้อยละ 36 ของปริมาณการใช้ทั้งหมด การใช้เพิ่มขึ้นร้อยละ 1.3 รองลงมาเป็นการใช้ในภาคครัวเรือนคิดเป็นสัดส่วนร้อยละ 29 มีการใช้ลดลงร้อยละ 9.2 การใช้เป็นเชื้อเพลิงในรถยนต์คิดเป็นสัดส่วนร้อยละ 26 มีการใช้เพิ่มขึ้นร้อยละ 11.2 และการใช้ในภาคอุตสาหกรรมคิดเป็นสัดส่วนร้อยละ 8 มีการใช้ลดลงร้อยละ 4.2

ทั้งนี้ รัฐบาลมีนโยบายในการปรับราคาขายปลีก LPG ทั้งในภาคครัวเรือน ขนส่ง และอุตสาหกรรม ให้มีราคาที่เท่ากันและสะท้อนต้นทุนที่แท้จริง ประกอบกับมาตรการที่เข้มงวดในการตรวจสอบและปราบปรามการลักลอบจำหน่าย LPG ผิดประเภท ทำให้การลักลอบนำ LPG ภาคครัวเรือนมาขายให้กับภาคขนส่ง รวมทั้งการลักลอบส่งออก LPG ไปขายในประเทศเพื่อนบ้านมีปริมาณลดลง

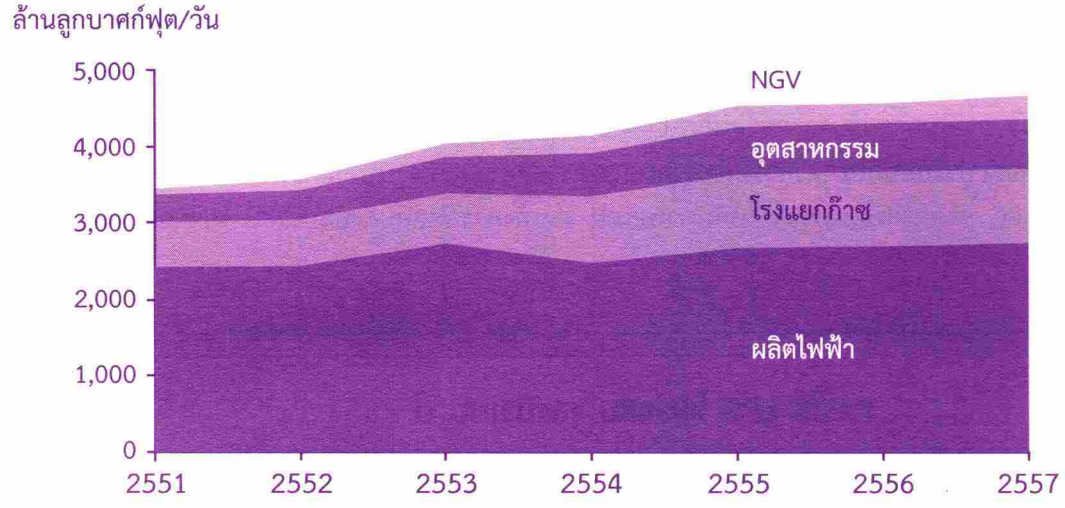
การใช้ LPG โพรเพน และบิวเทน ปี 2557



การใช้ปี 2557	ครัวเรือน	อุตสาหกรรม	รถยนต์	ปิโตรเคมี	ใช้เอง	รวม
ปริมาณการใช้ (พันตัน)	2,188	577	1,974	2,675	102	7,515
อัตราการเปลี่ยนแปลง (%)	-9.2	-4.1	11.2	1.3	3.6	-0.1

การใช้ก๊าซธรรมชาติ ในปี 2557 มีปริมาณการใช้อยู่ที่ระดับ 4,669 ล้านลูกบาศก์ฟุตต่อวัน เพิ่มขึ้นร้อยละ 2.2 จากปีก่อน มีการใช้เพิ่มขึ้นในทุกสาขา โดยการใช้เพื่อการผลิตไฟฟ้าซึ่งมีสัดส่วนสูงสุดคิดเป็นร้อยละ 59 ของการใช้ก๊าซธรรมชาติทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 1.6 การใช้เป็นเชื้อเพลิงในโรงงานอุตสาหกรรมเพิ่มขึ้นร้อยละ 2.8 ส่วนการใช้เพื่อเป็นเชื้อเพลิงสำหรับรถยนต์ (NGV) เพิ่มขึ้นร้อยละ 3.1 และการใช้ในโรงแยกก๊าซเพื่อเป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมีและอื่นๆ เพิ่มขึ้นร้อยละ 3.2

การใช้ก๊าซธรรมชาติรายสาขา ปี 2557



การใช้ปี 2557	ผลิตไฟฟ้า	โรงแยกก๊าซ	อุตสาหกรรม	NGV	รวม
ปริมาณการใช้ (ล้านลูกบาศก์ฟุต/วัน)	2,740	960	653	317	4,669
อัตราการเปลี่ยนแปลง (%)	1.6	3.2	2.8	3.1	2.2
สัดส่วน (%)	59	20	14	7	100

การใช้ลิกไนต์/ถ่านหิน ในปี 2557 มีการใช้อยู่ที่ระดับ 17,897 พันตันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นจากปีก่อนร้อยละ 13.0

การใช้ลิกไนต์ ในปี 2557 อยู่ที่ระดับ 4,863 พันตันเทียบเท่าน้ำมันดิบ ลดลงร้อยละ 3.3 โดยส่วนใหญ่ร้อยละ 87 ของลิกไนต์ทั้งหมด ถูกนำไปใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ กฟผ. และส่วนที่เหลือนำไปใช้ในภาคอุตสาหกรรมร้อยละ 13 ซึ่งอุตสาหกรรมปูนซีเมนต์มีการนำไปใช้มากที่สุดในกระบวนการผลิตปูนเม็ด

การใช้ถ่านหินนำเข้า ในปี 2557 มีปริมาณการใช้ที่ระดับ 13,034 พันตันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นร้อยละ 20.5 โดยภาคอุตสาหกรรมเป็นสาขาหลักที่มีการใช้ถ่านหินนำเข้ามากที่สุด คิดเป็นสัดส่วนร้อยละ 59 มีการใช้เพิ่มขึ้นถึงร้อยละ 30.1 คาดว่าเป็นการใช้เพื่อทดแทนลิกไนต์ภายในประเทศที่มีจำนวนลดลง นอกจากนี้ถ่านหินนำเข้าส่วนที่เหลือนำไปใช้ในภาคการผลิตไฟฟ้าของ IPP และ SPP ในสัดส่วนร้อยละ 30 และ 11 ตามลำดับ

สิ่งพิมพ์รัฐบาล
สมบัติห้องสมุดรัฐสภา

ไฟฟ้า

กำลังผลิตในระบบไฟฟ้า (System Generating Capacity) ณ เดือนธันวาคม 2557 อยู่ที่ 34,668 เมกะวัตต์ เพิ่มขึ้นจากปี 2556 อยู่ 987 เมกะวัตต์ โดยการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีกำลังผลิตในระบบไฟฟ้าสูงสุดคิดเป็นสัดส่วนร้อยละ 45 รองลงมาคือผู้ผลิตไฟฟ้าอิสระ/ผู้ผลิตไฟฟ้ารายใหญ่ (IPP) ร้อยละ 38 ผู้ผลิตไฟฟ้ารายเล็ก (SPP) ร้อยละ 10 และซื้อ/แลกเปลี่ยนกับต่างประเทศร้อยละ 7

ความต้องการพลังไฟฟ้าสูงสุดสุทธิ (Net Peak Generation Requirement) ในระบบของ กฟผ. เกิดขึ้น ณ วันพุธที่ 23 เมษายน 2557 เวลา 14.26 น. อยู่ที่ระดับ 26,942 เมกะวัตต์ มีค่าสูงกว่า peak ของปีก่อน ซึ่งเกิดเมื่อวันพฤหัสบดีที่ 16 พฤษภาคม 2556 เวลา 14.00 น. อยู่ 344 เมกะวัตต์

การผลิตไฟฟ้า ปริมาณการผลิตและการรับซื้อไฟฟ้าของ กฟผ. ในปี 2557 มีจำนวน 180,945 กิกะวัตต์ชั่วโมง เพิ่มขึ้นจากปี 2556 ร้อยละ 2.0 โดยส่วนใหญ่เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติคิดเป็นสัดส่วนร้อยละ 66 รองลงมาคือ ลิกไนต์/ถ่านหินคิดเป็นสัดส่วนร้อยละ 21 ไฟฟ้านำเข้าและพลังงานหมุนเวียนมีสัดส่วนร้อยละ 9 พลังน้ำคิดเป็นสัดส่วนร้อยละ 3 และน้ำมันคิดเป็นสัดส่วนร้อยละ 1

การใช้ไฟฟ้า ในปี 2557 อยู่ที่ระดับ 168,620 กิกะวัตต์ชั่วโมง เพิ่มขึ้นจากปี 2556 ร้อยละ 2.6 จากความเชื่อมั่นของผู้บริโภคและการขยายตัวทางเศรษฐกิจภายหลังจากสถานการณ์ทางการเมืองในประเทศปรับตัวในทิศทางที่ดีขึ้น โดยการใช้ไฟฟ้าในภาคอุตสาหกรรมที่มีสัดส่วนการใช้มากที่สุดคิดเป็นร้อยละ 44 มีการใช้ไฟฟ้าเพิ่มขึ้นร้อยละ 1.7 ภาคครัวเรือนและภาคธุรกิจมีการใช้ไฟฟ้าเพิ่มขึ้นร้อยละ 3.5 และ 3.1 ตามลำดับ

ค่าเอฟที ในปี 2557 มีการเปลี่ยนแปลง ดังนี้

ครั้งที่ 1 : ช่วงเดือนมกราคม - เมษายน 2557 อยู่ที่อัตรา 59.00 สตางค์ต่อหน่วย ปรับเพิ่มขึ้น 5.00 สตางค์ต่อหน่วย มีสาเหตุมาจากอัตราแลกเปลี่ยนที่มีแนวโน้มอ่อนค่าอย่างต่อเนื่อง รวมทั้งการเตรียมรองรับเหตุการณ์หยุดจ่ายก๊าซฯ พม่า และการหยุดจ่ายก๊าซจากอ่าวไทย จึงมีความจำเป็นต้องเพิ่มการผลิตไฟฟ้าจากโรงไฟฟ้าน้ำมันเตาและดีเซล เพื่อรักษาความมั่นคงของระบบไฟฟ้า

ครั้งที่ 2 : ช่วงเดือนพฤษภาคม - สิงหาคม 2557 อยู่ที่อัตรา 69.00 สตางค์ต่อหน่วย ปรับเพิ่มขึ้น 10.00 สตางค์ต่อหน่วย มีสาเหตุมาจากความต้องการใช้ไฟฟ้าที่คาดว่าจะเพิ่มสูงขึ้น เนื่องจากสภาพอากาศที่ร้อนมากขึ้น รวมทั้งค่าเชื้อเพลิงที่เพิ่มสูงขึ้นกว่างวดที่แล้ว

ครั้งที่ 3 : ช่วงเดือนกันยายน - ธันวาคม 2557 อยู่ที่อัตรา 69.00 สตางค์ต่อหน่วย เท่ากันกับช่วงเดือนพฤษภาคม - สิงหาคม 2557

THAI NATIONAL ASSEMBLY LIBRARY
3961202036

Chapter 1 : Thailand's Energy Situation In 2014

Overview

Thailand's GDP growth rate in 2014, estimated by the National Economic and Social Development Board (NESDB), was at 0.9%. In the first quarter of the year, the Thai economy declined, and then it was getting better in the second quarter since Thai politics was made stable. Since then, the consumer confidence of household consumption and private investment had shown positive signs. A figure of inbound tourist visited Thailand improved in a second half of the year. The exports, especially electronic parts and home appliances, were in somewhat expansion. The effects on the overall energy demand of the country can be summarized as follows.

Consumption, Production and Import of Primary Commercial Energy

The total primary energy consumption in 2014 increased by 2.6% from that in 2013, or at a level of 2,053 thousand barrels per day (KBD) of crude oil equivalent. Natural gas accounted for the largest share of energy consumption, i.e. 45% or an increase of 0.8%, due to the increasing number of NGV vehicles. Oil consumption was the second largest, held a share of 36%, or an increase of 0.6%. As for coal and lignite, their consumption decreased by 12.9%; whereas the demand for hydropower and imported electricity decreased by 3.6%.

The total primary energy production in 2014 decreased by 0.4% from that in 2013, or at a level of 1,073 thousand barrels per day (KBD) of crude oil equivalent. While energy net import increase 4.4% or at a level of 1,171 thousand barrels per day (KBD) of crude oil equivalent. Commercial energy imports (net) accounted for 57% of the primary commercial energy consumption.

Consumption, Production and Import of Primary Commercial Energy

Unit: KBD of crude oil equivalent

	2010	2011	2012	2013	2014
Consumption	1,783	1,854	1,982	2,002	2,053
Production	989	1,018	1,082	1,078	1,073
Import (Net)	1,001	1,020	1,082	1,122	1,171
Import/ Consumption (%)	56	55	55	56	57
Growth Rate (%)					
Consumption	7.2	4.0	6.9	1.0	2.6
Production	10.5	2.9	6.3	-0.4	-0.4
Import (Net)	8.6	1.9	6.1	3.6	4.4
GDP (%)	7.5	0.8	7.3	2.8	0.9

Consumption of Primary Commercial Energy	Petroleum	Natural Gas & LNG	Coal/ Lignite	Hydro/Imported Electricity	Total
Growth Rate (%)	0.6	0.8	12.9	-3.6	2.6

In 2014 Expenditure on Final Energy Consumption 2,280 Billion Baht (increase 2.6%)

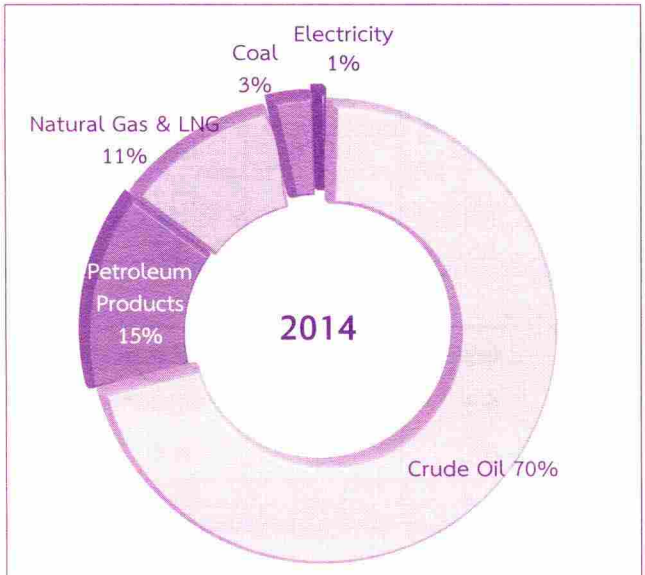
Final Energy Consumption	Petroleum products	Electricity	Natural Gas	Lignite/ coal	Renewable
Value of Consumption (Million Baht)	1,336,615	662,474	123,964	33,483	123,100
Growth Rate (%)	0.7	6.6	2.4	28.3	-2.3

Expenditure on Energy. A total of THB 2,280 billion was spent on energy consumption, an increase of THB 58 billion or 2.6%, compared to the previous year. The consumption value of petroleum products, electricity, natural gas and lignite/coal increased when compared with the 2013 level. While the value of consumption of renewable energy decreased by 2.3%.

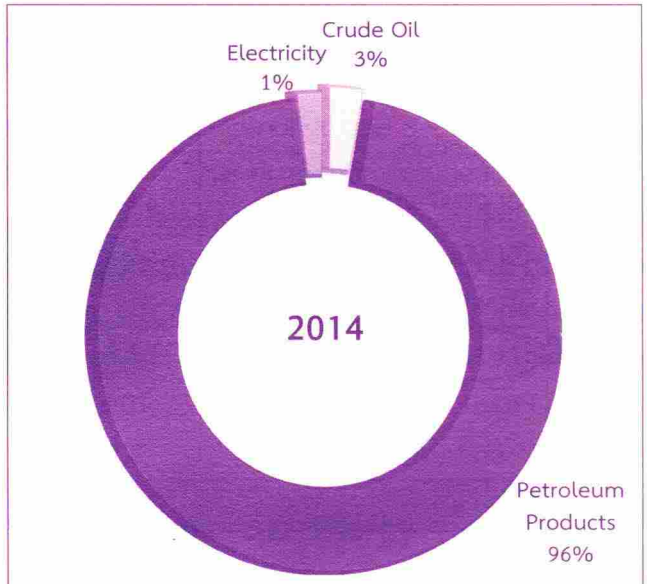
Energy Import. The total energy import in 2014 was worth THB 1,399 billion, decreasing by THB 17 billion or 1.2% from the previous year. The value of crude oil import shared 70% of total energy import value. Crude oil import value decreased by 8.6% since crude oil price was in downslope around the end of the year. The year average price was around US$ 102 a barrel due to downturn of world demand.

Energy Export. In 2014, the value of total energy export was THB 315 billion, decreased around THB 61 billion or 16.1% from 2013. The exports of all energy types declined. Petroleum products is the largest share of energy export, in amount of THB 301 billion, with a decrease of 11.9%.

Value of Energy Import & Export



Value of Energy Import 2014
1,399 Billion Baht
(decrease 1.2%)



Value of Energy Export 2014
315 Billion Baht
(decrease 16.1%)

2014	Crude Oil	Petroleum product	NG+LNG	Coal	Electricity
Value of Import (Million Baht)	979,704	202,265	150,476	47,947	18,919
Growth (%)	-8.6	45.5	2.5	-15.0	20.1

2014	Crude Oil	Petroleum product	Electricity
Value of Export (Million Baht)	8,653	301,425	5,116
Growth (%)	-70.3	-11.9	-15.6

Energy Situation By Energy Type

Crude Oil; crude oil imports in 2014 was at 805 KBD or 7.2% decrease. The import value was THB 980 billion, or 8.6% decrease, as the price of crude oil had declined at 6.8%, from an average import price at US$ 110 a barrel in 2013 to US$ 102 a barrel in 2014.

Petroleum Products. Compared with 2013, the total petroleum product consumption in 2014 increased by 0.6%. Gasoline consumption increased by 3.7% and diesel increased by 0.8%. While jet petroleum demand decreased by 0.8% and LPG decreased by 0.1%.

Petroleum Product Consumption

Unit : M.Litres/Day

Product	2011	2012	2013	2014	Growth Rate (%)		
					2012	2013	2014
Gasoline	20.1	21.1	22.5	23.3	4.8	6.6	3.7
Diesel	52.6	56.2	57.3	57.8	6.9	1.9	0.8
Jet Petroleum	13.9	13.9	15.3	15.1	0.0	9.5	-0.8
Fuel Oil	6.8	6.5	6.0	5.7	-4.0	-8.7	-3.7
LPG*	22.4	24.4	24.8	24.6	8.9	1.3	-0.1
Total	**115.9**	**122.2**	**125.7**	**126.5**	**5.4**	**2.9**	**0.6**

* Excluding LPG use as feedstock in the petrochemical industry

- *Gasoline* - The average consumption of gasoline in 2014 was at a level of 23.3 million litres per day or an increase of 3.7% compared with that in 2013.

The volume of *gasoline octane* 95 in 2014 was 1.4 million liters per day, compared to 1.7 million litres per day in 2013 because some users change to use gasohol.

The volume of *gasohol* consumption in 2014 was 21.9 million liters per day, compared to 20.5 million liters per day in 2013. The consumption increased in all type of gasohol because of lower price than gasoline.

- *Diesel* - Diesel consumption in 2014 was at an average of 57.8 million liters per day or an increase of 0.8%. The effect to diesel consumption was not only GDP growth, but also NGV. Since it had become a fuel substitution for diesel, this gave diesel pressure to its growth.

- *Jet Oil* - in 2014 jet oil consumption was 15.1 million liters per day, or 0.8% decrease from the previous year. Tourist visiting the country turned to be lower due to Thailand's political tumor from 2013 till the mid of 2014.

LPG, Propane and Butane - The consumption of these products in 2014 was at 7,515 thousand tons, or 0.1% decrease from the previous year

- The use as feedstock in the petrochemical industry accounted for the largest share of the total demand was at 36%, with growth rate of 1.3%.

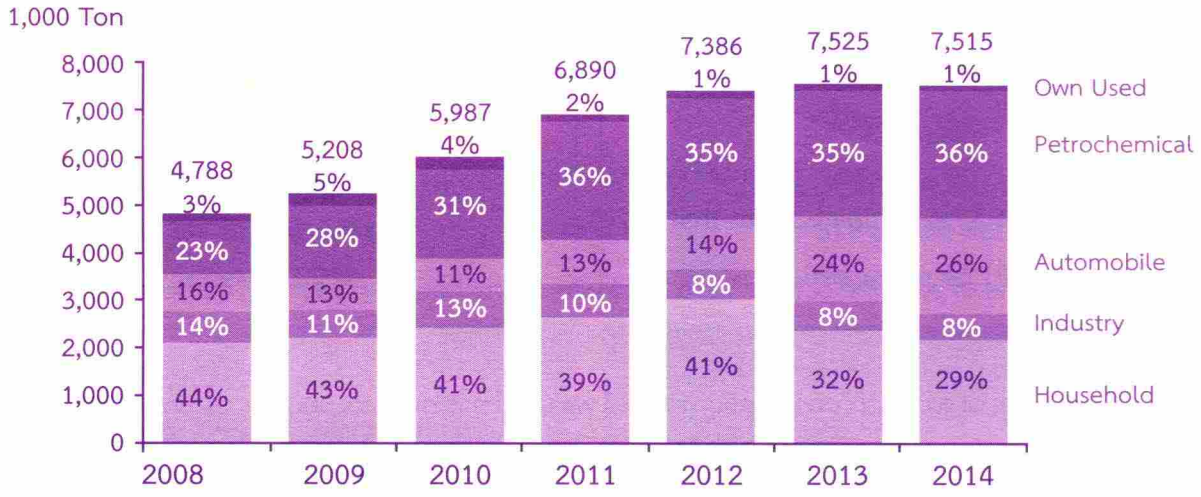
- The household consumption was the second largest share in 2014, holding a share of 29%. The consumption decreased by 9.2%

- The industry-sector use of LPG, which took a share of 8% of the total use, decreased 4.2% in 2014.

- The use as fuel for vehicles accounted for a share of 26%, increased sharply by 11.2%.

LPG policy of price subsidy, in household, industry and transport, was deregulated. It let the LPG price started to soar up higher than that it used to be. After that, LPG consumption in many sectors declined, expected that in transport.

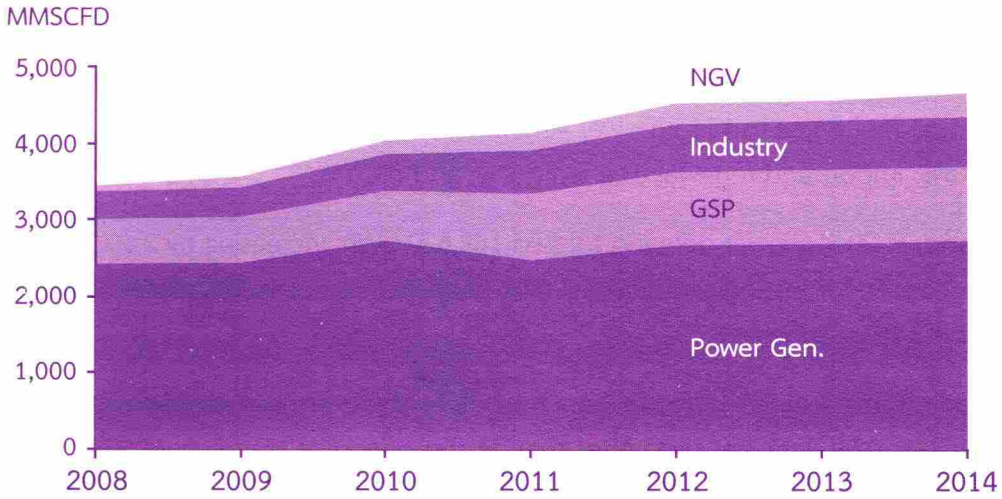
LPG Consumption by Sector



2014	Household	Industry	Automobile	Petrochemical	Own Used	Total
Consumption (Thousand Tons)	2,188	577	1,974	2,675	102	7,515
Growth Rate (%)	-9.2	-4.1	11.2	1.3	3.6	-0.1

Natural Gas Consumption. In 2014, the demand for natural gas was at a level of 4,669 MMSCFD, increasing by 2.2% from that in 2013 due to growing demand in all sectors. Natural gas was used in various manufacturing sectors and in power sector. Power generation was the largest share of 59%, increased by 1.6%. Natural gas demand in the industrial sector and for a use as the fuel for vehicles (NGV) increased by 2.8% and 3.1% respectively. Natural gas as feedstock in the gas separation plant (GSP), non-energy, increased by 3.2%.

Natural Gas Consumption by Sector



2014	Power Generation	Gas Separation Plant	Industry	NGV	Total
Consumption (MMSCFD)	2,740	960	653	317	4,669
Growth Rate (%)	1.6	3.2	2.8	3.1	2.2
Share (%)	59	20	14	7	100

Lignite/Coal Consumption. In 2014, lignite/coal consumption all together were 17,897 ktoe (thousand tons of crude oil equivalents), increasing by 13.0% from there in 2013, divided into consumption of lignite at 4,863 thousand tons of crude oil equivalents and of imported coal at 13,034 thousand tons of crude oil equivalents. Of the total lignite consumption, 87% was used for power generation by EGAT; and the remaining 13% was used in the industrial sector, e.g. cement manufacturing, paper, food, etc.

Electricity

System Generating Capacity. Thailand's installed capacity in 2014 was at 34,668 MW which was 987 MW higher than in 2013. EGAT was the largest share of 45%, IPP was the second largest share 38%, SPP and purchased/ foreign exchange share at 10% and 7% respectively.

Net Peak Generation Requirement. The peak load occurred on Wednesday, 23 April 2014, at 14.26 hrs. reaching 26,942 MW which was 344 MW higher than the 2013 peak load (26,598 MW), or an increase of 1.3%.

Power Generation. The amount of power generation, together with power purchase by EGAT, in 2014 totaled 180,945 gigawatts-hours (GWh), increasing by 2.0% compared with there the previous year. The share of individual fuel types used for power generation was as follows: natural gas, 66%; lignite/coal, 21%; hydropower, 3%; import and renewable energy, 9%; and oil, 1%.

Power Demand. In 2014, power demand totaled 168,620 GWh, increasing by 2.6% from that in 2013. Industrial sector accounted for the largest share, i.e. 44% or an increase of 1.7%, households and businesses increase of 3.5% and 3.1% respectively.

The Automatic Tariff Adjustment Mechanism (F_t). In the period of January–April 2014 (4-month long), the F_t rate was at 0.59 Baht per unit. After that, in the period of May-August 2014, the F_t rate was at 0.69 Baht per unit. During September-December 2014, the last period of the year, F_t did not adjust. Therefore, the F_t rate was at 0.69 Baht per unit.

Table 1.1-1Y
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Production	250,465	290,923	309,599	331,936	368,138	392,644	450,073	523,408	524,089	547,787	588,596	594,367
Crude	23,968	24,503	26,317	24,940	26,553	23,763	26,419	27,463	29,420	34,006	57,937	61,914
Condensate	17,538	19,799	24,146	26,192	27,863	27,271	32,436	40,774	42,177	45,171	47,528	47,188
Natural Gas	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,002	305,034	334,169	350,069	341,406
Lignite	73,846	86,017	91,295	96,021	107,695	114,816	131,686	142,732	124,868	119,305	106,981	116,451
Hydro	21,752	19,999	18,411	16,036	19,548	29,267	31,940	31,437	22,590	15,136	26,081	27,408
Import (Net)	354,756	371,980	419,731	492,902	540,526	640,253	739,220	709,378	621,827	657,304	684,592	750,732
Crude	210,001	220,739	277,501	323,859	372,885	452,114	633,170	728,757	679,728	698,895	643,063	674,211
Condensate	-15,157	-17,039	-14,532	-10,227	-16,662	-12,871	-21,995	-21,452	-16,405	-11,749	-4,423	-3,482
Petroleum Products	154,493	161,350	149,664	166,417	163,753	170,416	77,912	-40,379	-65,105	-75,019	-40,892	-76,091
Coal	4,264	5,871	6,247	11,704	19,001	29,356	48,717	41,133	20,424	40,997	52,177	61,850
Electricity	1,155	1,059	851	1,149	1,549	1,238	1,416	1,319	2,796	3,910	5,088	4,973
Natural Gas									389	270	29,579	89,271
Stock Change	439	-7,222	-2,954	3,222	-6,985	8,397	32,665	-36,720	-31,230	-42,319	-11,502	8,125
Consumption	600,472	664,612	718,553	804,947	899,880	1,007,874	1,120,759	1,175,656	1,087,154	1,119,357	1,147,873	1,199,719
Petroleum Products	386,018	410,794	451,899	509,873	566,110	635,902	685,204	681,331	611,475	611,852	579,543	560,907
Natural Gas	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,003	305,423	334,439	379,610	430,562
Coal	4,265	5,872	6,248	11,704	19,001	29,356	48,717	41,133	20,424	40,997	52,177	61,850
Lignite	73,921	86,283	91,714	97,438	107,193	114,584	125,890	139,433	124,446	113,023	105,374	114,019
Hydro & Imported Elec.	22,907	21,058	19,262	17,185	21,097	30,505	33,356	32,756	25,386	19,046	31,169	32,381
Import/Consumption	59	56	58	61	60	64	66	60	57	59	60	63
Non-Energy Use	4,310	5,513	13,731	16,669	15,769	16,626	35,869	93,850	89,992	128,053	136,817	137,255

Unit : Barrels/Day (Crude Oil Equivalent)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Production	631,698	666,413	676,286	737,579	765,110	793,721	848,354	894,765	988,589	1,017,647	1,082,135	1,077,848	1,072,523
Crude	75,567	96,322	85,516	113,890	128,950	134,563	143,935	154,041	153,174	139,991	148,977	149,481	138,758
Condensate	48,897	57,032	62,075	63,243	68,488	71,760	77,265	76,361	80,663	76,576	81,584	82,967	85,853
Natural Gas	356,897	373,241	387,695	411,849	422,782	451,905	499,246	537,370	629,965	642,689	718,065	726,714	731,874
Lignite	117,635	107,822	114,898	123,422	109,599	100,152	97,138	96,072	101,052	123,167	96,185	94,661	93,117
Hydro	32,702	31,996	26,102	25,175	35,291	35,341	30,770	30,921	23,735	35,224	37,324	24,025	22,921
Import (Net)	797,090	868,283	988,292	980,195	978,863	997,987	951,995	922,169	1,001,150	1,020,143	1,082,449	1,121,830	1,171,144
Crude	682,197	709,070	813,422	762,121	763,858	752,196	765,697	762,294	786,243	761,723	819,173	843,173	798,226
Condensate	-4,560				1		1	4	5	5	5	4	3
Petroleum Products	-66,410	-57,345	-55,733	-50,772	-90,544	-105,140	-166,681	-193,862	-162,464	-131,250	-155,152	-141,828	-93,573
Coal	70,025	88,931	94,170	107,164	140,264	180,274	199,304	204,976	211,422	204,254	229,556	216,724	261,158
Electricity	4,856	4,278	5,795	7,494	8,873	7,700	4,789	4,239	12,425	18,457	17,973	21,515	20,983
Natural Gas	110,982	123,349	130,638	154,188	156,411	162,957	148,885	144,518	153,519	166,954	170,894	182,242	184,347
Stock Change	-4,938	-33,133	-13,471	-22,207	-17,441	-45,092	-39,977	-94,854	-83,505	-127,079	-148,722	-140,549	-177,266
Consumption	1,282,742	1,348,769	1,451,510	1,520,787	1,545,497	1,604,405	1,618,725	1,663,312	1,782,908	1,854,465	1,981,846	2,001,532	2,052,595
Petroleum Products	589,745	624,347	687,228	690,083	674,542	667,310	634,451	643,441	653,317	674,600	709,943	729,742	734,080
Natural Gas	467,743	496,438	518,173	565,854	579,007	614,667	647,953	681,717	783,291	809,449	888,761	908,746	916,005
Coal	70,025	88,931	94,170	107,157	140,264	180,274	199,304	204,962	211,422	204,254	229,556	216,724	261,158
Lignite	117,671	102,779	120,042	125,024	107,520	99,113	101,458	98,032	98,718	112,481	98,289	100,780	97,448
Hydro & Imported Elec.	37,558	36,274	31,897	32,669	44,164	43,041	35,559	35,160	36,160	53,681	55,297	45,540	43,904
Import/Consumption	62	64	68	64	63	62	59	55	56	55	55	56	57
Non-Energy Use	150,984	219,060	226,539	219,194	215,917	232,395	221,601	248,476	290,336	310,404	331,460	338,695	368,338

Table 1.1-2Y
Primary Commercial Energy Production (Physical Unit)

Year	Hydro (GWh)	Lignite (Tons)				
		EGAT			Others	Total
		Mae-Moh	Krabi	Total		
1990	4,900	9,652,991	156,262	9,809,254	2,629,219	12,438,473
1991	4,505	11,513,775	242,699	11,756,475	2,889,540	14,646,015
1992	4,159	11,844,352	253,950	12,098,302	3,290,259	15,388,561
1993	3,613	11,221,088	211,800	11,432,888	4,105,039	15,537,927
1994	4,404	11,906,553	225,065	12,131,618	4,963,253	17,094,871
1995	6,593	13,191,880	144,232	13,336,112	5,084,686	18,420,798
1996	7,215	16,381,301		16,381,301	5,309,093	21,690,394
1997	7,082	17,692,415		17,692,415	5,746,141	23,438,556
1998	5,089	14,419,327		14,419,327	5,576,868	19,996,195
1999	3,410	12,021,265		12,021,265	6,240,043	18,261,308
2000	5,891	13,621,615	30,000	13,651,615	4,134,132	17,785,747
2001	6,174	15,314,436	133,000	15,447,436	4,159,559	19,606,995
2002	7,367	14,994,739	187,000	15,181,739	4,420,245	19,601,984
2003	7,208	15,591,841	146,000	15,737,841	3,105,554	18,843,395
2004	5,896	16,561,572	95,868	16,657,440	3,402,404	20,059,844
2005	5,671	16,534,142	36,522	16,570,664	4,307,512	20,878,176
2006	7,950	15,763,798	56,000	15,819,798	3,250,810	19,070,608
2007	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176
2008	6,951	16,420,847	23,248	16,444,095	1,651,290	18,095,385
2009	6,966	15,631,766		15,631,766	1,934,334	17,566,100
2010	5,347	15,987,263		15,987,263	2,270,799	18,258,062
2011	7,935	17,558,336		17,558,336	3,768,770	21,327,106
2012	8,431	16,590,461		16,590,461	1,475,968	18,066,429
2013	5,412	17,071,961		17,071,961	1,038,802	18,110,763
2014	5,164	17,139,595		17,139,595	842,127	17,981,722

Physical Unit

NG (MMscf)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		Benjamas	Sirikit	Tantawan	Fang	Others	Total
230,261	7,034		8,307		441		8,748
285,599	7,940		8,308		450	186	8,944
304,356	9,710		8,601		489	542	9,632
342,762	10,504		8,054		469	580	9,103
378,779	11,174		8,119		531	1,042	9,692
401,221	10,937		6,435		514	1,724	8,674
463,555	13,044		6,844		472	2,353	9,669
570,777	16,352		6,450	1,962	483	1,129	10,024
619,591	16,914		7,540	2,268	376	554	10,738
678,770	18,115	1,176	8,535	1,846	363	492	12,412
713,015	19,113	8,914	8,595	2,728	321	647	21,205
693,469	18,924	10,551	7,742	2,897	240	1,168	22,598
724,936	19,609	12,823	7,516	2,062	241	4,940	27,582
758,134	22,872	17,985	6,982	1,895	309	7,986	35,158
789,651	24,963	14,412	6,240	1,648	291	8,707	31,299
836,555	25,363	16,724	6,252	2,427	292	15,875	41,570
858,763	27,466	18,251	6,853	3,028	354	18,580	47,067
917,917	28,778	15,378	7,486	2,812	354	23,085	49,115
1,016,856	31,071	16,455	7,665	2,381	431	25,748	52,680
1,091,516	30,623	10,609	7,783	2,262	454	35,116	56,225
1,279,597	32,349	9,733	7,960	1,409	421	36,386	55,909
1,305,442	30,710	9,883	8,386	1,981	381	30,466	51,097
1,462,542	32,808	9,311	10,403	1,372	346	33,094	54,526
1,476,114	33,273	7,538	12,004	1,005	349	33,664	54,561
1,486,595	34,430	8,272	10,201	600	350	31,223	50,647

Table 1.1-3Y
Primary Commercial Energy Production (KTOE)

Year	Hydro	Lignite					NG
		EGAT			Others	Total	
		Mae-Moh	Krabi	Total			
1990	1,086	2,391	40	2,431	1,146	3,577	5,658
1991	998	2,852	63	2,915	1,260	4,175	7,017
1992	921	2,934	65	2,999	1,434	4,433	7,478
1993	800	2,779	55	2,834	1,790	4,624	8,422
1994	976	2,949	58	3,007	2,164	5,171	9,307
1995	1,461	3,268	37	3,305	2,217	5,522	9,858
1996	1,598	4,058		4,058	2,314	6,372	11,390
1997	1,569	4,382		4,382	2,505	6,887	14,024
1998	1,127	3,572		3,572	2,431	6,003	15,223
1999	755	2,978		2,978	2,720	5,698	16,677
2000	1,305	3,374	8	3,382	1,802	5,184	17,519
2001	1,368	3,793	34	3,827	1,813	5,640	17,039
2002	1,632	3,714	48	3,762	1,927	5,689	17,812
2003	1,597	3,862	38	3,900	1,354	5,254	18,627
2004	1,306	4,102	25	4,127	1,483	5,610	19,402
2005	1,256	4,096	9	4,105	1,878	5,983	20,554
2006	1,761	3,905	14	3,919	1,417	5,336	21,100
2007	1,764	3,992	7	3,999	913	4,912	22,553
2008	1,540	4,067	6	4,073	720	4,793	24,984
2009	1,543	3,872		3,872	843	4,715	26,819
2010	1,185	3,960		3,960	990	4,950	31,440
2011	1,758	4,349		4,349	1,643	5,992	32,075
2012	1,868	4,109		4,109	643	4,752	35,935
2013	1,199	4,229		4,229	453	4,682	36,268
2014	1,144	4,245		4,245	367	4,612	36,526

Unit : KTOE

Condensate	Crude Oil						Grand Total
	Benjamas	Sirikit	Tantawan	Fang	Others	Total	
875		1,136		60		1,196	12,392
988		1,136		62	25	1,223	14,401
1,208		1,176		67	74	1,317	15,357
1,307		1,101		64	79	1,245	16,398
1,391		1,110		73	142	1,325	18,170
1,361		880		70	236	1,186	19,388
1,623		936		65	322	1,322	22,305
2,035		882	268	66	154	1,371	25,886
2,105		1,031	310	51	76	1,468	25,926
2,254	161	1,167	252	50	67	1,697	27,081
2,378	1,219	1,175	373	44	88	2,899	29,285
2,355	1,443	1,059	396	33	160	3,090	29,492
2,440	1,753	1,028	282	33	675	3,771	31,344
2,846	2,459	955	259	42	1,092	4,807	33,131
3,106	1,971	853	225	40	1,190	4,280	33,704
3,156	2,287	855	332	40	2,171	5,684	36,633
3,418	2,496	937	414	48	2,541	6,435	38,050
3,581	2,103	1,024	384	48	3,156	6,716	39,526
3,867	2,250	1,048	326	59	3,521	7,203	42,387
3,811	1,451	1,064	309	62	4,802	7,688	44,576
4,026	1,331	1,088	193	58	4,975	7,644	49,245
3,822	1,351	1,147	271	52	4,166	6,987	50,634
4,083	1,273	1,422	188	47	4,525	7,455	54,093
4,141	1,031	1,641	137	48	4,603	7,460	53,750
4,285	1,131	1,395	82	48	4,269	6,925	53,492

Table 1.1-4Y
Primary Commercial Energy Import (Net) (Physical Unit)

Year	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products		
				Gasoline	Diesel	J.P.&Kerosene
1990	340,897	12,187	-6,078,577	643	5,576	524
1991	469,422	12,810	-6,833,180	786	5,144	580
1992	500,854	16,148	-5,843,959	953	4,271	679
1993	935,759	18,794	-4,101,385	635	5,328	648
1994	1,519,212	21,639	-6,682,085	594	4,715	515
1995	2,347,159	26,237	-5,161,711	379	5,729	178
1996	3,905,824	36,844	-8,820,929	-885	4,063	-163
1997	3,288,765	42,291	-8,602,987	-1,881	52	-231
1998	1,632,980	39,446	-6,578,884	-1,691	-1,487	-261
1999	3,277,890	40,558	-4,711,795	-1,657	-891	-1,119
2000	4,183,196	37,420	-1,778,593	-1,073	-1,031	-1,205
2001	4,945,205	39,125	-1,396,503	-1,336	-1,324	-879
2002	5,598,838	39,589	-1,828,900	-1,006	-1,625	-1,188
2003	7,110,436	41,148	122	-969	-1,543	-625
2004	7,549,953	47,333	-110	-1,167	-1,668	-376
2005	8,568,291	44,227		-2,022	-1,090	-601
2006	11,214,797	44,328	271	-1,922	-2,576	-1,017
2007	14,413,796	43,651	101	-1,417	-2,498	-443
2008	15,979,001	44,556	206	-1,478	-3,717	-1,407
2009	16,388,840	44,237	1,776	-1,337	-4,411	-1,618
2010	16,904,205	45,627	1,894	-1,342	-5,444	-1,827
2011	16,331,105	44,204	2,083	-935	-4,649	-1,297
2012	18,404,370	47,668	1,873	-1,265	-5,356	-781
2013	17,328,117	48,931	1,516	-1,372	-4,678	-1,540
2014	20,880,835	46,322	1,153	-455	-3,969	-1,322

Remarks : LPG includes Propane and Butane

Physical Unit

(Million Litres)				Electricity (GWh)	NG & LNG (MMscf)		
Fuel Oil	LPG	Others	Total		NG	LNG	Total
1,777	519	-5	9,035	676			
2,665	191	-94	9,272	620			
3,175	-56	-551	8,472	500			
3,331	-6	-566	9,370	673			
3,499	131	-176	9,278	907			
3,701	-112	-368	9,507	725			
1,727	-218	-401	4,123	832			
231	-870	-187	-2,885	773			
462	-870	-510	-4,358	1,637	791		791
598	-1,346	-727	-5,142	2,290	549		549
-147	-1,240	2,076	-2,620	2,988	60,247		60,247
-1,504	-1,403	1,823	-4,624	2,913	181,330		181,330
-767	-1,270	1,784	-4,072	2,844	225,429		225,429
-569	-1,426	1,523	-3,609	2,506	250,548		250,548
-325	-1,643	1,566	-3,613	3,403	266,082		266,082
539	-1,755	1,214	-3,714	4,389	313,190		313,190
-314	-1,067	1,067	-5,829	5,197	317,705		317,705
-1,942	-514	533	-6,281	4,510	331,002		331,002
-3,370	798	-320	-9,495	2,812	303,246		303,246
-3,795	1,377	-1,121	-10,904	2,483	293,548		293,548
-3,133	2,905	263	-8,578	7,277	311,830		311,830
-3,151	2,792	491	-6,749	10,810	303,402	35,719	339,121
-3,492	3,186	-595	-8,303	10,555	300,622	47,452	348,075
-3,506	3,640	8	-7,448	12,601	300,375	69,798	370,172
-3,465	3,869	1,264	-4,079	12,289	308,045	66,404	374,449

Table 1.1-5Y
Primary Commercial Energy Import (Net) (KTOE)

Year	Coal	Crude Oil	Condensate	Petroleum Products			
				Gasoline	Diesel	J.P.&Kerosene	Fuel Oil
1990	213	10,481	-756	479	4,806	429	1,673
1991	293	11,016	-850	585	4,434	474	2,508
1992	313	13,887	-727	710	3,682	555	2,989
1993	584	16,163	-510	473	4,593	530	3,135
1994	948	18,610	-832	442	4,064	421	3,293
1995	1,465	22,564	-642	282	4,938	146	3,484
1996	2,438	31,686	-1,098	-659	3,502	-133	1,626
1997	2,053	36,370	-1,071	-1,401	45	-189	217
1998	1,019	33,923	-819	-1,260	-1,282	-214	435
1999	2,046	34,880	-586	-1,234	-768	-915	563
2000	2,611	32,181	-221	-800	-889	-985	-138
2001	3,087	33,648	-174	-996	-1,142	-718	-1,415
2002	3,495	34,046	-228	-750	-1,401	-971	-722
2003	4,438	35,388		-722	-1,330	-511	-536
2004	4,713	40,707		-869	-1,438	-307	-306
2005	5,348	38,035		-1,506	-939	-491	508
2006	7,000	38,122		-1,432	-2,220	-832	-295
2007	8,997	37,540		-1,056	-2,154	-362	-1,828
2008	9,974	38,318		-1,101	-3,204	-1,150	-3,172
2009	10,230	38,044		-996	-3,802	-1,322	-3,572
2010	10,551	39,239		-1,000	-4,693	-1,494	-2,949
2011	10,194	38,015		-696	-4,008	-1,060	-2,966
2012	11,488	40,995		-942	-4,617	-639	-3,287
2013	10,816	42,080		-1,022	-4,032	-1,258	-3,300
2014	13,034	39,837		-339	-3,421	-1,081	-3,261

Remarks : LPG includes Propane and Butane

Unit : KTOE

			Electricity	NG & LNG			Grand Total
LPG	Others	Total		NG	LNG	Total	
327	-4	7,710	58				17,706
120	-70	8,051	53				18,563
-35	-411	7,490	43				21,006
-4	-421	8,306	57				24,600
83	-131	8,172	77				26,975
-70	-275	8,505	62				31,954
-137	-299	3,900	71				36,997
-548	-139	-2,015	66				35,403
-548	-380	-3,249	140	19		19	31,033
-848	-542	-3,744	195	13		13	32,804
-782	1,547	-2,047	255	1,480		1,480	34,259
-884	1,358	-3,797	248	4,455		4,455	37,467
-800	1,330	-3,314	242	5,539		5,539	39,780
-899	1,135	-2,863	214	6,156		6,156	43,333
-1,035	1,167	-2,788	290	6,538		6,538	49,460
-1,106	1,001	-2,533	374	7,695		7,695	48,919
-672	933	-4,518	443	7,806		7,806	48,853
-324	476	-5,248	384	8,133		8,133	49,806
503	-217	-8,341	240	7,451		7,451	47,642
868	-850	-9,674	212	7,212		7,212	46,024
1,830	196	-8,110	620	7,662		7,662	49,962
1,759	421	-6,550	921	7,455	878	8,333	50,913
2,007	-288	-7,766	899	7,386	1,166	8,552	54,168
2,294	241	-7,077	1,074	7,380	1,715	9,095	55,988
2,438	995	-4,669	1,047	7,569	1,632	9,201	58,450

Table 1.1-6Y
Primary Commercial Energy Consumption (Physical Unit)

Physical Unit

Year	Hydro / Import (GWh)	Lignite (Tons)					NG & LNG (MMscf)	Petroleum (Million Litres)	Imported Coal (Tons)
		EGAT			Others	Total			
		Mae-Moh	Krabi	Total					
1990	5,576	9,619,613	255,710	9,875,323	2,600,686	12,476,010	230,261	22,957	340,987
1991	5,125	11,504,708	219,982	11,724,690	2,934,444	14,659,135	285,599	24,379	469,513
1992	4,659	12,129,274	241,265	12,370,539	3,193,113	15,563,652	304,356	26,856	500,946
1993	4,285	11,239,942	249,845	11,489,787	4,222,965	15,712,752	342,762	30,202	935,759
1994	5,311	11,908,173	247,711	12,155,884	4,897,708	17,053,592	378,779	33,523	1,519,212
1995	7,318	13,374,488	193,005	13,567,493	4,939,136	18,506,629	401,221	37,660	2,347,159
1996	8,047	16,405,340		16,405,340	4,688,467	21,093,807	463,555	40,793	3,905,842
1997	7,855	18,010,806		18,010,806	5,235,658	23,246,464	570,777	40,600	3,288,780
1998	6,726	15,388,095		15,388,095	5,029,499	20,417,594	620,381	36,559	1,632,970
1999	5,700	13,893,584		13,893,584	4,610,512	18,504,096	679,318	36,622	3,277,940
2000	8,879	14,120,569		14,120,569	3,722,528	17,843,097	773,183	35,066	4,183,209
2001	9,087	15,744,116		15,744,116	3,753,746	19,497,862	874,564	34,182	4,945,198
2002	10,211	15,035,329		15,035,329	4,503,816	19,539,145	950,087	35,942	5,598,850
2003	9,713	15,406,532		15,406,532	2,753,088	18,159,620	1,008,373	37,988	7,110,439
2004	9,300	16,536,694		16,536,694	4,006,700	20,543,394	1,055,404	41,683	7,549,950
2005	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,762	8,567,691
2006	13,147	15,815,374		15,815,374	3,036,745	18,852,119	1,176,088	41,092	11,214,800
2007	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,060	14,413,800
2008	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,572	15,979,000
2009	9,448	15,818,265		15,818,265	2,042,528	17,860,793	1,384,714	40,105	16,387,662
2010	12,624	16,004,196		16,004,196	2,017,685	18,021,881	1,591,032	40,874	16,904,203
2011	18,745	17,161,168		17,161,168	2,856,989	20,018,157	1,644,165	42,287	16,331,105
2012	18,986	16,754,281		16,754,281	1,611,596	18,365,877	1,810,211	44,708	18,404,375
2013	18,013	16,884,947		16,884,947	1,776,159	18,661,106	1,845,859	45,878	17,328,104
2014	17,453	17,020,425		17,020,425	1,357,189	18,377,614	1,860,603	46,155	20,880,850

Table 1.1-7Y
Primary Commercial Energy Consumption (KTOE)

Unit : KTOE

Year	Hydro / Import Electricity	Lignite			Others	Total	NG & LNG	Petroleum	Imported Coal	Total
		EGAT								
		Mae-Moh	Krabi	Total						
1990	1,144	2,383	66	2,449	1,241	3,690	5,658	19,265	213	29,970
1991	1,051	2,850	57	2,907	1,400	4,307	7,017	20,501	293	33,169
1992	964	3,004	62	3,066	1,523	4,589	7,478	22,615	313	35,959
1993	857	2,784	64	2,848	2,014	4,862	8,422	25,446	584	40,171
1994	1,053	2,950	64	3,014	2,336	5,350	9,307	28,253	948	44,911
1995	1,523	3,313	50	3,363	2,356	5,719	9,858	31,736	1,465	50,301
1996	1,669	4,064		4,064	2,236	6,300	11,390	34,290	2,438	56,087
1997	1,635	4,461		4,461	2,497	6,958	14,024	34,003	2,053	58,673
1998	1,267	3,812		3,812	2,399	6,211	15,243	30,517	1,019	54,257
1999	950	3,441		3,441	2,199	5,640	16,691	30,536	2,046	55,863
2000	1,560	3,498		3,498	1,776	5,274	18,997	29,002	2,611	57,444
2001	1,616	3,900		3,900	1,791	5,691	21,488	27,993	3,087	59,875
2002	1,874	3,724		3,724	2,148	5,872	23,344	29,432	3,495	64,017
2003	1,811	3,816		3,816	1,313	5,129	24,776	31,159	4,438	67,313
2004	1,596	4,096		4,096	1,911	6,007	25,931	34,391	4,713	72,638
2005	1,630	4,105		4,105	2,135	6,240	28,240	34,440	5,348	75,898
2006	2,204	3,917		3,917	1,449	5,366	28,896	33,664	7,000	77,130
2007	2,148	3,916		3,916	1,030	4,946	30,676	33,303	8,997	80,070
2008	1,780	4,064		4,064	1,013	5,077	32,426	31,750	9,974	81,007
2009	1,755	3,918		3,918	974	4,892	34,022	32,112	10,229	83,010
2010	1,805	3,964		3,964	962	4,926	39,092	32,605	10,551	88,979
2011	2,679	4,251		4,251	1,363	5,614	40,397	33,667	10,194	92,551
2012	2,767	4,150		4,150	769	4,919	44,477	35,528	11,488	99,179
2013	2,273	4,182		4,182	847	5,029	45,353	36,419	10,816	99,890
2014	2,191	4,216		4,216	647	4,863	45,715	36,636	13,034	102,439

Table1.2-1Y
Final Modern Energy Consumption (Physical Unit)

Year	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (M. Litres)			
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.
1990	341	2,601	2,942	1,716	1,746	1,941	2,292
1991	470	2,804	3,273	1,845	1,885	2,005	2,468
1992	501	3,141	3,641	2,059	2,217	2,118	2,724
1993	936	4,223	5,159	2,224	2,748	2,164	2,899
1994	1,519	4,898	6,417	2,404	3,419	2,173	3,134
1995	2,335	4,939	7,275	2,629	4,087	2,206	3,295
1996	3,840	4,688	8,528	2,902	4,842	2,076	3,393
1997	3,197	5,236	8,432	2,985	5,382	1,973	3,543
1998	1,528	5,030	6,558	2,757	4,969	2,199	3,315
1999	2,205	4,611	6,816	2,983	4,685	2,340	3,298
2000	2,053	3,723	5,776	3,375	3,427	3,335	3,494
2001	2,603	3,754	6,357	3,728	3,001	3,856	3,717
2002	3,197	4,504	7,700	3,882	2,985	4,341	3,778
2003	4,885	2,753	7,638	3,975	3,085	4,550	3,761
2004	5,356	4,007	9,363	4,035	3,029	4,631	4,242
2005	6,495	4,476	10,971	4,364	2,886	4,362	4,293
2006	7,265	3,037	10,302	5,074	2,656	4,559	4,519
2007	8,665	2,159	10,825	5,812	2,625	4,712	4,932
2008	10,072	2,124	12,196	6,828	2,809	4,311	4,636
2009	10,778	2,043	12,821	6,894	3,233	4,292	4,431
2010	11,289	2,018	13,307	7,587	2,908	4,509	4,712
2011	10,196	2,857	13,053	8,178	2,394	4,937	5,077
2012	10,625	1,612	12,237	8,930	2,376	5,329	5,091
2013	9,533	1,776	11,309	9,027	4,749	3,446	5,562
2014	12,381	1,357	13,739	8,948	4,911	3,595	5,513

* : Including Power Generation from SPP
** : Preliminary data
*** : Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Physical Unit

				Electricity (GWh)*	NG in Industry (MMscf)		
Kerosene	Diesel	Fuel Oil	Total		Energy	Others	Total
123	9,765	2,679	20,262	38,174	5,551	4,990	10,541
111	9,889	2,950	21,153	44,204	7,685	6,063	13,748
112	10,282	3,553	23,065	49,290	11,873	6,263	18,135
107	11,746	3,705	25,592	55,184	14,543	6,101	20,644
114	12,814	4,202	28,259	62,483	19,211	5,189	24,400
101	14,863	4,464	31,645	70,532	26,093	6,610	32,703
98	16,507	4,585	34,404	78,282	28,057	6,670	34,727
86	16,807	4,429	35,205	83,211	34,886	7,742	42,628
55	14,994	3,711	32,000	82,435	33,514	6,303	39,817
52	15,172	4,194	32,725	83,720	44,002	8,180	52,182
49	14,956	4,036	32,672	90,349	66,281	7,704	73,985
57	15,161	3,938	33,459	95,870	68,782		68,782
81	16,043	4,291	35,400	103,248	76,205		76,205
36	17,542	4,411	37,360	110,245	82,732		82,732
23	19,578	4,792	40,332	119,304	98,784		98,784
21	19,559	4,376	39,861	125,770	99,772		99,772
20	18,365	3,983	39,175	131,428	107,803		107,803
18	18,704	3,468	40,271	137,320	135,136		135,136
16	17,642	3,071	39,314	139,978	162,535		162,535
18	18,462	2,650	39,980	139,292	197,533		197,533
15	18,483	2,506	40,720	153,884	234,578		234,578
13	19,195	2,167	41,961	153,332	295,160		295,160
13	20,559	2,070	44,369	164,276	343,669		343,669
11	20,847	1,858	45,500	166,515	352,486		352,486
11	21,063	1,714	45,754	171,201	361,383		361,383

Table 1.2-2Y
Final Modern Energy Consumption (KTOE)

Year	Solid Fossil Fuel			Petroleum Products			
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.
1990	213	1,241	1,454	1,082	1,301	1,446	1,874
1991	293	1,337	1,630	1,163	1,405	1,494	2,017
1992	313	1,498	1,811	1,297	1,652	1,578	2,227
1993	584	2,014	2,598	1,401	2,047	1,612	2,369
1994	948	2,336	3,284	1,515	2,547	1,619	2,562
1995	1,458	2,356	3,814	1,656	3,045	1,644	2,693
1996	2,397	2,236	4,633	1,829	3,608	1,547	2,773
1997	1,995	2,497	4,492	1,881	4,010	1,470	2,896
1998	954	2,399	3,353	1,737	3,702	1,639	2,709
1999	1,376	2,199	3,575	1,880	3,491	1,744	2,696
2000	1,282	1,776	3,058	2,127	2,553	2,484	2,856
2001	1,625	1,791	3,416	2,349	2,236	2,873	3,039
2002	1,995	2,148	4,143	2,446	2,224	3,235	3,088
2003	3,049	1,313	4,362	2,505	2,298	3,390	3,074
2004	3,343	1,911	5,254	2,543	2,257	3,451	3,467
2005	4,054	2,135	6,189	2,750	2,150	3,250	3,509
2006	4,535	1,449	5,984	3,198	1,979	3,397	3,693
2007	5,409	1,030	6,439	3,663	1,956	3,510	4,031
2008	6,287	1,013	7,300	4,303	2,093	3,212	3,790
2009	6,728	974	7,702	4,344	2,409	3,198	3,622
2010	7,047	962	8,009	4,781	2,166	3,360	3,851
2011	6,364	1,363	7,727	5,153	1,784	3,678	4,150
2012	6,632	769	7,401	5,627	1,770	3,970	4,162
2013	5,950	847	6,797	5,688	3,538	2,567	4,547
2014	7,728	647	8,375	5,638	3,659	2,678	4,506

* : Including Power Generation from SPP
** : Preliminary data
*** : Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Unit : KTOE

				Electricity*	NG in Industry			Total
Kerosene	Diesel	Fuel Oil	Total		Energy	Others	Total	
101	8,417	2,521	16,742	3,253	136	123	259	21,708
91	8,524	2,777	17,471	3,767	189	149	338	23,206
92	8,863	3,344	19,053	4,200	292	154	446	25,510
88	10,124	3,487	21,128	4,702	357	150	507	28,935
93	11,046	3,955	23,337	5,324	472	127	599	32,544
82	12,812	4,202	26,134	6,010	641	162	803	36,761
80	14,229	4,315	28,381	6,670	689	164	853	40,537
70	14,487	4,169	28,983	7,090	857	190	1,047	41,612
45	12,925	3,492	26,249	7,024	823	155	978	37,604
42	13,078	3,947	26,878	7,134	1,081	201	1,282	38,869
40	12,892	3,799	26,751	7,699	1,629	189	1,818	39,326
46	13,069	3,707	27,319	8,169	1,690		1,690	40,594
66	13,829	4,039	28,927	8,798	1,872		1,872	43,740
29	15,121	4,152	30,569	9,394	2,033		2,033	46,358
19	16,876	4,511	33,124	10,166	2,427		2,427	50,971
17	16,859	4,119	32,654	10,717	2,451		2,451	52,011
16	15,830	3,749	31,862	11,199	2,649		2,649	51,694
15	16,122	3,264	32,561	11,701	3,320		3,320	54,021
13	15,207	2,890	31,508	11,928	3,993		3,993	54,729
14	15,914	2,495	31,996	11,869	4,853		4,853	56,420
12	15,932	2,359	32,461	13,112	5,764		5,764	59,346
11	16,545	2,040	33,361	13,065	7,252		7,252	61,405
11	17,722	1,948	35,210	13,998	8,444		8,444	65,053
9	17,970	1,749	36,068	14,189	8,661		8,661	65,715
9	18,156	1,613	36,259	14,588	8,879		8,879	68,101

Table 1.3-1
Energy Reserves
31 December 2014

Energy Type (Original Unit)	Reserves*			Production 2014	Available For Use (year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
PETROLEUM							
- CRUDE OIL (MMBBL.)	223	553	741	51	4	11	15
- CONDENSATE (MMBBL.)	182	411	476	34	5	12	14
- NATURAL GAS (BCF)	7,752	15,560	18,885	1,206	6	13	16

Energy Type (KTOE)	Reserves*			Production 2014	Available For Use (year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
PETROLEUM	243,607	509,068	624,558	40,774			
- CRUDE OIL	30,491	75,612	101,318	6,912	4	11	15
- CONDENSATE	22,649	51,147	59,236	4,231	5	12	14
- NATURAL GAS	190,467	382,309	464,004	29,631	6	13	16

Energy Type (MMBBL Crude Oil Equivalent)	Reserves*			Production 2014	Available For Use (year)		
	P1	P1+P2	P1+P2+P3		P1	P1+P2	P1+P2+P3
PETROLEUM	1,782	3,723	4,568	298			
- CRUDE OIL	223	553	741	51	4	11	15
- CONDENSATE	166	374	433	31	5	12	14
- NATURAL GAS	1,393	2,796	3,394	217	6	13	16

Remark : P1 = Proved Reserves, P2 = Probable Reserves, P3 = Possible Reserves
Includes Malaysia-Thailand Joint Development Area
Source : * Department of Mineral Fuels

Table 1.1-1M
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite (Tons)					NG (MMscf)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT			Others	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi	Total										
2010														
Jan	619	1,358,183		1,358,183	177,050	1,535,233	98,931	2,568	841	733	128	36	2,910	4,648
Feb	639	1,209,511		1,209,511	252,862	1,462,373	91,480	2,302	748	631	161	34	2,727	4,300
Mar	769	1,343,448		1,343,448	222,982	1,566,430	112,654	2,903	913	683	169	39	3,056	4,860
Apr	513	1,412,283		1,412,283	206,286	1,618,569	101,305	2,550	869	677	106	37	2,849	4,539
May	521	1,537,747		1,537,747	183,169	1,720,916	107,210	2,727	873	677	121	39	3,193	4,903
Jun	416	1,242,187		1,242,187	218,660	1,460,847	110,333	2,734	876	683	113	37	3,264	4,971
Jul	335	1,276,520		1,276,520	153,860	1,430,380	106,349	2,846	891	712	88	36	3,329	5,057
Aug	341	1,291,936		1,291,936	132,330	1,424,266	110,399	2,751	818	696	93	35	3,377	5,019
Sep	245	1,303,351		1,303,351	123,300	1,426,651	108,116	2,662	746	624	113	32	3,266	4,781
Oct	171	1,301,037		1,301,037	165,200	1,466,237	113,739	2,852	733	575	98	33	3,009	4,449
Nov	329	1,370,110		1,370,110	173,200	1,543,310	108,615	2,687	714	648	102	30	2,786	4,281
Dec	450	1,340,950		1,340,950	261,900	1,602,850	110,467	2,767	709	621	117	33	2,619	4,099
YTD	5,347	15,987,263		15,987,263	2,270,799	18,258,062	1,279,597	32,349	9,733	7,960	1,409	421	36,386	55,909
2011														
Jan	577	1,645,139		1,645,139	191,874	1,837,013	114,015	2,815	890	633	141	33	2,555	4,252
Feb	652	1,394,702		1,394,702	176,770	1,571,472	105,267	2,656	703	526	144	31	2,357	3,761
Mar	584	1,529,052		1,529,052	200,700	1,729,752	120,417	3,033	860	702	155	34	2,515	4,266
Apr	470	1,455,516		1,455,516	172,400	1,627,916	110,112	2,721	898	727	138	30	2,277	4,069
May	374	1,340,459		1,340,459	171,000	1,511,459	117,341	2,650	878	762	206	31	2,702	4,579
Jun	394	1,618,168		1,618,168	182,905	1,801,073	109,486	2,372	771	762	188	31	2,633	4,385
Jul	392	1,456,668		1,456,668	861,525	2,318,193	99,752	2,347	845	755	190	31	2,448	4,270
Aug	902	1,664,345		1,664,345	310,755	1,975,100	105,402	2,486	814	784	177	33	2,604	4,412
Sep	999	1,377,383		1,377,383	1,080,640	2,458,023	105,214	2,355	798	724	125	32	2,615	4,293
Oct	1,137	1,352,220		1,352,220	136,026	1,488,246	101,649	2,416	806	468	151	32	2,623	4,080
Nov	632	1,141,767		1,141,767	155,800	1,297,567	103,331	2,334	808	765	189	31	2,602	4,395
Dec	822	1,582,917		1,582,917	128,375	1,711,292	113,458	2,525	810	778	179	31	2,535	4,334
YTD	7,935	17,558,336		17,558,336	3,768,770	21,327,106	1,305,442	30,710	9,883	8,386	1,981	381	30,466	51,097
2012														
Jan	1,138	1,292,151		1,292,151	161,879	1,454,030	120,649	2,501	708	777	119	32	2,753	4,390
Feb	1,252	1,480,657		1,480,657	123,334	1,603,991	104,210	2,285	827	776	113	29	2,844	4,589
Mar	1,073	1,313,185		1,313,185	125,950	1,439,135	119,214	2,634	991	844	113	31	3,112	5,091
Apr	849	1,372,951		1,372,951	365,320	1,738,271	115,908	2,617	895	833	106	28	2,789	4,651
May	746	1,529,188		1,529,188	284,522	1,813,710	122,274	2,665	898	876	97	29	2,357	4,257
Jun	481	1,249,878		1,249,878	32,848	1,282,726	117,017	2,603	908	829	107	27	2,517	4,389
Jul	440	1,632,368		1,632,368	45,420	1,677,788	132,289	3,004	711	886	103	30	2,772	4,503
Aug	449	1,247,007		1,247,007	31,740	1,278,747	125,166	2,889	724	888	105	30	2,777	4,524
Sep	401	1,536,691		1,536,691	31,650	1,568,341	122,303	2,836	724	863	119	28	2,660	4,393
Oct	411	1,343,814		1,343,814	112,720	1,456,534	127,777	2,976	548	895	129	28	2,792	4,393
Nov	597	1,271,893		1,271,893	117,135	1,389,028	129,384	2,940	725	898	113	27	2,817	4,579
Dec	593	1,320,678		1,320,678	43,450	1,364,128	126,352	2,856	651	1,038	147	27	2,904	4,767
YTD	8,431	16,590,461		16,590,461	1,475,968	18,066,429	1,462,542	32,808	9,311	10,403	1,372	346	33,094	54,526

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite (Tons)					NG (MMscf)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT			Others	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi	Total										
2013														
Jan	598	1,511,773		1,511,773	37,900	1,549,673	122,924	2,994	641	1,020	128	30	2,956	4,776
Feb	595	1,335,122		1,335,122	69,590	1,404,712	115,783	2,721	610	959	93	28	2,704	4,395
Mar	549	1,256,906		1,256,906	48,535	1,305,441	129,737	2,896	691	1,072	113	31	2,994	4,901
Apr	543	1,170,905		1,170,905	36,040	1,206,945	123,331	2,753	674	1,073	94	29	2,870	4,740
May	574	1,541,706		1,541,706	151,642	1,693,348	131,980	3,025	450	1,032	80	31	3,208	4,800
Jun	432	1,793,489		1,793,489	108,817	1,902,306	121,485	2,690	643	1,001	67	30	2,847	4,588
Jul	323	1,738,907		1,738,907	123,300	1,862,207	129,335	2,995	629	1,001	68	30	2,549	4,277
Aug	355	1,216,365		1,216,365	97,110	1,313,475	122,328	2,632	596	1,014	82	31	2,833	4,557
Sep	360	1,320,036		1,320,036	122,378	1,442,414	115,553	2,484	480	979	70	31	2,730	4,291
Oct	367	1,420,072		1,420,072	115,539	1,535,611	124,615	2,756	718	1,021	95	31	2,807	4,672
Nov	296	1,180,080		1,180,080	61,691	1,241,771	121,141	2,726	695	934	66	24	2,464	4,183
Dec	420	1,586,600		1,586,600	66,260	1,652,860	117,904	2,600	710	899	48	23	2,701	4,381
YTD	5,412	17,071,961		17,071,961	1,038,802	18,110,763	1,476,114	33,273	7,538	12,004	1,005	349	33,664	54,561
2014														
Jan	575	1,231,149		1,231,149	55,825	1,286,974	130,291	2,791	676	914	46	106	2,334	4,075
Feb	583	1,296,509		1,296,509	65,600	1,362,109	118,817	2,635	735	838	47	23	2,254	3,898
Mar	584	1,388,149		1,388,149	74,873	1,463,022	132,843	2,908	849	717	43	25	2,702	4,337
Apr	544	1,431,734		1,431,734	59,450	1,491,184	118,755	2,444	793	846	30	24	2,694	4,387
May	501	1,491,905		1,491,905	56,330	1,548,235	128,683	3,165	783	926	54	24	2,591	4,378
Jun	565	1,677,797		1,677,797	82,050	1,759,847	119,552	3,054	660	853	53	22	2,549	4,136
Jul	489	1,452,522		1,452,522	89,720	1,542,242	120,827	3,040	682	875	37	22	2,407	4,023
Aug	301	1,424,092		1,424,092	71,650	1,495,742	121,592	2,933	690	816	45	21	2,698	4,270
Sep	221	1,721,225		1,721,225	56,437	1,777,662	116,405	2,854	616	864	62	21	2,617	4,180
Oct	253	1,241,727		1,241,727	66,405	1,308,132	130,009	3,019	507	891	55	21	2,519	3,992
Nov	282	1,304,267		1,304,267	104,654	1,408,921	125,594	2,801	587	824	62	21	2,918	4,413
Dec	266	1,478,519		1,478,519	59,133	1,537,652	123,226	2,786	693	837	67	21	2,940	4,558
YTD	5,164	17,139,595		17,139,595	842,127	17,981,722	1,486,595	34,430	8,272	10,201	600	350	31,223	50,647

Table 1.1-2M
Primary Commercial Energy Production (KTOE)

Unit : KTOE

Month	Hydro	Lignite					NG	Condensate	Crude Oil						Grand Total
		EGAT			Non EGAT	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi	Total											
2010															
Jan	137	336		336	77	413	2,431	320	115	100	18	5	398	636	3,937
Feb	141	300		300	110	410	2,248	287	102	86	22	5	373	588	3,674
Mar	170	333		333	97	430	2,768	361	125	93	23	5	418	665	4,394
Apr	114	350		350	90	440	2,489	317	119	93	15	5	390	621	3,981
May	115	381		381	80	461	2,634	339	119	93	17	5	437	671	4,220
Jun	92	308		308	95	403	2,711	340	120	93	15	5	447	680	4,226
Jul	74	316		316	67	383	2,613	354	122	97	12	5	456	692	4,116
Aug	75	320		320	58	378	2,712	342	112	95	13	5	462	687	4,194
Sep	54	323		323	54	377	2,656	331	102	85	15	4	447	654	4,072
Oct	38	322		322	72	394	2,795	355	100	79	13	5	412	609	4,191
Nov	73	339		339	76	415	2,669	334	98	89	14	4	381	586	4,077
Dec	100	332		332	114	446	2,714	344	97	85	16	5	358	561	4,165
YTD	1,185	3,960		3,960	990	4,950	31,440	4,026	1,331	1,088	193	58	4,975	7,644	49,245
2011															
Jan	128	408		408	84	492	2,801	350	122	87	19	5	350	582	4,353
Feb	144	345		345	77	422	2,586	331	96	72	20	4	323	515	3,998
Mar	129	379		379	87	466	2,959	377	118	96	21	5	344	584	4,515
Apr	104	361		361	75	436	2,705	339	123	99	19	4	312	557	4,141
May	83	332		332	75	407	2,883	330	120	104	28	4	370	627	4,330
Jun	87	401		401	80	481	2,690	295	106	104	26	4	360	600	4,153
Jul	87	361		361	376	737	2,451	292	116	103	26	4	335	584	4,151
Aug	200	412		412	135	547	2,590	309	111	107	24	5	356	604	4,250
Sep	221	341		341	471	812	2,585	293	109	99	17	4	358	588	4,499
Oct	252	335		335	59	394	2,498	301	110	64	21	4	359	558	4,003
Nov	140	283		283	68	351	2,539	291	111	105	26	4	356	601	3,922
Dec	182	392		392	56	448	2,788	314	111	106	25	4	347	593	4,325
YTD	1,758	4,349		4,349	1,643	5,992	32,075	3,822	1,351	1,147	271	52	4,166	6,987	50,634
2012															
Jan	252	320		320	71	391	2,964	311	97	106	16	4	377	601	4,519
Feb	277	367		367	54	421	2,560	284	113	106	15	4	389	628	4,170
Mar	238	325		325	55	380	2,929	328	136	116	15	4	426	697	4,572
Apr	188	340		340	159	499	2,848	326	123	114	15	4	382	637	4,498
May	165	379		379	124	503	3,004	332	123	120	13	4	323	583	4,587
Jun	107	310		310	14	324	2,875	324	124	113	15	4	344	601	4,231
Jul	98	404		404	20	424	3,250	374	97	121	14	4	379	616	4,762
Aug	99	309		309	14	323	3,075	360	99	121	14	4	380	619	4,476
Sep	89	381		381	14	395	3,005	353	99	118	16	4	364	601	4,443
Oct	91	333		333	49	382	3,139	370	75	122	18	4	382	601	4,583
Nov	132	315		315	51	366	3,179	366	99	123	15	4	386	627	4,670
Dec	131	327		327	19	346	3,104	355	89	142	20	4	397	652	4,588
YTD	1,868	4,109		4,109	643	4,752	35,935	4,083	1,273	1,422	188	47	4,525	7,455	54,093

Table 1.1-2M (Cont.)
Primary Commercial Energy Production (KTOE)

Month	Hydro	Lignite					NG	Condensate	Crude Oil						Grand Total
		EGAT			Non EGAT	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total	
		Mae-Moh	Krabi	Total											
2013															
Jan	132	374		374	17	391	3,020	373	88	140	18	4	405	654	4,570
Feb	132	331		331	30	361	2,845	339	83	131	13	4	370	601	4,278
Mar	122	311		311	21	332	3,188	360	95	147	15	4	410	671	4,673
Apr	120	290		290	16	306	3,030	343	92	147	13	4	393	649	4,448
May	127	382		382	66	448	3,243	376	62	141	11	4	439	657	4,851
Jun	96	444		444	47	491	2,985	335	88	137	9	4	390	628	4,535
Jul	72	431		431	54	485	3,178	373	86	137	9	4	349	585	4,693
Aug	79	301		301	42	343	3,006	328	82	139	11	4	388	624	4,380
Sep	80	327		327	53	380	2,839	309	66	134	10	4	374	587	4,195
Oct	81	352		352	50	402	3,062	343	98	140	13	4	384	639	4,527
Nov	65	292		292	27	319	2,976	339	95	128	9	3	337	572	4,271
Dec	93	393		393	29	422	2,897	324	97	123	7	3	370	600	4,336
YTD	1,199	4,229		4,229	453	4,682	36,268	4,141	1,031	1,641	137	48	4,603	7,460	53,750
2014															
Jan	127	305		305	24	329	3,201	347	92	125	6	15	319	558	4,562
Feb	129	321		321	29	350	2,919	328	101	115	6	3	309	533	4,259
Mar	129	344		344	33	377	3,264	362	116	98	6	3	370	593	4,725
Apr	121	355		355	26	381	2,918	304	109	116	4	3	369	600	4,324
May	111	370		370	25	395	3,162	394	107	127	7	3	355	599	4,661
Jun	125	416		416	36	452	2,937	380	90	117	7	3	349	566	4,460
Jul	108	360		360	39	399	2,969	378	93	120	5	3	329	550	4,404
Aug	67	353		353	31	384	2,988	365	94	112	6	3	369	584	4,388
Sep	49	426		426	25	451	2,860	355	84	118	9	3	358	572	4,287
Oct	56	308		308	29	337	3,194	376	69	122	7	3	345	546	4,509
Nov	62	323		323	46	369	3,086	349	80	113	9	3	399	604	4,470
Dec	59	366		366	26	392	3,028	347	95	115	9	3	402	624	4,450
YTD	1,144	4,245		4,245	367	4,612	36,526	4,285	1,131	1,395	82	48	4,269	6,925	53,492

Table 1.1- 3M
Primary Commercial Energy Import (Net) (Physical Unit)

Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)							Electricity (GWh)	NG & LNG (MMscf)		
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	Total
2010														
Jan	1,260,121	3,635	232	-86	-198	-98	-230	200	-8	-420	166	23,739		23,739
Feb	1,339,828	3,706	105	-79	-261	-59	-273	202	-66	-536	145	27,418		27,418
Mar	1,267,862	3,448	413	-71	-301	-103	-278	229	113	-410	572	20,953		20,953
Apr	1,925,201	4,400	105	-134	-360	-152	-292	228	29	-680	745	27,119		27,119
May	1,419,128	3,488	105	-158	-413	-69	-273	324	65	-524	794	28,961		28,961
Jun	1,361,404	4,046		-152	-487	-213	-268	241	76	-803	791	26,110		26,110
Jul	1,133,692	3,627	110	-149	-544	-133	-246	165	-20	-928	803	27,982		27,982
Aug	1,040,141	3,903	215	-109	-618	-312	-171	247	36	-927	772	26,361		26,361
Sep	1,612,568	3,570	46	-135	-731	-154	-282	247	52	-1,003	782	27,674		27,674
Oct	1,600,902	3,583	259	-70	-581	-286	-246	270	159	-753	797	26,285		26,285
Nov	1,327,558	3,926	89	-73	-474	-145	-315	263	-184	-928	487	23,715		23,715
Dec	1,615,799	4,293	215	-125	-477	-105	-260	288	11	-667	424	25,515		25,515
YTD	16,904,205	45,627	1,894	-1,342	-5,444	-1,827	-3,133	2,905	263	-8,578	7,277	311,830		311,830
2011														
Jan	1,535,900	3,649	204	-57	-306	-87	-341	210	66	-515	414	19,290		19,290
Feb	1,628,442	3,057	105	-42	-166	4	-176	209	277	106	640	22,174		22,174
Mar	1,414,313	3,749	156	-60	-260	-23	-242	165	134	-285	793	25,993		25,993
Apr	1,500,031	3,899	184	-55	-350	-127	-314	135	49	-662	1,022	26,041		26,041
May	1,473,014	4,289	176	-146	-408	-105	-341	212	134	-654	1,077	29,530	2,905	32,434
Jun	1,477,621	3,461	162	-103	-282	-114	-256	318	-40	-477	1,073	28,604	7,263	35,867
Jul	1,197,479	4,007	180	-84	-640	-126	-198	269	-19	-797	1,316	29,943	6,594	36,536
Aug	988,884	4,287	206	-167	-722	-169	-251	292	-60	-1,078	796	28,925	9,220	38,145
Sep	1,828,474	3,479	299	-67	-615	-146	-306	312	13	-808	1,129	28,933	3,584	32,518
Oct	1,025,569	3,339	133	-44	-321	-18	-169	257	-60	-356	1,173	22,756	3,018	25,775
Nov	1,242,255	3,499	209	-27	-240	-127	-236	162	106	-362	910	21,966	3,134	25,100
Dec	1,019,123	3,488	69	-82	-340	-260	-320	251	-109	-860	466	19,247		19,247
YTD	16,331,105	44,204	2,083	-935	-4,649	-1,297	-3,151	2,792	491	-6,749	10,810	303,402	35,719	339,121
2012														
Jan	1,098,521	4,135	212	-69	-417	-72	-355	207	-38	-744	486	18,382	3,566	21,948
Feb	1,586,875	4,192	23	-97	-466	-70	-291	294	81	-550	801	23,249	3,367	26,616
Mar	1,476,171	4,606	58	-139	-378	-25	-412	308	-7	-654	1,167	28,527	6,166	34,693
Apr	1,884,858	4,056	106	-180	-459	-23	-236	340	38	-519	1,139	17,137		17,137
May	1,502,830	3,908	328	-152	-405	-77	-214	213	-92	-729	1,078	25,767	3,554	29,320
Jun	1,160,143	3,971	180	-143	-536	-98	-267	244	-258	-1,059	939	28,202	6,674	34,876
Jul	1,466,067	3,722	163	-50	-400	-132	-159	196	-52	-596	949	26,421	5,856	32,277
Aug	1,956,484	3,763	165	-54	-361	-52	-309	332	138	-305	1,116	27,044	3,093	30,138
Sep	1,635,712	3,500	159	-94	-489	-63	-312	333	-199	-825	1,146	23,322	4,435	27,758
Oct	2,315,324	4,212	81	-149	-531	-57	-169	256	-95	-745	800	28,907	3,336	32,244
Nov	1,330,740	3,494	280	-93	-527	-40	-410	253	-32	-850	520	27,660	2,951	30,611
Dec	990,645	4,108	117	-44	-386	-72	-357	212	-80	-727	414	26,003	4,454	30,458
YTD	18,404,370	47,668	1,873	-1,265	-5,356	-781	-3,492	3,186	-595	-8,303	10,555	300,622	47,452	348,075

Table 1.1- 3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit) (Cont.)

Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)							Electricity (GWh)	NG & LNG (MMscf)		
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	Total
2013														
Jan	1,519,927	4,345	74	-72	-295	-58	-299	170	94	-460	364	25,108	4,445	29,553
Feb	1,105,768	3,772	105	-108	-277	-96	-304	334	-39	-490	558	20,259	4,430	24,689
Mar	602,370	4,336	168	-171	-433	-76	-241	251	57	-613	822	27,940	9,095	37,035
Apr	976,399	4,235	138	-110	-271	-121	-282	250	-72	-606	1,144	17,820	9,006	26,826
May	1,792,684	3,845	89	-38	-126	-78	-335	375	-18	-220	1,312	26,787	3,154	29,941
Jun	2,173,714	3,780	74	-59	-192	-39	-189	338	39	-102	1,270	24,687	8,962	33,649
Jul	1,609,902	3,687	139	-119	-272	-162	-450	253	111	-639	1,301	25,312	10,240	35,552
Aug	1,797,770	4,644	102	-142	-680	-162	-216	334	-9	-875	1,519	26,564	2,851	29,415
Sep	1,249,771	3,650	65	-189	-539	-164	-314	341	75	-790	1,601	26,775	2,925	29,700
Oct	1,596,963	4,157	289	-72	-523	-230	-297	360	204	-558	1,342	28,083	7,263	35,346
Nov	1,277,428	4,436		-120	-583	-169	-245	327	-273	-1,063	1,045	27,563	2,878	30,441
Dec	1,625,421	4,041	273	-171	-487	-185	-334	307	-161	-1,031	322	23,478	4,548	28,025
YTD	17,328,117	48,931	1,516	-1,372	-4,678	-1,540	-3,506	3,640	8	-7,448	12,601	300,375	69,798	370,172
2014														
Jan	1,362,074	4,334	126	-97	-387	-76	-177	335	98	-304	592	12,406	4,479	16,886
Feb	1,627,481	3,910	101	-1	-144	-11	-234	323	21	-46	854	18,398	4,634	23,032
Mar	1,981,740	3,578	179	61	-162	-43	-254	248	9	-142	1,307	24,498	4,484	28,983
Apr	1,615,230	3,657	184	-72	-243	-21	-281	325	158	-133	1,227	23,634	9,267	32,901
May	2,025,265	4,049	159	-14	-143	-116	-277	336	145	-69	1,206	25,532	8,982	34,514
Jun	2,115,250	3,223	61	23	-211	-80	-222	335	-101	-256	1,087	23,669	8,816	32,485
Jul	2,081,228	3,147	113	-4	-219	-35	-372	338	334	42	1,179	22,991	6,144	29,135
Aug	1,369,249	3,993	83	-70	-598	-136	-314	297	235	-586	1,272	31,513	7,453	38,966
Sep	1,840,496	4,434	98	-68	-556	-230	-306	338	146	-676	1,334	33,011	3,112	36,123
Oct	1,862,685	4,017	49	-50	-439	-176	-374	374	122	-543	1,019	31,643	4,563	36,206
Nov	1,227,338	4,309		-53	-384	-182	-265	243	148	-493	718	31,912	4,469	36,381
Dec	1,772,798	3,672		-111	-484	-217	-389	379	-52	-873	494	28,837		28,837
YTD	20,880,835	46,322	1,153	-455	-3,969	-1,322	-3,465	3,869	1,264	-4,079	12,289	308,045	66,404	374,449

Remarks : LPG includes Propane and Buthane

Table 1.1-4M
Primary Commercial Energy Import (Net) (KTOE)

Unit : KTOE

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG			Grand Total
				Gasoline	Diesel	JP.&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	Total	
2010															
Jan	787	3,126		-64	-170	-80	-217	126	-6	-411	14	583		583	4,099
Feb	836	3,187		-59	-225	-48	-257	128	-49	-510	12	674		674	4,199
Mar	791	2,965		-53	-259	-84	-262	144	84	-430	49	515		515	3,890
Apr	1,202	3,784		-100	-310	-124	-275	144	22	-643	63	666		666	5,072
May	886	3,000		-118	-356	-56	-257	204	48	-535	68	712		712	4,131
Jun	850	3,480		-113	-420	-174	-252	152	57	-750	67	642		642	4,289
Jul	708	3,119		-111	-469	-109	-232	104	-15	-832	68	688		688	3,751
Aug	649	3,357		-81	-533	-255	-161	156	27	-847	66	648		648	3,873
Sep	1,007	3,070		-101	-630	-126	-265	155	39	-928	67	680		680	3,896
Oct	999	3,082		-52	-501	-234	-231	170	118	-730	68	646		646	4,065
Nov	829	3,376		-54	-409	-118	-297	166	-137	-849	42	583		583	3,981
Dec	1,009	3,692		-93	-411	-86	-244	182	8	-644	36	627		627	4,720
YTD	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,830	196	-8,110	620	7,662		7,662	49,962
2011															
Jan	959	3,138		-42	-264	-71	-321	132	52	-514	35	474		474	4,092
Feb	1,016	2,629		-31	-143	4	-166	132	209	5	55	545		545	4,250
Mar	883	3,224		-45	-224	-18	-228	104	100	-311	68	639		639	4,503
Apr	936	3,353		-41	-302	-104	-296	85	39	-619	87	640		640	4,397
May	919	3,689		-109	-352	-86	-321	133	102	-633	92	726	71	797	4,864
Jun	922	2,976		-77	-243	-93	-241	200	-30	-484	91	703	178	881	4,386
Jul	747	3,446		-62	-552	-103	-186	170	-11	-744	112	736	162	898	4,459
Aug	617	3,687		-125	-622	-138	-237	184	-45	-983	68	711	227	938	4,327
Sep	1,141	2,992		-50	-530	-119	-288	197	13	-777	96	711	88	799	4,251
Oct	640	2,871		-33	-277	-15	-160	162	-32	-355	100	559	74	633	3,889
Nov	775	3,010		-20	-207	-104	-222	102	84	-367	78	540	77	617	4,113
Dec	636	3,000		-61	-293	-212	-301	158	-61	-770	40	473		473	3,379
YTD	10,194	38,015		-696	-4,008	-1,060	-2,966	1,759	421	-6,550	921	7,455	878	8,333	50,913
2012															
Jan	686	3,556		-51	-360	-59	-334	130	-28	-702	41	452	88	540	4,121
Feb	991	3,605		-72	-402	-57	-274	185	78	-542	68	571	83	654	4,776
Mar	921	3,962		-104	-326	-21	-388	194	-1	-646	99	701	152	853	5,189
Apr	1,177	3,488		-134	-395	-18	-222	214	41	-514	97	421		421	4,669
May	938	3,361		-113	-349	-63	-202	134	-63	-656	92	633	87	720	4,455
Jun	724	3,415		-107	-462	-80	-251	154	-172	-918	80	693	164	857	4,158
Jul	915	3,201		-37	-345	-108	-149	123	-39	-555	81	649	144	793	4,435
Aug	1,221	3,236		-40	-311	-43	-291	209	128	-348	95	664	76	740	4,944
Sep	1,021	3,010		-70	-422	-52	-294	210	-124	-752	98	573	109	682	4,059
Oct	1,445	3,622		-111	-458	-47	-159	161	-45	-659	68	710	82	792	5,268
Nov	831	3,005		-69	-454	-33	-386	159	-4	-787	44	680	73	753	3,846
Dec	618	3,533		-33	-333	-59	-336	133	-59	-687	35	639	109	748	4,247
YTD	11,488	40,995		-942	-4,617	-639	-3,287	2,007	-288	-7,766	899	7,386	1,166	8,552	54,168

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net) (KTOE)

Unit : KTOE

Month	Coal	Crude Oil	Condensate	Petroleum Products							Electricity	NG & LNG			Grand Total
				Gasoline	Diesel	JP.&KERO.	Fuel Oil	LPG	Others	Total		NG	LNG	Total	
2013															
Jan	949	3,737		-54	-254	-47	-281	107	89	-440	31	617	109	726	5,003
Feb	690	3,244		-81	-239	-78	-286	211	-16	-489	48	498	109	607	4,100
Mar	376	3,729		-127	-373	-62	-227	158	58	-573	70	686	223	909	4,511
Apr	609	3,642		-82	-234	-99	-266	158	-41	-564	97	438	221	659	4,443
May	1,119	3,307		-29	-108	-64	-315	236	28	-252	112	658	77	735	5,021
Jun	1,357	3,251		-44	-166	-32	-178	213	67	-140	108	607	220	827	5,403
Jul	1,005	3,171		-89	-235	-133	-423	159	98	-623	111	622	252	874	4,538
Aug	1,122	3,994		-106	-586	-132	-203	210	29	-788	129	653	70	723	5,180
Sep	780	3,139		-141	-465	-134	-296	215	64	-757	136	658	72	730	4,028
Oct	997	3,575		-53	-450	-188	-280	227	165	-579	114	690	178	868	4,975
Nov	797	3,815		-90	-503	-138	-230	206	-208	-963	89	677	71	748	4,486
Dec	1,015	3,475		-128	-420	-151	-315	193	-92	-913	27	577	112	689	4,293
YTD	10,816	42,080		-1,022	-4,032	-1,258	-3,300	2,294	241	-7,077	1,074	7,380	1,715	9,095	55,988
2014															
Jan	850	3,727		-72	-334	-62	-167	211	62	-362	50	305	110	415	4,680
Feb	1,016	3,363		-1	-124	-9	-220	204	58	-92	73	452	114	566	4,926
Mar	1,237	3,077		45	-139	-35	-239	156	61	-151	111	602	110	712	4,986
Apr	1,008	3,145		-54	-209	-17	-264	205	123	-216	105	581	228	809	4,851
May	1,264	3,482		-10	-123	-94	-261	212	126	-150	103	627	221	848	5,547
Jun	1,320	2,772		17	-182	-65	-209	211	-58	-286	93	582	217	799	4,698
Jul	1,299	2,707		-3	-188	-28	-351	213	271	-86	100	565	151	716	4,736
Aug	855	3,434		-52	-515	-112	-295	187	152	-635	108	774	183	957	4,719
Sep	1,149	3,813		-50	-480	-188	-288	213	112	-681	114	811	76	887	5,282
Oct	1,163	3,455		-37	-379	-144	-352	236	64	-612	87	777	112	889	4,982
Nov	766	3,706		-39	-331	-149	-250	153	86	-530	61	784	110	894	4,897
Dec	1,107	3,158		-83	-417	-177	-366	239	-66	-870	42	709		709	4,146
YTD	13,034	39,837		-339	-3,421	-1,081	-3,261	2,438	995	-4,669	1,047	7,569	1,632	9,201	58,450

Remark : LPG includes Propane and Butane

Table 1.1-5M
Primary Commercial Energy Consumption (Physical Unit)

Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMscf)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT Mae-Moh	Others	Total			
2010							
Jan	784	1,363,194	171,521	1,534,715	122,618	3,448	1,315,121
Feb	783	1,161,660	144,184	1,305,844	118,865	3,351	1,235,730
Mar	1,341	1,370,186	189,422	1,559,608	133,582	3,681	1,555,802
Apr	1,258	1,427,231	161,905	1,589,136	128,392	3,360	1,516,103
May	1,314	1,482,298	165,206	1,647,504	136,136	3,370	1,509,430
Jun	1,206	1,257,482	188,479	1,445,961	136,412	3,297	1,492,723
Jul	1,138	1,278,053	155,133	1,433,186	134,297	3,421	1,451,511
Aug	1,112	1,370,701	134,749	1,505,450	136,728	3,319	1,450,044
Sep	1,028	1,219,748	132,236	1,351,984	135,757	3,220	1,454,902
Oct	967	1,340,644	61,942	1,402,586	139,992	3,295	1,463,079
Nov	816	1,357,249	290,589	1,647,838	132,302	3,473	1,322,788
Dec	875	1,375,750	222,319	1,598,069	135,951	3,640	1,136,970
YTD	12,624	16,004,196	2,017,685	18,021,881	1,591,032	40,874	16,904,203
2011							
Jan	991	1,491,892	277,871	1,769,763	133,282	3,597	1,384,942
Feb	1,291	1,350,179	307,575	1,657,754	127,414	3,352	1,260,899
Mar	1,377	1,524,371	289,908	1,814,279	146,380	3,705	1,454,710
Apr	1,493	1,453,644	278,587	1,732,231	136,122	3,553	1,385,672
May	1,451	1,552,462	253,227	1,805,689	149,737	3,562	1,422,440
Jun	1,467	1,490,675	260,229	1,750,904	145,311	3,532	1,360,711
Jul	1,709	1,537,595	120,233	1,657,828	136,246	3,545	1,497,170
Aug	1,698	1,393,272	308,030	1,701,302	143,504	3,540	1,422,393
Sep	2,128	1,344,072	283,836	1,627,908	137,694	3,433	1,392,038
Oct	2,311	1,391,102	287,435	1,678,537	127,393	3,363	1,347,183
Nov	1,542	1,277,770	66,034	1,343,804	128,402	3,300	1,262,477
Dec	1,288	1,354,134	124,024	1,478,158	132,681	3,805	1,140,470
YTD	18,745	17,161,168	2,856,989	20,018,157	1,644,165	42,287	16,331,105
2012							
Jan	1,624	1,422,026	86,026	1,508,052	142,571	3,737	1,377,152
Feb	2,053	1,305,278	54,232	1,359,510	130,795	3,633	1,300,236
Mar	2,241	1,396,404	86,462	1,482,866	153,866	3,872	1,488,056
Apr	1,988	1,423,127	74,782	1,497,909	133,025	3,696	1,659,593
May	1,824	1,487,165	65,895	1,553,060	151,560	3,905	1,632,311
Jun	1,420	1,464,663	60,762	1,525,425	151,852	3,663	1,456,871
Jul	1,389	1,329,878	249,397	1,579,275	164,529	3,645	1,459,848
Aug	1,565	1,518,295	212,345	1,730,640	155,268	3,663	1,540,894
Sep	1,547	1,325,208	172,756	1,497,964	150,029	3,453	1,622,458
Oct	1,211	1,305,321	189,694	1,495,015	159,983	3,693	1,736,470
Nov	1,118	1,440,217	174,743	1,614,960	159,959	3,781	1,550,234
Dec	1,007	1,336,699	184,502	1,521,201	156,774	3,966	1,580,254
YTD	18,986	16,754,281	1,611,596	18,365,877	1,810,211	44,708	18,404,375

Table 1.1-5M (Cont.)
Primary Commercial Energy Consumption (Physical Unit)

Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMscf)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT Mae-Moh	Others	Total			
2013							
Jan	962	1,478,443	155,102	1,633,545	152,442	3,965	1,363,919
Feb	1,153	1,300,431	175,545	1,475,976	140,443	3,669	1,213,462
Mar	1,372	1,292,567	208,176	1,500,743	166,730	4,072	1,386,971
Apr	1,687	1,435,925	152,900	1,588,825	150,126	3,884	1,481,746
May	1,886	1,575,563	114,615	1,690,178	161,885	3,974	1,546,770
Jun	1,702	1,461,197	149,511	1,610,708	155,095	3,659	1,352,098
Jul	1,624	1,392,047	155,528	1,547,575	164,847	3,797	1,570,894
Aug	1,875	1,494,943	138,287	1,633,230	151,708	3,782	1,556,111
Sep	1,961	1,295,697	116,776	1,412,473	145,218	3,511	1,549,298
Oct	1,710	1,442,740	135,472	1,578,212	159,920	3,732	1,426,902
Nov	1,341	1,318,530	139,703	1,458,233	151,546	3,832	1,447,501
Dec	742	1,396,864	134,544	1,531,408	145,897	4,002	1,432,430
YTD	**18,013**	**16,884,947**	**1,776,159**	**18,661,106**	**1,845,859**	**45,878**	**17,328,104**
2014							
Jan	1,167	1,477,917	119,081	1,596,998	147,161	4,051	1,500,514
Feb	1,437	1,220,854	158,408	1,379,262	141,820	3,676	1,477,003
Mar	1,891	1,437,243	117,800	1,555,043	161,792	4,046	1,605,270
Apr	1,771	1,519,146	173,309	1,692,455	151,619	3,885	1,723,263
May	1,707	1,583,533	112,674	1,696,207	163,157	3,961	1,943,556
Jun	1,653	1,490,812	138,153	1,628,965	152,000	3,648	1,768,919
Jul	1,668	1,424,008	92,196	1,516,204	149,928	3,765	1,922,174
Aug	1,573	1,341,676	73,717	1,415,393	160,513	3,745	1,767,493
Sep	1,554	1,301,584	108,311	1,409,895	152,486	3,631	1,849,305
Oct	1,271	1,420,889	93,558	1,514,447	166,168	3,781	1,788,482
Nov	1,000	1,347,429	103,890	1,451,319	161,932	3,812	1,697,064
Dec	760	1,455,334	66,092	1,521,426	152,028	4,154	1,837,807
YTD	**17,453**	**17,020,425**	**1,357,189**	**18,377,614**	**1,860,603**	**46,155**	**20,880,850**

Table 1.1-6M
Primary Commercial Energy Consumption (KTOE)

Unit : KTOE

Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
2010								
Jan	151	338	82	420	3,013	2,754	821	7,159
Feb	153	288	69	357	2,921	2,683	771	6,885
Mar	219	339	90	429	3,282	2,956	971	7,857
Apr	177	354	77	431	3,155	2,687	946	7,396
May	183	367	79	446	3,345	2,696	942	7,612
Jun	159	311	90	401	3,352	2,627	932	7,471
Jul	142	317	74	391	3,300	2,728	906	7,467
Aug	141	340	64	404	3,359	2,637	905	7,446
Sep	121	302	63	365	3,336	2,556	908	7,286
Oct	106	332	30	362	3,440	2,616	913	7,437
Nov	115	336	139	475	3,251	2,767	826	7,434
Dec	136	341	106	447	3,340	2,898	710	7,531
YTD	1,805	3,964	962	4,926	39,092	32,605	10,551	88,979
2011								
Jan	163	370	133	503	3,275	2,865	864	7,670
Feb	199	334	147	481	3,131	2,675	787	7,273
Mar	197	378	138	516	3,597	2,956	908	8,174
Apr	191	360	133	493	3,345	2,834	865	7,728
May	175	385	121	506	3,679	2,834	888	8,082
Jun	178	369	124	493	3,570	2,813	849	7,903
Jul	199	381	57	438	3,348	2,823	935	7,743
Aug	268	345	147	492	3,526	2,805	888	7,979
Sep	317	333	135	468	3,383	2,726	869	7,763
Oct	352	345	137	482	3,130	2,677	841	7,482
Nov	218	317	31	348	3,155	2,632	788	7,141
Dec	222	335	59	394	3,260	3,028	712	7,616
YTD	2,679	4,251	1,363	5,614	40,397	33,667	10,194	92,551
2012								
Jan	293	352	41	393	3,503	2,971	860	8,020
Feb	345	323	26	349	3,214	2,892	812	7,612
Mar	337	346	41	387	3,780	3,080	929	8,513
Apr	285	353	36	389	3,268	2,950	1,036	7,928
May	257	368	31	399	3,724	3,127	1,019	8,526
Jun	187	363	29	392	3,731	2,914	909	8,133
Jul	179	329	119	448	4,042	2,891	911	8,471
Aug	194	376	101	477	3,815	2,900	962	8,348
Sep	187	328	82	410	3,686	2,730	1,013	8,026
Oct	159	323	90	413	3,931	2,925	1,084	8,512
Nov	176	357	83	440	3,930	3,001	968	8,515
Dec	166	331	88	419	3,852	3,146	986	8,569
YTD	2,767	4,150	769	4,919	44,477	35,528	11,488	99,179

Table 1.1-6M (Cont.)
Primary Commercial Energy Consumption (KTOE)

Unit : KTOE

Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
2013								
Jan	163	366	74	440	3,746	3,153	851	8,353
Feb	180	322	84	406	3,451	2,920	757	7,714
Mar	192	320	99	419	4,097	3,244	866	8,818
Apr	217	356	73	429	3,689	3,099	925	8,359
May	239	390	55	445	3,978	3,159	965	8,786
Jun	204	362	71	433	3,811	2,897	844	8,189
Jul	183	345	74	419	4,050	3,009	981	8,642
Aug	208	370	66	436	3,727	2,988	971	8,330
Sep	216	321	56	377	3,568	2,775	967	7,903
Oct	195	357	65	422	3,929	2,954	891	8,391
Nov	154	327	67	394	3,723	3,041	904	8,216
Dec	120	346	64	410	3,585	3,180	894	8,189
YTD	2,273	4,182	847	5,029	45,353	36,419	10,816	99,890
2014								
Jan	177	366	57	423	3,616	3,227	937	8,380
Feb	202	302	76	378	3,485	2,924	922	7,911
Mar	240	356	56	412	3,975	3,220	1,002	8,849
Apr	226	376	83	459	3,725	3,092	1,076	8,578
May	214	392	54	446	4,009	3,150	1,213	9,032
Jun	218	369	66	435	3,735	2,899	1,104	8,391
Jul	208	353	44	397	3,684	2,981	1,200	8,470
Aug	175	332	35	367	3,944	2,958	1,103	8,547
Sep	163	322	52	374	3,747	2,869	1,154	8,307
Oct	143	352	45	397	4,083	2,991	1,116	8,730
Nov	123	334	50	384	3,979	3,022	1,059	8,567
Dec	101	360	32	392	3,735	3,302	1,147	8,677
YTD	2,191	4,216	647	4,863	45,715	36,636	13,034	102,439

Table 1.2-1M
Final Modern Energy Consumption (Physical Unit)

Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)								Electricity* (GWh)	NG in Industry (MMscf)
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
2010													
Jan	780	172	952	625	256	350	434	2	1,566	211	3,443	11,719	18,389
Feb	770	144	914	589	240	352	398	1	1,547	222	3,349	11,737	18,598
Mar	1,000	189	1,189	639	244	376	436	1	1,688	255	3,640	13,257	19,329
Apr	1,010	162	1,171	598	240	367	383	1	1,548	216	3,354	12,909	18,583
May	1,007	165	1,172	613	233	366	342	2	1,588	213	3,357	13,911	18,965
Jun	1,020	188	1,208	621	240	377	341	1	1,508	201	3,290	13,377	19,757
Jul	1,019	155	1,174	645	248	388	365	1	1,516	214	3,377	13,497	19,690
Aug	959	135	1,094	650	242	377	397	1	1,432	206	3,305	13,036	19,488
Sep	1,017	132	1,150	635	234	374	369	1	1,405	192	3,209	12,967	19,878
Oct	987	62	1,049	647	237	379	399	1	1,436	193	3,292	13,099	19,946
Nov	908	291	1,198	648	241	391	406	1	1,583	202	3,472	12,192	20,317
Dec	813	222	1,035	676	252	413	441	1	1,666	183	3,633	12,186	21,638
YTD	11,289	2,018	13,307	7,587	2,908	4,509	4,712	15	18,483	2,506	40,720	153,884	234,578
2011													
Jan	837	278	1,115	670	236	395	481	1	1,625	181	3,589	11,893	21,135
Feb	816	308	1,124	613	221	375	435	1	1,493	205	3,344	11,863	20,343
Mar	916	290	1,206	697	227	389	477	1	1,706	209	3,705	13,221	24,821
Apr	856	279	1,134	660	228	390	426	1	1,658	164	3,527	12,335	23,152
May	868	253	1,121	696	223	388	388	1	1,687	155	3,538	13,665	25,347
Jun	874	260	1,134	689	223	399	383	1	1,605	175	3,475	13,589	25,617
Jul	921	120	1,041	714	223	390	410	1	1,519	217	3,474	13,628	25,946
Aug	893	308	1,201	737	213	420	417	1	1,537	182	3,507	13,646	26,498
Sep	857	284	1,140	704	154	448	397	1	1,501	164	3,368	13,568	26,722
Oct	778	287	1,065	663	135	441	409	1	1,500	198	3,346	12,624	25,282
Nov	794	66	860	607	130	425	411	1	1,574	141	3,289	11,667	23,608
Dec	786	124	910	728	181	477	445	1	1,790	176	3,798	11,631	26,690
YTD	10,196	2,857	13,053	8,178	2,394	4,937	5,077	13	19,195	2,167	41,961	153,332	295,160
2012													
Jan	766	86	852	730	180	454	489	1	1,695	185	3,733	12,265	27,164
Feb	810	54	864	699	174	432	458	1	1,698	154	3,616	12,924	26,686
Mar	839	86	926	754	183	457	472	1	1,830	169	3,867	14,332	28,312
Apr	881	75	956	713	182	433	405	1	1,724	144	3,601	13,482	29,700
May	945	66	1,011	753	186	446	382	1	1,805	236	3,809	14,702	29,154
Jun	887	61	948	731	189	446	377	1	1,700	190	3,634	13,916	28,204
Jul	917	249	1,167	755	195	440	396	1	1,648	193	3,627	14,132	29,041
Aug	909	212	1,121	769	206	440	407	1	1,656	156	3,634	13,794	29,403
Sep	889	173	1,062	738	197	412	385	1	1,550	157	3,439	13,537	29,012
Oct	951	190	1,141	769	211	444	413	1	1,665	169	3,671	13,875	29,598
Nov	932	175	1,107	747	221	449	437	1	1,753	163	3,772	13,967	29,144
Dec	899	185	1,084	772	253	478	471	1	1,836	155	3,965	13,351	28,250
YTD	10,625	1,612	12,237	8,930	2,376	5,329	5,091	13	20,559	2,070	44,369	164,276	343,669

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)								Electricity* (GWh)	NG in Industry (MMscf)
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
2013													
Jan	648	155	803	760	344	342	494	1	1,845	147	3,933	13,157	29,302
Feb	611	176	787	706	365	257	466	1	1,688	161	3,643	12,851	27,029
Mar	643	208	851	764	415	288	498	1	1,906	183	4,055	14,715	29,526
Apr	742	153	895	723	409	278	445	1	1,769	189	3,815	14,060	27,939
May	838	115	953	759	420	286	447	1	1,886	149	3,947	15,176	29,172
Jun	843	150	992	748	398	275	408	1	1,667	129	3,625	14,320	28,721
Jul	870	156	1,026	765	409	289	442	1	1,706	151	3,763	14,160	30,900
Aug	863	138	1,001	789	417	297	459	1	1,625	161	3,749	14,200	30,225
Sep	846	117	962	732	370	269	440	1	1,527	148	3,487	13,950	29,910
Oct	902	135	1,038	759	398	285	459	1	1,661	139	3,703	14,113	30,545
Nov	857	140	997	746	396	286	494	1	1,740	138	3,802	13,619	29,181
Dec	870	135	1,005	774	409	294	511	1	1,826	163	3,978	12,193	30,036
YTD	9,533	1,776	11,309	9,027	4,749	3,446	5,562	11	20,847	1,858	45,500	166,515	352,486
2014													
Jan	827	119	946	779	389	287	531	1	1,836	188	4,011	12,179	29,982
Feb	843	158	1,002	703	360	266	481	1	1,698	134	3,643	12,367	28,204
Mar	857	118	975	761	408	298	514	1	1,875	149	4,006	14,945	29,337
Apr	975	173	1,148	726	406	293	468	1	1,815	123	3,831	14,276	28,654
May	1,155	113	1,268	758	412	298	423	1	1,892	150	3,934	15,660	29,801
Jun	1,000	138	1,138	706	389	285	386	1	1,697	143	3,606	14,887	29,311
Jul	1,124	92	1,216	754	419	304	414	1	1,703	116	3,711	14,864	31,035
Aug	1,049	74	1,123	765	426	310	436	1	1,649	135	3,723	14,876	31,738
Sep	1,154	108	1,262	744	408	299	407	1	1,610	140	3,610	14,539	31,535
Oct	1,188	94	1,281	760	421	308	449	1	1,669	148	3,756	14,710	31,667
Nov	1,019	104	1,123	733	412	306	489	1	1,715	134	3,791	14,434	30,012
Dec	1,191	66	1,257	759	461	340	515	1	1,905	152	4,133	13,464	30,108
YTD	12,381	1,357	13,739	8,948	4,911	3,595	5,513	11	21,063	1,714	45,754	171,201	361,383

* Including Power Generation from SPP
** Preliminary data
*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.2-2M
Final Modern Energy Consumption (KTOE)

Unit : KTOE

Month	Solid Fossil Fuel			Petroleum Products								Electricity*	Natural Gas	Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total			
2010														
Jan	487	82	569	394	191	260	354	1	1,350	198	2,748	999	452	4,768
Feb	481	69	550	371	179	262	325	1	1,333	209	2,680	1,000	457	4,687
Mar	624	90	714	403	182	280	356	1	1,455	240	2,917	1,130	475	5,236
Apr	630	77	707	377	179	274	313	1	1,334	203	2,681	1,100	457	4,945
May	628	79	707	386	174	272	280	2	1,369	200	2,683	1,185	466	5,041
Jun	637	90	727	392	179	281	278	1	1,300	190	2,621	1,140	485	4,973
Jul	636	74	710	407	185	289	298	1	1,306	201	2,687	1,150	484	5,031
Aug	599	64	663	410	180	281	324	1	1,234	194	2,624	1,111	479	4,877
Sep	635	63	698	400	174	278	302	1	1,211	180	2,546	1,105	488	4,837
Oct	616	30	646	408	177	282	326	1	1,238	182	2,614	1,116	490	4,866
Nov	567	139	706	408	179	291	332	1	1,364	190	2,765	1,039	499	5,009
Dec	507	106	613	426	188	307	361	1	1,436	172	2,891	1,038	532	5,074
YTD	7,047	962	8,009	4,781	2,166	3,360	3,851	12	15,932	2,359	32,461	13,112	5,764	59,346
2011														
Jan	522	133	655	422	176	295	393	1	1,401	170	2,858	1,013	519	5,045
Feb	510	147	657	386	164	280	356	1	1,287	193	2,667	1,011	500	4,835
Mar	572	138	710	439	169	289	390	1	1,471	196	2,955	1,127	610	5,402
Apr	534	133	667	416	170	291	348	1	1,429	155	2,810	1,051	569	5,097
May	542	121	663	438	166	289	317	1	1,454	146	2,811	1,164	623	5,261
Jun	546	124	670	434	167	298	313	1	1,383	165	2,761	1,158	629	5,218
Jul	575	57	632	450	166	291	335	1	1,309	204	2,756	1,161	637	5,186
Aug	558	147	705	464	159	313	340	1	1,325	172	2,774	1,163	651	5,293
Sep	535	135	670	443	114	334	324	1	1,294	154	2,664	1,156	657	5,147
Oct	485	137	622	418	100	328	334	1	1,293	187	2,661	1,076	621	4,980
Nov	496	31	527	383	97	317	336	1	1,356	133	2,623	994	580	4,724
Dec	491	59	550	459	135	355	364	1	1,543	165	3,022	991	656	5,219
YTD	6,364	1,363	7,727	5,153	1,784	3,678	4,150	11	16,545	2,040	33,361	13,065	7,252	61,405
2012														
Jan	478	41	519	460	134	338	400	1	1,461	174	2,968	1,045	667	5,199
Feb	506	26	532	440	130	322	374	1	1,464	145	2,876	1,101	656	5,165
Mar	524	41	565	475	136	340	386	1	1,577	159	3,074	1,221	696	5,556
Apr	550	36	586	450	136	322	331	1	1,486	135	2,861	1,149	730	5,326
May	590	31	621	474	139	333	312	1	1,556	222	3,037	1,253	716	5,627
Jun	554	29	583	461	141	332	308	1	1,466	179	2,888	1,186	693	5,350
Jul	573	119	692	475	145	328	323	1	1,420	182	2,874	1,204	714	5,484
Aug	567	101	668	484	153	328	332	1	1,427	147	2,872	1,175	722	5,437
Sep	555	82	637	465	147	307	315	1	1,336	148	2,719	1,154	713	5,223
Oct	594	90	684	485	157	330	337	1	1,435	159	2,904	1,182	727	5,497
Nov	582	83	665	471	165	334	357	1	1,511	154	2,993	1,190	716	5,564
Dec	561	88	649	487	188	356	385	1	1,582	145	3,144	1,138	694	5,625
YTD	6,632	769	7,401	5,627	1,770	3,970	4,162	11	17,722	1,948	35,210	13,998	8,444	65,053

Table 1.2-2M (Cont.)
Final Modern Energy Consumption (KTOE)

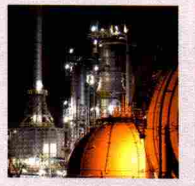
Unit : KTOE

Month	Solid Fossil Fuel			Petroleum Products								Electricity*	Natural Gas	Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total			
2013														
Jan	404	74	478	479	256	255	404	1	1,590	139	3,124	1,121	720	5,443
Feb	382	84	466	445	272	191	381	1	1,455	151	2,896	1,095	664	5,121
Mar	401	99	500	481	309	215	407	1	1,643	172	3,228	1,254	725	5,707
Apr	463	73	536	456	305	207	364	1	1,525	178	3,036	1,198	686	5,456
May	523	55	578	479	313	213	365	1	1,625	140	3,136	1,293	717	5,724
Jun	526	71	597	471	296	205	333	1	1,437	122	2,865	1,220	706	5,388
Jul	543	74	617	482	305	215	361	1	1,471	142	2,977	1,207	759	5,560
Aug	539	66	605	497	311	221	375	1	1,401	151	2,957	1,210	743	5,515
Sep	528	56	584	461	275	200	360	1	1,316	140	2,753	1,189	735	5,261
Oct	563	65	628	478	297	213	376	1	1,432	131	2,928	1,203	750	5,509
Nov	535	67	602	470	295	213	404	1	1,500	130	3,013	1,160	717	5,492
Dec	543	64	607	488	305	219	418	1	1,574	153	3,158	1,039	738	5,542
YTD	5,950	847	6,797	5,688	3,538	2,567	4,547	9	17,970	1,749	36,068	14,189	8,661	65,715
2014														
Jan	516	57	573	491	290	214	434	1	1,583	177	3,190	1,038	737	5,538
Feb	526	76	602	443	269	198	393	1	1,464	126	2,894	1,054	693	5,243
Mar	535	56	591	480	304	222	420	1	1,616	140	3,183	1,273	721	5,768
Apr	609	83	692	457	302	218	383	1	1,564	116	3,041	1,216	704	5,653
May	721	54	775	478	307	222	346	1	1,631	141	3,126	1,334	732	5,967
Jun	624	66	690	445	290	212	315	1	1,463	134	2,860	1,269	720	5,539
Jul	701	44	745	475	312	227	339	1	1,468	110	2,932	1,267	763	5,707
Aug	655	35	690	482	317	231	357	1	1,422	127	2,937	1,268	780	5,675
Sep	720	52	772	469	304	223	333	1	1,388	132	2,850	1,239	775	5,636
Oct	741	45	786	479	313	230	367	1	1,438	140	2,968	1,253	778	5,785
Nov	636	50	686	462	307	228	399	1	1,478	126	3,001	1,230	737	5,654
Dec	744	32	776	478	343	253	421	1	1,642	143	3,281	1,147	740	5,944
YTD	7,728	647	8,375	5,638	3,659	2,678	4,506	9	18,156	1,613	36,259	14,588	8,879	68,101

* Including Power Generation from SPP
** Preliminary data
*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

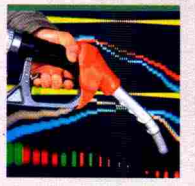








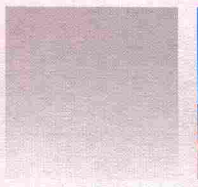
















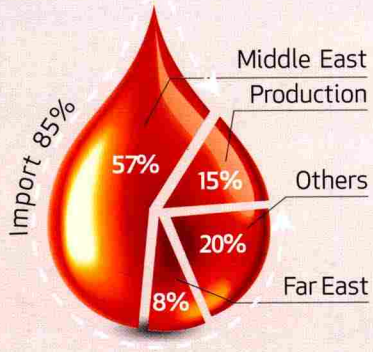


Chapter 2
Oil

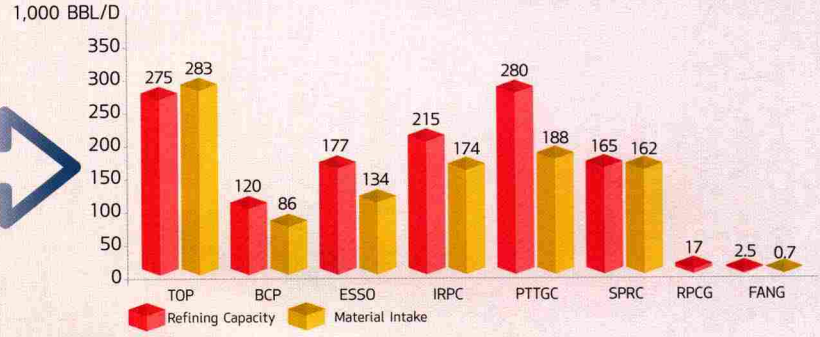


Oil

Crude Oil Supply in 2014

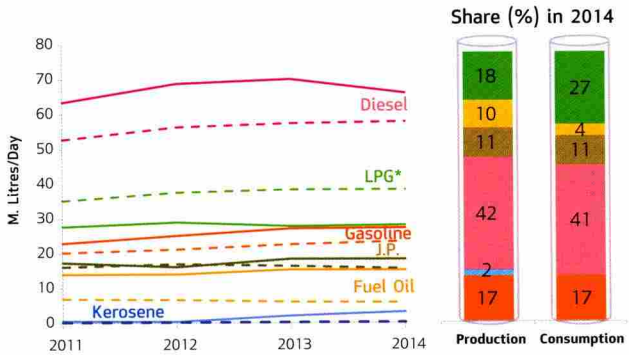


Refinery Utilization Ratio in 2014



Trend of Petroleum Product in 2011-2014

Production and Consumption



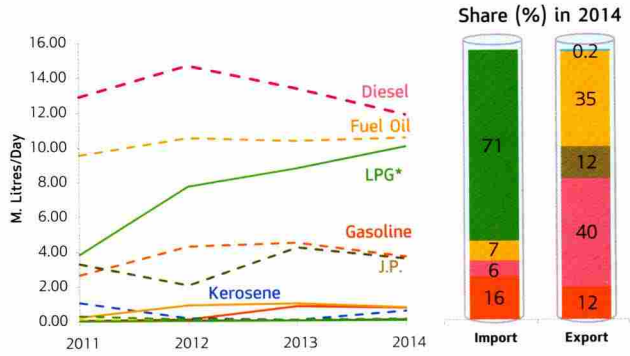
LPG* Including Propane and Butane

2014

Production 158 M. Litres/Day Growth ▼2.0%

Consumption 140 M. Litres/Day Growth ▲0.6%

Import and Export



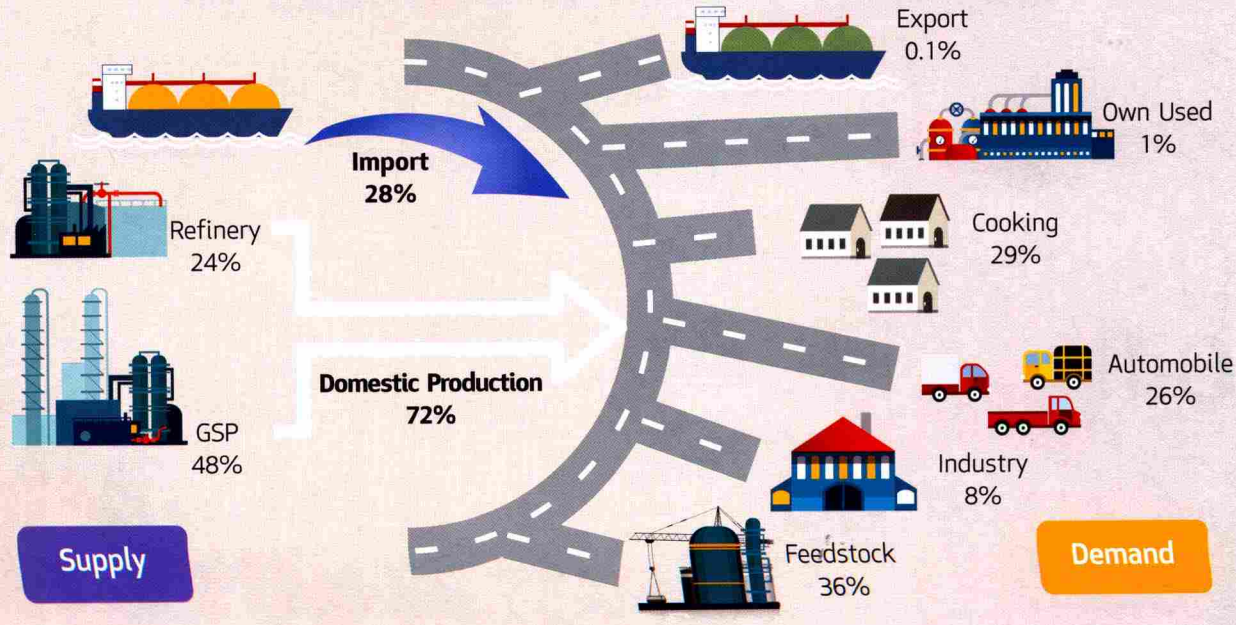
LPG* Including Propane and Butane

2014

Import 15.1 M. Litres/Day Growth ▲25.0%

Export 29.7 M. Litres/Day Growth ▼8.5%

Supply and Demand of LPG, Propane and Butane in 2014



บทที่ 2

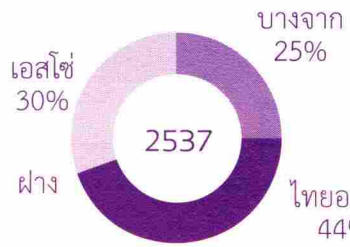
น้ำมัน

การผลิตน้ำมันดิบ ในปี 2557 มีปริมาณการผลิตน้ำมันดิบในประเทศรวมทั้งสิ้น 138,758 บาร์เรลต่อวัน โดยแหล่งน้ำมันดิบที่สำคัญของไทย ได้แก่ แหล่งเบญจมาศ สิริกิติ์ ทานตะวัน จัสมิน และบิกออย์โปรเจ็คของบริษัทยูโนแคล ประเทศไทย จำกัด เป็นต้น

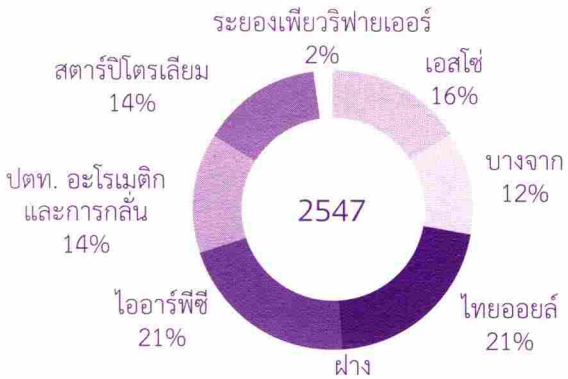
การนำเข้าและส่งออกน้ำมันดิบ ในปี 2557 การนำเข้าส่วนใหญ่มาจากกลุ่มประเทศตะวันออกกลาง ร้อยละ 66 กลุ่มประเทศตะวันออกไกล ร้อยละ 10 และแหล่งอื่นๆ ร้อยละ 24 ในขณะที่ไทยก็มีการส่งออกน้ำมันดิบไปยังต่างประเทศเช่นกัน อาทิ เกาหลี สหรัฐอเมริกา และสิงคโปร์ เป็นต้น

การกลั่นน้ำมัน ในปี 2557 ประเทศไทยมีโรงกลั่นน้ำมันจำนวนทั้งสิ้น 8 โรง ประกอบด้วย บริษัทเอสโซ่ ประเทศไทย จำกัด (มหาชน) บริษัทบางจากปิโตรเลียม จำกัด (มหาชน) บริษัทไทยออยล์ จำกัด (มหาชน) บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) บริษัทสตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด บริษัทไออาร์พีซี จำกัด (มหาชน) บริษัทระยองเพียวริฟายเออร์ จำกัด (มหาชน) และโรงกลั่นน้ำมันฝาง โดยมีกำลังการกลั่นรวมทั้งสิ้น 1,251,500 บาร์เรลต่อวัน

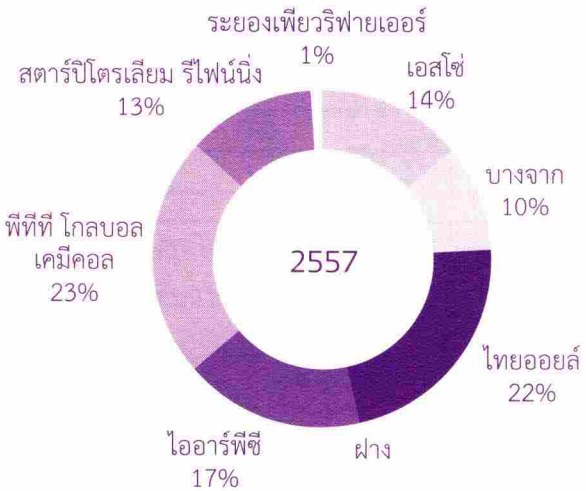
กำลังการกลั่นน้ำมันของประเทศไทย ปี 2537 2547 และ 2557



กำลังการกลั่น รวมทั้งสิ้น 476.7พันบาร์เรล/วัน



กำลังการกลั่น รวมทั้งสิ้น 1,014.5 พันบาร์เรล/วัน



กำลังการกลั่น รวมทั้งสิ้น 1,251.5 พันบาร์เรล/วัน

การใช้น้ำมันดิบเพื่อการกลั่นในปี 2557 อยู่ที่ระดับ 1,028,835 บาร์เรลต่อวัน คิดเป็นสัดส่วนร้อยละ 83 ของความสามารถในการกลั่นของประเทศ

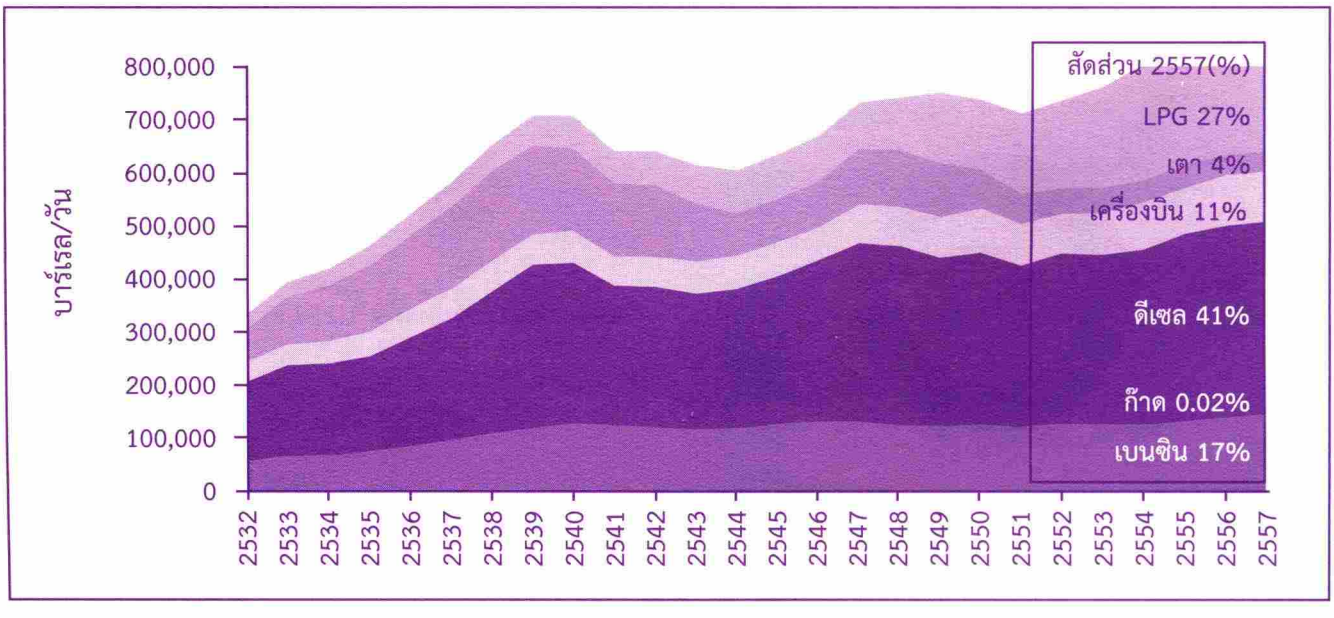


การผลิตและการใช้น้ำมันสำเร็จรูป ในปี 2557 การผลิตน้ำมันสำเร็จรูปอยู่ที่ระดับ 992 พันบาร์เรลต่อวัน ในขณะที่การใช้น้ำมันสำเร็จรูปอยู่ที่ระดับ 881 พันบาร์เรลต่อวัน โดยการใช้น้ำมันดีเซลมีสัดส่วนมากที่สุด คือ ร้อยละ 41 รองลงมาเป็นก๊าซปิโตรเลียมเหลว (LPG) ร้อยละ 27 น้ำมันเบนซิน ร้อยละ 17 น้ำมันเครื่องบิน ร้อยละ 11 และน้ำมันเตา ร้อยละ 4

การใช้น้ำมันสำเร็จรูป

หน่วย : พันบาร์เรล/วัน

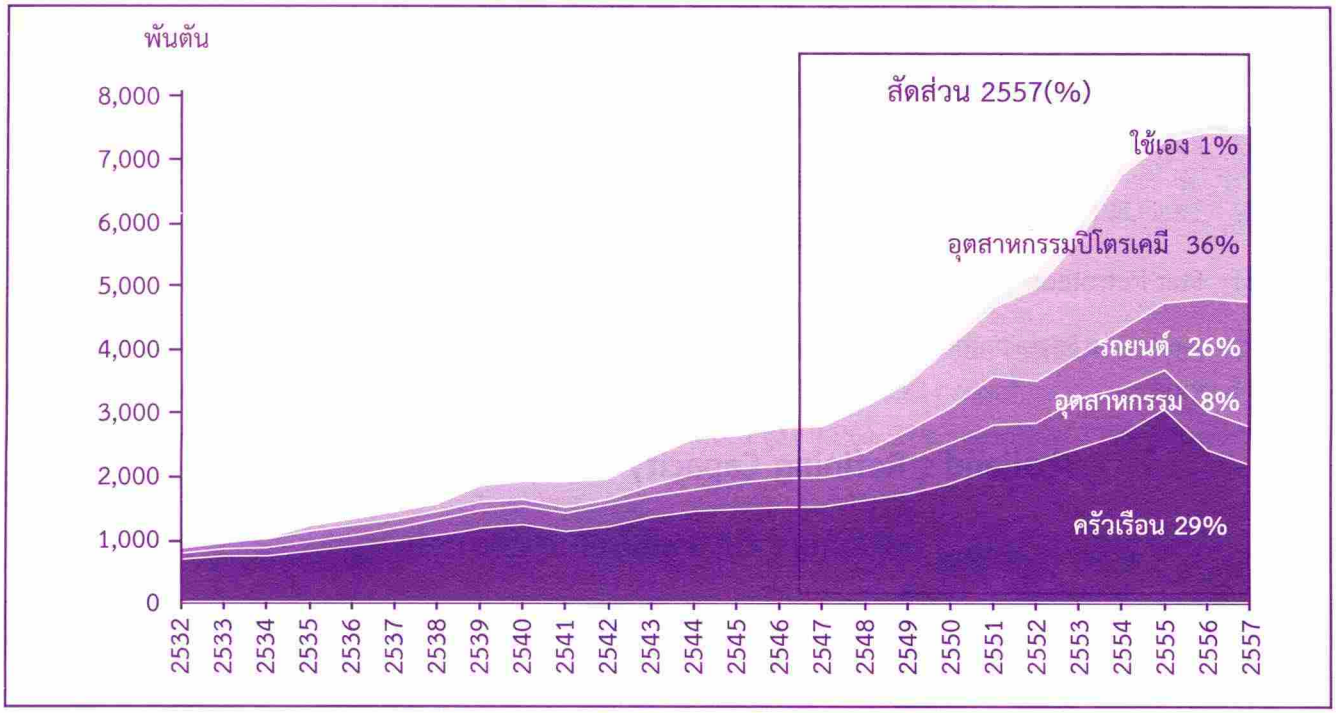
ปี	เบนซิน	ก๊าด	ดีเซล	เครื่องบิน	เตา	LPG	รวม
2537	96	2	229	54	155	45	582
2547	132	0.4	337	73	104	88	735
2557	147	0.2	363	95	36	240	881



การนำเข้าและส่งออกน้ำมันสำเร็จรูป ในปี 2557 มีการส่งออก 187 พันบาร์เรลต่อวัน โดยน้ำมันดีเซลมีสัดส่วนการส่งออกมากที่สุด ร้อยละ 40 ของการส่งออกน้ำมันสำเร็จรูปทั้งหมด ในขณะที่การนำเข้าน้ำมันสำเร็จรูปมีปริมาณเพียง 95 พันบาร์เรลต่อวัน ทั้งนี้ปริมาณ LPG มีสัดส่วนการนำเข้ามากที่สุดถึงร้อยละ 71 ของการนำเข้าน้ำมันสำเร็จรูปทั้งหมด

การใช้ LPG ในปี 2557 สาขาอุตสาหกรรมปิโตรเคมี มีสัดส่วนการใช้มากที่สุด คิดเป็นสัดส่วนร้อยละ 36 ในขณะที่การใช้ในสาขาครัวเรือนและสาขาขนส่งมีสัดส่วนอยู่ที่ร้อยละ 29 และ 26 ตามลำดับ สัดส่วนที่เหลือเป็นการใช้ในสาขาอุตสาหกรรมและใช้เองอยู่ที่ร้อยละ 8 และ 1 ตามลำดับ

การใช้ LPG รายสาขา



การนำเข้าและส่งออก LPG ในปี 2557 มีการนำเข้าในรูปแบบของ LPG โพรเพน และบิวเทน อยู่ที่ระดับ 2,099 พันตัน เพิ่มขึ้นจากปีก่อนร้อยละ 6.5 และมีการส่งออกอยู่ที่ระดับ 10 พันตัน เพิ่มขึ้นจากปีก่อนร้อยละ 65.2 โดยส่งออกไปประเทศเพื่อนบ้าน ได้แก่ จีน กัมพูชา เมียนมาร์ และลาว

Chapter 2: Oil

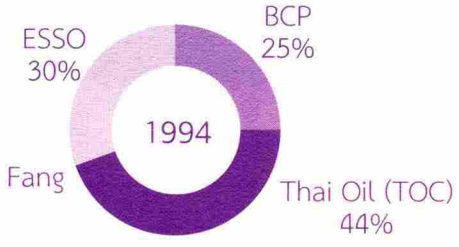
Crude Oil Production. The accumulated domestic oil production in 2014 totaled 138,758 barrels per day (BBL/D). Major crude oil fields in Thailand comprise Benjamas, Sirikit, Tantawan, Jasmin and Big Oil Project of Unocal (Thailand) Co., Ltd.

Crude Oil Import and Export. Most of the imports were from the Middle East, holding a share of 66%; the remainder was from the Far East, accounting for 10%, and from other sources, 24%. Concurrently, Thailand also exported crude oil to such countries as Korea, the USA and Singapore.

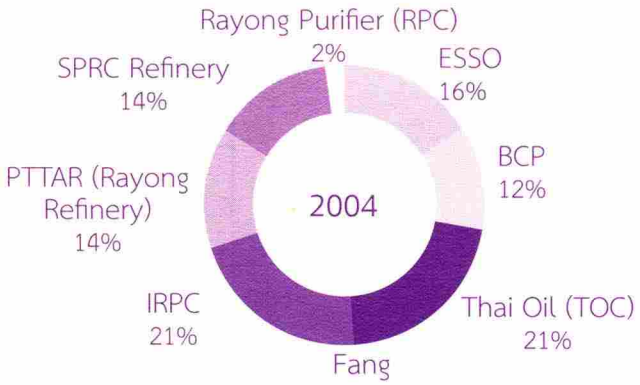
Oil Refining. As of 2014, there are eight oil refineries in Thailand, with a total refining capacity of 1,251,500 BBL/D, comprising:

1) ESSO Thailand Co., Ltd.
2) Bangchak Petroleum Public Co., Ltd.
3) Thai Oil Public Co., Ltd.
4) PTTGC Public Co., Ltd.
5) Star Petroleum Refining Co., Ltd.
6) IRPC Public Co., Ltd.
7) Rayong Purifier Public Co., Ltd., and
8) Fang Oil Refinery

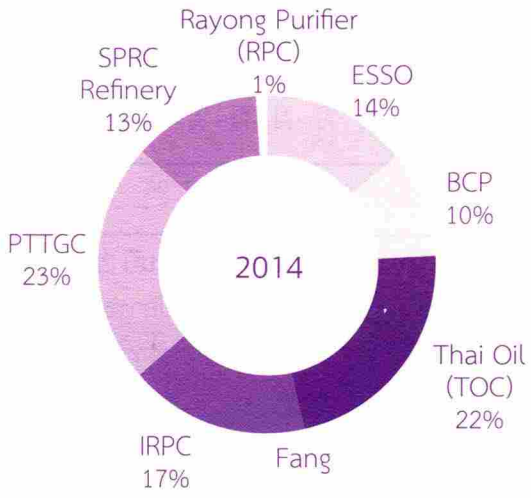
Thailand's Refining Capacity in 1994, 2004 and 2014



Total Capacity: 476.7 Thousand Barrels/Operating Day

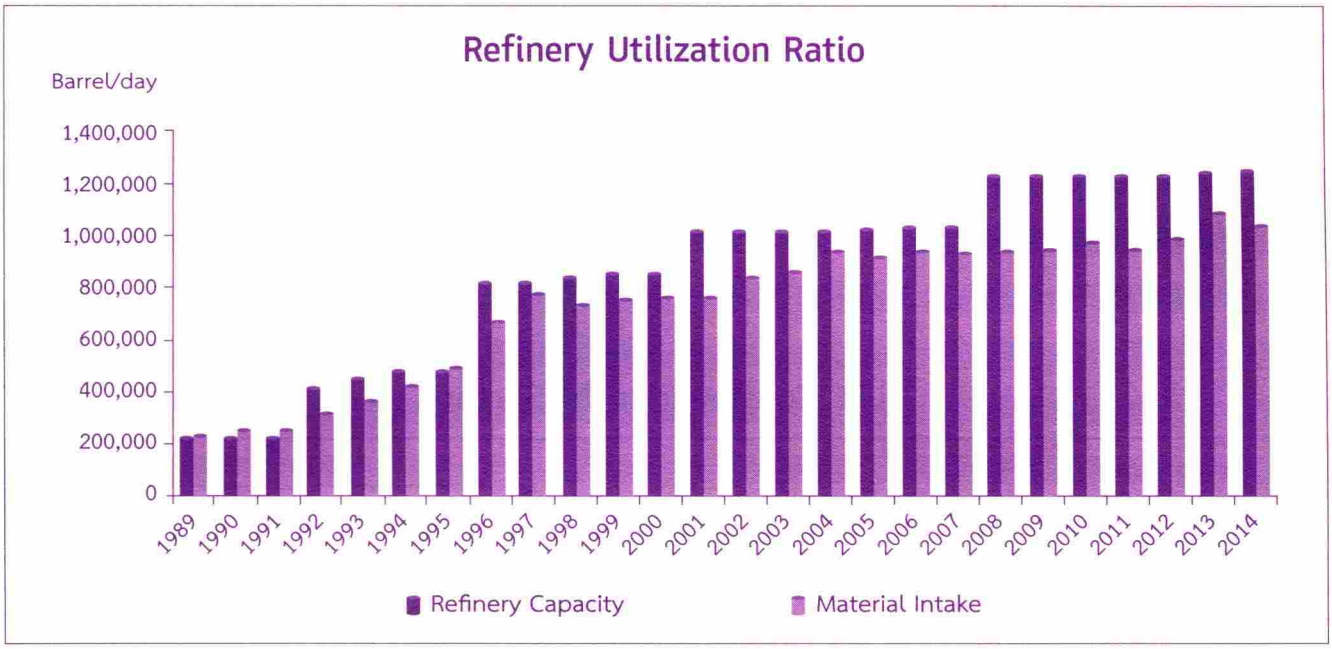


Total Capacity: 1,014.5 Thousand Barrels/Operating Day



Total Capacity: 1,251.5 Thousand Barrels/Operating Day

The refinery intake of crude oil in 2014 was at a volume of 1,028,835 BBL/D, accounting for 83% of the total domestic refining capacity.

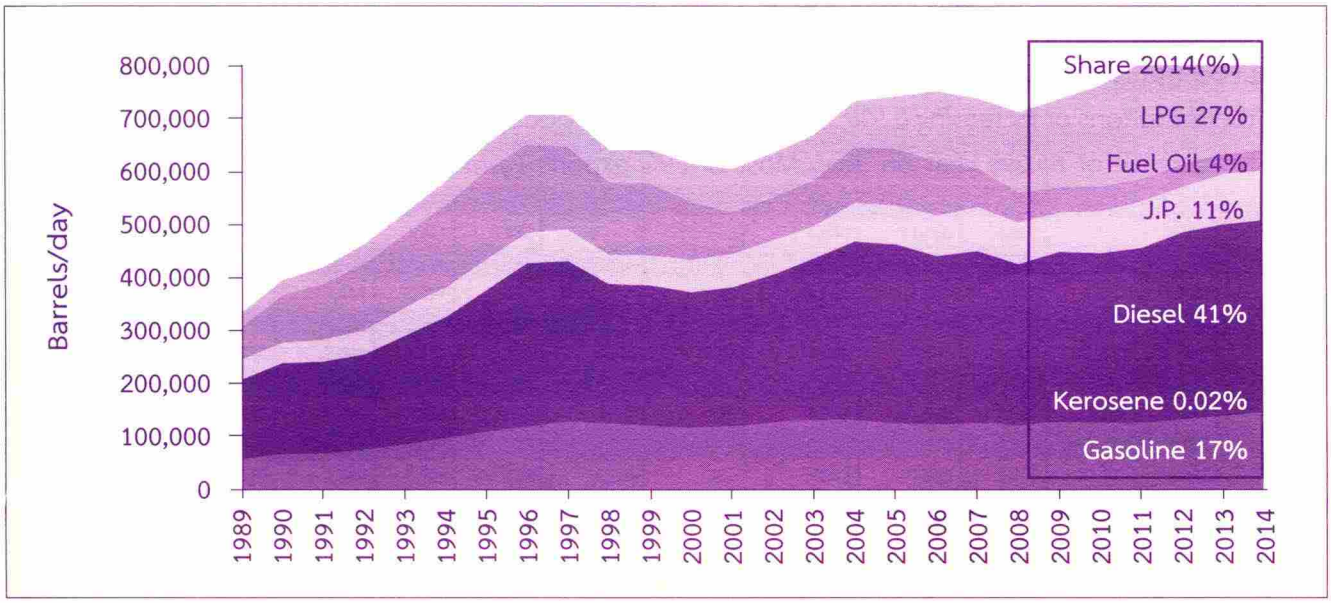


Production and Consumption of Petroleum Products. In 2014, the production of petroleum products was at a volume of 992 KBD while the consumption was at 881 KBD. Diesel consumption accounted for the largest share of 41%; others comprised liquefied petroleum gas (LPG), 27%; gasoline, 17%; jet petroleum, 11% and fuel oil, 4%.

Petroleum Product Consumption

Unit : 1,000 Barrel/day

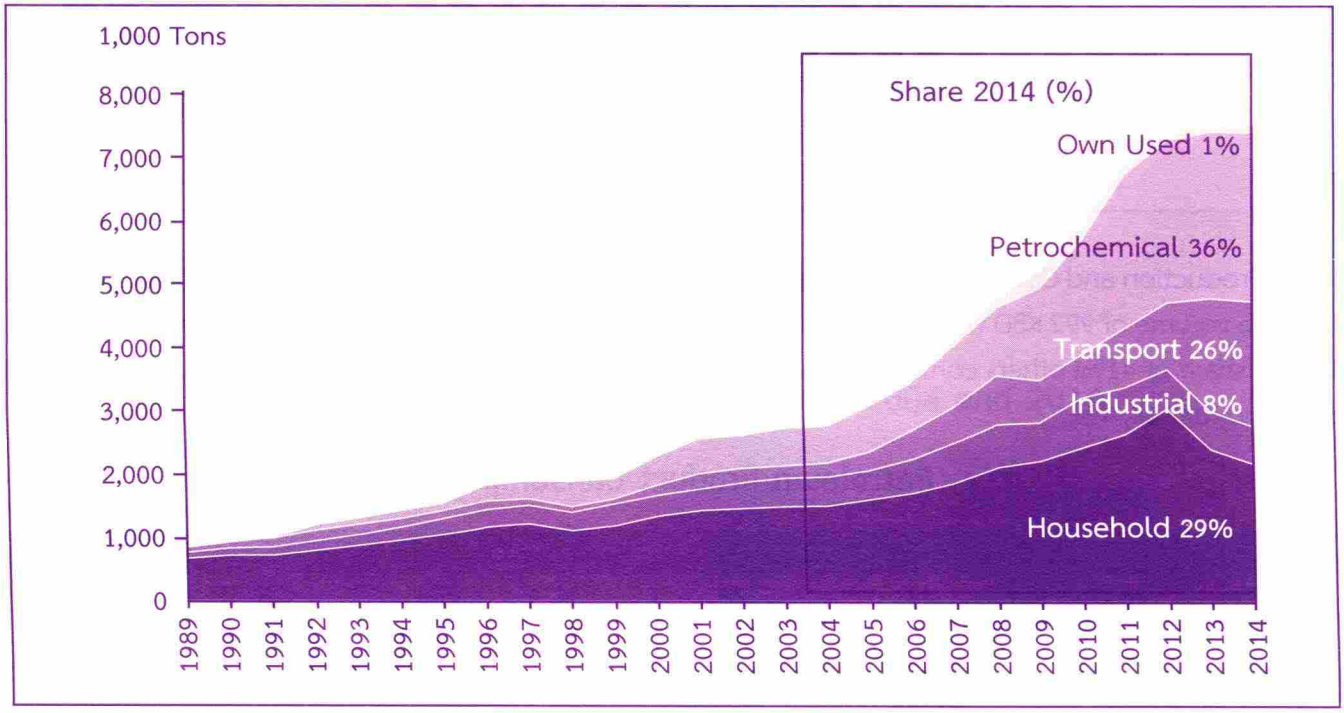
Year	Gasoline	Kerosene	Diesel	J.P.	Fuel Oil	LPG	Total
1994	96	2	229	54	155	45	582
2004	132	0.4	337	73	104	88	735
2014	147	0.2	363	95	36	240	881



Import and Export of Petroleum Products. In 2014, the export volume of petroleum products was 187 KBD, with diesel accounting for the largest share, i.e. 40%, of the total export; while the petroleum product import volume was only 95 KBD, with LPG accounting for the largest share of 71% of the total import.

LPG Consumption. In 2014, petrochemical sector was the most consumption share, holding a share of 36%, while share of the household and transport sectors were 29% and 26% respectively. The remaining consumption was used in the industrial sector and own used at share 8% and 1% respectively.

LPG Consumption by Sector



LPG Import and Export. In 2014, the LPG import was only under propane and butane, accounted for 2,099 thousand tons or increasing 6.5%, compared to the previous year. The export of it was at 10 thousand tons, an increase of 65.2% year on year. Most of LPG exports went to Thailand's neighboring countries i.e. China, Cambodia, Myanmar and Laos.

Table 2.1.1-1Y
Production of Crude Oil

Unit : Barrels/Day

Year	Bung Ya & Muang	Chaba	Fang	Bualaung	Songkhla	Neung & Sawng	Unocal	Sirikit	Wichian Buri	Nasanun	Tan Tawan	Jusmin	Nang-Nual	Banyen	Benjamas	Others	Total
1990			1,209					22,759									23,968
1991	111		1,233			398		22,762									24,503
1992	188		1,336			1,293		23,500									26,317
1993	158		1,285			1,186		22,065					246				24,940
1994	229		1,454			957		22,245					1,669				26,553
1995	196		1,409			1,285		17,631	143				3,077			21	23,763
1996	434		1,290			956		18,701	273				4,696			69	26,419
1997	518		1,324			812		17,672	198		5,374		1,485			81	27,463
1998	509		1,030			638		20,658	221		6,213					149	29,420
1999	570		996			546		23,384	140		5,056		4,696		3,223	91	34,006
2000	635		878			548		23,483	200		7,454		1,485		24,354	385	57,937
2001	902		658			597	1,149	21,212	180		7,938				28,906	372	61,914
2002	803		661			463	11,634	20,591	159		5,649				35,132	476	75,567
2003	733		847			436	20,231	19,127	223		5,193				49,275	258	96,322
2004	856		796			390	22,021	17,050	172		4,503				39,378	350	85,516
2005	1,098		800			354	29,794	17,129	150		6,650	5,768	1,912		45,819	4,415	113,890
2006	1,050		970			370	38,679	18,775	96		8,296	8,649	684		50,004	1,377	128,950
2007	1,460		971			344	39,215	20,511	309	1,202	7,703	19,267	504		42,132	945	134,563
2008	1,674		1,178			327	35,559	20,942	174	8,222	6,505	18,292		1,445	44,960	4,657	143,935
2009	1,539	3,862	1,244	8,916	5,063	290	33,766	21,324	121	8,346	6,196	13,637		6,596	29,067	14,074	154,041
2010	1,486	3,739	1,154	8,327	7,926	261	36,998	21,808	105	6,689	3,860	13,868		3,891	26,665	16,397	153,174
2011	1,163	2,167	1,045	7,641	9,787	237	30,643	22,974	118	2,474	5,428	12,762		4,620	27,077	11,855	139,991
2012	1,210	1,699	945	7,200	19,883	251	28,281	28,423	128	1,375	3,748	10,408		3,685	25,439	16,302	148,977
2013	1,184	1,196	956	12,317	20,322	199	29,816	32,889	122	1,186	2,754	10,478		2,745	20,652	12,665	149,481
2014	1,059	1,179	959	12,496	14,297	150	24,051	27,948	115	3,590	1,645	9,796		3,963	22,663	14,847	138,758

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2Y
Production of Condensate

Unit : Barrels/Day

Year	Pailin	Erawan	Bannpot	Satun	South Satun	Platong & Kapong	Phuhorm	Funan & Jakrawan	Bongkot	Gomin	Arthit	Trat	Others	Total
1990		7,885	1,172	5,506	541	1,526							2,640	19,270
1991		9,691	599	6,152	1,765	1,667							1,881	21,753
1992		8,476	362	6,990	1,436	1,589		6,571					1,106	26,530
1993		9,271	389	6,465	1,485	1,729		7,296	1,557				586	28,778
1994		8,978	565	7,245	403	1,988		6,381	3,410				1,644	30,615
1995		9,152	176	6,922	703	2,718		5,480	4,150	261			402	29,964
1996		7,999	385	6,944	1,085	2,879		4,843	7,803	3,349			353	35,639
1997		9,529	865	7,261	1,689	5,816		6,748	10,103	2,499			288	44,800
1998		9,601	566	7,420	1,881	5,436		7,438	10,830	1,026			2,142	46,341
1999	3,261	9,936	553	6,409	2,036	3,496		6,610	13,581	789		824	2,136	49,631
2000	9,207	8,569	359	4,607	1,571	3,302		6,307	13,393	1,410		2,198	1,297	52,220
2001	8,272	8,928	233	3,823	1,288	1,965		6,926	16,208	607		2,589	1,008	51,847
2002	11,330	9,029	393	3,353	850	690		8,260	16,111	647		2,306	756	53,724
2003	16,975	12,070	237	3,226	864	111		5,568	15,729	4,798		2,473	612	62,663
2004	19,003	11,726	1,358	3,917	482			6,683	17,665	4,505		2,047	818	68,204
2005	21,620	11,599	1,779	3,586	566			6,247	17,839	4,022		1,984	245	69,487
2006	25,269	11,101	3,414	2,497	692		32	8,302	17,685	1,219		4,928	111	75,250
2007	25,276	11,291	3,829	3,931	459		464	11,746	17,869	550		3,111	319	78,845
2008	23,268	10,594	2,645	4,136	355	302	458	10,240	18,505	800	12,610	969	11	84,893
2009	22,106	12,496	1,759	2,937	380		409	6,591	18,300	753	17,520	647	2	83,900
2010	22,435	11,180	3,789	2,730	170		428	6,733	19,568	2,519	17,508	1,567		88,627
2011	18,048	10,531	2,886	2,625	132	1,536	380	5,508	20,556	4,372	15,811	1,208	543	84,136
2012	11,861	9,025	2,344	3,901	138	6,705	435	7,842	27,359	3,453	10,548	1,422	4,606	89,639
2013	11,234	5,863	1,915	2,533	12	6,752	376	7,671	32,480	2,573	9,203	2,757	7,790	91,159
2014	10,525	6,756	2,707	3,955	5	10,229	420	6,850	28,877	2,367	9,403	3,155	9,081	94,330

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-1Y
Import of Crude Oil Classified by Sources

Unit : Million Litres

Year	Middle East	Far East	Others	Total
1990	7,726	4,357	104	12,187
1991	7,375	5,220	214	12,810
1992	9,468	5,789	891	16,148
1993	10,822	7,435	537	18,794
1994	13,190	8,035	415	21,639
1995	16,605	8,951	681	26,237
1996	26,534	9,669	642	36,844
1997	32,597	8,226	1,468	42,291
1998	33,307	5,717	421	39,446
1999	32,281	6,309	1,969	40,558
2000	28,980	8,086	2,104	39,170
2001	32,011	7,320	2,011	41,342
2002	31,453	7,957	2,867	42,278
2003	35,482	8,153	1,390	45,025
2004	40,966	7,278	2,378	50,621
2005	38,233	6,409	3,391	48,033
2006	38,913	5,724	3,489	48,125
2007	36,747	4,222	5,703	46,671
2008	39,145	3,344	4,736	47,225
2009	36,601	6,025	3,995	46,620
2010	34,397	4,250	8,718	47,365
2011	35,725	3,716	6,648	46,090
2012	37,460	4,022	8,575	50,056
2013	37,572	4,370	8,431	50,374
2014	31,002	4,517	11,192	46,710

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-2Y
Quantity and Value of Petroleum Products Import

Description	1990	1991	1992	1993	1994	1995	1996	1997
1. Crude Oil								
-Value (M. Baht)	42,792.34	39,854.55	48,644.44	51,024.39	55,362.56	72,121.90	121,936.80	166,545.22
-Quantity (M. Llitres)	12,186.66	12,809.79	16,147.92	18,794.00	21,639.07	26,236.84	36,844.40	42,290.78
-Quantity (BBL/D)	210,001.00	220,739.00	277,502.00	323,859.00	372,886.00	452,115.00	633,170.00	728,758.00
-Value (M.US$)	1,673.30	1,559.97	1,910.75	2,013.07	2,198.99	2,889.86	4,798.31	5,312.17
-Price ($/BBL)	21.83	19.36	18.81	17.03	16.16	17.51	20.71	19.97
2. Petroleum Products								
-Value (M. Baht)	38,170.69	37,910.34	32,295.04	35,032.11	29,449.43	33,148.44	32,620.43	12,960.78
-Quantity (M. Llitres)	9,063.23	9,400.94	9,217.32	10,408.46	9,826.46	10,482.99	8,445.89	3,083.45
-Quantity (BBL/D)	156,178.00	161,998.00	158,399.00	179,359.00	169,330.00	180,644.00	145,143.00	53,134.00
-Value (M.US$)	1,489.85	1,484.93	1,267.15	1,380.59	1,168.80	1,328.82	1,285.90	451.61
-Price ($/BBL)	26.14	25.11	21.86	21.09	18.91	20.15	24.21	23.29
3. Others								
-Value (M. Baht)	892.89	1,129.12	1,162.46	2,221.76	3,389.38	4,054.52	4,480.37	7,811.20
-Quantity (M. Llitres)	108.76	127.23	161.38	357.48	651.38	733.10	747.02	1,382.57
-Quantity (BBL/D)	1,874.00	2,192.00	2,773.00	6,160.00	11,225.00	12,633.00	12,838.00	23,825.00
-Value (M.US$)	34.80	44.23	45.65	87.59	134.57	162.42	176.45	258.13
-Price ($/BBL)	50.87	55.27	44.97	38.96	32.85	35.22	37.55	29.68
4. Total Petroleum								
-Value (M. Baht)	81,855.92	78,894.01	82,101.95	88,278.27	88,201.38	109,324.86	159,037.61	187,317.21
-Quantity (M. Llitres)	21,358.64	22,337.96	25,526.62	29,559.94	32,116.92	37,452.92	46,037.32	46,756.80
-Quantity (BBL/D)	368,054.00	384,929.00	438,674.00	509,379.00	553,441.00	645,391.00	791,151.00	805,716.00
-Value (M.US$)	3,197.95	3,089.13	3,223.55	3,481.25	3,502.35	4,381.10	6,260.66	6,021.91
-Price ($/BBL)	23.80	21.99	20.08	18.72	17.34	18.60	21.62	20.48

Table 2.1.2-2Y (Cont.)
Quantity and Value of Petroleum Products Import

Description	1998	1999	2000	2001	2002	2003	2004	2005
1. Crude Oil								
-Value (M. Baht)	137,100.43	169,633.03	285,861.96	284,373.28	286,952.72	346,056.80	486,627.38	644,933.27
-Quantity (M. Llitres)	39,445.58	40,557.86	39,169.87	41,341.58	42,277.71	45,024.79	50,621.21	48,032.65
-Quantity (BBL/D)	679,729.00	698,896.00	673,134.00	712,401.00	728,532.00	775,870.00	872,308.00	827,702.00
-Value (M.US$)	3,277.23	4,442.87	7,042.73	6,365.38	6,663.68	8,309.61	12,037.82	15,932.37
-Price ($/BBL)	13.21	17.42	28.59	24.48	25.06	29.34	37.81	52.74
2. Petroleum Products								
-Value (M. Baht)	5,189.64	9,727.78	9,160.35	3,910.60	7,391.15	8,909.09	15,774.53	29,362.57
-Quantity (M. Llitres)	1,406.85	2,069.47	1,300.20	469.46	981.49	997.97	1,715.02	2,164.73
-Quantity (BBL/D)	24,243.00	35,661.00	22,344.00	8,090.00	16,913.00	17,197.00	29,553.00	37,303.00
-Value (M.US$)	127.74	254.73	237.22	87.44	170.95	213.97	394.55	728.63
-Price ($/BBL)	14.44	19.57	29.01	29.61	27.69	34.09	36.58	53.51
3. Others								
-Value (M. Baht)	5,348.29	5,394.10	29,867.15	26,757.01	20,462.44	24,259.10	28,902.32	30,722.30
-Quantity (M. Llitres)	921.13	1,148.37	4,141.50	3,924.80	3,011.12	2,999.49	2,837.15	2,435.91
-Quantity (BBL/D)	15,873.00	19,789.00	71,172.00	67,632.00	51,888.00	51,687.00	48,890.00	41,976.00
-Value (M.US$)	129.40	141.36	747.06	601.91	475.42	580.77	716.00	761.65
-Price ($/BBL)	22.33	19.57	28.68	24.38	25.10	30.78	40.12	49.71
4. Total Petroleum								
-Value (M. Baht)	147,638.36	184,754.91	324,889.46	315,040.89	314,806.31	379,224.99	531,304.23	705,018.15
-Quantity (M. Llitres)	41,773.56	43,775.70	44,611.58	45,735.84	46,270.32	49,022.25	55,173.38	52,633.30
-Quantity (BBL/D)	719,845.00	754,346.00	766,649.00	788,123.00	797,333.00	844,755.00	950,751.00	906,980.00
-Value (M.US$)	3,534.36	4,838.96	8,027.01	7,054.74	7,310.05	9,104.35	13,148.37	17,422.65
-Price ($/BBL)	13.45	17.57	28.61	24.52	25.12	29.53	37.89	52.63

Table 2.1.2-2Y (Cont.)
Quantity and Value of Petroleum Products Import

Description	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. Crude Oil									
-Value (M. Baht)	753,782.92	715,789.31	1,002,667.25	623,023.91	751,466.61	977,374.02	1,119,337.83	1,072,221.18	979,703.66
-Quantity (M. Llitres)	48,125.40	46,671.28	47,224.99	46,620.18	47,365.25	46,090.03	50,055.99	50,373.54	46,710.11
-Quantity (BBL/D)	829,300.00	804,242.00	811,561.00	803,362.00	816,201.00	794,226.00	860,211.00	868,040.00	804,912.00
-Value (M.US$)	19,824.42	20,706.88	30,131.30	18,150.38	23,675.95	31,943.72	35,872.66	34,752.63	30,041.24
-Price ($/BBL)	65.49	70.54	101.44	61.90	79.47	110.19	113.94	109.69	102.25
2. Petroleum Products									
-Value (M. Baht)	23,513.81	15,409.28	21,353.80	21,852.52	41,446.21	51,472.35	70,469.75	72,891.15	99,557.35
-Quantity (M. Llitres)	1,503.70	932.15	1,229.00	1,897.99	3,116.23	3,254.34	3,889.63	4,394.77	5,494.70
-Quantity (BBL/D)	25,912.00	16,063.00	21,120.00	32,706.00	53,699.00	56,079.00	66,843.00	75,731.00	94,685.00
-Value (M.US$)	614.99	445.41	640.35	638.46	1,309.79	1,682.45	2,260.96	2,360.82	3,053.67
-Price ($/BBL)	65.02	75.97	82.84	53.48	66.83	82.20	92.42	85.41	88.36
3. Others									
-Value (M. Baht)	39,746.13	35,265.99	19,708.84	7,366.43	26,070.91	44,604.86	53,701.09	66,129.47	102,707.16
-Quantity (M. Llitres)	2,680.24	2,231.53	1,039.30	699.72	1,800.40	2,429.33	2,714.50	3,434.92	5,262.15
-Quantity (BBL/D)	46,186.00	38,454.00	17,860.00	12,058.00	31,025.00	41,862.00	46,649.00	59,191.00	90,678.00
-Value (M.US$)	1,043.02	1,020.26	598.40	212.03	820.32	1,454.61	1,721.43	2,148.70	3,153.95
-Price ($/BBL)	61.87	72.69	91.54	48.18	72.44	95.20	100.83	99.46	95.29
4. Total Petroleum									
-Value (M. Baht)	817,042.86	766,464.57	1,043,729.89	652,242.85	818,983.73	1,073,451.23	1,243,508.66	1,211,241.80	1,181,968.17
-Quantity (M. Llitres)	52,309.33	49,834.96	49,493.29	49,217.89	52,281.88	51,773.70	56,660.12	58,203.23	57,466.96
-Quantity (BBL/D)	901,398.00	858,759.00	850,541.00	848,126.00	900,925.00	892,168.00	973,703.00	1,002,962.00	990,274.00
-Value (M.US$)	21,482.43	22,172.54	31,370.04	19,000.87	25,806.06	35,080.78	39,855.06	39,262.15	36,248.86
-Price ($/BBL)	65.29	70.74	100.77	61.38	78.48	107.73	111.83	107.25	100.29

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease
: Including Propane and Butane

Table 2.1.3-1Y
Quantity and Value of Petroleum Products Export

Description	1990	1991	1992	1993	1994	1995	1996	1997
1. Crude Oil								
-Value (M. Baht)								
-Quantity (M. Litres)								
-Quantity (BBL/D)								
-Value (M.US$)								
-Price ($/BBL)								
2. Petroleum Products								
-Value (M. Baht)								
-Quantity (M. Litres)	24	35	195	473	413	810	4,399	6,351
-Quantity (BBL/D)	409	596	3,343	8,142	7,112	13,965	75,604	109,435
-Value (M.US$)								
-Price ($/BBL)								
3. Others								
-Value (M. Baht)								
-Quantity (M. Litres)		9	400	481	309	457	416	451
-Quantity (BBL/D)		156	6,868	8,286	5,319	7,873	7,147	7,777
-Value (M.US$)								
-Price ($/BBL)								
4. Total Petroleum								
-Value (M. Baht)								
-Quantity (M. Litres)	24	44	594	953	721	1,267	4,955	6,802
-Quantity (BBL/D)	409	751	10,211	16,428	12,431	21,838	85,157	117,212
-Value (M.US$)								
-Price ($/BBL)								

Table 2.1.3-1Y (Cont.)
Quantity and Value of Petroleum Products Export

Description	1998	1999	2000	2001	2002	2003	2004	2005
1. Crude Oil								
-Value (M. Baht)				14,449	18,075	29,356	33,883	52,858
-Quantity (M. Litres)			1,750	2,216	2,689	3,876	3,288	3,806
-Quantity (BBL/D)			30,069	38,189	46,335	66,800	56,656	65,580
-Value (M.US$)				326	424	709	842	1,308
-Price ($/BBL)				23.42	25.04	29.07	40.73	54.63
2. Petroleum Products								
-Value (M. Baht)							70,954	99,398
-Quantity (M. Litres)	5,852	7,101	6,394	6,916	7,132	6,130	7,004	7,093
-Quantity (BBL/D)	100,836	122,360	109,873	119,180	122,907	105,631	120,700	122,222
-Value (M.US$)							1,766	2,455
-Price ($/BBL)							40.08	55.02
3. Others								
-Value (M. Baht)							15,505	12,136
-Quantity (M. Litres)	411	718	1,026	1,010	964	1,342	1,473	1,020
-Quantity (BBL/D)	7,080	12,379	17,640	17,398	16,608	23,127	25,389	17,573
-Value (M.US$)							387	302
-Price ($/BBL)							41.79	47.01
4. Total Petroleum								
-Value (M. Baht)				14,449	18,075	29,356	120,342	164,392
-Quantity (M. Litres)	6,263	7,839	9,170	10,142	10,785	11,348	11,766	11,918
-Quantity (BBL/D)	107,916	135,085	157,583	174,768	185,850	195,557	202,745	205,375
-Value (M.US$)				326	424	709	2,995	4,064
-Price ($/BBL)				5.12	6.24	9.93	40.48	54.21

Table 2.1.3-1Y (Cont.)
Quantity and Value of Petroleum Products Export

Description	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. Crude Oil									
-Value (M. Baht)	56,835	45,812	56,575	27,410	26,107	38,926	51,531	29,115	8,653
-Quantity (M. Llitres)	3,798	3,020	2,669	2,383	1,738	1,886	2,388	1,443	388
-Quantity (BBL/D)	65,441	52,046	45,863	41,067	29,957	32,503	41,037	24,866	6,685
-Value (M.US$)	1,502	1,334	1,716	804	822	1,283	1,662	961	268
-Price ($/BBL)	62.88	70.20	102.23	53.65	75.21	108.17	110.69	105.90	109.63
2. Petroleum Products									
-Value (M. Baht)	138,063	127,172	225,447	174,516	198,590	230,723	268,490	265,215	225,888
-Quantity (M. Llitres)	8,399	7,747	10,404	11,682	11,957	10,495	11,598	11,874	10,837
-Quantity (BBL/D)	144,739	133,490	178,786	201,298	206,050	180,852	199,304	204,620	186,751
-Value (M.US$)	3,656	3,708	6,815	5,131	6,287	7,619	8,683	8,635	6,992
-Price ($/BBL)	69.21	76.11	104.15	69.83	83.59	115.42	119.04	115.61	102.58
3. Others									
-Value (M. Baht)	22,863	31,905	34,937	30,770	33,274	47,534	75,894	76,277	74,781
-Quantity (M. Llitres)	1,527	2,129	2,268	2,240	2,015	2,433	3,441	3,661	3,715
-Quantity (BBL/D)	26,320	36,678	38,976	38,600	34,715	41,924	59,131	63,078	64,019
-Value (M.US$)	606	929	1,050	907	1,051	1,564	2,452	2,492	2,312
-Price ($/BBL)	63.03	69.42	73.60	64.37	82.96	102.22	113.32	108.25	98.94
4. Total Petroleum									
-Value (M. Baht)	217,761	204,888	316,959	232,696	257,971	317,182	395,915	371,323	310,078
-Quantity (M. Llitres)	13,724	12,895	15,340	16,305	15,710	14,814	17,426	17,008	14,973
-Quantity (BBL/D)	236,500	222,214	263,626	280,964	270,722	255,279	299,472	293,077	258,007
-Value (M.US$)	5,764	5,971	9,581	6,842	8,160	10,466	12,798	12,112	9,595
-Price ($/BBL)	66.77	73.62	99.30	66.72	82.58	112.33	116.77	113.22	101.89

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1Y
Refining Capacity

Unit: Barrels/Day

Year	ESSO	BANGCHAK (BCP)	THAI OIL (TOP)	FANG	TPI / IRPC	RRC / PTTAR / PTTGC	STAR REFINERY CO., LTD.	RAYONG PURIFIER CO., LTD.	TOTAL
1990	69,680	68,000	83,500	1,100					222,280
1991	69,680	68,000	83,500	1,100					222,280
1992	145,000	80,000	183,500	1,200					409,700
1993	145,000	120,000	183,500	1,400					449,900
1994	145,000	120,000	210,000	1,700					476,700
1995	145,000	120,000	210,000	1,700					476,700
1996	145,000	120,000	210,000	2,500	65,000	145,000	130,000		817,500
1997	145,000	120,000	210,000	2,500	65,000	145,000	130,000		817,500
1998	145,000	120,000	210,000	2,500	65,000	145,000	130,000	17,000	834,500
1999	145,000	120,000	210,000	2,500	65,000	145,000	145,000	17,000	849,500
2000	145,000	120,000	210,000	2,500	65,000	145,000	145,000	17,000	849,500
2001	160,000	120,000	210,000	2,500	215,000	145,000	145,000	17,000	1,014,500
2002	160,000	120,000	210,000	2,500	215,000	145,000	145,000	17,000	1,014,500
2003	160,000	120,000	210,000	2,500	215,000	145,000	145,000	17,000	1,014,500
2004	160,000	120,000	210,000	2,500	215,000	145,000	145,000	17,000	1,014,500
2005	160,000	120,000	220,000	2,500	215,000	145,000	145,000	17,000	1,024,500
2006	160,000	120,000	220,000	2,500	215,000	145,000	150,000	17,000	1,029,500
2007	160,000	120,000	220,000	2,500	215,000	145,000	150,000	17,000	1,029,500
2008	170,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,229,500
2009	170,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,229,500
2010	170,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,229,500
2011	170,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,229,500
2012	170,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,229,500
2013	177,000	120,000	275,000	2,500	215,000	280,000	150,000	17,000	1,236,500
2014	177,000	120,000	275,000	2,500	215,000	280,000	165,000	17,000	1,251,500

Remarks : Since mid of September 2007 RRC merged with ATC to form PTTAR.
Since mid of October 2011 PTTAR merged with PTTCH to form PTTGC.

Source by : Department of Energy Business (DOEB)

Compiled by: Energy Policy and Planning Office (EPPO)

Table 2.2-2Y
Material Intake by Refinery

Unit: Barrels/Day

Year	ESSO	BANGCHAK (BCP)	THAI OIL (TOP)	FANG	TPI / IRPC	RRC / PTTAR / PTTGC	STAR REFINERY CO., LTD.	RAYONG PURIFIER CO., LTD.	TOTAL
1990	72,354	64,837	103,611						240,803
1991	73,691	69,242	105,693						248,626
1992	78,409	77,025	150,198						305,631
1993	74,903	90,489	192,327						357,719
1994	96,810	107,774	209,436						414,020
1995	150,404	110,400	214,493		10,192				485,490
1996	150,675	97,795	194,645		36,179	104,224	75,488		659,006
1997	144,951	98,563	205,889		49,631	132,081	136,346		767,461
1998	120,497	91,296	187,864	863	56,076	129,590	130,875	5,611	722,671
1999	118,480	95,091	164,056	995	58,917	147,630	150,265	7,518	742,952
2000	134,558	85,597	169,385	875	65,953	142,983	142,948	8,205	750,505
2001	135,659	73,819	192,555	566	66,769	138,253	138,253	10,706	756,580
2002	126,901	72,709	204,849	539	129,884	142,159	142,159	9,028	828,227
2003	136,917	74,655	225,616	884	127,116	135,347	135,347	11,093	846,975
2004	129,869	90,113	223,125	776	178,104	146,469	147,073	11,097	926,626
2005	152,965	62,738	226,465	686	178,124	138,709	138,709	11,487	909,884
2006	150,485	57,070	229,326	846	169,417	153,689	153,689	11,822	926,343
2007	148,266	65,827	208,907	886	189,299	147,782	147,702	12,976	921,646
2008	141,046	73,540	272,648	1,104	171,788	127,455	127,455	11,498	926,536
2009	137,506	85,098	268,177	1,108	140,469	142,634	152,514	10,234	937,741
2010	124,933	88,575	255,423	1,068	173,097	146,312	162,738	10,686	962,832
2011	110,206	89,918	275,498	929	157,863	134,267	156,640	11,515	936,837
2012	142,254	76,731	271,235	776	174,920	147,439	163,012	1,155	977,521
2013	141,928	99,909	297,279	820	182,876	171,388	183,766		1,077,966
2014	134,136	86,106	282,755	672	173,962	188,478	162,725		1,028,835

Source : Department of Energy Business (DOEB)
Complied by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1Y
Production of Petroleum Products (Million Litres)

Unit : Million Litres

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	3,044.9	1,777.2	1,267.7	140.1	4,427.0	4,305.4	121.6	1,778.1	3,540.1	1,347.1	14,277.2
1991	3,106.1	1,919.5	1,186.6	100.2	4,794.6	4,655.4	139.2	1,856.0	3,587.6	1,817.3	15,261.7
1992	3,751.3	2,270.6	1,480.6	121.6	6,093.5	5,936.3	157.3	2,083.5	4,328.7	2,355.0	18,733.5
1993	4,603.2	2,442.2	2,161.0	124.6	7,273.9	7,069.9	204.0	2,321.4	4,739.5	2,655.4	21,717.9
1994	5,025.0	2,034.7	2,990.3	120.6	8,432.9	8,218.6	214.3	2,700.4	5,763.6	2,535.9	24,578.3
1995	6,181.6	2,247.4	3,934.2	113.0	10,073.7	9,866.5	207.2	3,138.3	6,000.6	3,151.2	28,658.4
1996	7,969.5	2,693.4	5,276.1	189.3	13,929.9	13,754.5	175.4	3,572.0	8,354.1	3,761.1	37,775.8
1997	9,419.5	2,879.6	6,539.9	122.7	17,272.5	17,128.3	144.3	3,810.8	8,701.9	4,650.6	43,978.1
1998	8,722.1	2,798.9	5,923.2	120.9	16,446.7	16,335.7	111.0	3,567.4	7,891.4	4,472.4	41,220.9
1999	8,631.5	2,762.7	5,868.8	353.7	15,955.1	15,824.0	131.1	4,119.0	7,868.6	4,984.7	41,912.5
2000	8,086.5	3,792.3	4,294.2	497.2	16,111.7	15,997.2	114.4	4,347.8	7,023.4	5,575.6	41,642.2
2001	8,327.2	4,131.3	4,195.9	590.5	16,679.2	16,571.1	108.1	4,237.2	6,495.4	6,348.4	42,678.0
2002	8,250.8	4,305.3	3,945.5	553.5	17,523.6	17,422.2	101.4	4,669.9	5,999.8	6,359.3	43,356.8
2003	8,639.7	4,662.2	3,977.4	703.5	19,184.5	19,079.9	104.6	4,257.3	6,095.8	6,679.3	45,560.1
2004	8,957.2	4,846.3	4,110.9	1,125.2	21,249.7	21,133.5	116.1	4,630.8	6,734.7	7,069.8	49,767.4
2005	9,232.7	5,076.1	4,156.6	1,021.9	20,803.0	20,718.9	84.2	4,836.6	6,172.7	7,734.9	49,801.7
2006	9,089.9	5,034.7	4,055.2	1,047.7	21,156.0	21,102.0	54.0	5,602.9	6,332.1	7,702.6	50,931.1
2007	8,702.9	5,068.1	3,634.8	131.1	22,002.4	21,971.0	31.4	5,322.6	6,483.3	8,276.7	50,918.9
2008	8,449.0	4,900.1	3,548.9	204.7	20,778.7	20,775.0	3.7	6,001.9	6,909.2	8,065.4	50,408.8
2009	8,852.1	5,190.3	3,661.8	102.7	22,498.6	22,498.6		5,975.0	6,920.4	8,273.0	52,621.7
2010	8,741.9	5,305.0	3,436.9	475.9	23,314.5	23,314.5		6,196.1	6,031.2	8,178.4	52,938.0
2011	8,325.9	5,699.7	2,626.2	160.5	23,107.1	23,106.7	0.4	6,292.7	5,845.6	10,041.5	53,773.3
2012	9,150.1	6,646.8	2,503.3	82.7	25,131.7	25,131.7		5,857.8	6,164.1	10,530.1	56,916.5
2013	9,853.3	4,786.7	5,066.6	694.9	25,524.9	25,524.8		6,680.1	5,939.6	10,087.1	58,779.8
2014	9,886.5	4,843.1	5,043.3	1,098.0	24,068.1	24,068.1		6,638.5	5,667.4	10,196.7	57,555.0

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2Y
Production of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	52,469.9	30,624.8	21,845.0	2,414.2	76,286.3	74,190.9	2,095.4	30,640.3	61,003.2	23,213.3	246,026.7
1991	53,524.5	33,076.9	20,447.5	1,726.6	82,620.8	80,222.1	2,398.7	31,982.7	61,821.7	31,315.8	262,991.7
1992	64,466.0	39,020.2	25,444.0	2,089.6	104,716.6	102,015.2	2,703.1	35,804.9	74,388.6	40,470.6	321,936.5
1993	79,322.6	42,084.1	37,238.4	2,147.1	125,344.3	121,828.9	3,515.3	40,002.5	81,671.3	45,758.0	374,244.8
1994	86,591.1	35,062.0	51,529.0	2,078.1	145,316.2	141,623.4	3,692.8	46,533.4	99,318.7	43,698.7	423,536.5
1995	106,521.7	38,727.3	67,794.3	1,947.2	173,590.6	170,020.1	3,570.4	54,079.3	103,402.7	54,301.6	493,843.7
1996	136,955.7	46,286.0	90,669.6	3,253.1	239,385.0	236,370.8	3,014.2	61,384.7	143,565.0	64,634.4	649,177.2
1997	162,317.4	49,621.4	112,695.9	2,114.3	297,640.8	295,155.9	2,486.5	65,667.9	149,951.7	80,139.4	757,834.2
1998	150,299.7	48,230.8	102,068.9	2,083.3	283,410.6	281,497.8	1,912.7	61,473.6	135,985.1	77,068.6	710,321.7
1999	148,738.5	47,607.0	101,131.5	6,094.9	274,939.3	272,680.1	2,259.1	70,978.8	135,592.2	85,896.6	722,239.6
2000	138,966.3	65,170.6	73,795.7	8,544.3	276,879.2	274,911.6	1,965.9	74,716.8	120,697.0	95,816.5	715,621.8
2001	143,494.8	71,190.8	72,304.0	10,175.5	287,417.0	285,554.2	1,862.7	73,015.7	111,929.1	109,396.0	735,430.2
2002	142,178.3	74,189.2	67,989.1	9,537.9	301,967.8	300,220.4	1,747.3	80,472.0	103,388.9	109,583.8	747,128.4
2003	148,879.8	80,339.3	68,538.8	12,122.7	330,588.5	328,786.0	1,802.4	73,362.0	105,043.2	115,098.1	785,095.4
2004	153,929.3	83,283.5	70,645.7	19,336.5	365,175.7	363,178.8	1,995.1	79,580.2	115,735.7	121,494.3	855,252.5
2005	159,098.4	87,471.6	71,626.8	17,609.4	358,478.6	357,029.4	1,450.9	83,344.6	106,368.3	133,288.3	858,187.7
2006	156,637.7	86,758.2	69,879.4	18,054.0	364,561.5	363,631.0	930.5	96,549.5	109,115.1	132,731.7	877,648.2
2007	149,968.9	87,333.8	62,635.1	2,259.1	379,146.7	378,605.7	541.0	91,719.3	111,720.6	142,624.6	877,438.7
2008	145,195.9	84,208.1	60,987.7	3,517.7	357,081.6	357,018.0	63.5	103,142.5	118,734.4	138,603.7	866,275.4
2009	152,539.9	89,439.5	63,100.3	1,769.7	387,697.3	387,697.3		102,961.5	119,252.7	142,560.8	906,782.1
2010	150,640.9	91,416.1	59,224.8	8,200.7	401,756.9	401,756.9		106,771.5	103,930.0	140,930.7	912,231.6
2011	143,472.4	98,217.6	45,254.8	2,765.7	398,183.0	398,176.1	6.8	108,436.2	100,731.7	173,035.7	926,625.8
2012	157,675.1	114,538.0	43,137.0	1,425.0	433,071.0	433,071.0		100,941.9	106,220.1	181,455.3	980,789.0
2013	169,792.7	82,484.7	87,307.9	11,974.5	439,846.7	439,845.0	.	115,111.9	102,351.5	173,821.5	1,012,898.9
2014	170,364.8	83,456.6	86,906.4	18,920.8	414,743.0	414,743.0		114,395.0	97,661.0	175,710.1	991,792.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1Y
Sale of Petroleum Products (Million Litres)

Unit : Million Litres

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	3,686.9	1,940.6	1,746.3	123.0	9,928.0	9,811.1	117.0	2,292.3	5,210.1	1,716.3	22,956.6
1991	3,890.4	2,005.1	1,885.3	111.3	9,950.6	9,811.1	139.5	2,467.9	6,113.7	1,844.8	24,378.7
1992	4,335.0	2,117.7	2,217.3	112.3	10,353.8	10,194.8	158.9	2,724.2	7,271.0	2,216.0	27,012.3
1993	4,911.8	2,163.9	2,747.9	107.5	12,033.3	11,833.7	199.6	2,898.6	8,026.8	2,415.6	30,393.4
1994	5,591.2	2,172.6	3,418.6	113.7	13,288.8	13,069.1	219.7	3,133.7	8,991.1	2,636.9	33,755.3
1995	6,293.3	2,206.2	4,087.1	100.9	15,619.1	15,424.1	194.9	3,294.5	9,722.4	2,847.6	37,877.7
1996	6,918.1	2,076.1	4,842.0	98.4	17,826.6	17,665.5	161.1	3,393.0	9,653.1	3,395.7	41,284.8
1997	7,355.3	1,973.0	5,382.3	85.9	17,535.2	17,387.8	147.4	3,542.7	9,094.4	3,512.0	41,125.4
1998	7,168.3	2,199.2	4,969.2	55.2	15,300.1	15,182.3	117.8	3,314.5	7,963.1	3,519.5	37,320.8
1999	7,025.6	2,340.1	4,685.4	52.0	15,307.1	15,171.7	135.4	3,297.7	7,955.6	3,585.4	37,223.3
2000	6,761.6	3,334.5	3,427.1	48.9	14,985.3	14,879.7	105.6	3,493.7	6,400.4	4,229.6	35,919.4
2001	6,857.1	3,856.0	3,001.0	56.6	15,236.2	15,131.4	104.8	3,717.4	4,585.2	4,757.7	35,210.1
2002	7,326.0	4,341.4	2,984.7	80.8	16,084.0	15,970.8	113.2	3,777.7	4,790.6	4,859.4	36,918.5
2003	7,635.1	4,550.3	3,084.8	35.8	17,564.6	17,465.1	99.5	3,761.3	5,015.6	5,064.7	39,077.2
2004	7,660.7	4,631.3	3,029.3	23.3	19,633.4	19,528.9	104.6	4,241.9	6,088.2	5,132.7	42,780.1
2005	7,248.1	4,362.1	2,886.0	21.3	19,607.9	19,530.7	77.2	4,292.7	6,227.1	5,738.7	43,135.6
2006	7,215.1	4,558.9	2,656.3	19.7	18,385.6	18,326.5	59.2	4,518.5	5,878.0	6,514.1	42,531.1
2007	7,336.8	4,711.6	2,625.2	18.2	18,711.5	18,678.8	32.8	4,931.8	4,248.2	7,621.9	42,868.4
2008	7,120.6	4,311.4	2,809.2	15.7	17,649.8	17,640.4	9.4	4,636.5	3,319.9	8,867.4	41,609.8
2009	7,524.4	4,291.6	3,232.8	17.6	18,474.7	18,474.7		4,431.5	2,761.5	9,643.7	42,853.3
2010	7,416.8	4,509.2	2,907.6	15.3	18,495.8	18,495.8		4,711.7	2,646.0	11,087.4	44,372.9
2011	7,331.1	4,936.8	2,394.3	13.0	19,205.8	19,205.8		5,076.5	2,481.5	12,758.9	46,866.8
2012	7,705.0	5,328.9	2,376.0	13.4	20,578.5	20,578.5		5,091.4	2,388.9	13,678.1	49,455.3
2013	8,194.9	3,445.8	4,749.1	11.0	20,907.4	20,907.4		5,562.4	2,175.1	13,934.7	50,785.5
2014	8,506.1	3,594.8	4,911.3	10.8	21,083.9	21,078.2	5.7	5,513.1	2,092.8	13,917.0	51,123.5

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.2-2Y
Sale of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	63,532.9	33,440.5	30,092.3	2,119.5	171,079.9	169,065.5	2,016.1	39,501.0	89,780.7	29,575.3	395,589.7
1991	67,039.6	34,552.0	32,487.6	1,917.9	171,469.3	169,065.5	2,403.8	42,527.0	105,351.6	31,789.7	420,095.9
1992	74,496.9	36,392.6	38,104.2	1,929.8	177,929.8	175,197.4	2,730.6	46,815.3	124,952.0	38,081.9	464,206.8
1993	84,640.4	37,288.4	47,351.9	1,852.4	207,358.6	203,919.0	3,439.5	49,948.8	138,318.3	41,625.7	523,742.4
1994	96,347.9	37,438.3	58,909.5	1,959.2	228,993.4	225,207.5	3,785.8	54,000.1	154,935.2	45,439.2	581,674.6
1995	108,446.5	38,017.3	70,429.1	1,738.7	269,149.3	265,789.0	3,358.5	56,771.0	167,537.0	49,070.0	652,712.3
1996	118,887.4	35,677.7	83,209.6	1,691.0	306,349.8	303,581.3	2,768.5	58,308.6	165,888.3	58,355.0	709,479.6
1997	126,747.0	33,998.8	92,748.1	1,480.2	302,167.7	299,627.7	2,540.0	61,048.0	156,715.2	60,519.0	708,675.8
1998	123,524.6	37,896.7	85,629.5	951.2	263,652.3	261,622.3	2,029.9	57,115.6	137,220.6	60,648.2	643,114.5
1999	121,065.5	40,324.7	80,739.1	896.0	263,772.9	261,439.7	2,333.2	56,826.1	137,091.4	61,783.8	641,435.6
2000	116,197.9	57,303.3	58,894.6	840.3	257,522.1	255,707.3	1,814.7	60,039.1	109,990.7	72,685.6	617,274.5
2001	118,161.9	66,446.8	51,713.4	975.3	262,551.1	260,745.2	1,805.9	64,058.4	79,012.4	81,984.9	606,743.4
2002	126,242.1	74,811.2	51,432.5	1,392.3	277,160.5	275,209.8	1,950.6	65,097.5	82,551.9	83,737.4	636,182.7
2003	131,568.5	78,411.0	53,157.4	616.9	302,674.3	300,959.7	1,714.5	64,814.9	86,429.1	87,275.2	673,380.8
2004	131,648.9	79,588.8	52,058.4	400.4	337,399.6	335,603.8	1,797.5	72,896.9	104,625.6	88,205.3	735,176.5
2005	124,899.7	75,167.9	49,731.7	367.0	337,884.6	336,554.2	1,330.3	73,972.0	107,305.7	98,889.6	743,316.8
2006	124,331.0	78,559.2	45,773.5	339.4	316,821.8	315,803.4	1,020.1	77,863.0	101,290.0	112,251.3	732,899.3
2007	126,428.2	81,190.5	45,237.6	313.6	322,437.7	321,874.2	565.2	84,985.0	73,205.2	131,341.0	738,711.7
2008	122,367.3	74,091.3	48,276.0	269.8	303,311.5	303,149.9	161.5	79,678.1	57,052.4	152,386.1	715,064.6
2009	129,660.9	73,953.1	55,707.8	303.2	318,357.2	318,357.2		76,363.8	47,586.3	166,180.8	738,452.1
2010	127,806.7	77,702.8	50,103.9	263.6	318,720.8	318,720.8		81,192.3	45,596.0	191,058.7	764,636.7
2011	126,329.9	85,071.2	41,258.7	224.0	330,955.5	330,955.5		87,478.5	42,761.3	219,862.1	807,613.1
2012	132,410.2	91,577.0	40,831.5	230.2	353,641.1	353,641.1		87,495.6	41,053.2	235,057.9	849,889.2
2013	141,215.0	59,378.2	81,836.8	189.5	360,277.6	360,277.6		95,851.6	37,481.4	240,123.6	875,139.1
2014	146,577.6	61,945.8	84,631.8	186.1	363,319.1	363,220.9	98.2	95,002.0	36,063.3	239,818.6	880,964.7

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including Propane and Butane

Table 2.3.3-1Y
Import of Petroleum Products (Million Litres)

Unit : Million Litres

Year	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	BASE ULG		Total	HSD	LSD				
1990	652.7	180.3	472.4			5,590.2	5,590.2		524.2	1,777.5	518.5	9,063.2
1991	802.5	105.2	697.3			5,161.7	5,161.7		580.7	2,664.9	191.2	9,400.9
1992	1,058.7	71.2	987.6			4,294.7	4,294.7		685.2	3,175.4	3.3	9,217.3
1993	938.8	109.3	829.6			5,382.6	5,382.6		655.5	3,350.1	81.4	10,408.4
1994	833.1	416.0	417.1			4,786.4	4,786.4		524.9	3,524.1	157.9	9,826.4
1995	653.2	289.1	364.1			5,815.9	5,815.9		192.1	3,745.8	76.1	10,482.9
1996	351.9	119.9	232.1			5,133.8	5,133.8		71.9	2,741.8	146.4	8,445.8
1997	68.1	47.7	20.5		37.2	2,005.5	2,005.5		23.2	945.9	3.6	3,083.4
1998	25.0	16.8	8.2			716.0	716.0		1.6	661.4	2.8	1,406.8
1999	51.8	18.7	33.1			1,084.5	1,084.5		4.0	929.1		2,069.4
2000	29.1	17.7	11.4			645.5	645.5		3.0	622.6		1,300.2
2001	144.2	144.2				321.7	321.7		3.6			469.4
2002	224.2	217.4	6.9			706.5	706.5		50.8			981.5
2003	139.3	139.3				605.3	605.3		42.5	210.9		997.9
2004	192.7	169.8	22.9			713.5	713.5		49.8	753.1	5.9	1,715.0
2005						719.4	719.4		2.6	1,442.8		2,164.7
2006						364.8	364.8		33.9	1,105.0		1,503.7
2007	162.1	135.2	26.9			191.0	191.0		42.8	536.3		932.1
2008						89.6	89.6		47.9	254.3	837.2	1,229.0
2009	14.1	14.1				385.3	385.3		10.5	83.2	1,404.9	1,897.9
2010						61.2	61.2		3.3	101.2	2,950.5	3,116.2
2011	34.1	18.5		15.6		56.0	56.0		10.8	331.7	2,821.8	3,254.3
2012	305.0	62.5	242.5			15.3	15.3		2.8	362.5	3,204.1	3,889.6
2013	262.2			262.2		196.7	196.7		16.2	268.4	3,651.2	4,394.7
2014	884.3	5.5		878.8		348.1	348.1		4.2	370.8	3,887.4	5,494.7

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including Propane and Butane

Table 2.3.3-2Y
Import of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Year	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	BASE ULG		Total	HSD	LSD				
1990	11,247.3	3,106.9	8,140.4			96,330.6	96,330.6		9,033.0	30,629.9	8,934.8	156,178.0
1991	13,828.7	1,812.8	12,015.9			88,946.7	88,946.7		10,006.6	45,921.7	3,294.7	161,997.6
1992	18,193.7	1,223.5	16,971.8			73,804.3	73,804.3		11,775.1	54,569.1	56.7	158,399.4
1993	16,177.4	1,883.4	14,295.7			92,753.3	92,753.3		11,295.6	57,729.1	1,402.6	179,359.2
1994	14,356.0	7,168.5	7,187.4			82,479.5	82,479.5		9,045.1	60,727.5	2,720.9	169,330.2
1995	11,255.9	4,981.7	6,274.1			100,219.9	100,219.9		3,310.2	64,547.8	1,311.3	180,643.5
1996	6,047.3	2,060.4	3,988.6			88,224.2	88,224.2		1,235.6	47,117.7	2,515.8	145,142.4
1997	1,173.5	821.9	353.2		641.0	34,558.9	34,558.9		399.7	16,299.8	62.0	53,134.2
1998	430.8	289.4	141.3			12,338.1	12,338.1		27.5	11,397.2	48.2	24,242.8
1999	892.6	322.2	570.3			18,688.1	18,688.1		68.9	16,010.3		35,661.3
2000	500.0	304.1	195.9			11,092.9	11,092.9		51.5	10,699.3		22,343.9
2001	2,484.8	2,484.8				5,543.5	5,543.5		62.0			8,089.8
2002	3,863.4	3,746.2	118.9			12,174.4	12,174.4		875.3			16,913.0
2003	2,400.4	2,400.4				10,430.5	10,430.5		732.3	3,634.2		17,197.1
2004	3,311.5	2,918.0	393.5			12,261.4	12,261.4		855.8	12,942.0	101.3	29,472.5
2005						12,396.7	12,396.7		44.8	24,862.4		37,302.8
2006						6,286.2	6,286.2		584.1	19,041.4		25,911.9
2007	2,793.3	2,329.7	463.5			3,291.3	3,291.3		737.5	9,241.5		16,062.7
2008						1,539.7	1,539.7		823.1	4,370.1	14,387.2	21,120.3
2009	242.9	242.9				6,639.5	6,639.5		180.9	1,433.7	24,209.3	32,706.2
2010						1,054.6	1,054.6		56.8	1,743.8	50,843.2	53,698.9
2011	587.6	318.7		268.8		964.9	964.9		186.1	5,715.8	48,625.4	56,079.0
2012	5,241.4	1,074.0		4,167.3		262.9	262.9		48.1	6,229.5	55,062.4	66,843.2
2013	4,518.2			4,518.2		3,389.5	3,389.5		279.1	4,625.0	62,917.7	75,730.9
2014	15,238.3	94.7		15,143.5		5,998.4	5,998.4		72.3	6,389.6	66,987.9	94,685.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including Propane and Butane

Table 2.3.4-1Y
Export of Petroleum Products (Million Litres)

Unit : Million Litres

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	9.3	8.5	0.8		14.5	14.5					23.7
1991	16.7	16.0	0.7		17.4	17.4		0.3		0.2	34.5
1992	105.6	104.5	1.1		23.3	23.3		6.2		59.4	194.5
1993	304.2	301.5	2.7	0.3	54.1	54.1		7.2	19.5	87.2	472.5
1994	239.4	235.1	4.2	0.4	71.2	71.2		9.6	25.5	27.0	373.0
1995	274.0	255.8	18.2	0.3	87.3	87.3		13.6	44.5	187.9	607.5
1996	1,236.8	705.3	531.5	39.1	1,071.1	1,071.1		195.4	1,014.8	364.5	3,921.5
1997	1,948.7	935.0	1,013.6	13.7	1,953.1	1,953.1		277.5	715.2	873.6	5,781.7
1998	1,716.1	635.8	1,080.3	26.3	2,203.2	2,203.2		236.8	199.4	873.3	5,255.0
1999	1,708.5	486.3	1,222.3	302.2	1,976.0	1,976.0		820.8	330.8	1,346.1	6,484.3
2000	1,102.3	329.9	772.4	391.7	1,676.8	1,676.8		816.4	769.3	1,240.5	5,996.9
2001	1,480.6	382.8	1,097.8	394.7	1,646.2	1,642.8	3.5	487.8	1,503.6	1,403.3	6,916.2
2002	1,230.4	220.9	1,009.5	318.5	2,331.6	2,331.6		920.7	766.8	1,269.9	6,837.8
2003	1,108.3	251.1	857.3	109.4	2,148.2	2,148.2		558.0	779.9	1,426.1	6,129.8
2004	1,359.5	316.5	1,043.0	58.9	2,381.6	2,381.6		367.1	1,078.3	1,648.6	6,893.9
2005	2,021.9	738.5	1,283.4	3.8	1,809.0	1,809.0		599.3	903.4	1,755.3	7,092.7
2006	1,921.9	514.4	1,407.5	34.0	2,940.5	2,940.5		1,017.3	1,418.6	1,067.2	8,399.3
2007	1,578.9	543.2	1,035.7	37.2	2,689.5	2,689.5		449.0	2,478.0	514.0	7,746.6
2008	1,478.4	648.0	830.4	108.6	3,806.3	3,806.3		1,346.8	3,624.3	39.3	10,403.6
2009	1,351.1	903.9	447.2	19.0	4,796.5	4,796.5		1,609.3	3,878.0	27.8	11,681.6
2010	1,341.8	801.8	539.9	426.1	5,505.3	5,505.3		1,404.5	3,234.0	45.7	11,957.3
2011	968.7	730.3	238.4	106.8	4,705.5	4,705.5		1,201.5	3,482.9	29.9	10,495.1
2012	1,569.6	1,468.2	101.4	31.5	5,371.3	5,371.3		752.5	3,854.2	18.4	11,597.5
2013	1,634.4	1,369.5	264.9	19.2	4,874.3	4,874.3		1,536.6	3,774.3	11.2	11,850.0
2014	1,339.7	1,205.7	134.0	29.8	4,316.9	4,316.9		1,296.6	3,835.9	18.5	10,837.4

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2Y
Export of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Year	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
1990	160.2	146.4	13.7		249.8	249.8					409.3
1991	287.7	275.7	12.0		299.8	299.8		5.1		3.4	595.5
1992	1,814.7	1,795.8	18.9		400.4	400.4		106.5		1,020.7	3,342.5
1993	5,241.9	5,195.4	46.5	5.1	932.2	932.2		124.0	336.0	1,502.6	8,142.2
1994	4,125.3	4,051.2	72.3	6.8	1,226.9	1,226.9		165.4	439.4	465.2	6,428.9
1995	4,721.5	4,407.9	313.6	5.1	1,504.3	1,504.3		234.3	766.8	3,237.9	10,468.9
1996	21,254.3	12,120.5	9,133.8	671.9	18,406.8	18,406.8		3,357.9	17,439.3	6,263.9	67,391.3
1997	33,580.1	16,111.9	17,466.4	236.0	33,655.9	33,655.9		4,781.8	12,324.3	15,053.9	99,631.5
1998	29,571.9	10,956.1	18,615.8	453.2	37,965.6	37,965.6		4,080.5	3,436.0	15,048.7	90,555.1
1999	29,440.9	8,379.9	21,062.7	5,207.5	34,050.5	34,050.5		14,144.0	5,700.3	23,196.0	111,739.2
2000	18,943.0	5,669.3	13,273.6	6,731.3	28,815.7	28,815.7		14,029.8	13,220.4	21,317.9	103,056.6
2001	25,513.7	6,596.4	18,917.3	6,801.4	28,367.4	28,308.8	60.3	8,405.8	25,910.1	24,181.7	119,180.4
2002	21,202.3	3,806.5	17,395.7	5,488.4	40,178.2	40,178.2		15,865.5	13,213.5	21,882.9	117,830.0
2003	19,098.2	4,326.9	14,773.0	1,885.1	37,017.9	37,017.9		9,615.4	13,439.2	24,574.6	105,630.5
2004	23,362.9	5,439.0	17,923.9	1,012.1	40,927.7	40,927.7		6,308.6	18,530.5	28,331.1	118,471.6
2005	34,841.5	12,725.8	22,115.6	65.4	31,172.8	31,172.8		10,327.1	15,567.4	30,247.4	122,222.5
2006	33,118.3	8,864.1	24,254.1	585.8	50,670.8	50,670.8		17,530.1	24,445.4	18,390.0	144,738.6
2007	27,207.7	9,360.4	17,847.2	641.0	46,345.6	46,345.6		7,737.1	42,701.0	8,857.2	133,490.1
2008	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2	65,411.2		23,144.7	62,283.5	675.3	178,786.3
2009	23,282.2	15,576.0	7,706.1	327.4	82,653.6	82,653.6		27,731.5	66,825.9	479.0	201,298.1
2010	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6	94,867.6		24,202.4	55,728.4	787.5	206,049.7
2011	16,692.7	12,584.5	4,108.1	1,840.3	81,085.4	81,085.4		20,704.3	60,017.5	515.2	180,852.4
2012	26,973.5	25,230.9	1,742.5	541.3	92,305.6	92,305.6		12,931.6	66,234.3	316.2	199,304.3
2013	28,164.0	23,599.3	4,564.7	330.8	83,994.2	83,994.2		26,478.7	65,038.9	192.9	204,200.9
2014	23,085.7	20,776.7	2,309.0	513.5	74,389.1	74,389.1		22,343.0	66,100.4	318.7	186,751.2

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1Y
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Year	Crude Oil Balance				Oil Products			Oil Products					Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
1990	43,238	210,001		240,803	250,755	158,052	408,808	411,876	63,533	171,080	177,262	415	412,291
1991	46,256	220,739		248,626	268,647	164,190	432,837	437,149	67,038	171,469	198,640	760	437,909
1992	52,846	277,501		305,631	343,165	161,172	504,338	485,489	74,496	177,929	233,063	10,240	495,730
1993	53,718	323,859		357,718	399,453	185,519	584,972	548,503	84,640	207,358	256,504	16,488	564,991
1994	57,167	372,885	683	414,020	449,449	180,554	630,004	605,282	96,347	228,993	279,940	11,831	617,113
1995	53,727	452,114	3,495	485,490	524,431	193,276	717,707	676,847	108,446	269,148	299,252	18,448	695,296
1996	62,057	633,170	8,212	659,005	692,378	157,980	850,358	749,315	118,886	306,349	324,078	77,036	826,351
1997	72,263	728,757	9,803	767,460	807,783	76,958	884,742	799,152	126,747	302,167	370,237	103,970	903,123
1998	75,760	679,728	10,281	722,670	762,154	40,115	802,270	728,204	123,525	263,652	341,026	93,930	822,135
1999	83,636	698,895	10,620	742,951	796,172	55,450	851,622	763,152	121,065	263,773	378,313	121,228	884,380
2000	110,157	673,133	36,885	750,504	823,606	93,515	917,121	742,511	116,198	257,522	368,790	122,707	865,218
2001	113,760	712,400	38,189	756,580	843,491	75,722	919,213	727,748	118,161	262,551	347,035	138,653	866,401
2002	129,291	728,532	51,411	828,227	856,359	68,800	925,159	759,070	126,242	277,160	355,667	135,555	894,626
2003	158,985	775,870	66,799	846,974	906,899	68,884	975,783	804,962	131,569	302,674	370,718	126,489	931,451
2004	153,719	869,924	58,400	926,625	931,303	78,228	1,009,532	857,813	131,648	337,400	388,764	140,161	997,975
2005	183,377	827,701	65,580	909,884	917,400	79,278	996,678	861,073	124,899	337,883	398,289	137,029	998,102
2006	204,199	829,300	65,441	926,343	939,972	72,097	1,012,069	848,643	124,331	316,822	407,489	171,896	1,020,539
2007	213,408	804,242	52,045	921,645	950,133	54,516	1,004,650	846,581	126,427	322,438	397,715	169,540	1,016,121
2008	228,828	811,560	45,863	926,536	971,859	38,980	1,010,840	807,409	122,368	303,311	381,729	210,711	1,018,121
2009	237,941	803,361	41,066	937,740	1,031,879	44,763	1,076,642	830,170	129,660	318,357	382,153	240,405	1,070,576
2010	241,801	816,201	29,956	962,831	1,069,144	84,723	1,153,868	883,839	127,806	318,720	437,313	241,321	1,125,161
2011	224,127	794,226	32,502	936,837	1,110,405	97,941	1,208,346	931,072	126,330	330,955	473,787	222,204	1,153,277
2012	238,616	860,211	41,036	977,521	1,168,985	113,491	1,282,477	988,769	132,409	353,641	502,718	259,094	1,247,863
2013	240,639	868,040	25,284	1,077,966	1,368,771	134,921	1,503,692	1,015,952	141,214	360,277	514,460	265,886	1,281,839
2014	233,087	804,911	6,684	1,028,835	1,414,464	185,362	1,599,827	1,037,204	146,577	363,319	527,307	252,931	1,290,136

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total Supply	**1,007**	**1,085**	**1,273**	**1,478**	**1,455**	**1,743**	**2,110**	**2,513**	**2,417**	**2,692**	**3,011**	**3,428**	**3,434**
- Production	727	981	1,272	1,434	1,369	1,702	2,031	2,511	2,415	2,692	3,011	3,428	3,434
GSP	520	778	965	1,043	915	978	1,070	1,170	1,186	1,232	1,401	1,785	1,850
Refinery	207	203	307	391	455	673	888	1,002	924	1,083	1,283	1,480	1,421
Others						52	73	340	305	377	327	164	163
- Import	280	103	2	44	85	41	79	2	2				
Total Demand	**927**	**996**	**1,229**	**1,351**	**1,439**	**1,639**	**2,031**	**2,368**	**2,372**	**2,663**	**2,954**	**3,339**	**3,310**
- Consumption	927	996	1,197	1,304	1,424	1,538	1,834	1,896	1,901	1,936	2,284	2,569	2,624
Cooking	717	717	787	864	953	1,056	1,171	1,225	1,130	1,206	1,348	1,430	1,468
Industry	108	125	156	176	206	240	268	281	272	318	319	335	399
Automobile	102	154	169	160	139	128	134	112	93	91	162	248	229
Feedstock			85	103	126	114	260	278	406	322	455	556	528
Own Used													
- Feedstock													
- Energy													
- Export			32	47	15	101	197	472	472	727	670	770	686
Balance (Supply-Demand)	**81**	**88**	**45**	**126**	**16**	**104**	**80**	**145**	**45**	**29**	**57**	**89**	**124**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including own used as feedstock of IRPC and PTTGC

Table 2.4-2Y (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total Supply	**3,607**	**3,821**	**4,177**	**4,159**	**4,469**	**4,807**	**5,226**	**6,010**	**6,946**	**7,416**	**7,419**	**7,605**
- Production	3,607	3,818	4,177	4,159	4,469	4,355	4,467	4,416	5,422	5,686	5,447	5,506
GSP	1,918	1,960	2,397	2,357	2,667	2,664	2,695	2,676	3,428	3,716	3,524	3,651
Refinery	1,478	1,650	1,581	1,585	1,567	1,688	1,770	1,730	1,994	1,971	1,923	1,855
Others	211	208	199	218	236	3	2	10				
- Import		3				452	759	1,593	1,524	1,730	1,972	2,099
Total Demand	**3,505**	**3,662**	**4,047**	**4,094**	**4,393**	**4,810**	**5,223**	**6,012**	**6,906**	**7,396**	**7,531**	**7,525**
- Consumption	2,735	2,772	3,099	3,518	4,116	4,788	5,208	5,987	6,890	7,386	7,525	7,515
Cooking	1,502	1,513	1,604	1,721	1,884	2,124	2,231	2,435	2,656	3,047	2,409	2,188
Industry	435	450	459	521	611	665	593	778	718	614	602	577
Automobile	210	225	303	459	572	776	666	680	920	1,061	1,775	1,974
Feedstock	588	584	711	698	798	759	1,056	1,527	2,113	1,285	1,327	1,546
Own Used			22	119	251	466	662	567	483	1,380	1,412	1,231
- Feedstock			22	69	170	335	422	354	353	1,270	1,314	1,129
- Energy				49	81	130	240	213	131	110	98	102
- Export	770	890	948	576	278	21	15	25	16	10	6	10
Balance (Supply-Demand)	**102**	**159**	**130**	**65**	**76**	**-2**	**3**	**-2**	**40**	**20**	**-112**	**80**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including own used as feedstock of IRPC and PTTGC

Table 2.1.1-1M
Production of Crude Oil

Unit : Barrels/Day

Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
2010												
Jan	5,234	6,846	6,361	34,065	23,634	7,265	4,136	15,015	4,056	27,144	16,191	149,947
Feb	5,129	6,221	6,726	38,536	22,534	5,927	5,741	15,011	4,030	26,722	17,003	153,580
Mar	6,744	6,171	8,375	38,141	22,022	6,758	5,447	14,489	3,885	29,463	15,284	156,779
Apr	5,185	4,930	9,757	41,735	22,580	5,937	3,542	14,349	3,701	28,977	10,599	151,292
May	3,235	10,210	7,793	42,447	21,846	6,036	3,890	14,839	3,252	28,164	16,445	158,157
Jun	3,409	10,814	7,305	44,373	22,751	6,240	3,764	15,464	3,290	29,187	19,115	165,712
Jul	2,599	10,465	9,133	42,743	22,978	5,399	2,847	14,099	3,368	28,746	20,768	163,145
Aug	2,323	10,818	11,772	38,771	22,464	6,513	3,003	13,384	4,104	26,392	22,366	161,910
Sep	2,966	9,310	10,473	33,902	20,786	9,731	3,768	13,314	4,446	24,883	25,803	159,382
Oct	2,569	9,248	7,849	28,711	18,534	8,825	3,166	12,221	4,622	23,650	24,105	143,500
Nov	3,225	7,333	4,461	34,903	21,609	5,648	3,409	11,164	4,336	23,804	22,812	142,704
Dec	2,380	7,322	4,997	26,018	20,039	5,946	3,762	13,142	3,622	22,857	22,140	132,225
YTD	**3,739**	**8,327**	**7,926**	**36,998**	**21,808**	**6,689**	**3,860**	**13,868**	**3,891**	**26,665**	**19,403**	**153,174**
2011												
Jan	2,934	6,847	7,593	28,536	20,427	3,103	4,546	12,387	5,139	28,710	16,947	137,169
Feb	2,562	6,177	8,499	29,204	18,794	2,562	5,127	13,381	4,830	25,103	18,100	134,339
Mar	3,147	6,274	8,852	27,046	22,652	3,267	4,992	13,732	3,730	27,755	16,177	137,624
Apr	2,316	5,390	7,732	27,465	24,224	2,267	4,587	13,408	4,396	29,947	13,908	135,640
May	2,318	5,220	6,660	37,797	24,566	2,403	6,643	12,840	5,869	28,337	15,043	147,696
Jun	2,506	7,695	7,233	37,000	25,386	2,187	6,252	12,423	5,286	25,714	14,476	146,158
Jul	1,991	8,260	5,800	31,291	24,366	2,465	6,136	12,715	5,048	27,248	12,410	137,730
Aug	990	10,027	10,903	31,846	25,286	2,589	5,695	12,732	4,582	26,266	11,397	142,313
Sep	1,996	10,508	13,993	26,868	24,117	2,361	4,167	12,665	4,138	26,603	15,692	143,108
Oct	1,461	9,128	14,775	28,924	15,094	1,996	4,864	12,350	4,010	26,005	13,007	131,614
Nov	1,906	8,115	13,788	30,582	25,515	2,025	6,296	12,781	5,251	26,935	13,314	146,508
Dec	1,913	7,943	11,607	31,000	25,096	2,438	5,787	11,792	3,203	26,133	12,909	139,821
YTD	**2,167**	**7,641**	**9,787**	**30,643**	**22,974**	**2,474**	**5,428**	**12,762**	**4,620**	**27,077**	**14,419**	**139,991**
2012												
Jan	2,493	7,484	18,439	27,218	25,080	2,124	3,828	11,274	3,629	22,851	17,180	141,600
Feb	2,215	7,413	22,121	29,107	26,766	1,798	3,905	11,112	5,055	28,518	20,247	158,257
Mar	1,978	6,819	22,601	33,048	27,235	1,552	3,632	9,805	4,982	31,970	20,588	164,210
Apr	1,691	5,557	21,705	30,576	27,757	1,506	3,534	9,735	4,720	29,840	18,426	155,047
May	1,080	6,729	18,854	19,968	28,274	1,354	3,129	8,934	4,441	28,966	15,591	137,320
Jun	1,898	7,355	17,511	25,333	27,638	1,253	3,573	8,655	3,513	30,281	19,293	146,303
Jul	1,708	7,169	20,152	27,966	28,584	1,137	3,325	8,391	2,952	22,935	20,923	145,242
Aug	1,225	7,298	18,905	29,066	28,630	1,180	3,403	9,915	3,388	23,342	19,579	145,931
Sep	1,695	6,912	19,828	26,609	28,752	1,180	3,978	11,789	2,991	24,129	18,571	146,434
Oct	1,691	7,598	18,321	29,628	28,873	1,178	4,177	12,576	2,647	17,684	17,325	141,698
Nov	1,153	7,946	20,484	29,302	29,918	1,014	3,750	11,541	3,010	24,182	20,349	152,649
Dec	1,587	8,105	19,823	31,559	33,479	1,236	4,748	11,221	2,959	20,989	18,070	153,776
YTD	**1,699**	**7,200**	**19,883**	**28,281**	**28,423**	**1,375**	**3,748**	**10,408**	**3,685**	**25,439**	**18,834**	**148,977**

Table 2.1.1-1M (Cont.)
Production of Crude Oil

Unit : Barrels/Day

Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
2013												
Jan	1,506	10,276	19,823	31,911	32,910	1,404	4,135	10,221	3,427	20,693	17,755	154,061
Feb	1,382	10,825	20,507	32,797	34,266	1,244	3,336	10,002	3,052	21,777	17,778	156,966
Mar	1,822	10,620	21,506	31,139	34,586	1,158	3,637	10,993	2,921	22,286	17,438	158,106
Apr	1,752	12,042	22,763	28,945	35,774	1,079	3,141	10,750	2,591	22,461	16,704	158,002
May	1,411	14,654	20,529	39,403	33,286	1,072	2,583	9,971	2,429	14,507	14,998	154,843
Jun	561	14,003	20,011	30,578	33,351	1,091	2,244	11,178	2,353	21,441	16,124	152,935
Jul	340	13,267	20,290	20,035	32,275	1,095	2,189	10,681	2,318	20,295	15,167	137,952
Aug	1,004	12,565	20,601	29,918	32,713	1,279	2,660	10,137	2,184	19,238	14,697	146,996
Sep	1,251	13,233	20,270	31,233	32,640	1,286	2,343	10,099	2,385	16,016	12,270	143,026
Oct	946	11,620	20,143	28,897	32,928	1,215	3,066	10,899	2,550	23,163	15,287	150,714
Nov	1,203	12,429	18,596	26,518	31,121	1,152	2,200	10,319	3,176	23,165	9,552	139,431
Dec	1,189	12,206	18,856	26,645	28,990	1,161	1,534	10,459	3,566	22,906	13,808	141,320
YTD	**1,196**	**12,317**	**20,322**	**29,816**	**32,889**	**1,186**	**2,754**	**10,478**	**2,745**	**20,652**	**15,126**	**149,481**
2014												
Jan	1,154	292	17,762	28,511	29,475	1,089	1,468	10,652	2,967	21,798	16,276	131,444
Feb	1,177	8,967	16,270	26,420	29,943	1,014	1,678	9,955	2,959	26,267	14,556	139,206
Mar	1,560	13,968	15,770	24,741	23,135	2,613	1,386	9,846	4,446	27,389	15,039	139,893
Apr	1,888	13,018	15,544	26,078	28,197	3,598	991	9,437	5,706	26,441	15,333	146,231
May	1,353	9,913	14,189	23,664	29,876	4,271	1,744	9,472	5,040	25,250	16,443	141,215
Jun	1,220	13,163	14,544	23,823	28,437	4,012	1,766	9,674	4,242	21,995	15,004	137,880
Jul	744	13,340	14,140	21,807	28,219	4,108	1,193	6,456	2,664	22,015	15,080	129,766
Aug	742	14,243	13,781	24,114	26,316	4,095	1,451	10,412	3,645	22,260	16,690	137,749
Sep	1,092	15,437	13,353	21,626	28,803	4,182	2,074	10,605	4,106	20,540	17,524	139,342
Oct	1,781	15,240	12,642	18,551	28,726	4,171	1,761	10,169	4,193	16,361	15,182	128,777
Nov	960	16,715	11,385	26,480	27,466	4,378	2,075	10,702	3,918	19,559	23,447	147,085
Dec	493	15,588	12,296	23,079	27,010	5,359	2,161	10,226	3,646	22,359	24,830	147,047
YTD	**1,179**	**12,496**	**14,297**	**24,051**	**27,948**	**3,590**	**1,645**	**9,796**	**3,963**	**22,663**	**17,130**	**138,758**

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2M
Production of Condensate

Unit : Barrels/Day

Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
2010												
Jan	20,493	11,964	1,418	2,719	5,169	424	3,176	19,886	16,604	424	554	82,831
Feb	22,722	10,912	1,046	2,595	3,864	384	3,051	17,283	19,533	532	307	82,229
Mar	25,100	12,312	1,980	3,601	3,769	520	4,693	20,384	20,422	359	502	93,642
Apr	21,198	12,889	2,835	1,958	3,045	429	5,966	19,509	16,829	162	182	85,002
May	21,225	10,794	5,024	3,510	1,998	486	6,050	20,097	17,464	881	429	87,958
Jun	21,034	10,887	4,617	1,529	2,472	385	7,729	20,682	17,598	4,125	66	91,124
Jul	22,135	11,643	4,811	2,375	2,227	415	8,044	19,744	17,682	2,734		91,810
Aug	23,374	11,146	4,301	2,871	1,424	422	9,175	20,014	13,392	2,621		88,740
Sep	23,291	11,000	5,457	2,750	1,863	342	8,830	16,858	16,088	2,267		88,746
Oct	23,953	9,908	5,290	2,969	1,639	421	8,832	20,124	17,439	1,435		92,010
Nov	21,848	9,876	4,562	3,233	1,350	448	7,947	19,437	19,160	1,698		89,559
Dec	22,798	10,801	3,942	2,588	1,491	451	7,065	20,525	18,065	1,529		89,255
YTD	**22,435**	**11,180**	**3,789**	**2,730**	**2,519**	**428**	**6,733**	**19,568**	**17,508**	**1,567**	**170**	**88,627**
2011												
Jan	26,038	10,861	3,344	2,224	2,426	413	6,559	19,737	17,450	1,755		90,807
Feb	26,198	11,842	2,263	1,956	4,945	426	5,726	21,179	19,058	1,224	44	94,861
Mar	24,486	11,787	3,743	2,958	6,479	368	5,679	21,513	19,419	1,391	2	97,825
Apr	23,369	11,064	3,006	2,903	6,086	514	5,417	21,372	15,383	1,572	22	90,708
May	14,144	11,748	3,299	3,104	5,993	485	5,075	21,315	17,404	1,320	1,594	85,481
Jun	13,033	10,418	2,092	1,893	5,830	486	4,398	20,769	18,170	720	1,261	79,070
Jul	16,677	7,025	1,797	2,311	4,483	428	3,691	21,140	16,315	856	988	75,711
Aug	16,914	11,136	2,873	2,818	3,370	466	6,735	19,404	14,972	740	752	80,180
Sep	14,234	10,581	3,493	2,590	2,889	232	6,818	20,573	14,822	1,323	949	78,504
Oct	15,343	10,688	3,127	2,662	3,082	278	6,667	20,270	13,967	1,010	835	77,929
Nov	13,033	9,673	2,701	2,905	2,571	213	5,016	18,858	12,873	1,584	8,388	77,815
Dec	13,619	9,668	2,822	3,103	4,361	249	4,320	20,582	10,146	1,010	11,567	81,447
YTD	**18,048**	**10,531**	**2,886**	**2,625**	**4,372**	**380**	**5,508**	**20,556**	**15,811**	**1,208**	**2,213**	**84,136**
2012												
Jan	12,262	9,463	2,587	3,316	3,438	445	4,952	20,422	9,344	1,485	12,973	80,687
Feb	11,746	9,861	2,708	3,320	2,527	262	7,410	19,558	10,238	1,144	10,025	78,799
Mar	12,285	10,192	2,639	4,081	2,180	382	7,652	23,010	9,703	1,322	11,537	84,983
Apr	11,743	10,286	2,855	4,145	2,571	370	6,646	23,985	12,460	1,154	11,019	87,234
May	12,184	10,059	2,217	3,003	4,635	541	5,713	22,903	9,002	938	14,773	85,968
Jun	10,744	10,286	1,831	3,137	5,065	502	5,861	20,936	11,503	2,404	14,494	86,763
Jul	11,242	10,520	1,523	5,175	3,163	547	8,146	33,893	11,431	1,414	9,850	96,904
Aug	13,760	6,100	1,532	3,542	1,957	400	9,774	33,421	12,705	698	9,319	93,208
Sep	12,158	7,630	1,873	5,110	3,685	300	9,410	32,859	10,238	1,211	10,059	94,533
Oct	11,123	7,982	3,124	4,939	4,489	323	7,250	32,846	9,951	1,518	12,468	96,013
Nov	11,681	8,550	2,482	3,867	4,085	591	12,017	30,875	10,001	2,234	11,620	98,003
Dec	11,357	7,450	2,769	3,162	3,630	541	9,323	33,076	10,047	1,567	9,211	92,133
YTD	**11,861**	**9,025**	**2,344**	**3,901**	**3,453**	**435**	**7,842**	**27,359**	**10,548**	**1,422**	**11,450**	**89,639**

Table 2.1.1-2M (Cont.)
Production of Condensate

Unit : Barrels/Day

Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
2013												
Jan	11,914	8,781	2,209	2,150	4,281	514	8,346	34,091	10,155	1,752	12,388	96,581
Feb	11,500	6,734	3,069	2,832	3,372	535	9,277	34,569	9,848	1,461	13,987	97,184
Mar	12,455	7,185	2,444	3,293	2,021	529	10,341	34,335	8,847	1,185	10,769	93,404
Apr	12,486	7,442	2,099	3,150	2,036	563	10,029	34,082	9,196	1,294	9,379	91,756
May	14,085	6,686	2,033	3,303	2,123	526	9,974	35,052	8,430	1,432	13,938	97,582
Jun	10,467	5,347	2,095	2,995	3,535	477	7,774	29,757	9,824	2,325	15,062	89,658
Jul	11,413	4,705	2,095	2,242	3,246	369	7,966	32,471	9,916	3,517	18,687	96,627
Aug	11,217	4,464	1,356	2,009	3,421	204	7,154	27,779	9,465	3,803	14,041	84,913
Sep	11,193	4,962	1,307	1,765	1,547	199	5,889	30,689	9,022	2,807	13,431	82,811
Oct	10,959	3,879	1,548	1,353	2,632	238	6,311	33,247	9,315	3,016	16,406	88,904
Nov	9,750	4,841	1,904	2,352	924	291	4,237	33,689	8,875	5,366	18,650	90,879
Dec	7,356	5,387	923	2,982	1,738	86	4,822	30,148	7,932	5,026	17,481	83,881
YTD	**11,234**	**5,863**	**1,915**	**2,533**	**2,573**	**376**	**7,671**	**32,480**	**9,230**	**2,757**	**14,527**	**91,159**
2014												
Jan	9,496	5,776	1,909	4,106	1,313	455	4,412	31,383	8,708	4,208	18,275	90,041
Feb	9,689	6,122	2,981	2,860	1,298	493	5,298	32,342	9,078	4,393	19,537	94,091
Mar	9,910	7,615	1,971	1,845	2,853	541	5,202	31,659	10,040	4,349	17,827	93,812
Apr	10,943	7,045	2,607	1,847	3,151	484	6,014	19,149	9,313	3,571	17,341	81,465
May	10,654	6,611	2,675	4,292	3,771	553	5,379	30,699	9,025	3,874	24,579	102,112
Jun	11,811	7,032	3,764	3,946	4,021	556	6,927	32,267	7,638	3,172	20,678	101,812
Jul	11,066	7,237	2,816	5,035	3,670	483	6,192	28,519	9,184	3,169	20,688	98,059
Aug	9,903	7,753	2,609	4,195	2,562	242	5,571	29,743	10,104	2,356	19,578	94,616
Sep	9,832	7,070	3,404	5,378	2,061	133	7,182	29,224	10,163	2,674	18,009	95,130
Oct	12,005	7,228	3,117	6,176	1,084	391	9,432	28,063	9,101	2,007	18,769	97,373
Nov	11,698	6,286	2,531	4,608	929	390	10,610	26,556	10,642	2,407	16,704	93,361
Dec	9,284	5,247	2,178	3,060	1,612	322	9,942	26,988	9,812	1,779	19,657	89,881
YTD	**10,525**	**6,756**	**2,707**	**3,955**	**2,367**	**420**	**6,850**	**28,877**	**9,403**	**3,155**	**19,314**	**94,330**

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning office (EPPO)

Table 2.1.2-1M
Import of Crude Oil Classified by Sources

Unit : Million Litres

2010													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,863	2,990	2,821	3,074	2,637	2,960	2,788	2,906	2,740	2,703	3,047	3,023	34,553
Far East	426	640	326	433	292	198	360	372	175	48	121	433	3,825
Others	528	114	479	1,020	718	1,008	705	781	869	909	898	958	8,987
Total	**3,816**	**3,744**	**3,627**	**4,528**	**3,647**	**4,166**	**3,853**	**4,059**	**3,785**	**3,661**	**4,065**	**4,414**	**47,365**
2011													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,277	2,098	3,071	2,962	3,546	2,658	3,111	3,741	2,976	3,213	2,981	3,092	35,725
Far East	475	101	94	515	245	252	287	436	272	261	495	283	3,716
Others	1,045	1,009	712	671	631	718	655	328	380	67	185	250	6,648
Total	**3,797**	**3,207**	**3,877**	**4,148**	**4,422**	**3,627**	**4,053**	**4,505**	**3,628**	**3,541**	**3,661**	**3,625**	**46,090**
2012													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,537	3,166	3,484	3,165	2,773	3,362	2,748	3,127	2,628	3,344	2,892	3,234	37,460
Far East	257	440	509	320	385	38	206	252	315	450	342	508	4,022
Others	672	883	725	804	1,029	737	1,046	548	676	534	434	489	8,575
Total	**4,466**	**4,488**	**4,718**	**4,289**	**4,187**	**4,137**	**4,000**	**3,926**	**3,618**	**4,327**	**3,668**	**4,231**	**50,056**
2013													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,261	3,006	3,388	3,398	2,956	2,800	2,867	3,537	2,616	3,340	3,226	3,176	37,572
Far East	330	396	483	284	290	399	349	428	519	301	234	356	4,370
Others	919	529	711	645	716	693	610	810	515	702	1,036	545	8,431
Total	**4,510**	**3,932**	**4,582**	**4,328**	**3,961**	**3,893**	**3,826**	**4,774**	**3,650**	**4,344**	**4,496**	**4,078**	**50,374**
2014													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,996	2,804	2,119	2,424	2,977	2,230	1,856	2,834	2,843	2,365	3,055	2,500	31,002
Far East	367	138	358	415	485	185	317	452	316	402	555	527	4,517
Others	1,051	968	1,163	926	633	869	974	737	1,275	1,250	700	645	11,192
Total	**4,414**	**3,910**	**3,640**	**3,765**	**4,096**	**3,284**	**3,147**	**4,023**	**4,434**	**4,017**	**4,309**	**3,672**	**46,710**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1M
Material Intake by Refinery

Unit : Barrels/Day

Month	Fang	Thai Oil	Bangchak	ESSO	IRPC	PTTAR/PTTGC	SPRC	RPC	Total
2010									
Jan	1,541	230,660	78,691	130,239	168,489	141,955	181,355	8,518	941,449
Feb	1,380	269,505	91,246	102,927	159,426	129,906	153,656	11,475	919,520
Mar	1,283	264,759	98,340	121,060	182,762	149,534	170,033	12,164	999,936
Apr	1,136	250,187	74,041	122,232	172,553	152,223	164,437	13,297	950,107
May		249,128	88,107	132,047	173,021	152,507	158,966	11,948	965,724
Jun	839	256,714	87,841	129,206	170,686	150,123	162,414	1,237	959,060
Jul	1,481	256,916	88,802	117,338	177,610	151,848	177,453	11,864	983,313
Aug	1,633	268,415	90,074	127,237	161,807	153,217	159,737	12,159	974,278
Sep	1,398	254,286	91,928	121,071	174,892	138,450	160,876	11,870	954,771
Oct		268,634	95,061	131,349	174,863	151,560	133,143	11,352	965,963
Nov	641	251,130	88,715	125,550	179,407	146,732	170,822	10,967	973,963
Dec	1,501	245,801	89,930	136,755	180,486	136,176	159,333	11,286	961,270
YTD	**1,068**	**255,423**	**88,575**	**124,933**	**173,097**	**146,312**	**162,738**	**10,686**	**962,832**
2011									
Jan	1,460	287,972	95,283	135,083	162,917	152,795	167,755	12,283	1,015,547
Feb	1,363	286,860	7,356	139,085	172,167	18,301	147,734	12,398	785,264
Mar	660	282,488	109,430	131,887	170,985	87,831	147,809	12,434	943,524
Apr		258,684	106,372	133,866	165,957	140,242	156,500	12,372	973,992
May	912	257,711	90,380	134,102	187,303	148,524	149,717	12,160	980,808
Jun	1,155	276,239	101,468	134,094	152,103	151,224	148,682	8,874	973,839
Jul	1,270	263,467	98,523	133,659	163,923	148,185	176,087	11,090	996,203
Aug	1,091	280,281	86,636	119,329	176,501	147,789	158,617	12,583	982,829
Sep	1,250	283,963	86,772	74,754	181,110	146,074	127,700	11,438	913,062
Oct		268,567	93,869	1,962	189,344	161,459	133,152	10,137	858,489
Nov	715	284,531	92,101	57,928	9,717	147,959	193,095	9,510	795,556
Dec	1,289	276,364	103,713	128,223	159,765	151,162	171,954	12,864	1,005,334
YTD	**929**	**275,498**	**89,918**	**110,206**	**157,863**	**134,267**	**156,640**	**11,515**	**936,837**
2012									
Jan	394	281,034	96,464	134,888	177,499	150,995	163,265	11,585	1,016,126
Feb	1,468	288,125	108,682	138,875	193,650	148,825	169,514	2,111	1,051,249
Mar	1,106	273,448	106,317	144,230	192,910	164,312	148,283		1,030,606
Apr		273,955	99,994	143,059	179,732	147,002	162,474		1,006,216
May	1,197	264,117	88,622	146,779	169,177	145,602	165,569		981,063
Jun	1,412	281,448	33,656	145,717	162,874	133,207	163,765		922,079
Jul	813	269,626	34,734	137,592	168,987	144,046	166,913	142	922,854
Aug	940	256,216	50,302	147,079	185,162	148,598	162,433		950,730
Sep	763	256,892	48,831	138,131	182,360	149,008	166,320		942,305
Oct		275,457	49,057	139,692	148,453	150,099	161,561		924,319
Nov		273,226	97,471	143,743	178,786	143,042	165,509		1,001,777
Dec	1,281	271,680	111,338	151,579	167,032	148,857	166,615		1,018,382
YTD	**776**	**271,235**	**76,731**	**142,254**	**174,920**	**147,439**	**163,012**	**1,155**	**977,521**

Table 2.2-1M (Cont.)
Material Intake by Refinery

Unit : Barrels/Day

Month	Fang	Thai Oil	Bangchak	ESSO	IRPC	PTTAR/PTTGC	SPRC	RPC	Total
2013									
Jan	1,339	280,957	107,239	145,858	169,925	184,763	171,471		1,061,553
Feb	357	295,933	104,879	153,201	212,940	198,324	176,443		1,142,078
Mar	1,457	297,577	87,416	144,687	174,348	188,907	182,255		1,076,648
Apr	763	309,022	88,632	149,258	193,394	181,605	183,415		1,106,090
May		267,405	97,856	142,023	192,727	103,930	197,575		1,001,517
Jun	1,116	313,463	100,643	130,671	184,776	85,431	181,079		997,179
Jul	1,407	316,337	104,229	134,550	177,170	169,200	185,802		1,088,695
Aug	451	310,343	97,979	130,405	180,491	188,857	188,769		1,097,294
Sep	1,270	293,182	102,235	143,144	188,719	169,200	187,289		1,085,039
Oct		281,862	103,317	138,921	170,922	193,496	187,442		1,075,959
Nov	258	300,361	103,699	141,966	167,373	198,480	175,040		1,087,176
Dec	1,376	301,638	101,126	149,459	184,727	195,433	187,639		1,121,398
YTD	**820**	**297,279**	**99,909**	**141,928**	**182,876**	**171,388**	**183,766**		**1,077,966**
2014									
Jan	1,364	307,823	96,553	140,172	184,896	195,608	189,236		1,115,652
Feb		304,036	93,887	147,149	189,496	178,562	58,359		971,488
Mar	1,411	307,791	101,234	160,056	150,443	178,528	81,254		980,716
Apr	9	295,975	103,727	149,646	142,440	188,920	162,250		1,042,966
May		307,628	3,980	144,908	189,958	184,855	188,291		1,019,620
Jun	1,247	209,945	47,742	137,860	186,638	181,893	193,959		959,285
Jul	1,418	112,409	95,378	131,086	170,674	197,517	168,486		876,968
Aug	620	308,165	87,758	134,903	162,806	195,152	184,881		1,074,285
Sep	869	304,185	99,323	121,083	162,374	200,968	172,180		1,060,983
Oct		314,877	97,373	77,127	172,012	178,073	183,320		1,022,781
Nov		320,816	103,528	125,376	189,573	182,910	180,847		1,103,050
Dec	1,044	301,467	103,865	141,437	187,264	197,821	181,425		1,114,322
YTD	**672**	**282,755**	**86,106**	**134,136**	**173,962**	**188,478**	**162,725**		**1,028,835**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1M
Production of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2010											
Jan	716.5	391.0	325.5	17.5	1,821.3	1,821.3		530.9	550.7	687.3	4,324.1
Feb	659.4	382.8	276.6	1.6	1,724.8	1,724.8		493.6	509.1	584.2	3,972.7
Mar	710.6	445.0	265.6	7.7	2,038.1	2,038.1		568.1	565.9	690.8	4,581.0
Apr	737.3	469.2	268.1	3.0	1,822.6	1,822.6		533.7	493.5	651.3	4,241.2
May	749.8	440.8	309.0	12.7	2,075.3	2,075.3		473.7	551.2	609.8	4,472.3
Jun	739.6	437.4	302.2	25.0	1,948.1	1,948.1		484.3	501.4	601.8	4,300.1
Jul	740.0	447.2	292.8	26.2	2,024.6	2,024.6		519.0	470.3	721.1	4,501.2
Aug	761.2	468.9	292.3	31.6	2,037.6	2,037.5		591.4	461.6	708.0	4,591.4
Sep	747.2	449.6	297.6	113.2	1,929.5	1,929.5		490.4	480.0	695.5	4,455.8
Oct	714.1	454.3	259.8	165.2	1,960.6	1,960.6		446.2	486.0	723.4	4,495.5
Nov	664.0	413.4	250.7	56.3	1,868.8	1,868.8		498.9	477.9	698.8	4,264.7
Dec	802.3	505.4	296.9	15.9	2,063.2	2,063.2		565.8	483.6	806.4	4,737.1
YTD	**8,741.9**	**5,305.0**	**3,436.9**	**475.9**	**23,314.5**	**23,314.5**		**6,196.1**	**6,031.2**	**8,178.4**	**52,938.0**
2011											
Jan	706.1	447.7	258.4	8.7	2,100.1	2,100.1		593.5	529.1	833.8	4,771.3
Feb	651.0	421.1	229.8	2.8	1,379.9	1,379.9		380.1	357.2	730.7	3,501.7
Mar	668.6	438.4	230.2	1.5	1,941.7	1,941.7		487.9	557.3	873.0	4,530.0
Apr	679.6	443.2	236.4	1.0	1,962.6	1,962.6		563.3	508.2	881.7	4,596.3
May	739.2	447.6	291.6	14.4	2,044.1	2,044.1		572.3	541.5	905.4	4,816.9
Jun	748.7	501.8	246.9	51.1	2,076.8	2,076.8		465.2	498.1	771.6	4,611.5
Jul	745.8	493.5	252.3	68.6	2,059.4	2,059.4		505.7	515.0	828.0	4,722.5
Aug	732.9	455.5	277.5	1.9	2,108.6	2,108.6		533.7	499.4	843.9	4,720.4
Sep	640.1	478.5	161.6	3.1	1,922.3	1,922.3		508.7	472.8	862.9	4,409.8
Oct	625.3	492.0	133.3	1.0	1,752.7	1,752.4	0.4	452.6	423.2	817.5	4,072.2
Nov	622.0	492.5	129.5	4.5	1,623.2	1,623.2		553.2	436.2	799.4	4,038.4
Dec	766.7	587.9	178.8	1.9	2,135.7	2,135.7		676.5	507.5	893.7	4,981.9
YTD	**8,325.9**	**5,699.7**	**2,626.2**	**160.5**	**23,107.1**	**23,106.7**	**0.4**	**6,292.7**	**5,845.6**	**10,041.5**	**53,773.3**
2012											
Jan	725.9	542.0	183.9	1.1	2,073.6	2,073.6		494.3	517.8	880.3	4,692.9
Feb	707.7	525.5	182.2	10.2	2,102.9	2,102.9		564.2	540.4	708.0	4,633.2
Mar	837.6	641.8	195.8	16.1	2,085.8	2,085.8		500.9	564.1	847.6	4,852.1
Apr	756.1	570.4	185.7	1.2	2,193.9	2,193.9		498.1	515.6	873.3	4,838.2
May	776.7	592.9	183.8	24.3	2,153.7	2,153.7		475.2	531.8	915.3	4,877.0
Jun	773.8	582.6	191.1	12.2	2,015.6	2,015.6		413.2	495.4	870.0	4,580.2
Jul	742.5	527.3	215.3	0.8	1,916.0	1,916.0		478.3	499.9	904.7	4,542.2
Aug	733.5	523.9	209.6	8.8	2,043.3	2,043.3		455.2	509.7	903.3	4,653.7
Sep	741.2	516.8	224.4	4.0	2,125.5	2,125.5		448.0	473.8	852.6	4,645.2
Oct	754.8	526.5	228.2	0.3	1,913.7	1,913.7		467.4	495.5	914.8	4,546.4
Nov	788.8	565.6	223.2	2.2	2,200.8	2,200.8		508.7	496.7	906.4	4,903.5
Dec	811.5	531.4	280.1	1.5	2,306.8	2,306.8		554.3	523.6	953.6	5,151.2
YTD	**9,150.1**	**6,646.8**	**2,503.3**	**82.7**	**25,131.7**	**25,131.7**		**5,857.8**	**6,164.1**	**10,530.1**	**56,916.5**

Table 2.3.1-1M (Cont.)
Production of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2013											
Jan	757.6	363.0	394.7	13.3	2,034.7	2,034.7		544.6	521.9	878.4	4,750.5
Feb	776.6	380.9	395.7	36.6	1,845.3	1,845.3		563.9	467.8	787.6	4,477.8
Mar	883.6	481.6	401.9	34.1	2,152.7	2,152.7		573.2	562.2	933.2	5,138.9
Apr	803.3	410.1	393.2	51.0	2,049.0	2,049.0		530.0	532.4	881.7	4,847.5
May	779.1	361.1	418.0	32.4	1,880.4	1,880.4		433.0	426.9	837.7	4,389.4
Jun	770.8	344.4	426.4	7.3	1,803.4	1,803.4		452.2	499.8	775.3	4,308.9
Jul	845.6	395.9	449.7	40.8	2,286.5	2,286.5		603.3	528.5	907.2	5,211.8
Aug	901.3	403.7	497.7	57.3	2,334.2	2,334.2		574.5	482.7	799.2	5,149.2
Sep	807.1	371.4	435.7	103.6	2,218.5	2,218.5		569.9	487.6	757.2	4,943.9
Oct	799.2	366.2	433.0	117.3	2,287.3	2,287.2		668.6	470.8	838.4	5,181.6
Nov	842.2	435.5	406.7	100.7	2,246.2	2,246.2		574.3	462.1	818.9	5,044.2
Dec	886.9	473.0	413.9	100.6	2,386.7	2,386.7		592.6	496.8	872.2	5,335.7
YTD	**9,853.3**	**4,786.7**	**5,066.6**	**694.9**	**25,524.9**	**25,524.8**		**6,680.1**	**5,939.6**	**10,087.1**	**58,779.8**
2014											
Jan	806.7	391.8	414.9	99.8	2,030.7	2,030.7		623.1	510.9	887.5	4,958.7
Feb	703.5	331.9	371.7	75.6	1,785.2	1,785.2		555.0	369.4	756.4	4,245.1
Mar	811.5	391.2	420.2	85.0	1,991.3	1,991.3		552.8	437.7	826.3	4,704.5
Apr	866.7	444.0	422.7	50.5	2,176.9	2,176.9		521.9	461.7	858.7	4,936.2
May	816.5	405.5	411.1	75.7	1,948.8	1,948.8		522.9	417.2	874.7	4,655.8
Jun	802.9	407.0	395.9	94.0	1,803.5	1,803.5		491.5	496.6	792.9	4,481.3
Jul	806.5	388.0	418.5	94.6	1,777.7	1,777.7		394.0	503.9	814.2	4,390.8
Aug	866.1	432.8	433.3	102.3	2,253.1	2,253.1		590.7	493.5	888.6	5,194.2
Sep	811.5	396.2	415.2	93.4	2,035.4	2,035.4		539.2	510.1	826.1	4,815.6
Oct	849.3	414.4	434.9	102.3	1,913.9	1,913.9		515.0	512.2	900.5	4,793.2
Nov	805.5	375.1	430.3	119.5	2,141.3	2,141.3		634.3	451.4	858.1	5,010.0
Dec	939.9	465.1	474.7	105.4	2,210.2	2,210.2		698.1	502.8	912.7	5,369.1
YTD	**9,886.5**	**4,843.1**	**5,043.3**	**1,098.0**	**24,068.1**	**24,068.1**		**6,638.5**	**5,667.4**	**10,196.7**	**57,555.0**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2M
Production of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2010											
Jan	145,373.3	79,331.4	66,041.8	3,550.6	369,530.2	369,530.2		107,716.2	111,733.5	139,448.8	877,345.4
Feb	148,122.5	85,989.2	62,133.2	359.4	387,445.7	387,445.7		110,878.4	114,360.2	131,230.1	892,417.7
Mar	144,176.2	90,287.6	53,888.5	1,562.2	413,517.5	413,517.5		115,263.8	114,817.5	140,158.9	929,471.6
Apr	154,579.9	98,370.9	56,208.9	628.9	382,120.4	382,120.4		111,893.8	103,465.6	136,549.4	889,210.9
May	152,129.6	89,435.5	62,694.1	2,576.7	421,065.2	421,065.2		96,110.7	111,834.9	123,724.5	907,416.6
Jun	155,062.1	91,703.8	63,358.2	5,241.4	408,432.3	408,432.3		101,536.7	105,121.9	126,171.4	901,562.7
Jul	150,141.3	90,734.0	59,407.2	5,315.8	410,778.5	410,778.5		105,301.8	95,420.8	146,306.6	913,278.9
Aug	154,442.6	95,136.8	59,305.8	6,411.4	413,416.1	413,395.8		119,991.3	93,655.7	143,648.7	931,583.5
Sep	156,655.5	94,261.6	62,393.8	23,733.1	404,532.7	404,532.7		102,815.6	100,635.2	145,816.2	934,209.4
Oct	144,886.3	92,174.5	52,711.7	33,518.0	397,793.3	397,793.3		90,531.1	98,606.3	146,773.2	912,126.6
Nov	139,212.1	86,672.1	52,560.9	11,803.6	391,806.6	391,806.6		104,597.7	100,194.9	146,508.1	894,137.9
Dec	162,781.5	102,542.4	60,239.1	3,226.0	418,610.2	418,610.2		114,797.2	98,119.3	163,613.4	961,139.1
YTD	**150,640.9**	**91,416.1**	**59,224.8**	**8,200.7**	**401,756.9**	**401,756.9**		**106,771.5**	**103,930.0**	**140,930.7**	**912,231.6**
2011											
Jan	143,263.2	90,835.4	52,427.7	1,765.1	426,096.9	426,096.9		120,417.3	107,351.0	169,172.7	968,078.4
Feb	146,235.6	94,592.6	51,620.4	628.9	309,970.0	309,970.0		85,382.7	80,238.6	164,138.8	786,598.8
Mar	135,654.7	88,948.5	46,706.1	304.3	393,958.6	393,958.6		98,991.8	113,072.6	177,126.1	919,111.9
Apr	142,482.7	92,919.8	49,562.8	209.6	411,472.4	411,472.4		118,099.6	106,547.5	184,854.3	963,650.1
May	149,979.0	90,815.2	59,163.7	2,921.6	414,734.9	414,734.9		116,116.0	109,866.9	183,699.9	977,322.5
Jun	156,970.0	105,205.7	51,764.2	10,713.4	435,415.2	435,415.2		97,532.3	104,430.0	161,771.1	966,835.2
Jul	151,318.0	100,128.0	51,190.0	13,918.5	417,839.2	417,839.2		102,603.3	104,490.2	167,995.9	958,175.0
Aug	148,700.7	92,418.0	56,302.9	385.4	427,821.5	427,821.5		108,284.3	101,325.0	171,221.9	957,747.2
Sep	134,201.3	100,320.7	33,880.5	649.9	403,023.2	403,023.2		106,652.4	99,125.7	180,912.8	924,548.0
Oct	126,869.4	99,823.6	27,045.7	202.8	355,611.7	355,550.8	81.1	91,829.6	85,864.6	165,865.5	826,237.8
Nov	130,406.5	103,255.9	27,150.5	943.4	340,314.9	340,314.9		115,982.1	91,452.2	167,599.6	846,690.9
Dec	155,558.5	119,281.1	36,277.3	385.4	433,320.0	433,320.0		137,257.5	102,968.5	181,326.0	1,010,808.8
YTD	**143,472.4**	**98,217.6**	**45,254.8**	**2,765.7**	**398,183.0**	**398,176.1**	**6.8**	**108,436.2**	**100,731.7**	**173,035.7**	**926,625.8**
2012											
Jan	147,280.5	109,968.3	37,312.1	223.1	420,720.3	420,720.3		100,290.3	105,058.3	178,607.2	952,174.9
Feb	158,972.2	118,044.2	40,928.0	2,291.2	472,379.2	472,379.2		126,737.5	121,391.2	159,039.6	1,040,787.1
Mar	169,943.7	130,217.1	39,726.5	3,266.5	423,195.6	423,195.6		101,629.4	114,452.3	171,972.6	984,479.0
Apr	158,521.5	119,588.2	38,933.2	251.5	459,966.0	459,966.0		104,430.0	108,099.0	183,093.2	1,014,361.5
May	157,587.5	120,295.6	37,291.8	4,930.3	436,972.0	436,972.0		96,415.0	107,898.8	185,708.5	989,518.3
Jun	162,232.4	122,146.0	40,065.4	2,557.8	422,584.2	422,584.2		86,630.1	103,863.9	182,401.4	960,282.0
Jul	150,648.5	106,985.8	43,683.0	162.3	388,744.2	388,744.2		97,044.0	101,426.5	183,557.9	921,600.4
Aug	148,822.5	106,295.9	42,526.5	1,785.4	414,572.6	414,572.6		92,357.1	103,414.9	183,273.8	944,224.2
Sep	155,397.6	108,350.6	47,046.9	838.6	445,625.5	445,625.5		93,926.2	99,335.3	178,753.3	973,901.5
Oct	153,144.1	106,823.5	46,300.3	60.8	388,277.6	388,277.6		94,832.5	100,533.8	185,607.1	922,450.5
Nov	165,377.2	118,581.8	46,795.3	461.2	461,412.6	461,412.6		106,652.4	104,136.5	190,032.9	1,028,072.0
Dec	164,648.2	107,817.6	56,830.5	304.3	468,035.1	468,035.1		112,463.9	106,235.1	193,479.4	1,045,147.4
YTD	**157,675.1**	**114,538.0**	**43,137.0**	**1,425.0**	**433,071.0**	**433,071.0**		**100,941.9**	**106,220.1**	**181,455.3**	**980,789.0**

Table 2.3.1-2M (Cont.)
Production of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2013											
Jan	153,712.2	73,650.4	80,082.1	2,698.4	412,827.7	412,827.7		110,495.8	105,890.2	178,221.7	963,850.8
Feb	174,449.4	85,562.4	88,886.9	8,221.5	414,513.9	414,513.9		126,670.1	105,082.9	176,920.3	1,005,867.6
Mar	179,276.8	97,713.5	81,542.9	6,918.6	436,769.2	436,769.2		116,298.6	114,066.8	189,340.3	1,042,658.9
Apr	168,417.3	85,980.2	82,437.0	10,692.4	429,586.7	429,586.7		111,118.0	111,621.2	184,854.3	1,016,316.9
May	158,074.4	73,264.9	84,809.5	6,573.7	381,521.2	381,521.2		87,852.9	86,615.3	169,964.0	890,585.8
Jun	161,603.4	72,205.7	89,397.6	1,530.4	378,095.0	378,095.0		94,806.8	104,786.4	162,546.9	903,405.3
Jul	171,566.8	80,325.6	91,241.2	8,278.0	463,916.3	463,916.3		122,405.7	107,229.3	184,065.1	1,057,444.2
Aug	182,868.0	81,908.1	100,980.1	11,625.8	473,594.4	473,594.4		116,562.4	97,936.7	162,152.6	1,044,748.4
Sep	169,213.9	77,866.5	91,347.4	21,720.4	465,123.5	465,123.5		119,483.4	102,228.6	158,752.1	1,036,542.8
Oct	162,152.6	74,299.6	87,852.9	23,799.4	464,078.6	464,058.4		135,654.7	95,522.3	170,106.0	1,051,314.4
Nov	176,572.9	91,305.5	85,267.4	21,112.4	470,931.0	470,931.0		120,405.8	96,882.4	171,687.9	1,057,569.7
Dec	179,946.3	95,968.7	83,977.6	20,411.1	484,246.3	484,246.3		120,234.7	100,797.5	176,963.8	1,082,583.3
YTD	**169,792.7**	**82,484.7**	**87,307.9**	**11,974.5**	**439,846.7**	**439,845.0**		**115,111.9**	**102,351.5**	**173,821.5**	**1,012,898.9**
2014											
Jan	163,674.3	79,493.7	84,180.5	20,248.7	412,016.1	412,016.1		126,423.0	103,658.3	180,068.1	1,006,096.5
Feb	158,028.8	74,555.4	83,495.8	16,982.2	401,013.5	401,013.5		124,670.9	82,979.1	169,911.8	953,603.2
Mar	164,648.2	79,372.0	85,255.9	17,245.9	404,022.1	404,022.1		112,159.6	88,806.5	167,651.0	954,519.2
Apr	181,709.5	93,087.6	88,621.9	10,587.6	456,401.8	456,401.8		109,419.8	96,798.5	180,032.2	1,034,919.6
May	165,662.6	82,273.3	83,409.5	15,359.0	395,399.1	395,399.1		106,093.0	84,647.2	177,471.0	944,644.3
Jun	168,333.4	85,330.3	83,003.1	19,707.7	378,116.0	378,116.0		103,046.3	104,115.5	166,236.8	939,554.8
Jul	163,633.7	78,722.7	84,911.0	19,193.7	360,684.0	360,684.0		79,940.1	102,238.1	165,196.0	890,880.5
Aug	175,726.2	87,812.3	87,913.8	20,756.0	457,139.7	457,139.7		119,849.2	100,128.0	180,291.3	1,053,884.6
Sep	170,136.4	83,066.0	87,049.5	19,581.9	426,735.4	426,735.4		113,046.9	106,945.9	173,197.4	1,009,627.0
Oct	172,317.5	84,079.1	88,238.4	20,756.0	388,318.1	388,318.1		104,490.2	103,922.1	182,705.7	972,513.0
Nov	168,878.5	78,642.2	90,215.3	25,053.9	448,938.0	448,938.0		132,985.3	94,639.0	179,906.4	1,050,382.2
Dec	190,699.7	94,365.8	96,313.6	21,384.9	448,435.5	448,435.5		141,640.0	102,014.9	185,181.0	1,089,356.6
YTD	**170,364.8**	**83,456.6**	**86,906.4**	**18,920.8**	**414,743.0**	**414,743.0**		**114,395.0**	**97,661.0**	**175,710.1**	**991,792.1**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1M
Sale of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline					Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium				Total	HSD	LSD				
			Total	Gasohol	U95								
2010													
Jan	605.8	349.6	256.2	244.2	12.0	1.8	1,566.8	1,566.8		433.6	214.7	963.8	3,786.5
Feb	591.6	351.7	240.0	228.7	11.3	1.4	1,548.0	1,548.0		398.1	222.7	806.8	3,568.6
Mar	620.3	376.2	244.1	234.0	10.1	1.5	1,689.8	1,689.8		436.0	294.0	892.7	3,934.3
Apr	607.4	367.3	240.1	231.9	8.2	1.1	1,549.2	1,549.2		383.4	220.7	879.0	3,640.6
May	599.1	365.7	233.5	228.3	5.2	1.9	1,589.0	1,589.0		342.0	225.4	888.2	3,645.5
Jun	617.0	377.0	240.0	236.1	3.9	1.1	1,509.2	1,509.2		340.6	207.4	904.5	3,579.9
Jul	636.6	388.3	248.4	244.4	3.9	1.0	1,518.0	1,518.0		365.2	254.6	882.9	3,658.3
Aug	619.0	377.3	241.8	238.0	3.8	0.9	1,432.6	1,432.6		396.9	219.4	966.2	3,635.0
Sep	607.4	373.5	233.9	229.8	4.1	1.1	1,405.6	1,405.6		369.4	201.2	947.4	3,531.9
Oct	615.7	378.7	237.1	232.9	4.2	1.2	1,436.7	1,436.7		398.7	195.4	975.9	3,623.5
Nov	632.0	391.2	240.8	236.0	4.8	1.1	1,583.5	1,583.5		406.4	201.7	950.2	3,774.8
Dec	664.6	412.7	251.9	246.7	5.2	1.1	1,667.5	1,667.5		441.5	188.8	1,029.9	3,993.3
YTD	**7,416.8**	**4,509.2**	**2,907.6**	**2,831.0**	**76.6**	**15.3**	**18,495.8**	**18,495.8**		**4,711.7**	**2,646.0**	**11,087.4**	**44,372.9**
2011													
Jan	631.7	395.4	236.2	232.6	3.6	1.0	1,625.5	1,625.5		481.0	187.8	1,067.9	3,994.9
Feb	596.1	375.4	220.7	217.3	3.5	1.0	1,493.8	1,493.8		435.1	212.8	935.0	3,673.8
Mar	615.3	388.5	226.8	223.4	3.4	1.1	1,706.5	1,706.5		476.6	208.7	1,100.8	4,109.0
Apr	617.8	389.9	227.9	225.2	2.7	1.0	1,658.5	1,658.5		425.7	190.1	1,055.0	3,948.0
May	611.3	387.9	223.4	220.3	3.1	0.9	1,687.1	1,687.1		387.6	179.2	1,082.6	3,948.6
Jun	622.8	399.3	223.5	220.4	3.1	1.0	1,607.3	1,607.3		382.6	229.7	1,066.8	3,910.1
Jul	612.7	390.0	222.7	219.9	2.8	1.2	1,521.1	1,521.1		409.8	285.7	1,103.1	3,933.5
Aug	633.4	419.9	213.5	209.4	4.1	1.2	1,537.7	1,537.7		416.6	213.8	1,142.8	3,945.4
Sep	601.5	447.8	153.6	149.1	4.6	1.2	1,501.6	1,501.6		396.7	228.4	1,078.9	3,808.2
Oct	575.2	440.6	134.6	131.1	3.6	1.1	1,500.9	1,500.9		408.8	214.0	1,055.6	3,755.6
Nov	555.4	425.1	130.3	127.4	2.9	1.1	1,574.0	1,574.0		410.6	151.0	993.3	3,685.3
Dec	657.9	476.9	181.0	176.7	4.3	1.1	1,791.9	1,791.9		445.4	180.4	1,077.2	4,153.8
YTD	**7,331.1**	**4,936.8**	**2,394.3**	**2,352.7**	**41.6**	**13.0**	**19,205.8**	**19,205.8**		**5,076.5**	**2,481.5**	**12,758.9**	**46,866.8**
2012													
Jan	633.6	453.5	180.1	175.9	4.3	1.2	1,695.9	1,695.9		488.8	188.2	1,105.4	4,113.0
Feb	605.8	431.7	174.0	170.2	3.9	1.4	1,698.9	1,698.9		458.0	170.4	1,013.9	3,948.4
Mar	639.9	457.0	182.9	179.1	3.8	1.3	1,831.7	1,831.7		472.4	172.1	1,152.6	4,269.9
Apr	614.7	432.5	182.2	178.6	3.6	1.2	1,724.5	1,724.5		404.7	237.7	1,123.4	4,106.2
May	632.2	446.3	185.9	182.4	3.5	1.3	1,806.8	1,806.8		381.9	330.4	1,154.9	4,307.4
Jun	634.6	445.8	188.8	185.3	3.5	1.0	1,700.9	1,700.9		377.0	218.0	1,111.6	4,043.0
Jul	635.2	440.1	195.1	191.6	3.5	1.0	1,650.3	1,650.3		395.6	207.8	1,169.8	4,059.6
Aug	645.7	439.9	205.8	202.8	3.0	0.9	1,656.9	1,656.9		406.6	184.1	1,215.4	4,109.4
Sep	608.8	412.0	196.8	193.7	3.1	0.9	1,554.6	1,554.6		385.0	166.2	1,167.7	3,883.1
Oct	654.2	443.5	210.7	207.6	3.1	1.0	1,666.5	1,666.5		412.7	189.3	1,160.9	4,084.7
Nov	670.1	448.8	221.2	218.0	3.3	1.2	1,754.7	1,754.7		437.2	170.1	1,126.1	4,159.2
Dec	730.3	477.7	252.5	248.8	3.7	1.0	1,837.1	1,837.1		471.4	154.5	1,176.5	4,370.7
YTD	**7,705.0**	**5,328.9**	**2,376.0**	**2,333.9**	**42.2**	**13.4**	**20,578.5**	**20,578.5**		**5,091.4**	**2,388.9**	**13,678.1**	**49,455.3**

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline					Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium				Total	HSD	LSD				
			Total	Gasohol	U95								
2013													
Jan	685.7	342.0	343.8	312.1	31.7	1.1	1,846.5	1,846.5		493.9	177.4	1,189.6	4,394.1
Feb	621.6	257.0	364.7	316.2	48.5	0.9	1,688.8	1,688.8		465.9	185.0	1,100.0	4,062.2
Mar	703.1	288.4	414.6	357.4	57.2	1.0	1,908.2	1,908.2		497.5	198.3	1,200.7	4,508.8
Apr	687.4	278.4	409.0	352.3	56.8	0.8	1,782.7	1,782.7		445.1	244.4	1,176.2	4,336.7
May	706.0	285.8	420.2	360.3	60.0	0.9	1,906.8	1,906.8		446.7	153.9	1,141.6	4,355.8
Jun	673.0	275.4	397.6	341.9	55.7	0.8	1,672.3	1,672.3		407.5	158.2	1,106.5	4,018.2
Jul	697.6	288.5	409.1	352.5	56.6	1.0	1,708.3	1,708.3		442.1	182.8	1,161.7	4,193.5
Aug	714.4	296.9	417.4	361.3	56.1	1.0	1,628.5	1,628.5		458.6	190.1	1,161.9	4,154.3
Sep	638.5	268.9	369.7	323.5	46.2	0.8	1,530.8	1,530.8		440.1	168.3	1,115.9	3,894.3
Oct	683.3	285.3	398.0	348.4	49.7	0.9	1,664.1	1,664.1		459.4	165.3	1,181.5	4,154.5
Nov	681.9	285.7	396.2	347.4	48.8	1.0	1,742.1	1,742.1		494.2	166.3	1,190.7	4,276.1
Dec	702.3	293.6	408.7	359.6	49.1	0.9	1,828.3	1,828.3		511.4	185.2	1,208.4	4,436.5
YTD	8,194.9	3,445.8	4,749.1	4,132.9	616.2	11.0	20,907.4	20,907.4		5,562.4	2,175.1	13,934.7	50,785.5
2014													
Jan	675.9	286.7	389.3	345.1	44.2	1.0	1,837.4	1,837.4		530.5	227.6	1,237.0	4,509.4
Feb	626.5	266.0	360.4	319.8	40.6	0.9	1,699.1	1,699.1		481.3	165.2	1,024.6	3,997.6
Mar	705.5	298.0	407.5	362.3	45.3	1.0	1,875.8	1,875.8		514.1	187.9	1,160.7	4,444.9
Apr	698.2	292.6	405.6	362.4	43.2	0.8	1,815.1	1,815.1		468.1	176.8	1,164.4	4,323.3
May	710.3	298.4	411.8	369.1	42.7	0.9	1,893.0	1,893.0		422.7	176.0	1,216.5	4,419.3
Jun	673.8	284.8	389.0	349.0	40.0	1.0	1,705.3	1,705.3		385.6	176.7	1,093.4	4,035.8
Jul	723.5	304.2	419.3	377.2	42.2	0.8	1,705.7	1,705.7		414.3	166.9	1,145.2	4,156.4
Aug	736.2	310.3	426.0	386.1	39.9	0.9	1,650.7	1,650.7		436.2	155.9	1,154.6	4,134.4
Sep	707.8	299.5	408.3	368.7	39.6	0.8	1,610.7	1,609.4	1.3	407.5	160.2	1,174.1	4,061.0
Oct	728.9	308.2	420.8	382.2	38.6	0.9	1,669.5	1,669.5		448.6	172.8	1,196.9	4,217.5
Nov	718.6	306.1	412.5	374.9	37.5	0.9	1,716.0	1,713.1	2.9	488.7	154.6	1,146.3	4,225.0
Dec	801.0	340.1	460.9	416.3	44.5	0.9	1,905.7	1,904.1	1.6	515.5	172.1	1,203.3	4,598.3
YTD	8,506.1	3,594.8	4,911.3	4,413.1	498.2	10.8	21,083.9	21,078.2	5.7	5,513.1	2,092.8	13,917.0	51,123.5

Source: Department of Energy Business (DOEB)
Complied by: Energy Policy and Planning Office (EPPO)
*Including Propane and Butane

Table 2.3.2-2M
Sale of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD	LSD				
2010											
Jan	122,912.9	70,931.6	51,981.3	365.2	317,893.8	317,893.8		87,974.6	43,561.2	195,548.9	768,275.6
Feb	132,892.4	79,003.1	53,911.7	314.4	347,730.7	347,730.7		89,426.1	50,025.6	181,233.3	801,623.0
Mar	125,854.9	76,328.5	49,526.3	304.3	342,849.7	342,849.7		88,461.6	59,650.7	181,123.1	798,245.2
Apr	127,345.5	77,006.9	50,338.5	230.6	324,800.3	324,800.3		80,382.4	46,271.2	184,288.3	763,297.3
May	121,553.5	74,198.2	47,375.6	385.4	322,398.0	322,398.0		69,389.6	45,732.2	180,210.1	739,660.7
Jun	129,358.2	79,040.6	50,317.6	230.6	316,414.0	316,414.0		71,409.1	43,482.8	189,634.5	750,564.9
Jul	129,162.1	78,783.6	50,398.7	202.8	307,992.5	307,992.5		74,096.7	51,656.7	179,134.8	742,255.8
Aug	125,591.1	76,551.7	49,059.6	182.6	290,665.4	290,665.4		80,528.4	44,514.8	196,035.8	737,538.5
Sep	127,345.5	78,306.8	49,038.7	230.6	294,693.5	294,693.5		77,447.2	42,182.9	198,628.8	740,507.0
Oct	124,921.6	76,835.8	48,106.0	243.4	291,497.3	291,497.3		80,893.7	39,645.4	198,003.9	735,200.6
Nov	132,503.0	82,017.7	50,485.3	230.6	331,991.5	331,991.5		85,204.5	42,287.7	199,215.8	791,420.6
Dec	134,843.1	83,734.2	51,108.9	223.1	338,325.1	338,325.1		89,577.5	38,306.3	208,960.1	810,219.0
YTD	**127,806.7**	**77,702.8**	**50,103.9**	**263.6**	**318,720.8**	**318,720.8**		**81,192.3**	**45,596.0**	**191,058.7**	**764,636.7**
2011											
Jan	128,167.9	80,224.1	47,923.4	202.8	329,803.6	329,803.6		97,591.8	38,103.4	216,670.1	810,540.1
Feb	133,903.3	84,326.9	49,576.3	224.6	335,555.6	335,555.6		97,737.5	47,801.7	210,031.1	825,263.8
Mar	124,840.4	78,824.1	46,016.2	223.1	346,238.0	346,238.0		96,699.1	42,343.9	223,345.3	833,699.9
Apr	129,525.9	81,745.1	47,780.7	209.6	347,715.7	347,715.7		89,250.8	39,855.7	221,187.9	827,738.8
May	124,028.9	78,702.4	45,326.4	182.6	342,301.9	342,301.9		78,641.5	36,358.5	219,652.6	801,157.7
Jun	130,574.2	83,715.9	46,858.2	209.6	336,981.3	336,981.3		80,214.6	48,158.1	223,661.8	819,797.3
Jul	124,312.9	79,128.5	45,184.4	243.4	308,621.5	308,621.5		83,145.8	57,966.7	223,812.0	798,086.2
Aug	128,512.8	85,195.0	43,317.7	243.4	311,989.5	311,989.5		84,525.5	43,378.6	231,866.8	800,499.7
Sep	126,108.5	93,884.3	32,203.2	251.5	314,820.6	314,820.6		83,170.8	47,885.6	226,198.7	798,433.2
Oct	116,704.4	89,394.9	27,309.4	223.1	304,523.1	304,523.1		82,942.9	43,419.2	214,174.5	762,006.8
Nov	116,443.3	89,125.1	27,318.2	230.6	329,999.7	329,999.7		86,085.0	31,658.1	208,252.0	772,663.6
Dec	133,483.7	96,759.9	36,723.7	223.1	363,565.1	363,565.1		90,368.8	36,602.0	218,557.0	842,797.2
YTD	**126,329.9**	**85,071.2**	**41,258.7**	**224.0**	**330,955.5**	**330,955.5**		**87,478.5**	**42,761.3**	**219,862.1**	**807,613.1**
2012											
Jan	128,553.4	92,012.2	36,541.1	243.4	344,087.3	344,087.3		99,174.4	38,184.5	224,278.6	834,518.9
Feb	136,082.2	96,973.7	39,086.0	314.4	381,627.7	381,627.7		102,881.5	38,277.3	227,754.6	886,947.3
Mar	129,831.6	92,722.4	37,109.2	263.7	371,640.3	371,640.3		95,846.9	34,918.0	233,855.2	866,346.6
Apr	128,876.0	90,676.5	38,199.4	251.5	361,553.1	361,553.1		84,848.1	49,835.4	235,528.4	860,897.5
May	128,269.3	90,551.4	37,717.9	263.7	366,588.2	366,588.2		77,485.0	67,036.0	234,321.8	873,961.2
Jun	133,048.2	93,464.9	39,583.2	209.6	356,605.2	356,605.2		79,040.6	45,705.1	233,054.4	847,654.8
Jul	128,878.0	89,293.5	39,584.5	202.8	334,835.4	334,835.4		80,264.7	42,161.3	237,345.0	823,677.9
Aug	131,008.4	89,252.9	41,755.5	182.6	336,174.5	336,174.5		82,496.5	37,352.7	246,596.9	833,781.9
Sep	127,639.0	86,378.5	41,260.4	188.6	325,932.4	325,932.4		80,717.8	34,844.9	244,816.2	814,126.3
Oct	132,733.0	89,983.3	42,749.6	202.8	338,122.3	338,122.3		83,734.2	38,407.7	235,539.2	828,771.7
Nov	140,491.0	94,093.9	46,376.0	251.5	367,884.7	367,884.7		91,661.9	35,662.6	236,094.5	872,025.0
Dec	148,173.2	96,922.3	51,230.6	202.8	372,735.9	372,735.9		95,644.0	31,347.0	238,704.4	886,807.3
YTD	**132,410.2**	**91,577.0**	**40,831.5**	**230.2**	**353,641.1**	**353,641.1**		**87,495.6**	**41,053.2**	**235,057.9**	**849,889.2**

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD	LSD				
2013											
Jan	139,124.1	69,389.6	69,754.8	223.1	374,643.1	374,643.1		100,209.1	35,993.3	241,362.3	891,538.1
Feb	139,631.4	57,730.4	81,923.3	202.1	379,358.9	379,358.9		104,656.1	41,556.9	247,095.5	912,512.2
Mar	142,654.5	58,514.5	84,119.7	202.8	387,161.7	387,161.7		100,939.6	40,233.8	243,614.4	914,814.7
Apr	144,118.0	58,368.4	85,749.6	167.7	373,755.1	373,755.1		93,318.2	51,240.1	246,598.3	909,236.8
May	143,242.9	57,987.0	85,255.9	182.6	386,877.6	386,877.6		90,632.6	31,225.3	231,623.4	883,778.2
Jun	141,099.0	57,739.4	83,359.5	167.7	350,609.0	350,609.0		85,435.1	33,167.7	231,985.2	842,461.9
Jul	141,538.6	58,534.8	83,003.8	202.8	346,603.2	346,603.2		89,699.2	37,088.9	235,701.5	850,838.0
Aug	144,947.2	60,239.1	84,687.8	202.8	330,412.3	330,412.3		93,047.0	38,570.0	235,742.1	842,889.2
Sep	133,865.8	56,376.7	77,510.1	167.7	320,942.6	320,942.6		92,269.9	35,285.2	233,956.0	816,467.3
Oct	138,637.2	57,885.5	80,751.6	182.6	337,635.3	337,635.3		93,209.3	33,538.3	239,718.8	842,929.4
Nov	142,964.9	59,898.9	83,066.0	209.6	365,243.0	365,243.0		103,612.3	34,865.9	249,638.3	896,513.8
Dec	142,492.2	59,569.5	82,922.6	182.6	370,950.4	370,950.4		103,759.8	37,575.9	245,176.7	900,148.7
YTD	**141,215.0**	**59,378.2**	**81,836.8**	**189.5**	**360,277.6**	**360,277.6**		**95,851.6**	**37,481.4**	**240,123.6**	**875,139.1**
2014											
Jan	137,135.8	58,169.6	78,986.5	202.8	372,796.8	372,796.8		107,635.0	46,178.5	250,979.4	914,942.7
Feb	140,732.1	59,752.1	80,957.4	202.1	381,672.7	381,672.7		108,115.5	37,109.2	230,158.2	898,005.7
Mar	143,141.4	60,462.3	82,679.1	202.8	380,587.9	380,587.9		104,307.6	38,123.7	235,498.6	901,854.4
Apr	146,382.3	61,345.5	85,036.7	167.7	380,548.0	380,548.0		98,140.3	37,067.3	244,124.3	906,418.8
May	144,115.3	60,543.4	83,551.6	182.6	384,077.7	384,077.7		85,763.1	35,709.2	246,820.1	896,657.6
Jun	141,266.7	59,710.2	81,556.4	209.6	357,527.7	357,527.7		80,843.6	37,046.3	229,238.7	846,143.0
Jul	146,793.5	61,720.2	85,073.3	162.3	346,075.7	346,075.7		84,058.8	33,862.9	232,353.8	843,319.3
Aug	149,370.3	62,957.9	86,432.7	182.6	334,693.3	334,693.3		88,502.2	31,022.4	234,261.0	838,049.2
Sep	148,395.0	62,792.2	85,602.8	167.7	337,484.5	337,211.9	272.5	85,435.1	33,419.2	246,158.0	851,028.2
Oct	147,889.1	62,531.8	85,377.6	182.6	338,568.6	338,568.6		91,018.1	34,938.2	242,843.4	855,432.2
Nov	150,659.3	64,175.9	86,483.4	188.6	359,708.1	359,100.1	608.0	102,459.2	32,287.1	240,329.5	885,623.3
Dec	162,517.8	69,004.1	93,513.6	182.6	386,532.7	386,208.1	324.6	104,591.6	34,471.6	244,141.9	932,422.5
YTD	**146,577.6**	**61,945.8**	**84,631.8**	**186.1**	**363,255.3**	**363,155.4**	**98.2**	**95,002.0**	**35,939.1**	**239,818.6**	**880,776.9**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
*Including Propane and Butane

Table 2.3.3-1M
Import of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG		Total	HSD	LSD				
2010												
Jan						3.0	3.0		0.3		203.6	206.9
Feb						6.0	6.0		0.2	1.5	206.8	214.5
Mar						3.1	3.1		0.3	47.6	233.3	284.2
Apr						6.0	6.0		0.4	1.5	232.3	240.1
May						6.0	6.0		0.5		327.7	334.1
Jun						6.0	6.0		0.1	3.2	244.1	253.3
Jul						3.1	3.1		0.4	20.2	168.2	191.9
Aug						3.1	3.1			20.2	252.4	275.6
Sep						6.4	6.4		0.2	6.9	251.2	264.6
Oct						6.3	6.3		0.3		275.7	282.3
Nov						6.3	6.3		0.2		264.9	271.3
Dec						6.2	6.2		0.2		290.3	296.8
Total						**61.2**	**61.2**		**3.3**	**101.2**	**2,950.5**	**3,116.2**
2011												
Jan									0.3	12.9	211.3	224.4
Feb						17.3	17.3		8.2	6.3	210.7	242.4
Mar						8.2	8.2			14.7	167.3	190.2
Apr	9.5			9.5		3.9	3.9		0.5	61.8	137.4	213.0
May									0.2	5.1	213.7	218.9
Jun						3.8	3.8		0.3		320.6	324.7
Jul	3.0			3.0		13.0	13.0		0.2	53.6	272.0	341.8
Aug									0.2	56.0	294.3	350.4
Sep									0.3	51.0	315.2	366.4
Oct	3.1			3.1					0.2	54.1	260.1	317.5
Nov	18.5	18.5				9.7	9.7		0.2	8.9	165.1	202.4
Dec									0.3	7.3	254.1	261.6
Total	**34.1**	**18.5**		**15.6**		**56.0**	**56.0**		**10.8**	**331.7**	**2,821.8**	**3,254.3**
2012												
Jan	7.5			7.5					0.2	6.1	209.7	223.5
Feb	31.0			31.0		5.1	5.1		0.2	5.5	295.7	337.4
Mar	42.3			42.3					0.3	12.6	308.6	363.7
Apr	14.4			14.4					0.3	65.9	341.7	422.2
May									0.2	59.2	213.4	272.7
Jun	8.1			8.1					0.3	49.0	244.7	302.0
Jul	32.8	12.5		20.3		10.2	10.2		0.3	55.1	197.2	295.5
Aug	46.1	8.6		37.5					0.3	27.1	334.0	407.3
Sep	31.5			31.5					0.3	29.0	334.5	395.2
Oct									0.2	37.0	257.0	294.2
Nov	26.5	13.7		12.8					0.2	16.0	254.4	297.1
Dec	64.8	27.7		37.1					0.3		213.3	278.3
Total	**305.0**	**62.5**		**242.5**		**15.3**	**15.3**		**2.8**	**362.5**	**3,204.1**	**3,889.6**

Table 2.3.3-1M (Cont.)
Import of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG		Total	HSD	LSD				
2013												
Jan	32.6			32.6		1.2	1.2		0.1	14.4	171.8	220.2
Feb	22.8			22.8						18.4	335.3	376.4
Mar	42.8			42.8					0.5	55.0	251.1	349.3
Apr	21.0			21.0		40.8	40.8		0.1	23.1	250.9	335.9
May	38.5			38.5		82.9	82.9		13.4	3.3	376.2	514.2
Jun	26.5			26.5		64.4	64.4		0.3	18.5	339.1	448.8
Jul	10.0			10.0		7.3	7.3		0.3	28.3	254.4	300.2
Aug	5.1			5.1					0.3	30.3	335.2	370.8
Sep	19.8			19.8					0.3	16.5	342.1	378.7
Oct	28.3			28.3					0.2	17.1	360.0	405.6
Nov	5.2			5.2					0.4	22.9	327.6	356.1
Dec	9.6			9.6					0.3	20.6	307.5	338.0
Total	**262.2**			**262.2**		**196.7**	**196.7**		**16.2**	**268.4**	**3,651.2**	**4,394.7**
2014												
Jan	23.9			23.9		5.2	5.2		0.3	58.5	334.7	422.5
Feb	88.0			88.0		32.4	32.4		0.4	29.6	323.4	473.6
Mar	174.9	5.5		169.4		37.3	37.3		0.6	28.1	247.9	488.7
Apr	91.7			91.7		41.3	41.3		0.8	25.4	337.8	497.0
May	95.1			95.1		130.5	130.5			26.5	336.1	588.2
Jun	124.3			124.3		44.8	44.8		0.6	35.4	335.3	540.4
Jul	104.9			104.9		26.2	26.2		0.3	28.5	338.3	498.1
Aug	38.2			38.2					0.3	54.2	297.2	389.8
Sep	43.7			43.7					0.3	25.5	338.0	407.4
Oct	59.9			59.9		12.5	12.5		0.3	21.8	374.5	469.0
Nov	29.0			29.0		8.9	8.9		0.2	17.5	244.0	299.6
Dec	10.6			10.6		9.0	9.0		0.3	19.9	380.1	419.9
Total	**884.3**	**5.5**		**878.8**		**348.1**	**348.1**		**4.2**	**370.8**	**3,887.4**	**5,494.7**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.3-2M
Import of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG		Total	HSD	LSD				
2010												
Jan						608.6	608.6		60.8		41,309.1	41,995.1
Feb						1,347.7	1,347.7		44.9	336.9	46,453.9	48,185.7
Mar						628.9	628.9		60.8	9,657.7	47,335.0	57,680.9
Apr						1,257.9	1,257.9		83.8	314.4	48,703.2	50,348.8
May						1,217.3	1,217.3		101.4		66,488.2	67,800.0
Jun						1,257.9	1,257.9		20.9	670.9	51,177.2	53,120.0
Jul						628.9	628.9		81.1	4,098.4	34,126.7	38,936.7
Aug						628.9	628.9			4,098.4	51,210.3	55,933.8
Sep						1,341.8	1,341.8		41.9	1,446.6	52,665.7	55,494.1
Oct						1,278.2	1,278.2		60.8		55,937.7	57,278.0
Nov						1,320.8	1,320.8		41.9		55,538.0	56,891.1
Dec						1,257.9	1,257.9		40.5		58,900.0	60,223.5
YTD						**1,054.6**	**1,054.6**		**56.8**	**1,743.8**	**50,843.2**	**53,698.9**
2011												
Jan									60.8	2,617.3	42,871.4	45,546.9
Feb						3,886.1	3,886.1		1,841.9	1,415.1	47,330.0	54,471.2
Mar						1,663.7	1,663.7			2,982.5	33,944.1	38,608.1
Apr	1,991.7			1,991.7		817.6	817.6		104.8	12,956.7	28,806.8	44,669.8
May									40.5	1,034.7	43,358.3	44,429.1
Jun						796.6	796.6		62.8		67,215.9	68,076.2
Jul	608.6			608.6		2,637.6	2,637.6		40.5	10,875.1	55,187.0	69,362.3
Aug									40.5	11,362.0	59,711.6	71,098.7
Sep									62.8	10,692.4	66,083.8	76,833.7
Oct	628.9			628.9					40.5	10,976.5	52,772.6	64,419.3
Nov	3,878.6	3,878.6				2,033.6	2,033.6		41.9	1,865.9	34,614.3	42,437.9
Dec									60.8	1,481.1	51,555.2	53,087.7
YTD	**587.6**	**318.7**		**268.8**		**964.9**	**964.9**		**186.1**	**5,715.8**	**48,625.4**	**56,079.0**
2012												
Jan	1,521.7			1,521.7					40.5	1,237.6	42,546.8	45,350.0
Feb	6,963.6			6,963.6		1,145.6	1,145.6		44.9	1,235.4	66,423.7	75,793.5
Mar	8,582.4			8,582.4					60.8	2,556.4	62,612.9	73,797.5
Apr	3,019.0			3,019.0					62.8	13,816.3	71,639.7	88,532.7
May									40.5	12,011.3	43,297.5	55,349.2
Jun	1,698.2			1,698.2					62.8	10,273.1	51,303.0	63,317.3
Jul	6,654.9	2,536.1		4,118.7		2,069.5	2,069.5		60.8	11,179.4	40,010.6	59,963.1
Aug	9,353.3	1,744.8		7,608.5					60.8	5,498.4	67,766.4	82,657.1
Sep	6,604.1			6,604.1					62.8	6,080.0	70,130.1	82,875.8
Oct									40.5	7,507.0	52,143.6	59,693.6
Nov	5,555.9	2,872.2		2,683.6					41.9	3,354.5	53,336.6	62,291.0
Dec	13,147.5	5,620.1		7,527.3					60.8		43,277.2	56,476.3
YTD	**5,241.4**	**1,074.0**		**4,167.3**		**262.9**	**262.9**		**48.1**	**6,229.5**	**55,062.4**	**66,843.2**

Table 2.3.3-2M (Cont.)
Import of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline				Kerosene	Diesel			J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Base ULG		Total	HSD	LSD				
2013												
Jan	6,614.3			6,614.3		243.4	243.4		20.2	2,921.6	34,857.1	44,685.8
Feb	5,121.6			5,121.6						4,133.2	75,319.2	84,569.9
Mar	8,683.8			8,683.8					101.4	11,159.1	50,946.6	70,876.8
Apr	4,402.7			4,402.7		8,553.9	8,553.9		20.9	4,843.0	52,602.8	70,428.3
May	7,811.4			7,811.4		16,819.8	16,819.8		2,718.7	669.5	76,328.5	104,344.0
Jun	5,555.9			5,555.9		13,501.8	13,501.8		62.8	3,878.6	71,094.6	94,097.0
Jul	2,028.9			2,028.9		1,481.1	1,481.1		60.8	5,741.8	51,616.1	60,921.1
Aug	1,034.7			1,034.7					60.8	6,147.6	68,009.9	75,251.0
Sep	4,151.2			4,151.2					62.8	3,459.3	71,723.5	79,402.1
Oct	5,741.8			5,741.8					40.5	3,469.4	73,041.7	82,301.9
Nov	1,090.2			1,090.2					83.8	4,801.1	68,683.5	74,664.4
Dec	1,947.7			1,947.7					60.8	4,179.6	62,389.8	68,589.5
YTD	**4,518.2**			**4,518.2**		**3,389.5**	**3,389.5**		**279.1**	**4,625.0**	**62,917.7**	**75,730.9**
2014												
Jan	4,849.1			4,849.1		1,055.0	1,055.0		60.8	11,869.2	67,908.5	85,733.0
Feb	19,767.6			19,767.6		7,278.0	7,278.0		89.8	6,649.1	72,646.0	106,407.6
Mar	35,486.1	1,115.9		34,370.1		7,567.9	7,567.9		121.7	5,701.3	50,297.3	99,167.4
Apr	19,225.5			19,225.5		8,658.8	8,658.8		167.7	5,325.2	70,822.0	104,211.2
May	19,295.1			19,295.1		26,477.6	26,477.6			5,376.6	68,192.5	119,343.6
Jun	26,060.3			26,060.3		9,392.6	9,392.6		125.7	7,421.8	70,297.9	113,301.3
Jul	21,283.5			21,283.5		5,315.8	5,315.8		60.8	5,782.4	68,638.9	101,077.9
Aug	7,750.5			7,750.5					60.8	10,996.8	60,299.9	79,093.8
Sep	9,162.0			9,162.0					62.8	5,346.2	70,863.9	85,429.9
Oct	12,153.3			12,153.3		2,536.1	2,536.1		60.8	4,423.0	75,983.6	95,159.7
Nov	6,080.0			6,080.0		1,865.9	1,865.9		41.9	3,668.9	51,156.2	62,814.5
Dec	2,150.6			2,150.6		1,826.0	1,826.0		60.8	4,037.5	77,119.8	85,196.6
YTD	**15,238.3**	**94.7**		**15,143.5**		**5,998.4**	**5,998.4**		**72.3**	**6,389.6**	**66,987.9**	**94,685.1**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.4-1M
Export of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2010											
Jan	86.1	36.1	49.9		200.7	200.7		98.0	230.4	3.8	619.0
Feb	79.3	32.2	47.1		266.7	266.7		59.3	274.4	4.4	684.0
Mar	70.6	67.8	2.8		304.0	304.0		102.8	325.6	4.1	807.1
Apr	134.2	90.9	43.4		365.6	365.6		152.1	293.3	4.0	949.2
May	158.3	91.0	67.3	5.4	418.6	418.6		63.7	272.6	3.9	922.5
Jun	152.1	88.7	63.4	23.3	493.1	493.1		189.7	270.9	3.5	1,132.5
Jul	149.4	65.6	83.8	23.3	546.9	546.9		110.6	266.2	3.4	1,099.7
Aug	109.3	62.1	47.2	24.7	621.4	621.4		286.8	191.3	5.3	1,238.7
Sep	135.0	70.1	64.9	111.4	737.5	737.5		43.0	288.9	4.4	1,320.2
Oct	69.9	57.9	12.0	161.6	587.2	587.2		124.9	245.5	5.3	1,194.3
Nov	72.9	56.2	16.7	63.0	480.3	480.3		81.8	315.4	1.8	1,015.2
Dec	124.7	83.2	41.5	13.4	483.1	483.1		91.7	259.6	1.9	974.4
Total	**1,341.8**	**801.8**	**539.9**	**426.1**	**5,505.3**	**5,505.3**		**1,404.5**	**3,234.0**	**45.7**	**11,957.3**
2011											
Jan	56.6	38.4	18.2		306.0	306.0		87.3	354.2	1.7	805.7
Feb	42.1	39.7	2.4		183.0	183.0		3.9	182.8	1.6	413.3
Mar	60.0	49.5	10.5		268.5	268.5		22.5	256.6	2.0	609.7
Apr	64.7	55.6	9.1		354.0	354.0		127.9	376.0	2.2	924.8
May	146.2	77.8	68.3		407.9	407.9		105.5	345.6	2.0	1,007.1
Jun	102.7	84.4	18.3	49.4	286.0	286.0		65.3	256.2	2.5	762.0
Jul	86.7	84.0	2.7	57.4	652.9	652.9		68.8	251.6	2.5	1,119.8
Aug	167.4	73.2	94.3		721.7	721.7		169.3	307.3	2.7	1,368.4
Sep	67.3	58.3	9.0		614.9	614.9		145.8	357.3	2.8	1,188.0
Oct	47.1	45.0	2.2		320.8	320.8		18.2	223.6	3.2	613.0
Nov	45.6	43.7	1.9		250.1	250.1		127.2	244.4	3.1	670.5
Dec	82.1	80.8	1.4		339.6	339.6		259.9	327.4	3.3	1,012.2
Total	**968.7**	**730.3**	**238.4**	**106.8**	**4,705.5**	**4,705.5**		**1,201.5**	**3,482.9**	**29.9**	**10,495.1**
2012											
Jan	76.2	74.0	2.3		417.5	417.5		72.0	361.4	2.8	929.8
Feb	127.9	118.7	9.2		471.4	471.4		70.0	296.5	1.9	967.8
Mar	181.3	178.8	2.5		378.4	378.4		25.5	424.9	1.0	1,011.1
Apr	194.5	183.0	11.4		458.7	458.7		22.9	301.9	1.4	979.3
May	152.2	150.6	1.6	14.7	405.2	405.2		62.8	273.6	0.8	909.2
Jun	151.5	148.8	2.7	9.2	536.1	536.1		89.4	315.6	0.9	1,102.7
Jul	82.7	79.8	2.9		410.1	410.1		131.8	213.6	1.5	839.7
Aug	100.1	88.3	11.9	6.4	360.6	360.6		45.9	335.9	1.7	850.5
Sep	125.4	95.2	30.3	1.2	489.4	489.4		62.3	340.9	1.9	1,021.1
Oct	148.7	131.3	17.4		530.9	530.9		57.1	206.5	1.4	944.5
Nov	119.7	112.4	7.3		527.2	527.2		40.5	426.3	1.6	1,115.3
Dec	109.3	107.5	1.8		385.9	385.9		72.3	357.0	1.5	926.0
Total	**1,569.6**	**1,468.2**	**101.4**	**31.5**	**5,371.3**	**5,371.3**		**752.5**	**3,854.2**	**18.4**	**11,597.5**

Table 2.3.4-1M (Cont.)
Export of Petroleum Products (Million Litres)

Unit : Million Litres

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2013											
Jan	104.9	101.5	3.4		296.5	296.5		58.1	313.4	1.7	774.5
Feb	131.3	129.2	2.0		276.9	276.9		95.8	322.3	1.2	827.5
Mar	213.5	202.8	10.7		432.7	432.7		76.4	296.3	0.4	1,019.3
Apr	131.3	128.4	2.8		312.1	312.1		120.8	305.3	0.4	869.8
May	77.0	67.3	9.6		208.7	208.7		91.8	338.3	1.1	716.8
Jun	85.3	70.4	14.9		256.5	256.5		39.2	207.1	1.5	589.7
Jul	129.0	87.9	41.1		279.5	279.5		162.4	478.1	1.4	1,050.3
Aug	146.8	90.3	56.6	6.7	679.7	679.7		155.1	246.3	1.4	1,236.0
Sep	209.1	117.7	91.4		539.0	539.0		164.6	330.5	0.7	1,243.9
Oct	99.8	96.4	3.5	7.2	522.5	522.5		223.2	314.3	0.4	1,167.4
Nov	125.4	121.7	3.7	4.6	583.2	583.2		164.5	267.7	0.4	1,145.7
Dec	181.0	155.9	25.1	0.7	487.0	487.0		184.6	354.9	0.5	1,208.6
Total	**1,634.4**	**1,369.5**	**264.9**	**19.2**	**4,874.3**	**4,874.3**		**1,536.6**	**3,774.3**	**11.2**	**11,850.0**
2014											
Jan	121.0	107.2	13.8	1.0	392.1	392.1		74.8	235.7	0.1	824.7
Feb	88.8	64.8	24.0	1.0	176.4	176.4		10.8	263.2	0.1	540.2
Mar	114.0	91.1	23.0	0.8	199.1	199.1		42.7	282.6	0.1	639.1
Apr	163.7	150.8	12.9	0.6	283.9	283.9		21.0	306.0	13.1	788.3
May	109.2	104.1	5.1	0.5	273.6	273.6		115.1	303.8	0.4	802.6
Jun	101.3	93.9	7.4	0.3	255.7	255.7		80.3	257.3	0.1	695.1
Jul	109.2	103.5	5.7	0.5	244.9	244.9		34.6	400.9	0.8	790.8
Aug	108.1	101.8	6.2	4.5	597.7	597.7		132.2	367.9	0.6	1,210.9
Sep	111.4	102.4	8.9	3.9	556.5	556.5		226.5	331.2	0.5	1,229.9
Oct	110.2	101.8	8.4	7.9	451.7	451.7		168.5	395.7	0.6	1,134.5
Nov	81.5	72.7	8.8	7.4	392.8	392.8		174.6	282.8	0.7	939.8
Dec	121.3	111.6	9.8	1.4	492.5	492.5		215.5	408.7	1.4	1,240.8
Total	**1,339.7**	**1,205.7**	**134.0**	**29.8**	**4,316.9**	**4,316.9**		**1,296.6**	**3,835.9**	**18.5**	**10,837.4**

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2M
Export of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2010											
Jan	17,469.1	7,324.4	10,124.3		40,720.7	40,720.7		19,883.5	46,746.7	770.9	125,598.6
Feb	17,813.3	7,233.1	10,580.1		59,909.4	59,909.4		13,320.6	61,639.0	988.3	153,660.4
Mar	14,324.2	13,756.1	568.1		61,679.6	61,679.6		20,857.4	66,062.1	831.8	163,762.8
Apr	28,135.9	19,057.8	9,099.1		76,650.5	76,650.5		31,888.7	61,492.3	838.6	199,017.9
May	32,118.0	18,463.3	13,654.7	1,095.6	84,931.2	84,931.2		12,924.3	55,308.8	791.2	187,182.1
Jun	31,888.7	18,596.5	13,292.2	4,885.0	103,381.7	103,381.7		39,771.8	56,796.0	733.7	237,440.2
Jul	30,312.3	13,309.8	17,002.4	4,727.4	110,962.5	110,962.5		22,440.0	54,010.2	689.8	223,126.2
Aug	22,176.2	12,599.6	9,576.5	5,011.4	126,078.1	126,078.1		58,189.9	38,813.5	1,075.3	251,342.2
Sep	28,303.6	14,696.9	13,606.7	23,355.7	154,621.8	154,621.8		9,015.2	60,569.8	922.4	276,800.3
Oct	14,182.2	11,747.5	2,434.7	32,787.6	119,139.1	119,139.1		25,341.4	49,810.3	1,075.3	242,317.2
Nov	15,283.9	11,782.7	3,501.2	13,208.3	100,698.1	100,698.1		17,149.9	66,125.7	377.3	212,861.0
Dec	25,300.8	16,880.7	8,420.0	2,718.7	98,017.9	98,017.9		18,605.3	52,671.1	385.4	197,705.8
YTD	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6	94,867.6		24,202.4	55,728.4	787.5	206,049.7
2011											
Jan	11,483.7	7,791.1	3,692.6		62,085.4	62,085.4		17,712.6	71,864.9	344.9	163,487.5
Feb	9,457.0	8,917.9	539.1		41,107.7	41,107.7		876.0	41,062.7	359.4	92,859.1
Mar	12,173.6	10,043.2	2,130.3		54,476.9	54,476.9		4,565.1	52,062.5	405.7	123,706.2
Apr	13,564.7	11,656.9	1,907.8		74,218.5	74,218.5		26,815.1	78,830.9	461.2	193,902.2
May	29,663.0	15,785.1	13,857.6		82,760.3	82,760.3		21,405.2	70,120.0	405.7	204,347.1
Jun	21,531.7	17,695.0	3,836.7	10,357.0	59,961.8	59,961.8		13,690.5	53,714.0	524.1	159,762.9
Jul	17,590.8	17,043.0	547.8	11,646.0	132,469.2	132,469.2		13,959.0	51,048.0	507.2	227,216.8
Aug	33,964.4	14,851.8	19,132.8		146,428.3	146,428.3		34,349.8	62,349.2	547.8	277,651.8
Sep	14,109.9	12,222.9	1,886.9		128,917.9	128,917.9		30,567.9	74,910.3	587.0	249,088.5
Oct	9,556.2	9,130.2	446.3		65,088.2	65,088.2		3,692.6	45,367.0	649.2	124,375.8
Nov	9,560.3	9,162.0	398.3		52,435.1	52,435.1		26,668.3	51,240.1	649.9	140,576.6
Dec	16,657.5	16,393.8	284.0		68,902.6	68,902.6		52,732.0	66,427.3	669.5	205,381.8
YTD	16,692.7	12,584.5	4,108.1	1,840.3	81,085.4	81,085.4		20,704.3	60,017.5	515.2	180,852.4
2012											
Jan	15,460.4	15,014.1	466.6		84,708.1	84,708.1		14,608.3	73,325.7	568.1	188,668.4
Feb	28,730.4	26,663.8	2,066.6		105,891.6	105,891.6		15,724.2	66,603.4	426.8	217,399.9
Mar	36,784.6	36,277.3	507.2		76,774.9	76,774.9		5,173.7	86,209.5	202.8	205,148.1
Apr	40,778.2	38,367.1	2,390.0		96,169.5	96,169.5		4,801.1	63,295.3	293.5	205,322.4
May	30,880.4	30,555.7	324.6	2,982.5	82,212.5	82,212.5		12,741.7	55,511.7	162.3	184,490.7
Jun	31,763.0	31,196.9	566.0	1,928.8	112,397.0	112,397.0		18,743.3	66,167.6	188.6	231,199.5
Jul	16,779.3	16,190.9	588.3		83,206.6	83,206.6		26,741.3	43,338.0	304.3	170,372.3
Aug	20,309.6	17,915.5	2,414.4	1,298.5	73,163.4	73,163.4		9,312.8	68,151.9	344.9	172,580.0
Sep	26,290.9	19,959.3	6,352.6	251.5	102,606.0	102,606.0		13,061.6	71,472.0	398.3	214,089.3
Oct	30,170.2	26,639.9	3,530.3		107,716.2	107,716.2		11,585.2	41,897.5	284.0	191,642.3
Nov	25,095.9	23,565.4	1,530.4		110,531.0	110,531.0		8,491.1	89,376.6	335.4	233,836.6
Dec	22,176.2	21,811.0	365.2		78,296.6	78,296.6		14,669.2	72,433.0	304.3	187,896.2
YTD	26,973.5	25,230.9	1,742.5	541.3	92,305.6	92,305.6		12,931.6	66,234.3	316.2	199,304.3

Table 2.3.4-2M (Cont.)
Export of Petroleum Products (Barrels/Day)

Unit : Barrels/Day

Month	Gasoline			Kerosene	Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD	LSD				
2013											
Jan	21,283.5	20,593.7	689.8		60,157.9	60,157.9		11,788.1	63,586.8	344.9	157,154.6
Feb	29,494.2	29,022.4	449.2		62,200.6	62,200.6		21,519.7	72,398.9	269.5	185,888.9
Mar	43,317.7	41,146.8	2,170.9		87,792.0	87,792.0		15,501.0	60,117.3	81.1	206,820.3
Apr	27,527.9	26,919.9	587.0		65,433.8	65,433.8		25,326.5	64,008.2	83.8	182,369.4
May	15,622.8	13,654.7	1,947.7		42,343.9	42,343.9		18,625.6	68,638.9	223.1	145,441.5
Jun	17,883.7	14,759.8	3,123.8		53,776.9	53,776.9		8,218.5	43,419.9	314.4	123,637.5
Jul	26,173.2	17,834.3	8,338.9		56,708.7	56,708.7		32,949.9	97,003.4	284.0	213,104.1
Aug	29,784.7	18,321.2	11,483.7	1,359.3	137,906.8	137,906.8		31,468.8	49,972.7	284.0	250,784.1
Sep	43,839.2	24,676.6	19,162.6		113,005.0	113,005.0		34,509.5	69,291.5	146.7	260,792.5
Oct	20,248.7	19,558.9	710.1	1,460.8	106,011.9	106,011.9		45,285.8	63,769.4	81.1	236,875.0
Nov	26,290.9	25,515.2	775.7	964.4	122,271.8	122,271.8		34,488.5	56,125.1	83.8	240,218.1
Dec	36,723.7	31,631.1	5,092.6	142.0	98,809.2	98,809.2		37,454.1	72,006.9	101.4	245,237.4
YTD	28,164.0	23,599.3	4,564.7	330.8	83,994.2	83,994.2		26,478.7	65,038.9	192.9	204,200.9
2014											
Jan	24,550.1	21,750.2	2,799.9	202.8	79,554.6	79,554.6		15,176.4	47,822.0	20.2	167,335.2
Feb	19,947.3	14,556.1	5,391.1	224.6	39,625.1	39,625.1		2,426.0	59,123.2	22.4	121,366.5
Mar	23,129.8	18,483.6	4,666.5	162.3	40,396.1	40,396.1		8,663.5	57,337.7	20.2	129,689.5
Apr	34,320.8	31,616.2	2,704.5	125.7	59,521.5	59,521.5		4,402.7	64,154.9	2,746.5	165,289.2
May	22,155.9	21,121.2	1,034.7	101.4	55,511.7	55,511.7		23,353.0	61,639.0	81.1	162,846.6
Jun	21,238.2	19,686.7	1,551.4	62.8	53,609.2	53,609.2		16,835.4	53,944.6	20.9	145,744.3
Jul	22,155.9	20,999.4	1,156.4	101.4	49,688.6	49,688.6		7,020.1	81,340.0	162.3	160,450.9
Aug	21,932.8	20,654.5	1,257.9	913.0	121,269.5	121,269.5		26,822.5	74,644.5	121.7	245,695.8
Sep	23,355.7	21,468.8	1,865.9	817.6	116,674.0	116,674.0		47,487.2	69,438.3	104.8	257,874.4
Oct	22,358.8	20,654.5	1,704.3	1,602.8	91,647.0	91,647.0		34,187.5	80,285.0	121.7	230,200.3
Nov	17,087.0	15,242.0	1,844.9	1,551.4	82,353.1	82,353.1		36,606.0	59,290.9	146.7	197,041.9
Dec	24,611.0	22,642.9	1,988.3	284.0	99,925.1	99,925.1		43,723.5	82,922.6	284.0	251,763.0
YTD	23,085.7	20,776.7	2,309.0	513.5	74,389.1	74,389.1		22,343.0	66,100.4	318.7	186,751.2

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1M
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance				Oil Products			Oil Products					Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consump-tion	Mogas	Diesel Oil	Others	Export	
2010													
Jan	232,778	774,312	36,759	941,448	1,023,267	55,665	1,078,933	862,330	122,913	317,897	421,519	150,589	1,012,920
Feb	235,809	841,022	8,460	919,520	1,048,482	52,453	1,100,936	889,060	132,896	347,734	408,429	179,128	1,068,188
Mar	250,421	735,828	36,224	999,935	1,079,388	99,685	1,179,074	907,250	125,855	342,855	438,539	190,532	1,097,782
Apr	236,293	949,279	26,706	950,106	1,037,290	87,239	1,124,529	899,845	127,354	324,791	447,699	235,332	1,135,177
May	246,115	739,887	32,170	965,724	1,077,155	108,060	1,185,215	881,326	121,562	322,399	437,363	221,220	1,102,546
Jun	256,836	873,449	25,147	959,060	1,083,158	106,062	1,189,221	887,195	129,366	316,415	441,413	283,610	1,170,805
Jul	254,954	781,768	45,881	983,313	1,058,570	73,531	1,132,102	862,568	129,168	307,988	425,411	272,335	1,134,903
Aug	250,650	823,637	31,657	974,277	1,082,346	89,296	1,171,643	863,154	125,598	290,660	446,895	287,990	1,151,145
Sep	248,127	793,463	44,994	954,771	1,104,874	93,904	1,198,778	873,351	127,350	294,690	451,310	316,458	1,189,810
Oct	235,510	742,814	15,785	965,962	1,067,484	104,440	1,171,925	862,322	124,929	291,488	445,905	268,732	1,131,054
Nov	232,263	852,270	29,143	973,963	1,035,793	62,331	1,098,125	905,909	132,505	331,981	441,422	266,461	1,172,370
Dec	221,479	895,650	24,671	961,269	1,129,424	81,232	1,210,657	913,264	134,836	338,320	440,107	221,857	1,135,121
YTD	241,801	816,201	29,956	962,831	1,069,144	84,723	1,153,868	883,839	127,806	318,720	437,313	241,321	1,125,161
2011													
Jan	227,976	770,288	29,956	1,015,547	1,146,370	81,188	1,227,559	936,576	128,166	329,793	478,616	196,495	1,133,071
Feb	229,200	720,501	33,692	785,264	927,694	122,772	1,050,467	964,698	133,913	335,564	495,219	113,350	1,078,048
Mar	235,448	786,565	26,015	943,524	1,061,622	90,241	1,151,863	966,458	124,831	346,245	495,381	159,234	1,125,693
Apr	226,348	869,566	52,102	973,991	1,114,335	72,054	1,186,390	965,802	129,526	347,705	488,570	219,419	1,185,221
May	233,177	897,280	27,069	980,808	1,157,721	103,324	1,261,045	934,716	124,036	342,291	468,388	246,110	1,180,827
Jun	225,227	760,513	34,934	973,839	1,174,055	88,455	1,262,511	946,220	130,579	336,974	478,666	195,130	1,141,350
Jul	213,441	822,328	9,284	996,202	1,170,862	98,441	1,269,304	916,045	124,309	308,612	483,123	266,831	1,182,877
Aug	222,493	913,966	44,155	982,829	1,170,883	96,739	1,267,623	922,553	128,510	311,994	482,048	324,332	1,246,885
Sep	221,612	760,657	31,172	913,062	1,109,329	127,661	1,236,991	918,741	126,104	314,813	477,824	297,605	1,216,347
Oct	209,542	718,407	40,981	858,489	1,007,600	102,042	1,109,643	872,334	116,708	304,526	451,099	186,003	1,058,337
Nov	224,322	767,471	33,792	795,555	1,073,475	105,597	1,179,072	868,768	116,443	329,994	422,330	186,552	1,055,321
Dec	221,267	735,433	27,696	1,005,334	1,194,184	89,243	1,283,428	962,413	133,486	363,574	465,353	265,173	1,227,587
YTD	224,127	794,226	32,502	936,837	1,110,405	97,941	1,208,346	931,072	126,330	330,955	473,787	222,204	1,153,277
2012													
Jan	222,286	906,091	67,115	1,016,125	1,147,246	82,265	1,229,512	966,287	128,559	344,079	493,648	235,957	1,202,245
Feb	237,055	973,478	64,266	1,014,999	1,230,556	138,340	1,368,897	1,004,675	131,385	368,470	504,819	263,711	1,268,386
Mar	249,193	957,280	22,654	1,030,605	1,177,398	117,925	1,295,323	1,012,997	129,824	371,638	511,533	259,552	1,272,549
Apr	242,280	899,262	48,899	1,006,215	1,219,949	158,464	1,378,414	989,953	128,876	361,545	499,532	267,854	1,257,808
May	223,287	849,587	56,697	981,062	1,181,514	111,626	1,293,140	1,013,578	128,269	366,582	518,725	257,207	1,270,785
Jun	233,066	867,405	34,847	922,079	1,137,514	84,640	1,222,154	972,960	133,040	356,596	483,323	306,763	1,279,724
Jul	242,146	811,491	56,246	922,854	1,096,213	107,652	1,203,866	967,348	128,873	334,826	503,648	231,038	1,198,387
Aug	239,138	796,656	33,107	950,729	1,132,157	152,886	1,285,043	983,332	131,003	336,173	516,156	218,331	1,201,664
Sep	240,967	758,599	24,794	942,304	1,171,208	110,271	1,281,479	965,707	127,631	325,923	512,153	283,105	1,248,813
Oct	237,710	877,855	23,337	924,318	1,091,945	101,587	1,193,532	967,620	132,739	338,130	496,750	255,897	1,223,518
Nov	250,652	769,031	36,407	1,001,776	1,216,140	113,546	1,329,686	1,003,957	140,489	367,874	495,593	291,943	1,295,901
Dec	245,908	858,377	24,949	1,018,381	1,232,180	84,714	1,316,895	1,017,116	148,169	372,726	496,220	241,720	1,258,836
YTD	238,616	860,211	41,036	977,521	1,168,985	113,491	1,282,477	988,769	132,409	353,641	502,718	259,094	1,247,863

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance				Oil Products			Oil Products					Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
2013													
Jan	250,641	915,062	33,438	1,061,553	1,289,301	122,069	1,411,370	1,040,868	139,129	374,635	527,103	215,759	1,256,627
Feb	254,150	883,202	35,923	1,142,078	1,371,284	134,882	1,506,166	1,071,636	139,639	379,359	552,637	249,879	1,321,516
Mar	251,509	929,746	49,949	1,076,647	1,389,647	140,780	1,530,427	1,072,497	142,647	387,167	542,681	275,121	1,347,618
Apr	249,757	907,302	19,368	1,106,089	1,340,561	108,074	1,448,636	1,030,335	144,120	373,764	512,451	236,859	1,267,195
May	252,425	803,681	23,458	1,001,517	1,198,036	171,480	1,369,517	1,029,307	143,237	386,877	499,192	214,058	1,243,366
Jun	242,592	816,178	28,760	997,179	1,210,253	162,489	1,372,743	996,808	141,096	350,609	505,102	180,453	1,177,262
Jul	234,579	776,218	28,068	1,088,694	1,407,350	139,750	1,547,101	1,003,462	141,546	346,602	515,313	273,365	1,276,827
Aug	231,909	968,691	26,395	1,097,294	1,421,018	144,354	1,565,373	979,397	144,938	330,406	504,052	318,870	1,298,268
Sep	225,836	765,253		1,085,038	1,465,931	135,098	1,601,029	958,016	133,875	320,932	503,208	305,970	1,263,987
Oct	239,618	881,270	37,748	1,075,959	1,451,612	169,146	1,620,758	988,294	138,643	337,634	512,016	286,174	1,274,468
Nov	230,310	942,714	12,607	1,087,176	1,444,277	93,404	1,537,682	1,015,697	142,964	365,239	507,494	320,546	1,336,244
Dec	225,200	827,312	7,422	1,121,398	1,435,767	96,215	1,531,983	1,008,467	142,494	370,960	495,012	311,396	1,319,863
YTD	240,639	868,040	25,284	1,077,966	1,368,771	134,921	1,503,692	1,015,952	141,214	360,277	514,460	265,886	1,281,839
2014													
Jan	221,484	895,480	16,183	1,115,652	1,468,485	166,277	1,634,763	1,084,076	137,142	372,806	574,127	233,760	1,317,837
Feb	233,297	878,409		971,488	1,356,438	202,091	1,558,529	1,054,921	140,722	381,670	532,529	186,658	1,241,580
Mar	233,705	738,525	12,602	980,716	1,350,911	179,569	1,530,480	1,057,293	143,140	380,581	533,571	202,617	1,259,910
Apr	227,695	789,321	22,525	1,042,965	1,426,414	184,580	1,610,995	1,069,632	146,379	380,543	542,710	203,055	1,272,688
May	243,327	830,976	9,553	1,019,620	1,373,697	219,707	1,593,404	1,059,866	144,109	384,079	531,678	236,818	1,296,685
Jun	239,692	688,491	12,816	959,284	1,359,412	198,846	1,558,259	1,013,664	141,258	357,528	514,878	235,771	1,249,436
Jul	227,825	638,547		876,967	1,290,032	220,746	1,510,778	1,018,256	146,793	346,084	525,377	207,375	1,225,631
Aug	232,365	816,225	6,167	1,074,284	1,465,275	208,765	1,674,040	981,079	149,380	334,908	496,790	337,480	1,318,559
Sep	234,472	929,615		1,060,982	1,452,794	168,562	1,621,356	1,007,395	148,391	337,687	521,315	309,316	1,316,712
Oct	226,150	814,997		1,022,781	1,388,050	182,598	1,570,648	1,002,704	147,894	338,725	516,084	293,987	1,296,692
Nov	240,446	903,452		1,103,050	1,511,785	144,158	1,655,943	1,018,922	150,660	359,766	508,495	255,495	1,274,418
Dec	236,927	744,953		1,114,322	1,527,653	148,605	1,676,258	1,079,091	162,508	386,647	529,935	326,167	1,405,258
YTD	233,087	804,911	6,684	1,028,835	1,414,464	185,362	1,599,827	1,037,204	146,577	363,319	527,307	252,931	1,290,136

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2M
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

2010													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	481	427	499	477	506	457	480	519	511	540	520	592	6,010
- Production	371	315	373	352	329	325	389	382	376	391	377	435	4,416
GSP	222	176	214	199	183	195	236	239	233	250	234	295	2,676
Refinery	147	138	156	151	144	130	153	143	143	141	143	140	1,730
Others	2	2	2	2	2	1							10
- Import	110	112	126	125	177	132	91	136	136	149	143	157	1,593
Total Demand	523	438	484	477	482	490	479	525	514	530	514	557	6,012
- Consumption	520	436	482	475	480	488	477	522	512	527	513	556	5,987
Cooking	199	187	204	192	195	199	210	209	203	208	209	219	2,435
Industry	62	59	67	58	66	64	66	69	68	68	68	65	778
Automobile	55	52	55	54	54	54	58	58	55	58	61	67	680
Feedstock*	134	72	88	107	132	132	104	150	148	154	139	166	1,527
Own Used	70	65	68	63	33	39	39	37	36	39	37	40	567
- Feedstock	48	45	48	44	16	20	24	20	20	22	24	24	354
- Energy	22	21	20	19	17	19	16	17	16	16	13	16	213
- Export	2	2	2	2	2	2	2	3	2	3	1	1	25
Balance (Supply-Demand)	-41	-11	15	0	25	-34	2	-6	-3	10	6	35	-2

2011													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	564	508	562	550	604	590	594	615	636	582	521	620	6,946
- Production	450	395	471	476	489	417	447	456	466	441	432	483	5,422
GSP	287	252	300	298	308	250	262	279	312	287	288	305	3,428
Refinery	163	143	171	178	181	167	185	177	154	154	143	177	1,994
Others													
- Import	114	114	90	74	115	173	147	159	170	140	89	137	1,524
Total Demand	578	506	596	571	586	577	597	619	584	572	538	584	6,906
- Consumption	577	505	594	570	585	576	596	617	583	570	536	582	6,890
Cooking	219	199	221	214	217	217	226	238	228	224	210	245	2,656
Industry	65	62	72	60	68	67	61	58	57	51	46	51	718
Automobile	67	62	69	70	77	78	88	91	86	76	68	88	920
Feedstock*	188	159	194	195	192	184	189	197	176	159	142	137	2,113
Own Used	38	22	39	31	31	30	33	33	35	60	70	61	483
- Feedstock	26	14	24	17	16	19	21	21	26	53	65.28	51	353
- Energy	13	8	15	13	14	11	12	12	9	8	5	10	131
- Export	1	1	1	1	1	1	1	1	2	2	2	2	16
Balance (Supply-Demand)	-13	3	-34	-21	19	12	-3	-4	52	10	-17	36	40

2012													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	589	542	624	656	609	602	595	668	641	633	627	630	7,416
- Production	475	382	458	472	494	470	489	488	460	494	489	515	5,686
GSP	312	222	310	293	309	305	329	331	307	334	328	336	3,716
Refinery	163	161	148	179	185	164	159	157	154	160	162	179	1,971
Others													
- Import	113	160	167	185	115	132	106	180	181	139	137	115	1,730
Total Demand	598	549	623	607	624	601	632	657	632	628	609	636	7,396
- Consumption	597	548	622	607	624	600	632	656	631	627	608	635	7,386
Cooking	240	228	253	245	257	250	257	267	254	267	258	271	3,047
Industry	50	52	55	45	53	51	54	51	51	52	52	47	614
Automobile	94	88	89	85	88	86	89	90	85	88	88	91	1,061
Feedstock*	79	70	98	105	109	102	110	123	119	110	118	142	1,285
Own Used	134	110	127	126	118	111	122	126	121	109	92	84	1,380
- Feedstock	123	100	116	116	108	102	113	117	112	101	85.12	76	1,270
- Energy	11	11	10	10	10	9	8	9	9	8	7	8	110
- Export	2	1	1	1		1	1	1	1	1	1	1	10
Balance (Supply-Demand)	-10	-7	1	49	-15	1	-37	11	9	5	18	-6	20

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

2013													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	567	606	639	612	655	602	627	613	594	647	619	637	7,419
- Production	474	425	504	476	452	419	490	432	409	453	442	471	5,447
GSP	322	274	334	314	302	291	327	262	246	287	282	282	3,524
Refinery	153	151	170	163	150	127	163	170	163	166	160	189	1,923
Others													
- Import	93	181	136	135	203	183	137	181	185	194	177	166	1,972
Total Demand	643	595	649	635	617	598	628	628	603	638	643	653	7,531
- Consumption	642	594	648	635	616	598	627	627	603	638	643	653	7,525
Cooking	248	198	196	187	196	188	199	210	190	200	195	202	2,409
Industry	50	49	55	45	53	50	52	51	50	51	51	46	602
Automobile	106	128	155	152	156	149	156	159	150	154	152	158	1,775
Feedstock*	114	98	122	130	86	81	96	133	119	114	127	106	1,327
Own Used	125	120	120	120	126	129	124	74	95	119	119	140	1,412
- Feedstock	117	114	113	113	120	112	117	67	88	113	112.30	127	1,314
- Energy	8	7	7	7	6	17	7	7	7	6	7	13	98
- Export	1	1			1	1	1	1					6
Balance (Supply-Demand)	-76	12	-9	-24	38	3	-1	-16	-9	9	-24	-16	-112

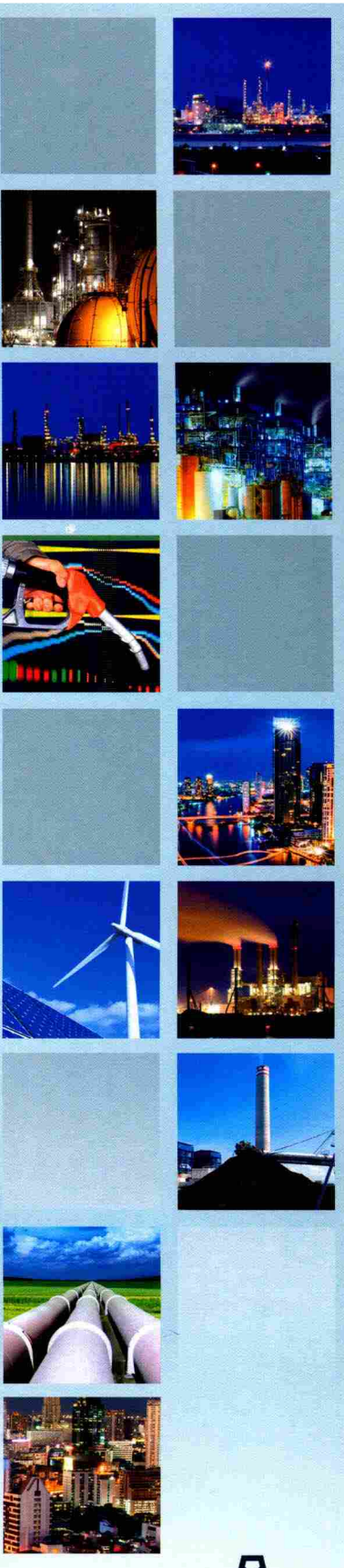
2014													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	660	583	580	646	654	609	622	640	629	689	595	698	7,605
- Production	479	408	446	464	472	428	440	480	446	486	463	493	5,506
GSP	292	268	297	302	307	296	292	315	297	337	321	328	3,651
Refinery	187	140	149	162	165	132	148	165	150	149	143	165	1,855
Others													
- Import	181	175	134	182	182	181	183	160	183	202	132	205	2,099
Total Demand	668	553	627	636	657	591	619	624	634	647	619	651	7,525
- Consumption	668	553	627	629	657	590	618	623	634	646	619	650	7,515
Cooking	210	184	188	174	180	165	179	181	178	184	177	188	2,188
Industry	49	46	50	42	48	47	49	48	50	50	49	48	577
Automobile	154	143	167	167	170	164	172	174	166	168	162	168	1,974
Feedstock*	137	138	151	145	146	122	96	105	123	132	120	131	1,546
Own Used	117	43	71	101	113	92	123	115	117	112	111	114	1,231
- Feedstock	110	36	64	91	101	86	115	104	109	103	101.96	108	1,129
- Energy	8	8	6	10	12	6	8	11	8	9	9	6	102
- Export				7								1	10
Balance (Supply-Demand)	-8	30	-47	10	-3	19	4	17	-6	42	-24	48	80

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

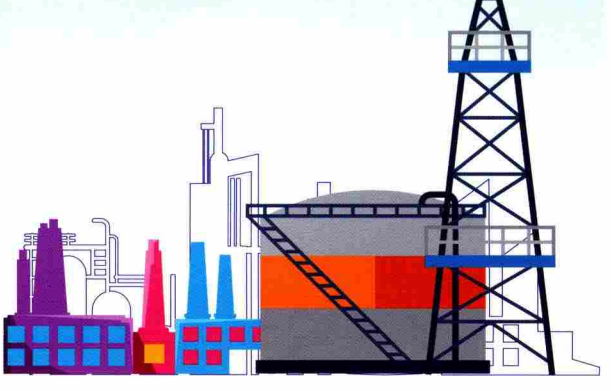
* Including own used as Feedstock of IRPC and PTTGC





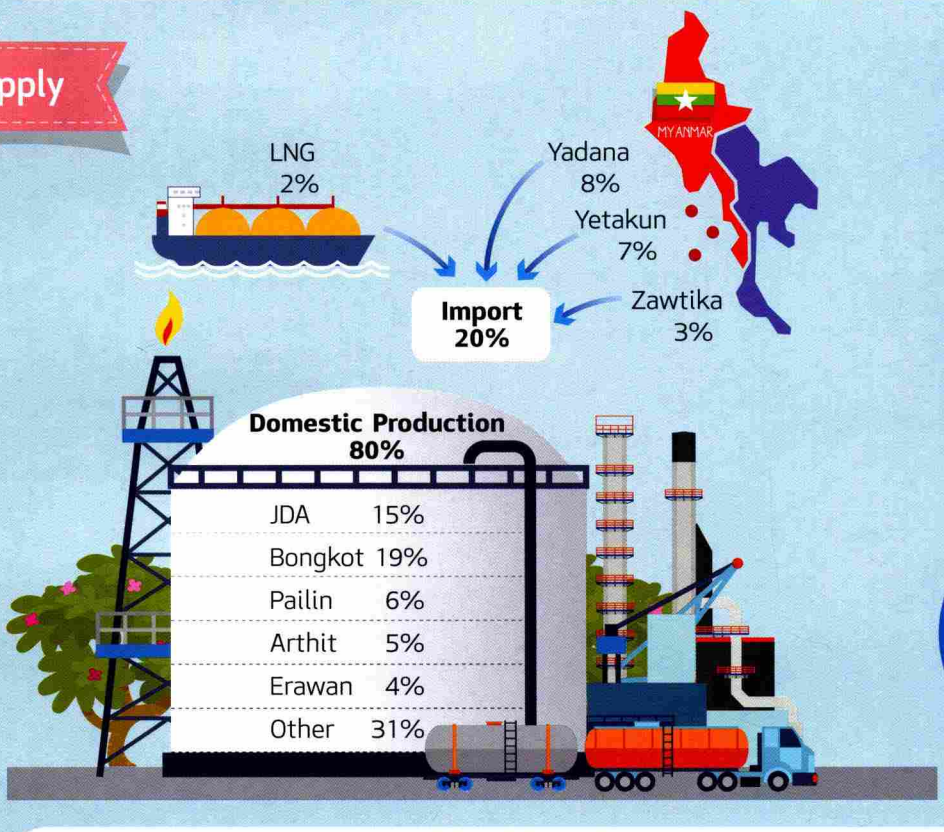
Chapter 3

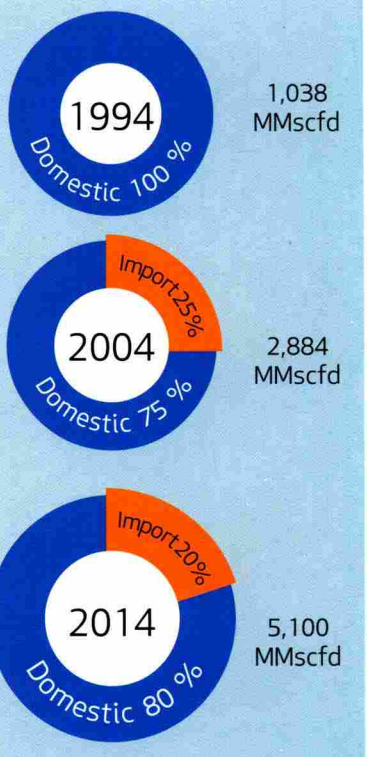
Natural Gas



Natural Gas

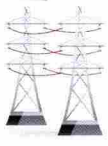
Supply



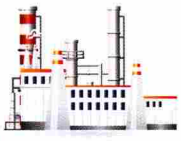


Demand

Share



Electricity
59%



Industry
14%

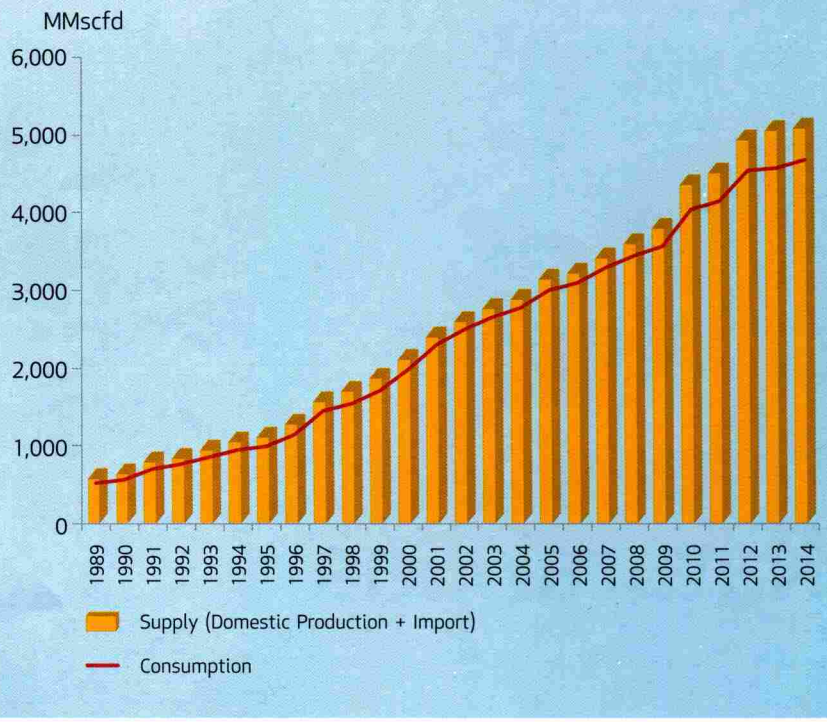


GSP
20%



Transport
7%

Natural Gas Supply and Consumption

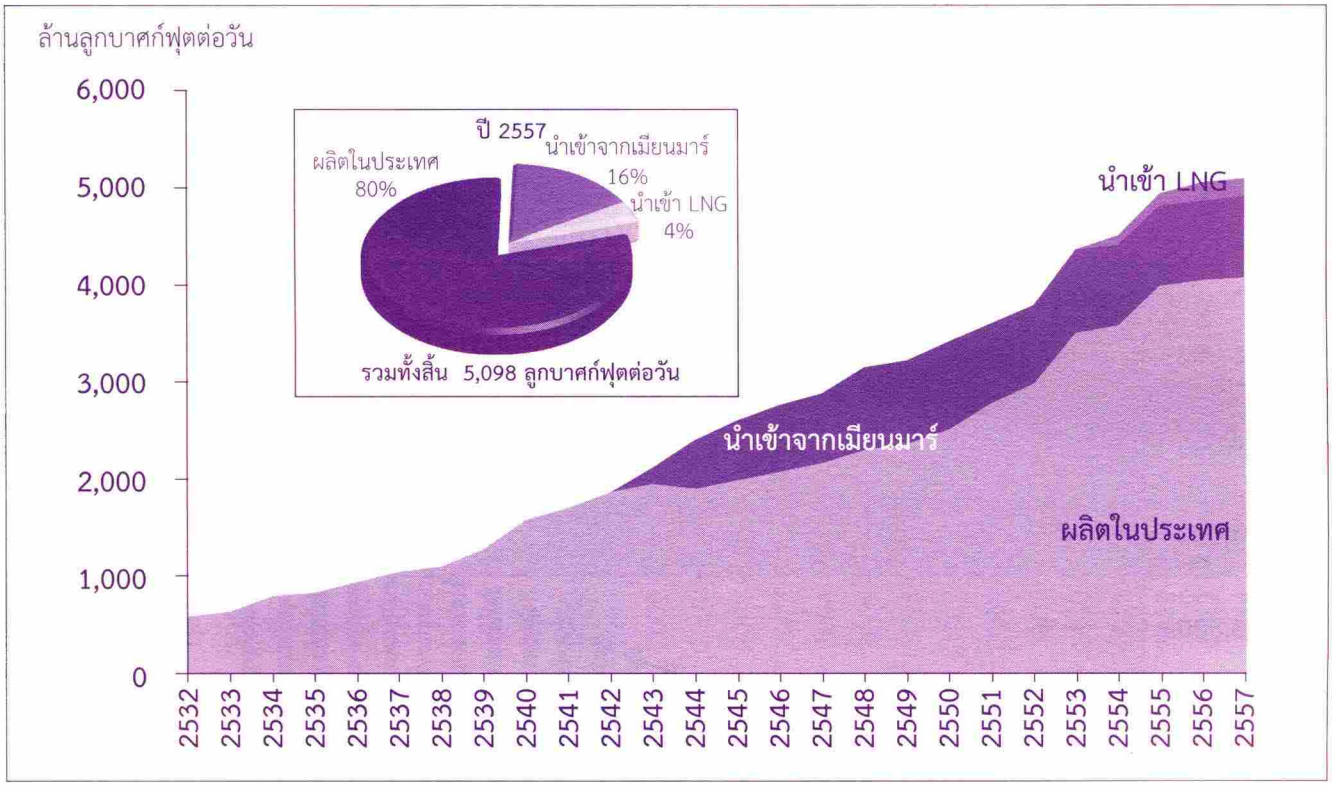


บทที่ 3

ก๊าซธรรมชาติ

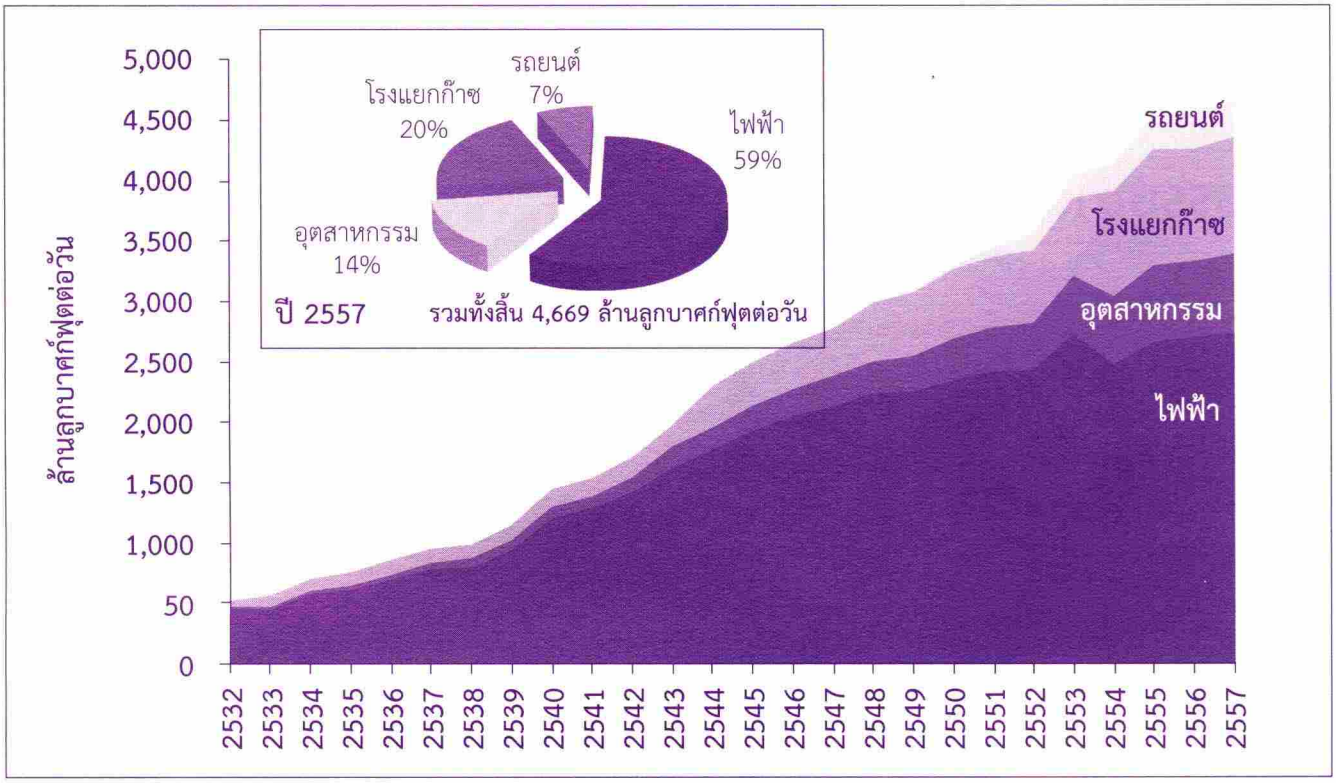
การจัดหาก๊าซธรรมชาติ ประเทศไทยเริ่มผลิตก๊าซธรรมชาติในปี 2524 จากแหล่งเอราวัณ แต่ในปัจจุบันมีแหล่งก๊าซธรรมชาติที่สำคัญเพิ่มขึ้นอีกหลายแหล่ง ได้แก่ แหล่งบงกช เจดีเอ อาทิตย์ และไพลิน เป็นต้น โดยในปี 2557 การผลิตก๊าซธรรมชาติในประเทศอยู่ที่ระดับ 4,073 ล้านลูกบาศก์ฟุตต่อวัน คิดเป็นสัดส่วนร้อยละ 80 ส่วนที่เหลือร้อยละ 20 เป็นการนำเข้าจากต่างประเทศ ซึ่งแบ่งเป็นการนำเข้าจากพม่า 843 ล้านลูกบาศก์ฟุตต่อวัน และเป็นการนำเข้า LNG จำนวน 182 ล้านลูกบาศก์ฟุตต่อวัน รวมเป็นการจัดหาทั้งสิ้น 5,098 ล้านลูกบาศก์ฟุตต่อวัน ทั้งนี้ประเทศไทยเริ่มมีการนำเข้า LNG เป็นครั้งแรกในเดือนพฤษภาคม 2554

การจัดหาก๊าซธรรมชาติ

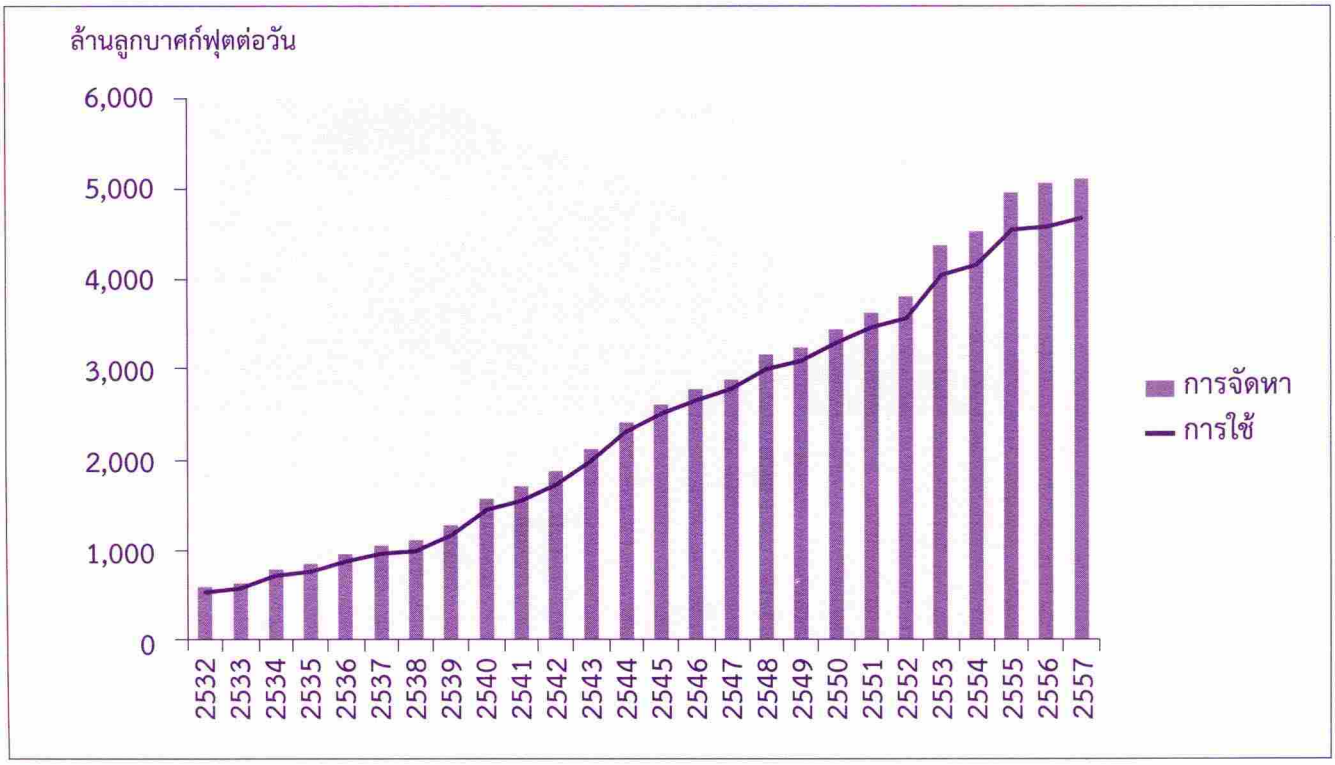


การใช้ก๊าซธรรมชาติ ในปี 2557 มีปริมาณการใช้ทั้งสิ้น 4,669 ล้านลูกบาศก์ฟุตต่อวัน ก๊าซธรรมชาติจะถูกนำไปใช้ในการผลิตไฟฟ้ามากที่สุดคือร้อยละ 59 ส่วนที่เหลือเป็นการใช้ในโรงแยกก๊าซ ร้อยละ 20 อุตสาหกรรม ร้อยละ 14 และใช้ในการขนส่ง (CNG) ร้อยละ 7

การใช้ก๊าซธรรมชาติรายสาขา



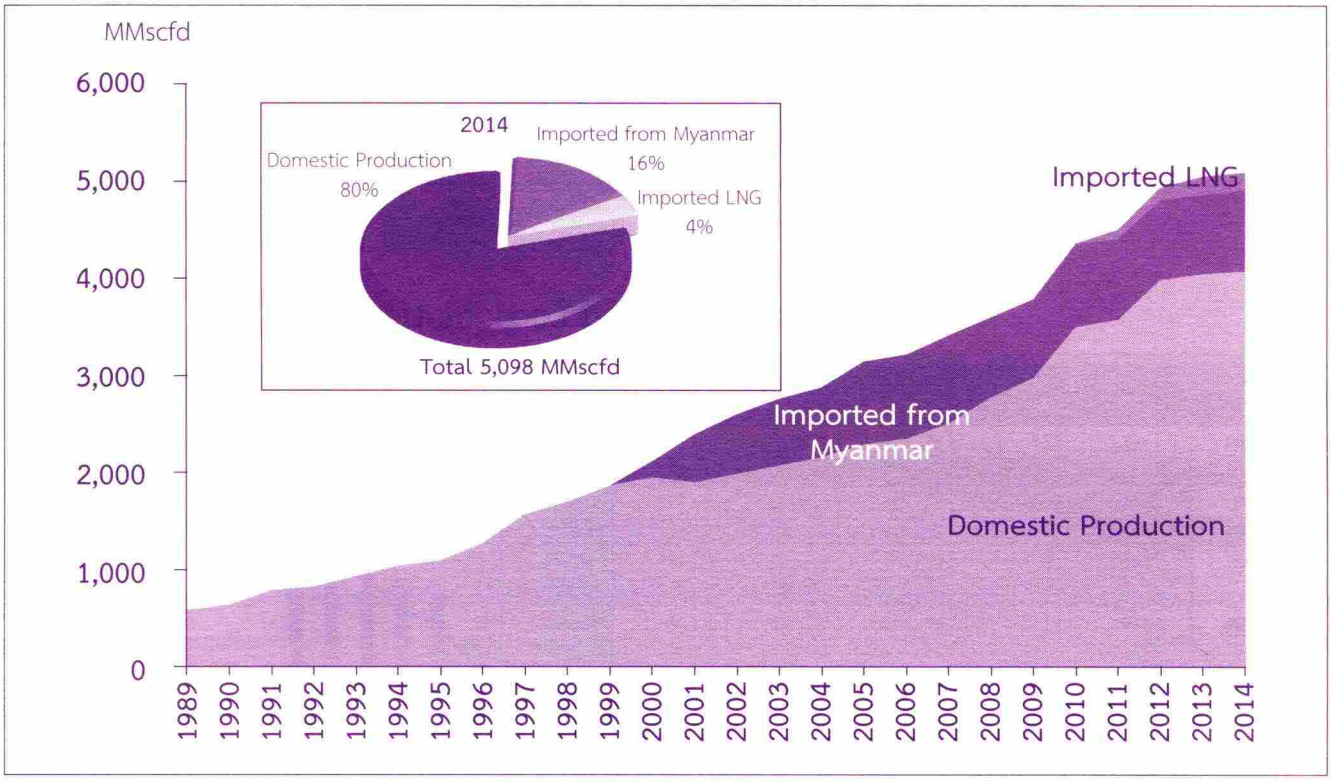
การจัดหาและการใช้ก๊าซธรรมชาติ



Chapter 3: Natural GAS

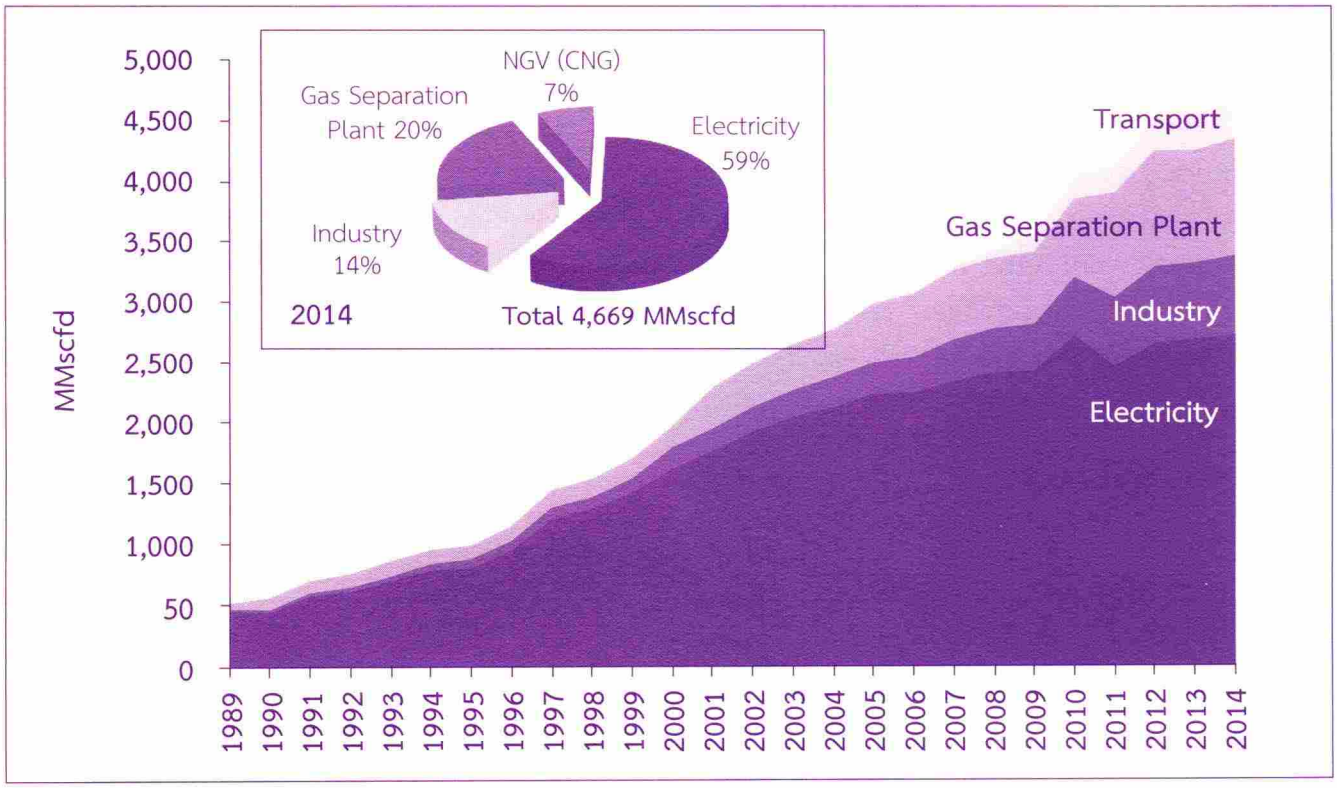
Natural Gas Supply. Natural gas production in Thailand began in 1981 from Erawan field; to date, additional major gas fields have been discovered, comprising Bong Kot, JDA (Thailand-Malaysia Joint Development Area), Arthit and Pailin. In 2014, domestic natural gas production was at a level of 4,073 million standard cubic feet per day (MMscfd), accounting for a share of 80%; the remaining 20% was imported from Myanmar 843 MMscfd and imported LNG 182 MMscfd, making a total natural gas supply of the country at 5,098 MMscfd. There was LNG imported in Thailand starting in May 2011.

Natural Gas Supply



Natural Gas Consumption. The total volume of natural gas consumption in 2014 was 4,669 MMscfd. Natural gas was mainly used as fuel in power generation, holding a share of 59% of the total consumption in the year. The remainder was used in the following: gas separation plants, at a share of 20%; the industrial sector, 14%; and the transport (CNG), 7%.

Natural Gas Consumption by Sector



Natural Gas Supply and Consumption

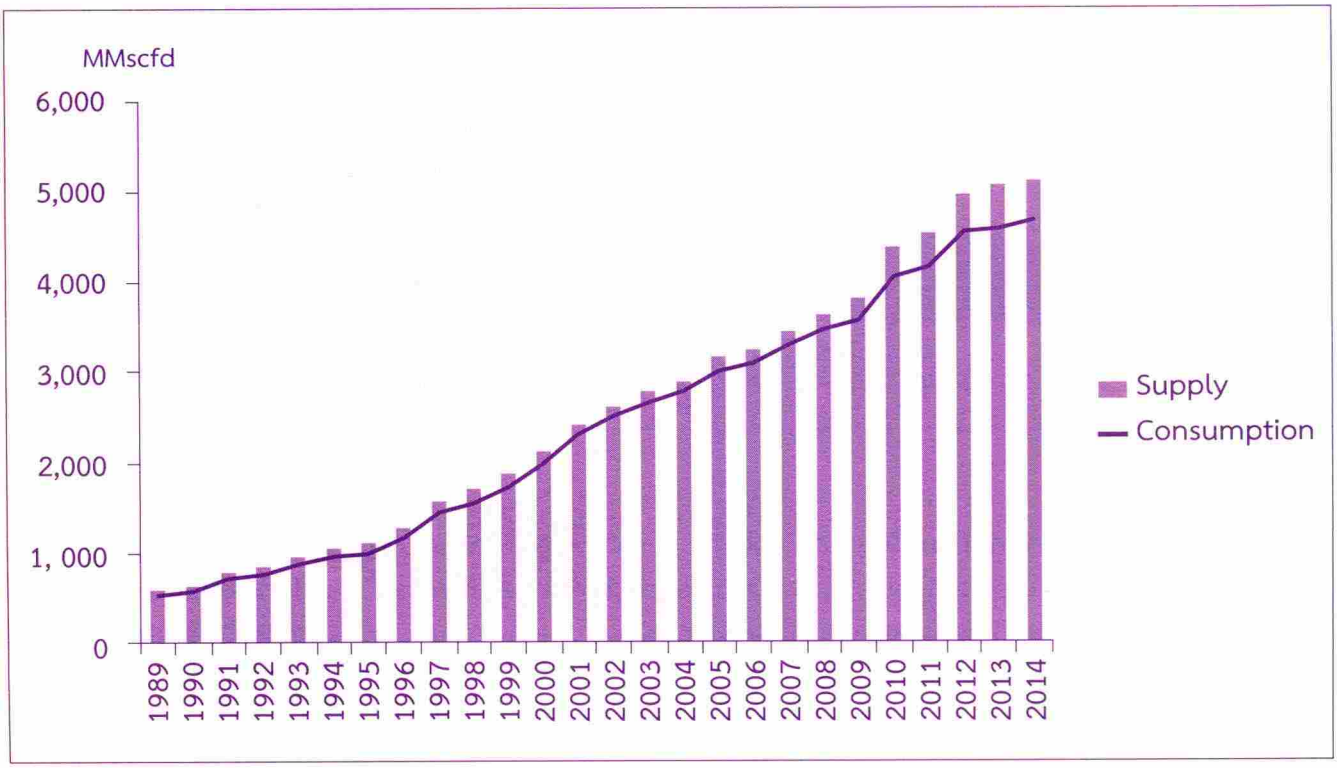


Table 3.1-1Y
Production and Import of Natural Gas

Unit : MMscfd

Year	Domestic Production														Import					Grand Total
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun	LNG	Zawtika	Total Import	
1990	41			231		201								158	631						631
1991	43		51	284		212								192	782						782
1992	50		57	253		206			128					138	832						832
1993	56		56	290		197			162	70				110	939						939
1994	65		63	267		198			160	202				82	1,038						1,038
1995	68		64	285		195	2		152	237				95	1,099						1,099
1996	60		65	268		203	49		160	336				126	1,267						1,267
1997	61		79	294		219	50		209	344				307	1,564						1,564
1998	55		90	299		211	25		246	437				335	1,698	2				2	1,700
1999	56	27	93	306	61	171	16		253	578				299	1,860	2				2	1,861
2000	59	97	71	278	234	125	24		208	548				304	1,948	128	36			164	2,113
2001	57	118	60	266	212	118	9		199	584				275	1,900	377	119			496	2,396
2002	56	152	59	266	298	114	9		228	566		11		229	1,986	418	199			617	2,603
2003	55	169	50	281	406	96	45		189	516		30		241	2,077	410	275			686	2,763
2004	54	147	35	274	412	104	64		187	597		24		259	2,158	439	287			726	2,884
2005	60	157	33	277	435	118	47		221	605		41		297	2,292	431	426			857	3,149
2006	50	159	31	278	438	90	27	6	263	627		41		343	2,353	452	417			869	3,222
2007	46	172	26	278	457	108	13	93	309	629		65		319	2,515	473	433			906	3,421
2008	41	147	23	275	431	101	14	85	286	604	278	100	126	268	2,778	434	394			828	3,606
2009	54	86	20	244	417	64	24	81	177	540	418	110	441	315	2,990	409	394			803	3,794
2010	63	76	18	256	430	82	85	87	199	596	501	95	644	374	3,506	434	419			853	4,359
2011	43	86	16	239	411	111	95	84	179	606	407	56	758	487	3,577	426	404	98		928	4,505
2012	45	46	14	255	361	163	85	94	190	869	268	55	748	802	3,996	423	397	130		950	4,946
2013	54	41	13	197	363	143	59	88	226	1,008	252	47	735	818	4,044	419	403	191		1,013	5,057
2014	47	48	12	219	314	138	69	106	176	975	246	56	761	908	4,073	413	339	182	91	1,025	5,098

Remark : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF) and PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1Y
Distribution of NGL

Year	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
1990	5	133	2	140	30,442	836,226	11,708	878,376	83	2,291	32	2,406
1991	85	113	12	211	537,469	712,688	74,725	1,324,883	1,472	1,952	204	3,629
1992	152	47	20	219	953,609	295,856	125,815	1,375,281	2,605	808	343	3,757
1993	140	73	31	244	879,449	461,695	195,308	1,536,452	2,409	1,264	535	4,209
1994	67	113	43	223	419,846	711,359	273,465	1,404,672	1,150	1,948	749	3,848
1995	96	94	37	227	602,360	588,716	234,949	1,426,026	1,650	1,612	643	3,906
1996	33	165	57	255	205,600	1,040,130	358,172	1,603,903	561	2,841	978	4,382
1997	153	28	154	335	961,815	175,920	968,882	2,106,618	2,635	481	2,654	5,771
1998	178	18	164	360	1,118,416	113,311	1,031,602	2,263,330	3,064	310	2,826	6,200
1999	199	27	171	396	1,249,394	169,719	1,073,063	2,492,177	3,423	464	2,939	6,827
2000	149	23	331	503	938,176	146,385	2,079,331	3,163,893	2,563	399	5,681	8,644
2001	106	55	395	556	669,375	343,469	2,482,794	3,495,640	1,833	941	6,802	9,577
2002	57		489	546	358,911		3,077,307	3,436,219	983		8,430	9,414
2003	49	107	486	642	310,746	675,638	3,054,569	4,040,954	851	1,851	8,368	11,071
2004	79	116	429	624	499,812	728,529	2,695,422	3,923,764	1,365	1,990	7,364	10,720
2005	176	6	543	724	1,106,817	34,611	3,415,103	4,556,531	3,032	94	9,356	12,483
2006	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984	9,429	12,629
2007	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596
2008	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990
2009	114		676	790	717,208		4,253,688	4,970,897	1,964		11,653	13,618
2010	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962
2011	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878
2012	300		802	1,101	1,884,687		5,041,486	6,926,173	5,149		13,774	18,923
2013	322		767	1,089	2,022,555		4,826,783	6,849,339	5,541		13,224	18,765
2014	398		730	1,128	2,504,132		4,592,107	7,096,239	6,860		12,581	19,441

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2Y
Consumption of Natural Gas by Sector

Unit : MMscfd

Year	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
1990	452			452	17	97		567
1991	580			580	24	98		702
1992	612			612	34	113		759
1993	693			693	41	128		862
1994	783			783	54	117		954
1995	801			801	73	114		988
1996	888		60	948	78	122		1,148
1997	1,119		83	1,202	96	146		1,444
1998	1,152		140	1,291	92	158		1,542
1999	1,153	2	267	1,423	123	167		1,713
2000	1,244	71	305	1,620	181	175		1,976
2001	1,070	360	349	1,779	177	340		2,296
2002	1,075	486	375	1,936	198	361		2,495
2003	991	662	401	2,054	217	385		2,657
2004	994	723	418	2,134	248	389	3	2,774
2005	1,011	802	428	2,242	258	491	6	2,997
2006	1,016	825	417	2,257	291	527	11	3,086
2007	1,054	847	445	2,346	347	572	24	3,288
2008	1,014	968	441	2,423	361	583	77	3,444
2009	1,101	905	429	2,435	387	599	143	3,564
2010	1,346	943	440	2,728	478	652	181	4,039
2011	1,148	866	462	2,476	569	867	231	4,143
2012	1,330	922	419	2,670	628	958	278	4,534
2013	1,229	873	593	2,695	635	930	307	4,568
2014	1,208	852	680	2,740	653	960	317	4,669

Remark : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.1-1M
Production and Import of Natural Gas

Unit : MMscfd

Month	Domestic Production															Import					Grand Total
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun	LNG	Zawtika	Total Import	
2010																					
Jan	64	85	13	248	438	52	151	81	146	604	458	103	444	301	3,191	390	374			764	3,955
Feb	63	87	17	240	464	58	102	72	133	528	545	119	537	303	3,267	512	466			978	4,245
Mar	63	89	20	248	467	80	129	104	166	629	579	120	619	322	3,634	353	322			675	4,309
Apr	65	88	19	244	399	56	97	87	173	573	448	120	698	309	3,377	467	436			903	4,280
May	62	81	20	253	399	87	72	100	181	540	501	110	688	364	3,458	476	457			933	4,391
Jun	64	94	17	261	394	89	89	79	224	621	522	107	708	407	3,678	429	440			869	4,547
Jul	63	83	17	251	433	90	81	82	223	623	450	94	541	398	3,431	459	443			902	4,332
Aug	62	70	20	275	448	76	75	79	247	639	419	89	666	398	3,561	429	420			849	4,411
Sep	62	65	20	275	454	84	61	77	247	539	516	86	713	405	3,604	474	447			921	4,525
Oct	57	61	18	259	449	67	58	83	242	623	524	67	748	412	3,669	424	423			847	4,516
Nov	65	54	18	256	399	126	52	99	208	600	531	70	688	453	3,621	395	394			790	4,410
Dec	65	58	17	259	414	111	58	97	195	627	523	53	672	414	3,563	411	411			822	4,386
YTD	63	76	18	256	430	82	85	87	199	596	501	95	644	374	3,506	434	419			853	4,359
2011																					
Jan	71	88	18	240	463	109	67	87	194	585	525	60	706	464	3,678	312	309			622	4,299
Feb	56	75	17	242	483	91	88	89	198	634	523	62	704	498	3,760	394	397			791	4,551
Mar	63	87	18	242	460	136	104	92	182	646	523	59	799	474	3,884	426	411			838	4,722
Apr	33	97	14	248	477	130	105	101	172	637	417	73	744	423	3,670	448	419			867	4,537
May	39	48	19	251	421	124	106	108	169	650	480	88	810	472	3,785	499	452	94		1,045	4,830
Jun	40	90	18	234	359	74	93	110	158	635	461	65	872	440	3,650	507	445	242		1,194	4,844
Jul	38	101	18	147	380	85	89	97	102	617	379	34	774	357	3,218	506	459	212		1,177	4,395
Aug	37	84	16	261	398	113	94	100	208	544	339	36	776	394	3,400	486	445	297		1,229	4,629
Sep	35	88	13	253	383	111	103	61	212	651	344	41	802	409	3,507	505	458	119		1,083	4,590
Oct	34	85	13	253	384	110	97	53	207	598	337	38	675	395	3,279	372	362	97		830	4,109
Nov	38	97	12	245	344	128	93	51	171	490	302	56	705	712	3,444	358	374	104		836	4,280
Dec	38	89	12	251	379	121	102	54	175	584	259	62	732	802	3,660	304	316			620	4,280
YTD	43	86	16	239	411	111	95	84	179	606	407	56	758	487	3,577	426	404	98		928	4,505
2012																					
Jan	38	42	13	270	355	142	61	86	177	845	272	59	777	756	3,892	297	296	115		707	4,599
Feb	41	75	12	275	333	134	64	71	198	556	264	77	769	724	3,593	405	396	116		917	4,510
Mar	42	38	13	264	367	159	66	68	216	690	263	81	784	794	3,846	475	444	199		1,118	4,963
Apr	43	37	12	265	365	162	67	79	193	719	287	79	761	797	3,864	294	276			571	4,434
May	44	35	16	275	377	189	96	118	170	664	278	43	794	845	3,944	432	398	115		945	4,889
Jun	43	46	15	271	368	196	99	109	156	632	281	43	713	927	3,901	492	447	222		1,161	5,062
Jul	49	46	16	269	339	192	89	115	167	1,087	260	54	736	847	4,267	430	421	189		1,040	5,307
Aug	46	54	15	181	397	117	61	90	205	1,123	271	52	655	771	4,038	450	421	100		971	5,009
Sep	49	51	16	224	329	188	74	74	190	1,073	257	37	747	767	4,077	399	378	148		924	5,001
Oct	48	40	14	259	343	180	101	66	153	999	270	46	770	833	4,122	484	447	108		1,039	5,161
Nov	46	52	14	254	376	180	131	126	248	1,003	265	42	768	807	4,313	483	438	98		1,019	5,332
Dec	47	45	15	256	382	120	113	120	210	1,012	250	47	702	755	4,076	435	402	144		981	5,057
YTD	45	46	14	255	361	163	85	94	190	869	268	55	748	802	3,996	423	397	130		950	4,946

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

Unit : MMscfd

Month	Domestic Production															Import					Grand Total
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun	LNG	Zawtika	Total Import	
2013																					
Jan	49	40	15	262	387	120	78	110	257	1,031	286	54	492	784	3,965	415	394	143		952	4,917
Feb	50	42	14	218	375	119	72	120	230	1,030	255	42	753	815	4,135	373	350	158		881	5,016
Mar	49	44	15	238	393	148	65	118	235	1,061	261	40	773	746	4,185	469	431	293		1,193	5,378
Apr	51	44	16	227	372	148	62	124	253	1,095	254	44	751	669	4,111	308	285	300		893	5,004
May	50	34	15	188	412	172	65	120	274	1,153	223	47	780	724	4,257	448	415	102		965	5,222
Jun	52	45	15	171	352	175	86	110	251	900	262	44	770	816	4,050	422	400	298		1,120	5,170
Jul	49	41	14	161	406	150	77	87	249	1,013	267	39	770	847	4,172	419	396	330		1,146	5,318
Aug	93	36	12	164	339	158	63	60	230	908	247	44	732	860	3,946	433	423	92		948	4,894
Sep	50	26	10	196	363	126	35	39	193	999	247	61	736	772	3,852	455	436	97		989	4,841
Oct	51	41	11	157	359	116	48	51	220	1,013	251	56	775	869	4,020	452	453	234		1,139	5,159
Nov	51	48	12	177	338	104	26	69	145	1,057	253	51	762	946	4,038	459	459	96		1,014	5,052
Dec	48	47	12	209	265	176	32	48	171	841	216	47	729	961	3,803	375	382	147		903	4,706
YTD	**54**	**41**	**13**	**197**	**363**	**143**	**59**	**88**	**226**	**1,008**	**252**	**47**	**735**	**818**	**4,044**	**419**	**403**	**191**		**1,013**	**5,057**
2014																					
Jan	49	52	12	228	306	202	85	97	132	1,000	252	49	753	987	4,203	241	159		144	544	4,747
Feb	52	52	13	220	311	182	86	115	143	1,012	253	43	773	991	4,243	280	376		165	822	5,065
Mar	40	56	13	235	292	160	82	127	149	1,060	266	68	747	990	4,285	409	380		145	934	5,219
Apr	50	60	13	234	330	145	112	117	161	667	257	80	787	945	3,959	399	387		309	1,095	5,054
May	51	59	13	223	331	115	109	132	151	1,061	253	59	664	931	4,151	417	406		289	1,112	5,263
Jun	49	51	13	231	346	102	84	133	188	1,085	207	46	559	892	3,985	413	375		294	1,082	5,067
Jul	47	49	12	221	316	115	69	120	178	896	214	55	721	884	3,898	402	338		198	939	4,836
Aug	48	41	11	221	308	111	49	71	146	1,002	233	45	800	835	3,922	490	345	180	240	1,256	5,178
Sep	47	42	9	217	297	137	49	49	178	1,008	244	34	783	783	3,880	525	333	241	104	1,203	5,083
Oct	46	32	11	221	335	153	38	97	225	1,005	261	37	857	875	4,194	459	312	248	147	1,166	5,360
Nov	44	37	11	205	320	143	29	112	233	922	272	69	862	927	4,186	487	352	223	149	1,211	5,398
Dec	46	39	12	169	273	90	34	95	231	972	239	81	831	863	3,975	422	315	192		929	4,904
YTD	**47**	**48**	**12**	**219**	**314**	**138**	**69**	**106**	**176**	**975**	**246**	**56**	**761**	**908**	**4,073**	**413**	**339**	**91**	**182**	**1,025**	**5,098**

Remark : Heat Value of NG from Myanmar = 1,000 BTU/SCF
Source : Department of Mineral Fuels (DMF) and PTT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1M
Distribution of NGL

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refin-ery	Solvent	Total	Export	Refinery	Solvent	Total
2010												
Jan	10		62	72	63,211		388,408	451,619	2,039		12,529	14,568
Feb	10		41	51	59,808		258,489	318,298	2,136		9,231	11,367
Mar	15		53	68	94,470		334,877	429,348	3,047		10,802	13,849
Apr	7		54	62	45,427		341,766	387,193	1,514		11,392	12,906
May	7		52	59	43,469		328,821	372,291	1,402		10,607	12,009
Jun	12		43	55	75,715		272,854	348,569	2,523		9,095	11,618
Jul	14		62	77	90,857		391,250	482,108	2,930		12,620	15,551
Aug	5		66	71	30,223		416,119	446,343	974		13,423	14,398
Sep	7		60	67	45,340		374,937	420,278	1,511		12,497	14,009
Oct	7		69	75	41,600		432,521	474,122	1,341		13,952	15,294
Nov	22		51	72	136,843		319,031	455,875	4,561		10,634	15,195
Dec	19		62	81	120,904		389,278	510,183	3,900		12,557	16,457
YTD	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962
2011												
Jan	14		71	85	90,801		445,082	535,884	2,929		14,357	17,286
Feb	7		62	69	45,055		389,470	434,526	1,609		13,909	15,518
Mar	10		74	83	61,904		463,242	525,146	1,996		14,943	16,940
Apr	7		77	83	42,476		482,451	524,928	1,415		16,081	17,497
May	7		78	85	43,885		490,275	534,161	1,415		15,815	17,231
Jun	17		58	75	106,660		362,491	469,151	3,555		12,083	15,638
Jul	20		53	73	126,183		336,060	462,243	4,070		10,840	14,911
Aug	28		62	89	173,596		387,039	560,635	5,599		12,485	18,085
Sep	18		64	82	110,211		404,429	514,640	3,673		13,480	17,154
Oct	28		61	89	175,663		384,932	560,595	5,666		12,417	18,083
Nov	19		53	72	122,214		331,588	453,802	4,073		11,052	15,126
Dec	28		65	93	177,229		407,598	584,827	5,717		13,148	18,865
YTD	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878
2012												
Jan	22		65	88	141,426		410,196	551,623	4,562		13,232	17,794
Feb	18		61	78	110,945		382,554	493,499	3,962		13,662	17,625
Mar	15		73	87	93,082		457,094	550,176	3,002		14,744	17,747
Apr	22		66	88	138,804		412,543	551,348	4,626		13,751	18,378
May	22		65	87	139,949		406,245	546,194	4,514		13,104	17,619
Jun	29		68	97	182,886		424,788	607,674	6,096		14,159	20,255
Jul	34		69	103	216,918		433,652	650,570	6,997		13,988	20,986
Aug	27		67	94	170,923		418,903	589,826	5,513		13,513	19,026
Sep	29		65	94	184,920		407,535	592,455	6,164		13,584	19,748
Oct	20		67	87	128,437		418,439	546,877	4,143		13,498	17,641
Nov	33		68	101	205,611		427,080	632,692	6,853		14,236	21,089
Dec	27		70	98	170,782		442,451	613,234	5,509		14,272	19,781
YTD	300		802	1,101	1,884,687		5,041,486	6,926,173	5,149		13,774	18,923

Table 3.2-1M (Cont.)
Distribution of NGL

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refin-ery	Solvent	Total	Export	Refinery	Solvent	Total
2013												
Jan	21		81	102	134,331		508,661	642,993	4,333		16,408	20,741
Feb	20		60	80	125,250		376,928	502,178	4,473		13,461	17,934
Mar	28		69	96	173,699		432,349	606,048	5,603		13,946	19,549
Apr	32		68	101	204,212		430,459	634,671	6,807		14,348	21,155
May	27		62	90	171,671		392,947	564,618	5,537		12,675	18,213
Jun	33		60	93	204,871		378,278	583,149	6,829		12,609	19,438
Jul	33		60	93	204,876		377,158	582,035	6,608		12,166	18,775
Aug	38		55	93	237,412		347,853	585,265	7,658		11,221	18,879
Sep	22		58	80	140,861		363,336	504,197	4,695		12,111	16,806
Oct	15		69	84	93,668		435,393	529,062	3,021		14,044	17,066
Nov	28		62	90	173,833		392,487	566,321	5,794		13,082	18,877
Dec	25		62	87	157,866		390,930	548,796	5,092		12,610	17,703
YTD	322		767	1,089	2,022,555		4,826,783	6,849,339	5,541		13,224	18,765
2014												
Jan	33		63	95	204,680		394,957	599,638	6,602		12,740	19,343
Feb	28		65	92	172,981		407,103	580,084	6,177		14,539	20,717
Mar	33		60	92	206,897		374,652	581,549	6,674		12,085	18,759
Apr	35		59	94	221,478		369,792	591,271	7,382		12,326	19,709
May	35		63	98	220,134		394,858	614,992	7,101		12,737	19,838
Jun	28		66	94	173,366		418,013	591,380	5,778		13,933	19,712
Jul	27		66	94	171,590		416,531	588,121	5,535		13,436	18,971
Aug	38		61	99	237,746		384,838	622,584	7,669		12,414	20,083
Sep	31		61	92	196,483		382,042	578,525	6,549		12,734	19,284
Oct	38		60	98	240,111		375,691	615,802	7,745		12,119	19,864
Nov	30		57	88	190,534		360,277	550,811	6,351		12,009	18,360
Dec	43		50	92	268,127		313,349	581,477	8,649		10,108	18,757
YTD	398		730	1,128	2,504,132		4,592,107	7,096,239	6,860		12,581	19,441

Source : PTT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2M
Consumption of Natural Gas by Sector

Unit : MMscfd

Month	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
2010								
Jan	1,043	919	434	2,397	428	597	154	3,576
Feb	1,196	1,087	435	2,719	473	520	171	3,884
Mar	1,491	761	434	2,686	499	573	176	3,933
Apr	1,264	1,027	444	2,735	450	563	165	3,913
May	1,377	1,070	445	2,891	464	552	167	4,074
Jun	1,459	1,053	434	2,946	488	552	181	4,166
Jul	1,356	996	416	2,767	472	673	179	4,091
Aug	1,374	902	437	2,713	492	745	181	4,131
Sep	1,403	955	454	2,811	506	749	190	4,256
Oct	1,419	893	464	2,777	472	837	193	4,278
Nov	1,427	826	445	2,697	491	682	204	4,075
Dec	1,331	847	434	2,612	498	767	210	4,086
YTD	**1,346**	**943**	**440**	**2,728**	**478**	**652**	**181**	**4,039**
2011								
Jan	1,176	697	466	2,338	485	859	207	3,890
Feb	1,341	752	471	2,564	501	840	230	4,135
Mar	1,202	893	486	2,581	576	972	231	4,360
Apr	1,089	911	468	2,469	562	932	215	4,178
May	1,239	980	478	2,697	570	897	238	4,401
Jun	1,171	1,013	496	2,680	605	812	246	4,342
Jul	1,087	955	472	2,514	591	756	242	4,103
Aug	1,154	1,004	475	2,633	601	784	248	4,265
Sep	1,113	888	477	2,478	627	975	248	4,327
Oct	1,013	782	437	2,232	581	803	222	3,838
Nov	1,100	793	421	2,314	563	871	197	3,945
Dec	1,099	715	402	2,216	568	907	243	3,934
YTD	**1,148**	**866**	**462**	**2,476**	**569**	**867**	**231**	**4,143**
2012								
Jan	1,177	714	406	2,297	584	924	267	4,072
Feb	1,263	873	424	2,559	626	730	276	4,192
Mar	1,386	915	412	2,713	601	960	279	4,552
Apr	1,299	729	405	2,433	631	933	260	4,257
May	1,342	944	406	2,691	635	949	278	4,553
Jun	1,386	1,026	404	2,816	631	979	280	4,706
Jul	1,466	958	398	2,822	639	989	271	4,723
Aug	1,214	1,009	410	2,632	642	994	283	4,550
Sep	1,349	894	424	2,666	655	942	284	4,547
Oct	1,314	1,045	424	2,783	646	1,017	285	4,730
Nov	1,420	1,042	458	2,919	647	1,034	292	4,892
Dec	1,339	915	456	2,710	600	1,035	278	4,624
YTD	**1,330**	**922**	**419**	**2,670**	**628**	**958**	**278**	**4,534**

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMscfd

Month	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
2013								
Jan	1,231	792	481	2,504	625	994	290	4,412
Feb	1,451	845	501	2,798	626	923	310	4,656
Mar	1,469	958	560	2,987	624	1,041	309	4,961
Apr	1,267	743	599	2,609	615	984	291	4,499
May	1,375	956	586	2,918	608	940	314	4,780
Jun	1,426	851	594	2,871	601	932	310	4,714
Jul	1,245	822	610	2,677	675	1,005	307	4,664
Aug	1,073	912	616	2,601	642	814	317	4,374
Sep	1,075	898	647	2,620	668	789	310	4,387
Oct	1,005	994	645	2,644	661	911	309	4,524
Nov	1,135	973	659	2,766	640	925	314	4,645
Dec	1,021	722	619	2,362	638	898	303	4,201
YTD	**1,229**	**873**	**593**	**2,695**	**635**	**930**	**307**	**4,568**
2014								
Jan	1,158	407	663	2,229	639	904	304	4,076
Feb	1,245	681	689	2,614	658	940	326	4,539
Mar	1,377	748	722	2,847	601	890	327	4,665
Apr	1,288	739	698	2,726	629	942	302	4,599
May	1,415	868	699	2,982	627	950	318	4,877
Jun	1,300	870	676	2,846	645	953	317	4,761
Jul	1,259	802	655	2,716	668	907	319	4,609
Aug	1,127	975	656	2,757	685	976	319	4,737
Sep	1,110	1,024	665	2,800	717	954	320	4,791
Oct	1,140	1,045	687	2,872	686	1,038	316	4,912
Nov	1,106	1,079	689	2,874	662	1,029	318	4,883
Dec	968	979	662	2,609	617	1,034	313	4,573
YTD	**1,208**	**852**	**680**	**2,740**	**653**	**960**	**317**	**4,669**

Remark : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

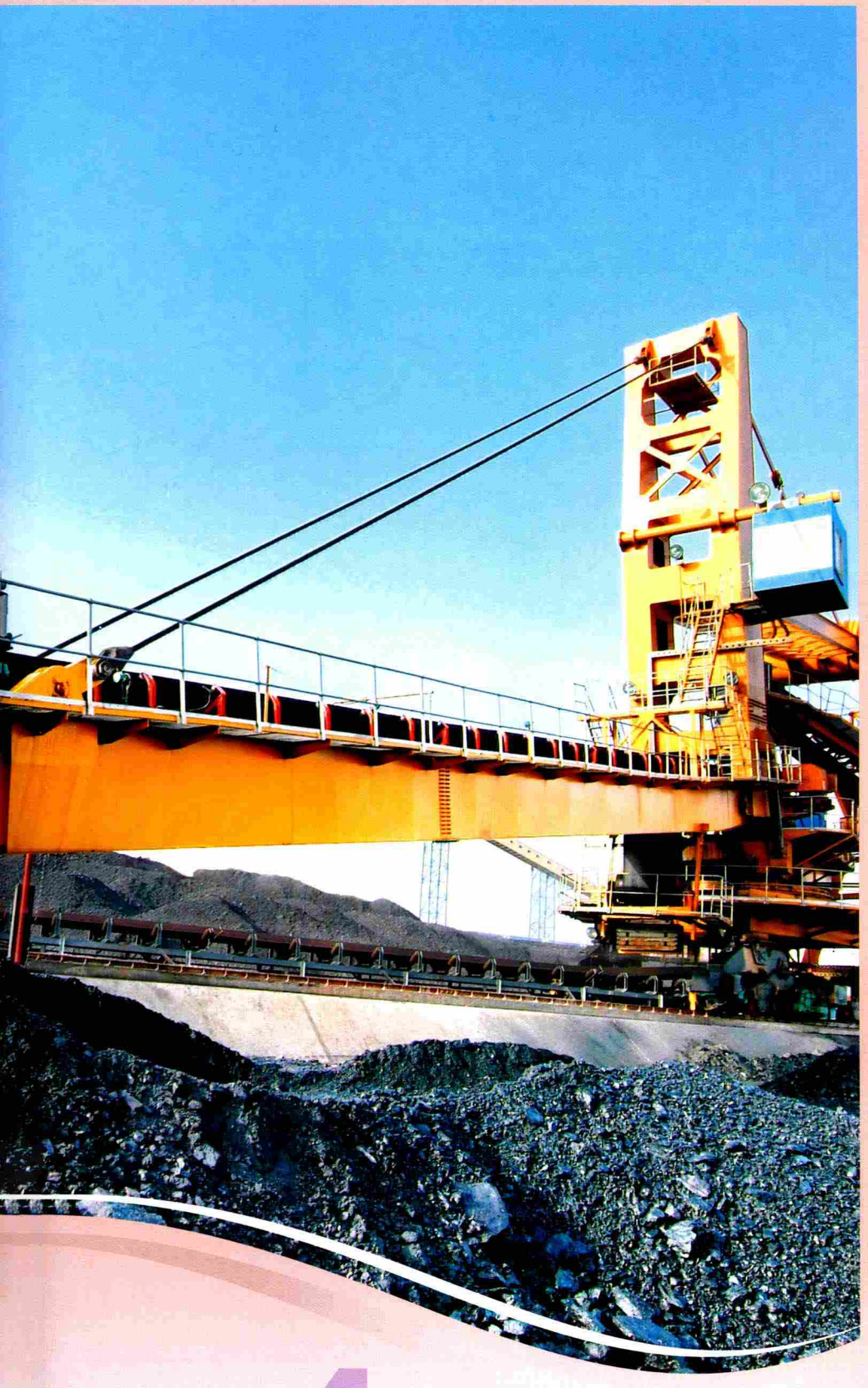
Table 3.2-3M
Consumption of Compressed Natural Gas (CNG)

	Vehicle (Unit)			Consumption (MMscf)					Petroleum Equivalent (Million Litres)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMscfd	Tons/Day	Gasoline	Diesel	Total
2010	**191,233**	**34,435**	**225,668**	**34,765**	**31,301**	**66,066**	**181**	**5,035**	**1,042**	**888**	**1,929**
Jan	136,780	28,687	165,467	2,334	2,447	4,781	154	4,284	73	67	139
Feb	140,052	29,022	169,074	2,357	2,442	4,799	171	4,757	73	67	140
Mar	143,944	29,533	173,477	2,693	2,763	5,456	176	4,896	84	75	159
Apr	147,431	29,921	177,352	2,457	2,493	4,950	165	4,590	76	68	144
May	151,313	30,384	181,697	2,583	2,594	5,177	167	4,646	80	71	151
Jun	156,849	30,892	187,741	2,736	2,694	5,430	181	5,035	85	73	159
Jul	161,866	31,486	193,352	2,813	2,736	5,549	179	4,980	88	75	162
Aug	166,981	32,135	199,116	2,859	2,752	5,611	181	5,035	89	75	164
Sep	172,763	32,754	205,517	2,926	2,774	5,700	190	5,286	91	76	167
Oct	178,055	33,313	211,368	3,091	2,892	5,983	193	5,369	96	79	175
Nov	185,113	33,877	218,990	3,196	2,924	6,120	204	5,675	99	80	179
Dec	191,233	34,435	225,668	3,426	3,084	6,510	210	5,842	107	84	191
2011	**260,520**	**40,061**	**300,581**	**47,590**	**36,591**	**84,181**	**231**	**6,416**	**1,443**	**1,030**	**2,473**
Jan	196,792	34,924	231,716	3,400	3,017	6,417	207	5,758	106	82	188
Feb	203,099	35,451	238,550	3,439	3,001	6,440	230	6,398	107	82	189
Mar	209,986	36,080	246,066	3,852	3,309	7,161	231	6,426	120	90	210
Apr	215,140	36,513	251,653	3,489	2,961	6,450	215	5,981	109	81	189
May	222,536	37,024	259,560	4,028	3,350	7,378	238	6,621	125	91	217
Jun	230,100	37,598	267,698	4,062	3,318	7,380	246	6,843	126	90	217
Jul	237,104	38,135	275,239	4,158	3,344	7,502	242	6,732	129	91	220
Aug	244,732	38,699	283,431	4,293	3,395	7,688	248	6,899	134	92	226
Sep	251,986	39,194	291,180	4,185	3,255	7,440	248	6,899	130	89	219
Oct	255,090	39,504	294,594	3,879	3,003	6,882	222	6,176	121	82	202
Nov	256,183	39,757	295,940	3,328	2,582	5,910	197	5,480	104	70	174
Dec	260,520	40,061	300,581	4,259	3,274	7,533	243	6,760	133	89	222
2012	**331,943**	**42,914**	**374,857**	**61,877**	**39,998**	**101,875**	**278**	**7,743**	**1,853**	**1,153**	**3,006**
Jan	264,854	40,395	305,249	4,696	3,581	8,277	267	7,428	146	98	244
Feb	269,686	40,692	310,378	4,562	3,442	8,004	276	7,678	142	94	236
Mar	273,566	41,052	314,618	4,941	3,708	8,649	279	7,761	154	101	255
Apr	276,843	41,400	318,243	4,463	3,337	7,800	260	7,233	139	91	230
May	281,582	41,610	323,192	4,956	3,662	8,618	278	7,734	154	100	254
Jun	286,852	41,781	328,633	4,808	3,502	8,310	277	7,706	150	95	245
Jul	293,637	41,996	335,633	4,898	3,503	8,401	271	7,539	152	95	248
Aug	300,430	42,191	342,621	5,154	3,619	8,773	283	7,873	160	99	259
Sep	310,263	42,389	352,652	5,062	3,458	8,520	284	7,901	158	94	252
Oct	317,956	42,573	360,529	5,292	3,543	8,835	285	7,928	165	96	261
Nov	325,054	42,762	367,816	5,284	3,476	8,760	292	8,123	164	95	259
Dec	331,943	42,914	374,857	5,423	3,505	8,928	288	8,012	169	95	264

Table 3.2-3M (Cont.)
Consumption of Compressed Natural Gas (CNG)

	Vehicle (Unit)			Consumption (MMscf)					Petroleum Equivalent (Million Litres)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMscfd	Tons/Day	Gasoline	Diesel	Total
2013	**394,394**	**44,427**	**438,821**	**71,678**	**40,371**	**112,049**	**307**	**8,540**	**2,195**	**1,131**	**3,326**
Jan	338,140	42,950	381,090	5,498	3,492	8,990	290	8,067	171	95	266
Feb	346,163	43,040	389,203	5,352	3,328	8,680	310	8,624	167	91	257
Mar	353,291	43,182	396,473	5,945	3,634	9,579	309	8,596	185	99	284
Apr	358,113	43,264	401,377	5,442	3,288	8,730	291	8,095	169	90	259
May	363,737	43,367	407,104	6,098	3,636	9,734	314	8,735	190	99	289
Jun	369,604	43,403	413,007	5,860	3,440	9,300	310	8,624	182	94	276
Jul	374,456	43,499	417,955	6,020	3,497	9,517	307	8,540	187	95	283
Aug	379,195	43,577	422,772	6,241	3,586	9,827	317	8,819	194	98	292
Sep	381,890	43,564	425,454	5,922	3,378	9,300	310	8,624	184	92	276
Oct	389,406	44,154	433,560	6,113	3,466	9,579	309	8,596	190	94	285
Nov	392,833	44,321	437,154	6,023	3,397	9,420	314	8,735	187	93	280
Dec	394,394	44,427	438,821	6,009	3,384	9,393	303	8,429	187	92	279
2014	**416,829**	**45,585**	**462,414**	**74,692**	**40,842**	**115,534**	**317**	**8,806**	**2,314**	**1,121**	**3,435**
Jan	396,633	44,552	441,185	6,035	3,389	9,424	304	8,457	188	92	280
Feb	398,980	44,615	443,595	5,855	3,273	9,128	326	9,069	182	89	271
Mar	401,113	44,741	445,854	6,508	3,629	10,137	327	9,097	203	99	301
Apr	403,136	44,852	447,988	5,822	3,238	9,060	302	8,401	181	88	269
May	405,049	44,950	449,999	6,340	3,518	9,858	318	8,846	197	96	293
Jun	406,590	45,028	451,618	6,121	3,389	9,510	317	8,819	190	92	283
Jul	407,901	45,124	453,025	6,367	3,522	9,889	319	8,874	198	96	294
Aug	409,251	45,213	454,464	6,370	3,519	9,889	319	8,874	198	96	294
Sep	411,774	45,336	457,110	6,192	3,408	9,600	320	8,902	193	93	286
Oct	413,863	45,439	459,302	6,324	3,472	9,796	316	8,791	197	95	291
Nov	415,120	45,515	460,635	6,162	3,378	9,540	318	8,846	192	92	284
Dec	416,829	45,585	462,414	6,273	3,430	9,703	313	8,707	195	93	289

Remark : CNG is NGV in Thailand

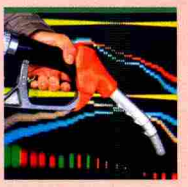


















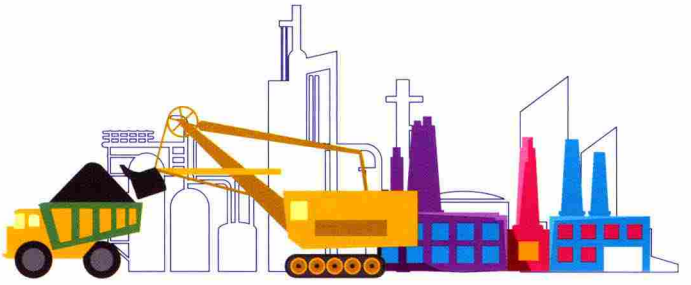






Chapter 4

Coal/Lignite



Coal/Lignite

Supply of Lignite and Coal in 2014

Production of Lignite

Mae-Moh Mine

17 Million tons

Other Mine 1 Million tons

Coal Import

20 Million tons

Demand of Lignite and Coal in 2014

Consumption of Lignite

Power Generation

17 Million tons (4,216 KTOE)

Industry 1 Million tons (647 KTOE)

Consumption of Coal

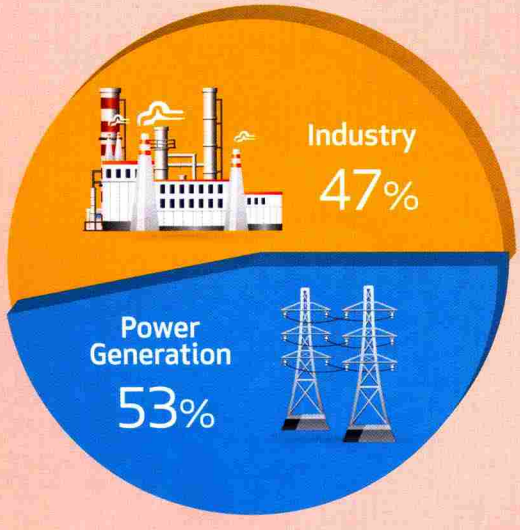
Power Generation

IPP 6 Million tons (3,850 KTOE)

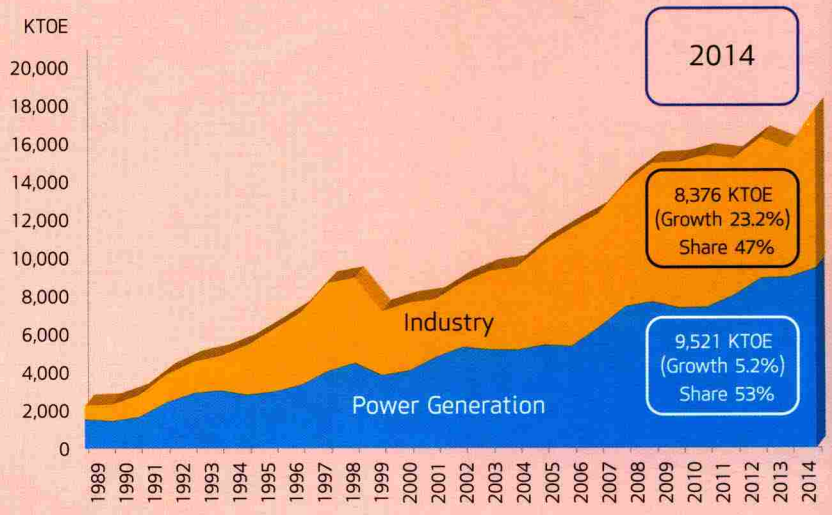
SPP 2 Million tons (1,456 KTOE)

Industry 12 Million tons (7,728 KTOE)

Consumption of Lignite and Coal Classified by Sector



2014

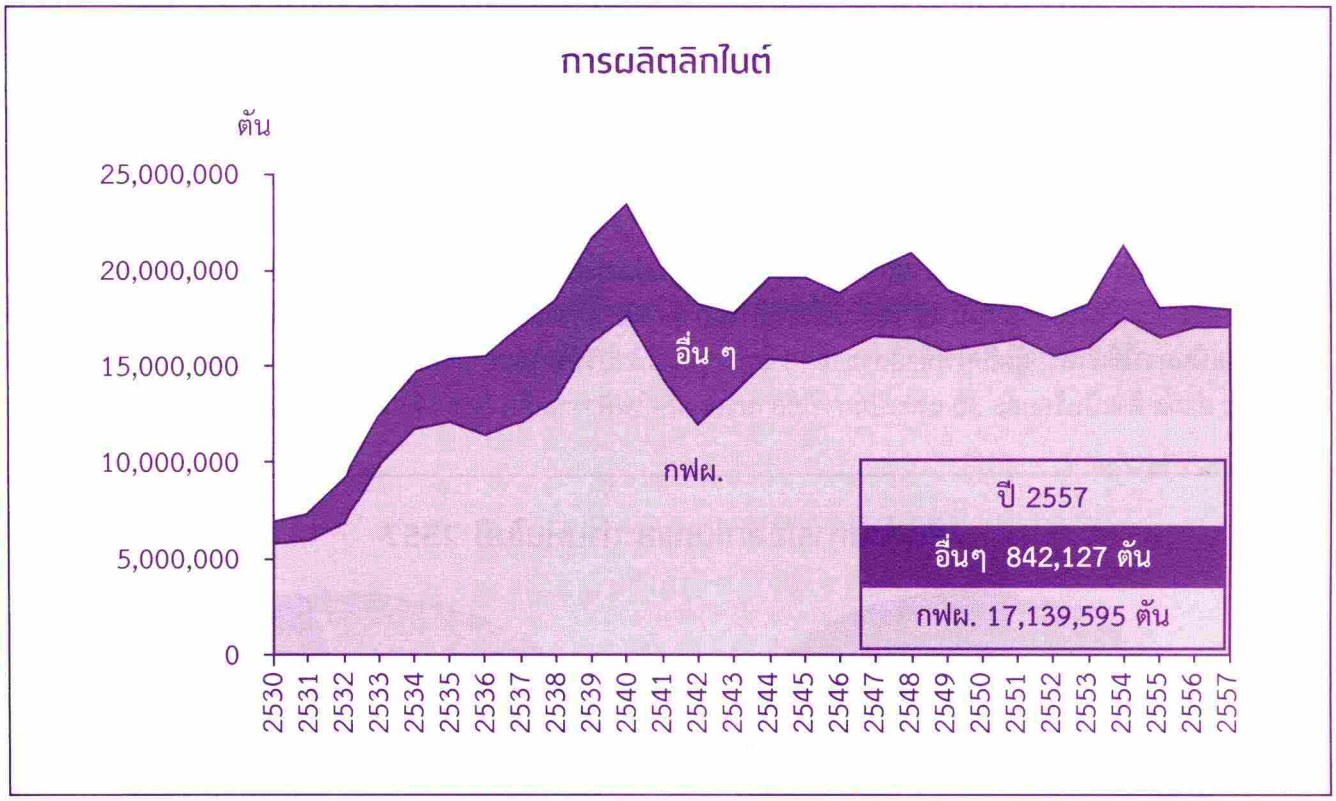


บทที่ 4

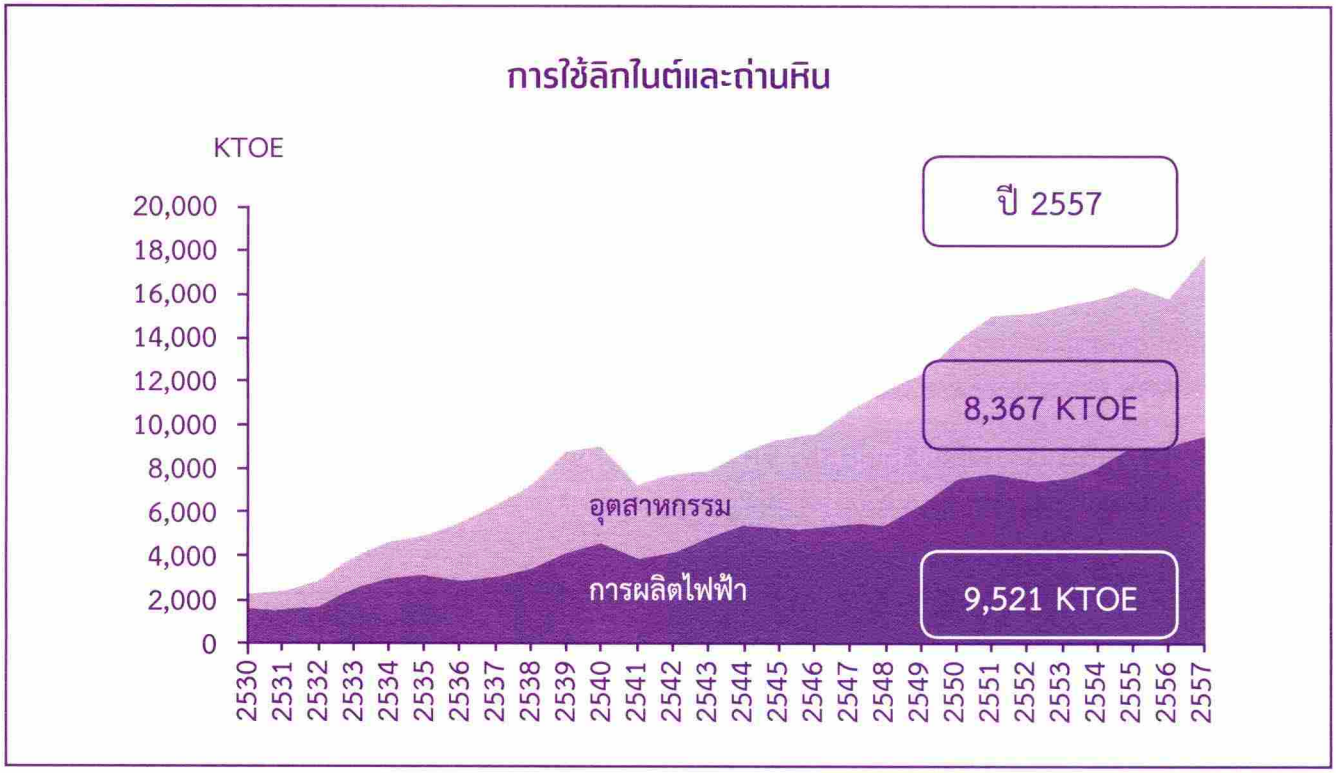
ถ่านหิน/ลิกไนต์

การผลิตลิกไนต์ในประเทศ ผลิตได้จาก 2 ผู้ผลิตหลัก คือ เหมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และเหมืองของบริษัทเอกชน โดยเหมืองของ กฟผ.ประกอบด้วยเหมืองแม่เมาะ จังหวัดลำปาง และเหมืองกระบี่ จังหวัดกระบี่ ซึ่งเหมืองกระบี่ได้หยุดการผลิตแล้วตั้งแต่ปี 2551 ทั้งนี้ลิกไนต์ที่ผลิตจากเหมืองแม่เมาะทั้งหมดจะถูกนำไปใช้ในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะ ส่วนลิกไนต์ที่ผลิตจากเหมืองของบริษัทเอกชน ปัจจุบันเริ่มชะลอตัวลงเนื่องจากแหล่งสัมปทานสำคัญๆ ภายในประเทศทยอยหมดลง โดยลิกไนต์ที่ผลิตจากเหมืองเอกชนส่วนใหญ่จะนำไปใช้ในภาคอุตสาหกรรม เช่น อุตสาหกรรมปูนซีเมนต์ กระดาษ อาหาร และสิ่งทอ เป็นต้น

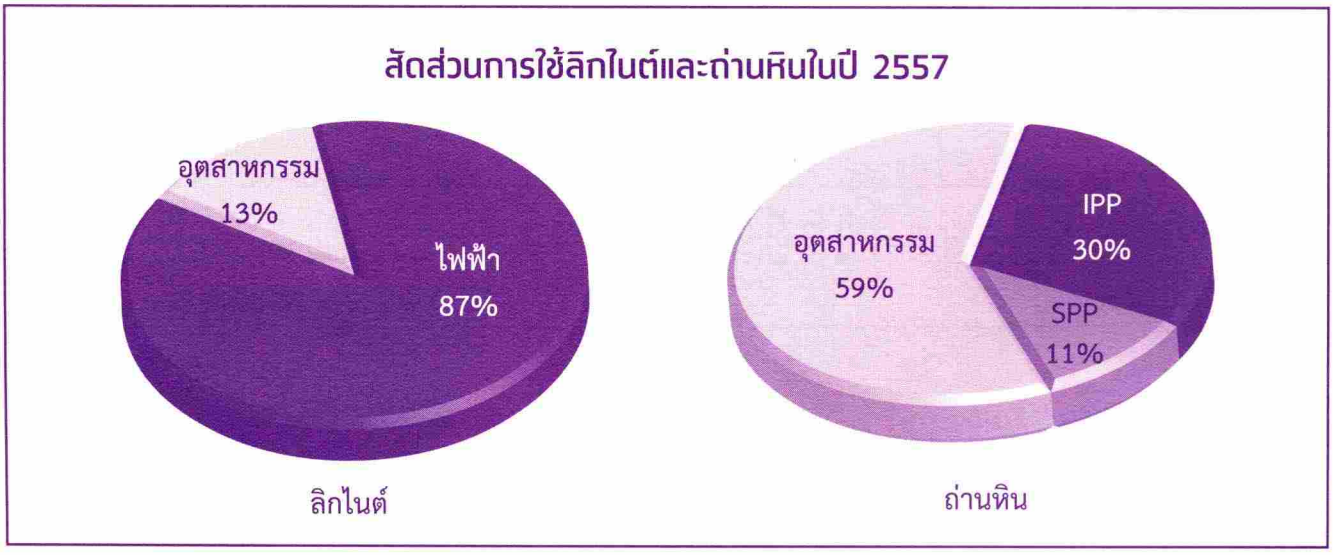
ในปี 2557 มีปริมาณการผลิตลิกไนต์ในประเทศรวมทั้งสิ้น 17,981,722 ตัน โดยร้อยละ 95 เป็นการผลิตจากเหมืองแม่เมาะของ กฟผ. ส่วนที่เหลือร้อยละ 5 เป็นการผลิตจากเหมืองของภาคเอกชน



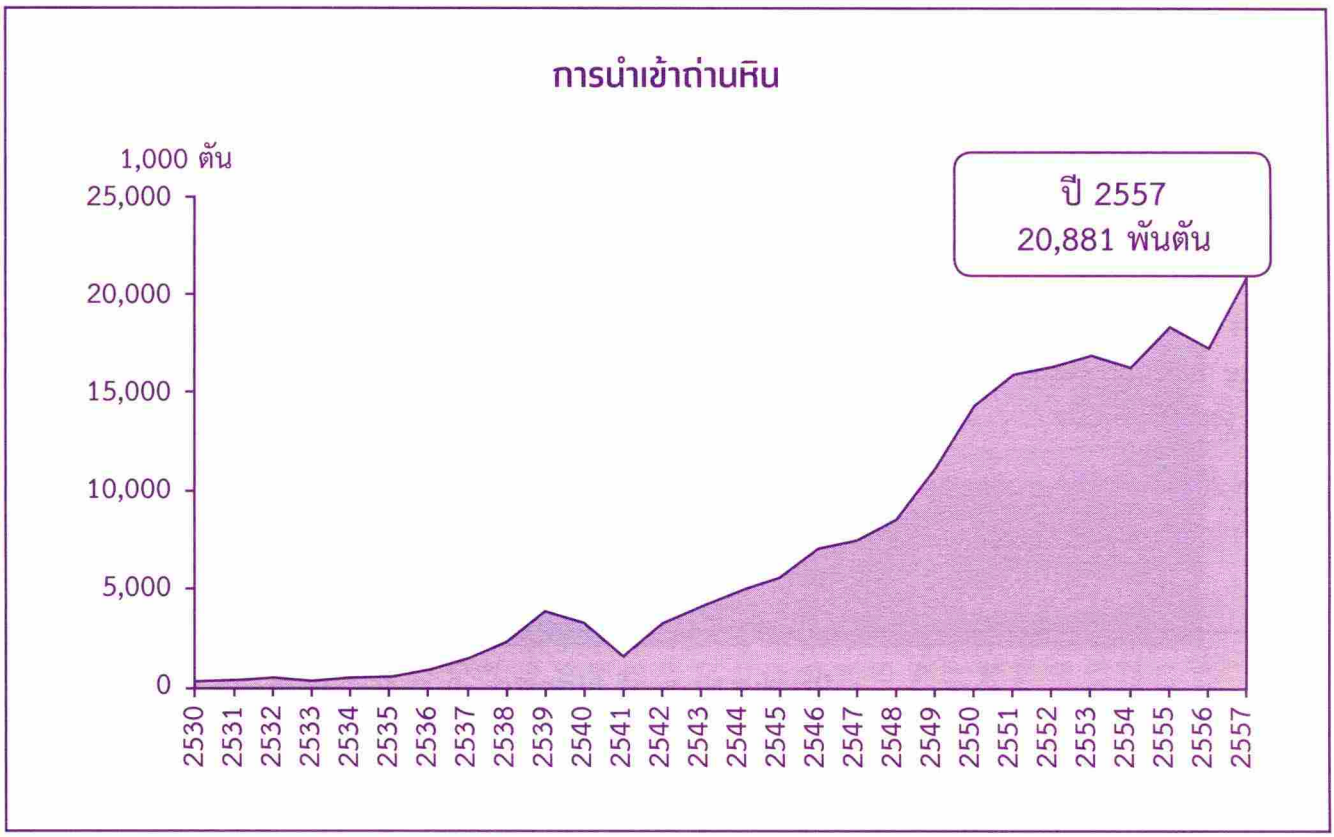
การใช้ลิกไนต์และถ่านหิน ในปี 2557 มีสัดส่วนการใช้ลิกไนต์/ถ่านหินเป็นเชื้อเพลิงในภาคการผลิตไฟฟ้าและภาคอุตสาหกรรม คิดเป็นสัดส่วนร้อยละ 53 และ 47 ตามลำดับ (คิดจากค่าความร้อน) โดยภาคอุตสาหกรรมใช้ในอุตสาหกรรมผลิตปูนซีเมนต์ในกระบวนการผลิตปูนเม็ด (Clinker) และใช้ในอุตสาหกรรมที่ใช้หม้อไอน้ำเป็นหลัก เช่น อุตสาหกรรมกระดาษและอุตสาหกรรมอาหาร เป็นต้น



ในปี 2557 มีการใช้ลิกไนต์ในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะคิดเป็นสัดส่วนร้อยละ 87 ที่เหลือใช้ในภาคอุตสาหกรรม คิดเป็นร้อยละ 13 สำหรับถ่านหินนำเข้าใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรมร้อยละ 59 ส่วนที่เหลือใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้า โดยเป็นการใช้สำหรับผู้ผลิตไฟฟ้าอิสระ (IPP) ซึ่งปัจจุบันมี 2 บริษัท ได้แก่ บริษัท บีแอลซีพี เพาเวอร์ จำกัด และ บริษัท เก็คโค่-วัน จำกัด คิดเป็นร้อยละ 30 และเป็นการใช้สำหรับผู้ผลิตไฟฟ้ารายเล็ก (SPP) คิดเป็นร้อยละ 11



การนำเข้าถ่านหิน ปริมาณการนำเข้าถ่านหินมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง สาเหตุจากความต้องการใช้ถ่านหินที่เพิ่มขึ้น ทำให้ปริมาณถ่านหินในประเทศมีไม่เพียงพอต่อความต้องการ ประกอบกับแหล่งสัมปทานลิกไนต์ภายในประเทศทยอยหมดลง รวมทั้งถ่านหินนำเข้ามีค่าความร้อนสูงและมีกำมะถันน้อยเมื่อเทียบกับถ่านหินที่ผลิตได้ภายในประเทศ และราคาถ่านหินถูกกว่าเมื่อเทียบกับพลังงานชนิดอื่น ทั้งนี้ ถ่านหินนำเข้าที่ใช้ในประเทศไทยส่วนใหญ่เป็นถ่านหินประเภทซับบิทูมินัส (Sub-Bituminous) และบิทูมินัส (Bituminous) โดยส่วนใหญ่นำเข้าจากประเทศอินโดนีเซีย

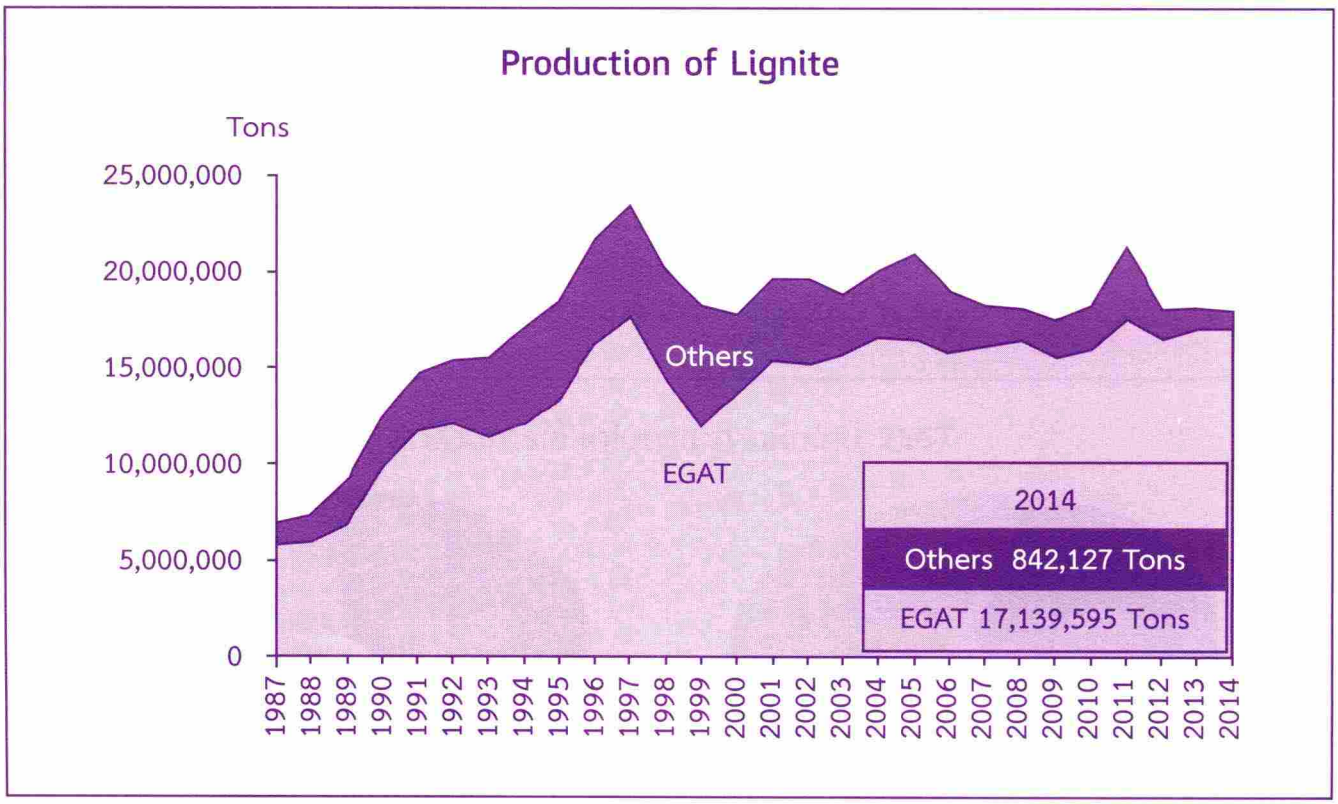


Chapter 4 : Coal/Lignite

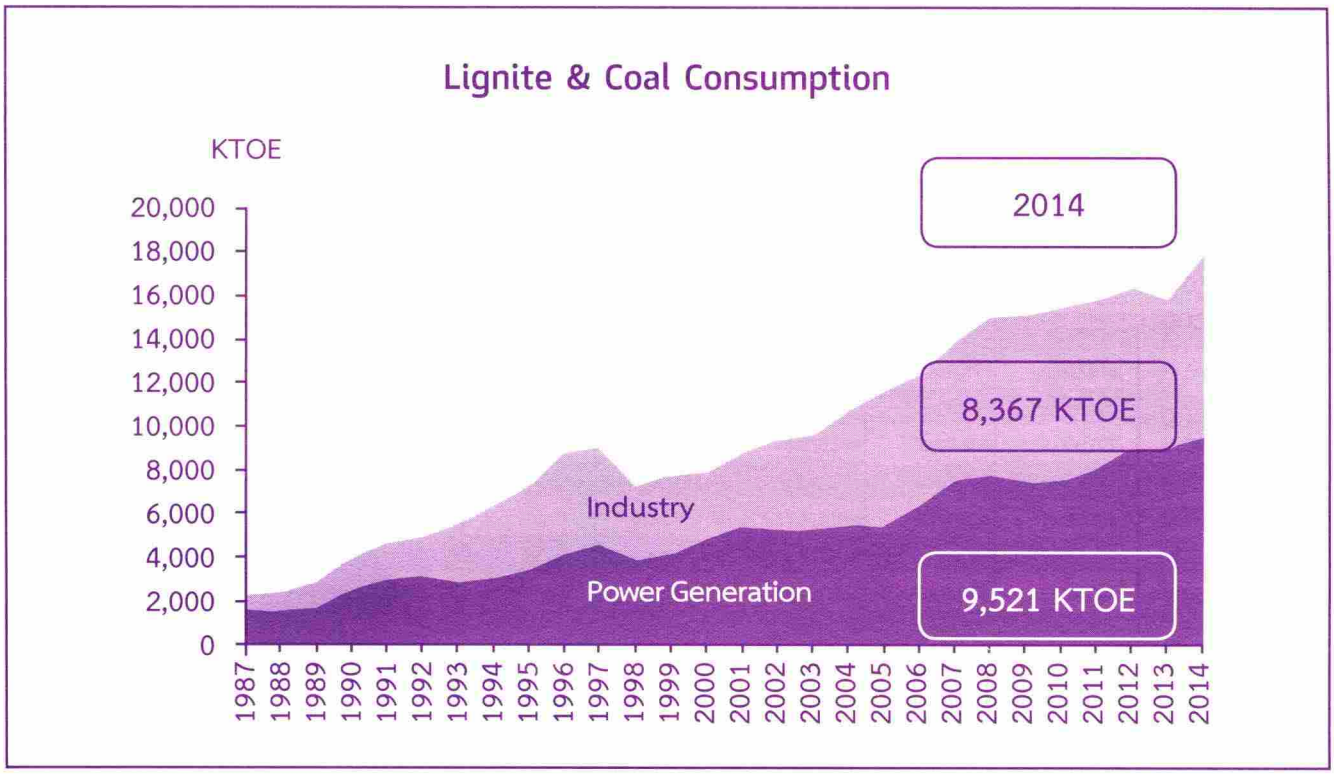
Domestic Lignite Production. Domestic lignite (low-grade coal) production came from two major sources - one was from the mines belonging to the Electricity Generating Authority of Thailand (EGAT) and the other was from mines belonging to private producers. EGAT's sources comprised the production from Mae Moh mine in Lampang province (in northern Thailand) and Krabi mine in Krabi province (in the South of the country). Lignite produced from Mae Moh mine would be entirely used as fuel for power generation at Mae Moh Power Plant while lignite from Krabi mine would serve the demand in the industrial sector. However, the production at Krabi mine had diminished substantially in output and was eventually discontinued in 2008.

As lignite production from the mines of private producers, the production volume gradually dropped off since major domestic lignite concessions expired one after another. Most of the lignite produced from private sector mines was used in such industries as cement, paper, food and textile.

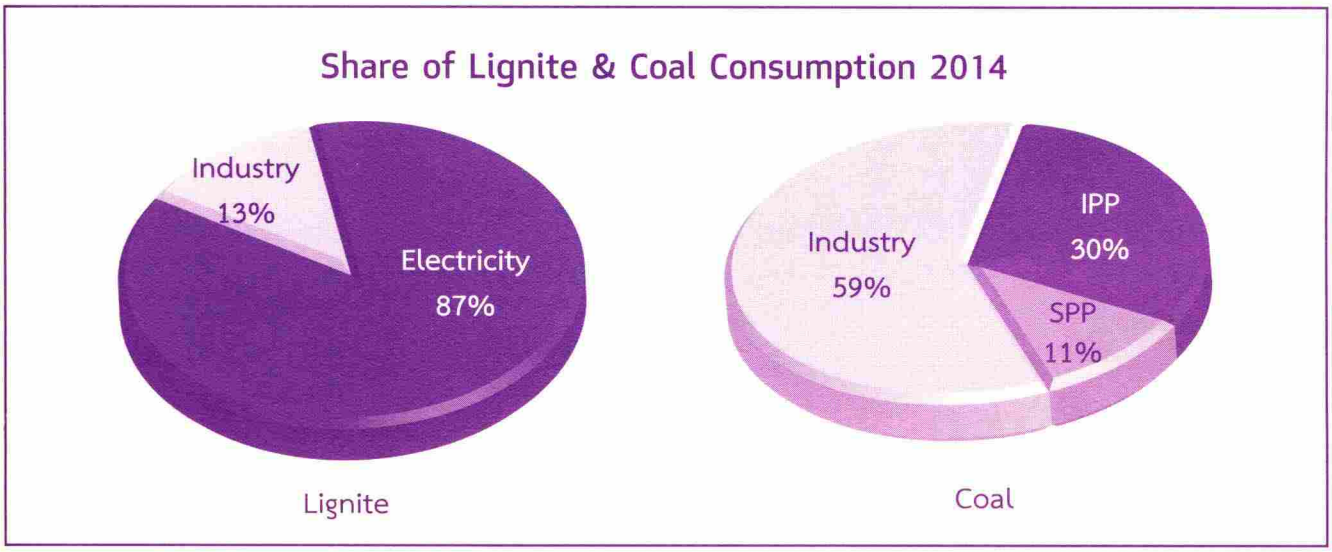
In 2014, total domestic lignite was 17,981,722 tons, 95% was produced at Mae Moh mine and the remaining 5% was produced from private sector mine.



Lignite and Coal Consumption. In 2014, the shares of coal/lignite consumption as fuel in the power generation sector and the industrial sector (based on the calorific value) were 53% and 47% respectively. Coal demand in the industrial sector was growing, mainly by clinker production and boilers for food and paper industries.



Lignite was mainly used for power generation, accounting for a share of 87%; the remaining 13% was used in the industrial sector. As for coal, 30% was used as fuel in power generation by Independent Power Producers (IPP), 11% by Small Power Producers (SPP), and 59% was used as fuel in the industrial sector.



Coal Import Most of imported coal used in Thailand is of sub-bituminous and bituminous categories; only a small amount is anthracite and briquette. The amount of coal imports increased continuously because domestic lignite concessions came to expiry one after another and because the price of coal was cheaper when compared with other energy types.

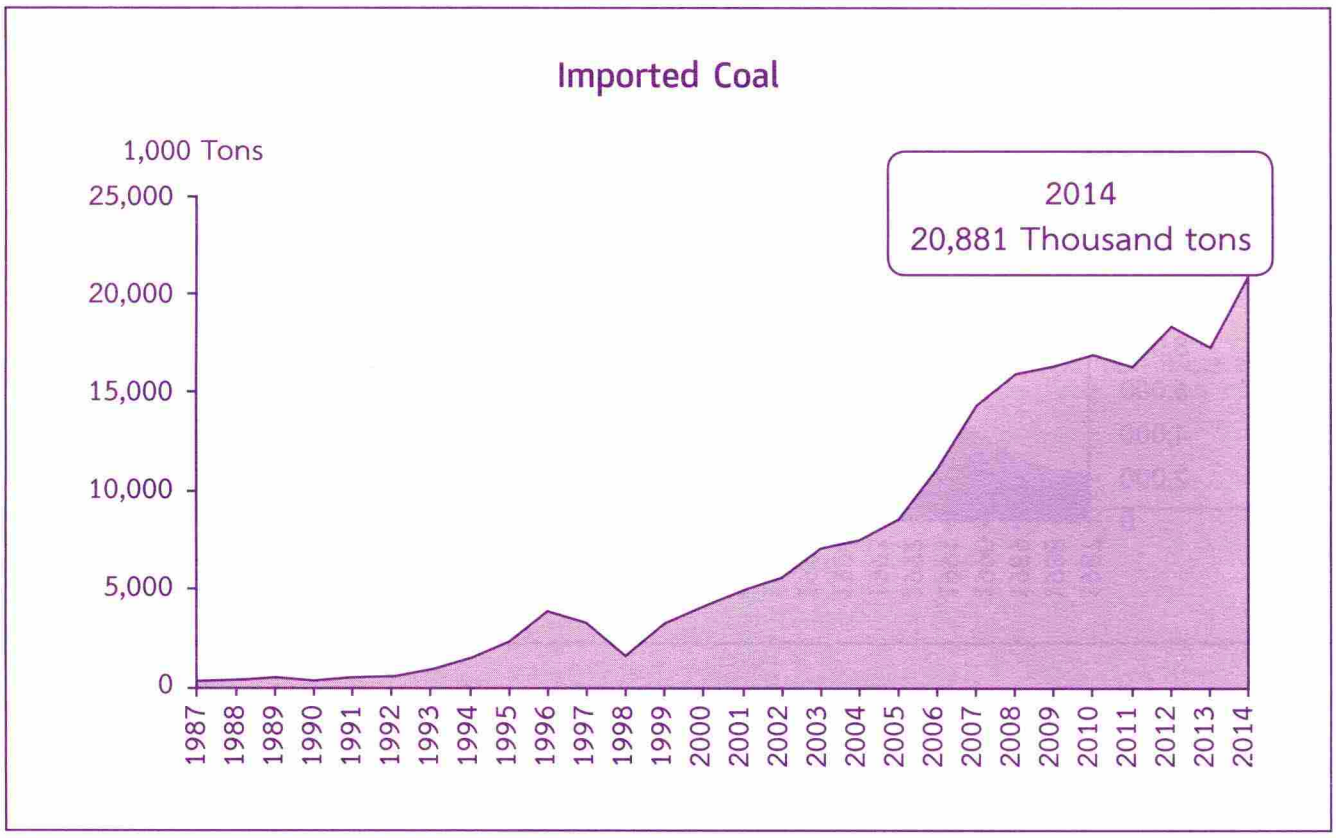


Table 4.1-1Y
Production and Consumption of Lignite

Unit : Ton

Year	EGAT				Total EGAT		Others		Nationwide	
	Mae-Moh		Krabi							
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
1990	9,652,991	9,619,614	156,262	255,710	9,809,254	9,875,324	2,629,219	2,600,686	12,438,473	12,476,010
1991	11,513,775	11,504,708	242,699	219,983	11,756,475	11,724,691	2,889,540	2,934,445	14,646,015	14,659,135
1992	11,844,352	12,129,274	253,950	241,265	12,098,302	12,370,539	3,290,259	3,193,113	15,388,561	15,563,652
1993	11,221,088	11,239,942	211,800	249,845	11,432,888	11,489,787	4,105,039	4,222,966	15,537,927	15,712,753
1994	11,906,553	11,908,173	225,065	247,711	12,131,618	12,155,884	4,963,253	4,897,708	17,094,871	17,053,592
1995	13,191,880	13,374,488	144,232	193,006	13,336,112	13,567,494	5,084,686	4,939,136	18,420,798	18,506,630
1996	16,381,301	16,405,340			16,381,301	16,405,340	5,309,093	4,688,467	21,690,394	21,093,807
1997	17,692,415	18,010,806			17,692,415	18,010,806	5,746,141	5,235,659	23,438,556	23,246,465
1998	14,419,327	15,388,095			14,419,327	15,388,095	5,576,868	5,029,499	19,996,195	20,417,594
1999	12,021,265	13,893,584			12,021,265	13,893,584	6,240,043	4,610,512	18,261,308	18,504,096
2000	13,621,615	14,120,569	30,000		13,651,615	14,120,569	4,134,132	3,722,528	17,785,747	17,843,097
2001	15,314,436	15,744,116	133,000		15,447,436	15,744,116	4,159,559	3,753,746	19,606,995	19,497,862
2002	14,994,739	15,035,329	187,000		15,181,739	15,035,329	4,420,245	4,503,816	19,601,984	19,539,145
2003	15,591,841	15,406,532	146,000		15,737,841	15,406,532	3,105,554	2,753,089	18,843,395	18,159,621
2004	16,561,572	16,536,694	95,868		16,657,440	16,536,694	3,402,404	4,006,701	20,059,844	20,543,395
2005	16,534,142	16,571,091	36,522		16,570,664	16,571,091	4,307,512	4,475,747	20,878,176	21,046,838
2006	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810	3,036,746	19,070,608	18,852,120
2007	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255	2,159,379	18,239,176	17,970,429
2008	16,420,847	16,407,465	23,248		16,444,095	16,407,465	1,651,290	2,124,087	18,095,385	18,531,552
2009	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794
2010	15,987,263	16,004,196			15,987,263	16,004,196	2,270,799	2,017,685	18,258,062	18,021,881
2011	17,558,336	17,161,168			17,558,336	17,161,168	3,768,770	2,856,989	21,327,106	20,018,157
2012	16,590,461	16,754,281			16,590,461	16,754,281	1,475,968	1,611,596	18,066,429	18,365,877
2013	17,071,961	16,884,947			17,071,961	16,884,947	1,038,802	1,776,159	18,110,763	18,661,106
2014	17,139,595	17,020,425			17,139,595	17,020,425	842,127	1,357,189	17,981,722	18,377,614

Source : Department of Primary Industries and Mines (DPIM), EGAT

Table 4.1-2Y
Consumption of Lignite and Coal Classified by Sector

Unit : 1,000 Tons

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1990			341	341	9,875	2,601	12,476	9,875	2,942	12,817
1991			470	470	11,856	2,804	14,659	11,856	3,273	15,129
1992			501	501	12,423	3,141	15,564	12,423	3,641	16,065
1993			936	936	11,490	4,223	15,713	11,490	5,159	16,649
1994			1,519	1,519	12,156	4,898	17,054	12,156	6,417	18,573
1995		12	2,335	2,347	13,567	4,939	18,507	13,579	7,275	20,854
1996		66	3,840	3,906	16,405	4,688	21,094	16,472	8,528	25,000
1997		92	3,197	3,289	18,011	5,236	23,246	18,103	8,432	26,535
1998		105	1,528	1,633	15,388	5,030	20,418	15,493	6,558	22,051
1999		1,073	2,205	3,278	13,894	4,611	18,504	14,966	6,816	21,782
2000		2,130	2,053	4,183	14,121	3,723	17,843	16,251	5,776	22,026
2001		2,342	2,603	4,945	15,744	3,754	19,498	18,086	6,357	24,443
2002		2,402	3,197	5,599	15,035	4,504	19,539	17,438	7,700	25,138
2003		2,225	4,885	7,110	15,407	2,753	18,160	17,632	7,638	25,270
2004		2,194	5,356	7,550	16,537	4,007	20,543	18,731	9,363	28,093
2005		2,073	6,495	8,568	16,571	4,476	21,047	18,644	10,971	29,615
2006	1,476	2,473	7,265	11,215	15,815	3,037	18,852	19,765	10,302	30,067
2007	3,697	2,051	8,665	14,414	15,811	2,159	17,970	21,559	10,825	32,384
2008	3,666	2,241	10,072	15,979	16,407	2,124	18,532	22,315	12,196	34,511
2009	3,645	1,965	10,778	16,388	15,818	2,043	17,861	21,428	12,821	34,248
2010	3,647	1,968	11,289	16,904	16,004	2,018	18,022	21,619	13,307	34,926
2011	3,855	2,280	10,196	16,331	17,161	2,857	20,018	23,296	13,053	36,349
2012	5,362	2,417	10,625	18,404	16,754	1,612	18,366	24,534	12,237	36,770
2013	5,561	2,234	9,533	17,328	16,885	1,776	18,661	24,680	11,309	35,989
2014	6,168	2,332	12,381	20,881	17,020	1,357	18,378	25,520	13,739	39,258
Fuel Share (%)										
1990			2.7	2.7	77.1	20.3	97.3	77.1	23.0	100.0
1991			3.1	3.1	78.4	18.5	96.9	78.4	21.6	100.0
1992			3.1	3.1	77.3	19.6	96.9	77.3	22.7	100.0
1993			5.6	5.6	69.0	25.4	94.4	69.0	31.0	100.0
1994			8.2	8.2	65.5	26.4	91.8	65.5	34.6	100.0
1995		0.1	11.2	11.3	65.1	23.7	88.7	65.1	34.9	100.0
1996		0.3	15.4	15.6	65.6	18.8	84.4	65.9	34.1	100.0
1997		0.4	12.1	12.4	67.9	19.7	87.6	68.2	31.8	100.0
1998		0.5	6.9	7.4	69.8	22.8	92.6	70.3	29.7	100.0
1999		4.9	10.1	15.1	63.8	21.2	85.0	68.7	31.3	100.0
2000		9.7	9.3	19.0	64.1	16.9	81.0	73.8	26.2	100.0
2001		9.6	10.7	20.2	64.4	15.4	79.8	74.0	26.0	100.0
2002		9.6	12.7	22.3	59.8	17.9	77.7	69.4	30.6	100.0
2003		8.8	19.3	28.1	61.0	10.9	71.9	69.8	30.2	100.0
2004		7.8	19.1	26.9	58.9	14.3	73.1	66.7	33.3	100.0
2005		7.0	21.9	28.9	56.0	15.1	71.1	63.0	37.0	100.0
2006	4.9	8.2	24.2	37.3	52.6	10.1	62.7	65.7	34.3	100.0
2007	11.4	6.3	26.8	44.5	48.8	6.7	55.5	66.6	33.4	100.0
2008	10.6	6.5	29.2	46.3	47.5	6.2	53.7	64.7	35.3	100.0
2009	10.6	5.7	31.5	47.9	46.2	6.0	52.2	62.6	37.4	100.0
2010	10.4	5.6	32.3	48.4	45.8	5.8	51.6	61.9	38.1	100.0
2011	10.6	6.3	28.1	44.9	47.2	7.9	55.1	64.1	35.9	100.0
2012	14.6	6.6	28.9	50.1	45.6	4.4	50.0	66.7	33.3	100.0
2013	15.5	6.2	26.5	48.2	46.9	4.9	51.9	68.6	31.4	100.0
2014	15.7	5.9	31.5	53.2	43.4	3.5	46.8	65.0	35.0	100.0
Growth Rate (%)										
1991			37.7	37.7	20.1	7.8	17.5	20.1	11.3	18.0
1992			6.7	6.7	4.8	12.0	6.2	4.8	11.3	6.2
1993			86.8	86.8	-7.5	34.5	1.0	-7.5	41.7	3.6
1994			62.4	62.4	5.8	16.0	8.5	5.8	24.4	11.6
1995			53.7	54.5	11.6	0.9	8.5	11.7	13.4	12.3
1996		466.9	64.4	66.4	20.9	-5.1	14.0	21.3	17.2	19.9
1997		38.9	-16.7	-15.8	9.8	11.7	10.2	9.9	-1.1	6.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-12.2	-14.4	-22.2	-16.9
1999		923.1	44.3	100.7	-9.7	-8.3	-9.4	-3.4	3.9	-1.2
2000		98.5	-6.9	27.6	1.6	-19.3	-3.6	8.6	-15.3	1.1
2001		10.0	26.8	18.2	11.5	0.8	9.3	11.3	10.1	11.0
2002		2.6	22.8	13.2	-4.5	20.0	0.2	-3.6	21.1	2.8
2003		-7.4	52.8	27.0	2.5	-38.9	-7.1	1.1	-0.8	0.5
2004		-1.4	9.6	6.2	7.3	45.5	13.1	6.2	22.6	11.2
2005		-5.5	21.3	13.5	0.2	11.7	2.5	-0.5	17.2	5.4
2006		19.3	11.9	30.9	-4.6	-32.2	-10.4	6.0	-6.1	1.5
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-4.7	9.1	5.1	7.7
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	3.1	3.5	12.7	6.6
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.0	5.1	-0.8
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.9	0.9	3.8	2.0
2011	5.7	15.8	-9.7	-3.4	7.2	41.6	11.1	7.8	-1.9	4.1
2012	39.1	6.0	4.2	12.7	-2.4	-43.6	-8.3	5.3	-6.3	1.2
2013	3.7	-7.6	-10.3	-5.9	0.8	10.2	1.6	0.6	-7.6	-2.1
2014	10.9	4.4	29.9	20.5	0.8	-23.6	-1.5	3.4	21.5	9.1

Remarks : IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.1-3Y
Consumption of Lignite and Coal Classified by Sector

Unit : KTOE

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1990			213	213	2,446	1,241	3,687	2,446	1,453	3,899
1991			293	293	2,937	1,337	4,274	2,937	1,630	4,567
1992			313	313	3,077	1,498	4,575	3,077	1,811	4,888
1993			584	584	2,846	2,014	4,860	2,846	2,598	5,444
1994			948	948	3,011	2,336	5,347	3,011	3,284	6,296
1995		7	1,458	1,465	3,361	2,356	5,717	3,368	3,814	7,182
1996		41	2,397	2,438	4,064	2,236	6,300	4,105	4,633	8,738
1997		57	1,995	2,053	4,461	2,497	6,959	4,519	4,493	9,012
1998		65	954	1,019	3,812	2,399	6,211	3,877	3,353	7,230
1999		670	1,376	2,046	3,441	2,199	5,641	4,111	3,576	7,687
2000		1,330	1,282	2,611	3,498	1,776	5,273	4,827	3,057	7,884
2001		1,462	1,625	3,087	3,900	1,791	5,690	5,362	3,415	8,777
2002		1,499	1,995	3,495	3,724	2,148	5,873	5,224	4,144	9,367
2003		1,389	3,049	4,438	3,816	1,313	5,129	5,205	4,362	9,568
2004		1,370	3,343	4,713	4,096	1,911	6,007	5,466	5,254	10,720
2005		1,294	4,054	5,348	4,105	2,135	6,240	5,399	6,189	11,587
2006	922	1,544	4,535	7,000	3,917	1,449	5,366	6,383	5,983	12,366
2007	2,308	1,280	5,409	8,997	3,916	1,030	4,946	7,504	6,439	13,943
2008	2,288	1,399	6,287	9,974	4,064	1,013	5,077	7,751	7,300	15,051
2009	2,275	1,226	6,728	10,229	3,918	974	4,892	7,419	7,702	15,121
2010	2,276	1,229	7,047	10,551	3,964	962	4,927	7,469	8,009	15,478
2011	2,406	1,423	6,364	10,194	4,251	1,363	5,614	8,080	7,727	15,807
2012	3,347	1,509	6,632	11,488	4,150	769	4,919	9,006	7,401	16,407
2013	3,471	1,394	5,950	10,816	4,182	847	5,030	9,048	6,798	15,846
2014	3,850	1,456	7,728	13,034	4,216	647	4,863	9,521	8,376	17,897
Fuel Share (%)										
1990			5.5	5.5	62.7	31.8	94.5	62.7	37.3	100.0
1991			6.4	6.4	64.3	29.3	93.6	64.3	35.7	100.0
1992			6.4	6.4	63.0	30.7	93.6	63.0	37.0	100.0
1993			10.7	10.7	52.3	37.0	89.3	52.3	47.7	100.0
1994			15.1	15.1	47.8	37.1	84.9	47.8	52.2	100.0
1995		0.1	20.3	20.4	46.8	32.8	79.6	46.9	53.1	100.0
1996		0.5	27.4	27.9	46.5	25.6	72.1	47.0	53.0	100.0
1997		0.6	22.1	22.8	49.5	27.7	77.2	50.1	49.9	100.0
1998		0.9	13.2	14.1	52.7	33.2	85.9	53.6	46.4	100.0
1999		8.7	17.9	26.6	44.8	28.6	73.4	53.5	46.5	100.0
2000		16.9	16.3	33.1	44.4	22.5	66.9	61.2	38.8	100.0
2001		16.7	18.5	35.2	44.4	20.4	64.8	61.1	38.9	100.0
2002		16.0	21.3	37.3	39.8	22.9	62.7	55.8	44.2	100.0
2003		14.5	31.9	46.4	39.9	13.7	53.6	54.4	45.6	100.0
2004		12.8	31.2	44.0	38.2	17.8	56.0	51.0	49.0	100.0
2005		11.2	35.0	46.2	35.4	18.4	53.9	46.6	53.4	100.0
2006	7.5	12.5	36.7	56.6	31.7	11.7	43.4	51.6	48.4	100.0
2007	16.6	9.2	38.8	64.5	28.1	7.4	35.5	53.8	46.2	100.0
2008	15.2	9.3	41.8	66.3	27.0	6.7	33.7	51.5	48.5	100.0
2009	15.0	8.1	44.5	67.7	25.9	6.4	32.4	49.1	50.9	100.0
2010	14.7	7.9	45.5	68.2	25.6	6.2	31.8	48.3	51.7	100.0
2011	15.2	9.0	40.3	64.5	26.9	8.6	35.5	51.1	48.9	100.0
2012	20.4	9.2	40.4	70.0	25.3	4.7	30.0	54.9	45.1	100.0
2013	21.9	8.8	37.6	68.3	26.4	5.4	31.7	57.1	42.9	100.0
2014	21.5	8.1	43.2	72.8	23.6	3.6	27.2	53.2	46.8	100.0
Growth Rate (%)										
1991			37.7	37.7	20.1	7.8	15.9	20.1	12.2	17.1
1992			6.7	6.7	4.8	12.0	7.1	4.8	11.1	7.0
1993			86.8	86.8	-7.5	34.5	6.2	-7.5	43.5	11.4
1994			62.4	62.4	5.8	16.0	10.0	5.8	26.4	15.6
1995			53.7	54.5	11.6	0.9	6.9	11.9	16.1	14.1
1996		466.9	64.4	66.4	20.9	-5.1	10.2	21.9	21.5	21.7
1997		38.9	-16.7	-15.8	9.8	11.7	10.5	10.1	-3.0	3.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-10.8	-14.2	-25.4	-19.8
1999		923.1	44.3	100.7	-9.7	-8.3	-9.2	6.0	6.6	6.3
2000		98.5	-6.9	27.6	1.6	-19.3	-6.5	17.4	-14.5	2.6
2001		10.0	26.8	18.2	11.5	0.8	7.9	11.1	11.7	11.3
2002		2.6	22.8	13.2	-4.5	20.0	3.2	-2.6	21.3	6.7
2003		-7.4	52.8	27.0	2.5	-38.9	-12.7	-0.4	5.3	2.1
2004		-1.4	9.6	6.2	7.3	45.5	17.1	5.0	20.4	12.0
2005		-5.5	21.3	13.5	0.2	11.7	3.9	-1.2	17.8	8.1
2006		19.3	11.9	30.9	-4.6	-32.2	-14.0	18.2	-3.3	6.7
2007	150.4	-17.1	19.3	28.5	-0.0	-28.9	-7.8	17.6	7.6	12.8
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	2.7	3.3	13.4	8.0
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.3	5.5	0.5
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.7	0.7	4.0	2.4
2011	5.7	15.8	-9.7	-3.4	7.2	41.6	13.9	8.2	-3.5	2.1
2012	39.1	6.0	4.2	12.7	-2.4	-43.6	-12.4	11.5	-4.2	3.8
2013	3.7	-7.6	-10.3	-5.9	0.8	10.2	2.3	0.5	-8.2	-3.4
2014	10.9	4.4	29.9	20.5	0.8	-23.6	-3.3	5.2	23.2	13.0

Remarks : IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.2-1Y
Coal Import

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Briquettes												
- Quantity (1,000 Tons)	0.03	0.06	0.20	3.06	0.05	0.04	0.02	0.01	0.03	0.00		
- Value (Million Bahts)	0.29	0.50	0.16	1.18	0.55	0.31	0.39	0.58	0.20	0.23	0.04	0.01
Anthracite												
- Quantity (1,000 Tons)	12.89	18.78	1.57	3.63	1.18	5.08	46.16	8.09	23.10	110.80	164.69	234.89
- Value (Million Bahts)	28.50	32.33	3.94	11.68	4.68	13.45	63.62	27.24	47.31	149.57	243.30	353.50
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	236.72	366.14	438.70	867.57	1,408.15	2,244.85	3,733.61	3,191.91	1,521.42	3,079.53	3,933.74	4,651.04
- Value (Million Bahts)	330.46	377.03	424.75	805.85	1,345.23	1,833.53	3,485.59	3,427.83	1,629.55	3,507.49	4,472.65	6,810.36
Peat												
- Quantity (1,000 Tons)		0.01				0.25	0.74	1.27	1.07	1.21	1.67	2.23
- Value (Million Bahts)		0.06				1.53	5.98	6.28	6.76	7.51	8.82	13.35
Coke of Coal												
- Quantity (1,000 Tons)	91.25	84.43	60.39	61.50	109.84	96.95	125.30	87.48	87.38	86.34	83.10	57.06
- Value (Million Bahts)	286.52	308.75	220.39	200.71	368.59	325.56	429.56	350.98	384.35	344.98	342.88	312.16
Total												
- Quantity (1,000 Tons)	340.90	469.42	500.85	935.76	1,519.21	2,347.16	3,905.84	3,288.78	1,632.98	3,277.93	4,183.20	4,945.21
- Value (Million Bahts)	645.77	718.66	649.23	1,019.42	1,719.06	2,174.40	3,985.25	3,813.12	2,068.16	4,009.80	5,067.69	7,489.37

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.2-1Y (Cont.)
Coal Import

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Briquettes													
- Quantity (1,000 Tons)	0.00		0.02	0.02	0.03	50.13	0.01	0.00	0.00		0.10		
- Value (Million Bahts)	0.05	0.27	0.75	0.07	0.50	56.92	0.76	0.82	0.21	0.01	1.92	0.01	0.01
Anthracite													
- Quantity (1,000 Tons)	581.26	532.86	355.13	487.76	553.49	305.46	242.20	677.52	367.82	210.70	138.06	108.69	184.23
- Value (Million Bahts)	827.78	829.85	720.87	1,406.69	1,236.50	836.44	1,280.39	2,209.51	1,539.64	1,407.26	808.05	562.96	833.90
Coal Solid Fuels from Coal													
- Quantity (1,000 Tons)	4,944.07	6,509.00	7,124.40	8,006.40	10,550.96	13,777.60	15,679.32	15,587.41	16,319.89	16,002.60	18,221.60	17,166.39	20,611.67
- Value (Million Bahts)	6,485.58	8,106.07	10,520.27	13,166.66	17,014.32	24,769.55	34,089.44	33,448.03	34,834.61	39,179.19	45,160.57	38,531.90	46,466.33
Peat													
- Quantity (1,000 Tons)	2.85	3.82	4.03	3.16	4.13	214.29	4.88	6.36	7.77	9.64	8.59	13.95	45.83
- Value (Million Bahts)	18.74	28.45	31.80	25.67	29.39	3,329.67	45.04	52.75	64.69	81.71	84.15	103.06	142.64
Coke of Coal													
- Quantity (1,000 Tons)	70.65	64.75	66.39	70.96	45.48	66.32	52.59	117.54	208.73	108.16	36.02	39.09	39.10
- Value (Million Bahts)	540.16	405.16	1,001.56	822.98	487.50	663.81	1,040.38	1,224.22	2,921.98	1,667.53	647.62	515.73	504.50
Total													
- Quantity (1,000 Tons)	5,598.84	7,110.44	7,549.95	8,568.29	11,214.80	14,413.80	15,979.00	16,388.84	16,904.21	16,331.11	18,404.37	17,328.12	20,880.84
- Value (Million Bahts)	7,872.31	9,369.79	12,275.26	15,422.06	18,895.88	29,656.38	36,456.01	36,935.34	39,361.12	42,335.71	46,702.31	39,713.67	47,947.38

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.1-1M
Production and Consumption of Lignite

Unit : Ton

Month	EGAT				Total EGAT		Others		Nationwide	
	Mae-Moh		Krabi							
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
2010										
Jan	1,358,183	1,363,194			1,358,183	1,363,194	177,050	171,521	1,535,233	1,534,715
Feb	1,209,511	1,161,660			1,209,511	1,161,660	252,862	144,184	1,462,373	1,305,844
Mar	1,343,448	1,370,186			1,343,448	1,370,186	222,982	189,422	1,566,430	1,559,608
Apr	1,412,283	1,427,231			1,412,283	1,427,231	206,286	161,905	1,618,569	1,589,136
May	1,537,747	1,482,298			1,537,747	1,482,298	183,169	165,206	1,720,916	1,647,504
Jun	1,242,187	1,257,482			1,242,187	1,257,482	218,660	188,479	1,460,847	1,445,961
Jul	1,276,520	1,278,053			1,276,520	1,278,053	153,860	155,133	1,430,380	1,433,186
Aug	1,291,936	1,370,701			1,291,936	1,370,701	132,330	134,749	1,424,266	1,505,450
Sep	1,303,351	1,219,748			1,303,351	1,219,748	123,300	132,236	1,426,651	1,351,984
Oct	1,301,037	1,340,644			1,301,037	1,340,644	165,200	61,942	1,466,237	1,402,586
Nov	1,370,110	1,357,249			1,370,110	1,357,249	173,200	290,589	1,543,310	1,647,838
Dec	1,340,950	1,375,750			1,340,950	1,375,750	261,900	222,319	1,602,850	1,598,069
YTD	**15,987,263**	**16,004,196**			**15,987,263**	**16,004,196**	**2,270,799**	**2,017,685**	**18,258,062**	**18,021,881**
2011										
Jan	1,645,139	1,491,892			1,645,139	1,491,892	191,874	277,871	1,837,013	1,769,763
Feb	1,394,702	1,350,179			1,394,702	1,350,179	176,770	307,575	1,571,472	1,657,754
Mar	1,529,052	1,524,371			1,529,052	1,524,371	200,700	289,908	1,729,752	1,814,279
Apr	1,455,516	1,453,644			1,455,516	1,453,644	172,400	278,587	1,627,916	1,732,231
May	1,340,459	1,552,462			1,340,459	1,552,462	171,000	253,227	1,511,459	1,805,689
Jun	1,618,168	1,490,675			1,618,168	1,490,675	182,905	260,229	1,801,073	1,750,904
Jul	1,456,668	1,537,595			1,456,668	1,537,595	861,525	120,233	2,318,193	1,657,828
Aug	1,664,345	1,393,272			1,664,345	1,393,272	310,755	308,030	1,975,100	1,701,302
Sep	1,377,383	1,344,072			1,377,383	1,344,072	1,080,640	283,836	2,458,023	1,627,908
Oct	1,352,220	1,391,102			1,352,220	1,391,102	136,026	287,435	1,488,246	1,678,537
Nov	1,141,767	1,277,770			1,141,767	1,277,770	155,800	66,034	1,297,567	1,343,804
Dec	1,582,917	1,354,134			1,582,917	1,354,134	128,375	124,024	1,711,292	1,478,158
YTD	**17,558,336**	**17,161,168**			**17,558,336**	**17,161,168**	**3,768,770**	**2,856,989**	**21,327,106**	**20,018,157**
2012										
Jan	1,292,151	1,422,026			1,292,151	1,422,026	161,879	86,026	1,454,030	1,508,052
Feb	1,480,657	1,305,278			1,480,657	1,305,278	123,334	54,232	1,603,991	1,359,510
Mar	1,313,185	1,396,404			1,313,185	1,396,404	125,950	86,462	1,439,135	1,482,866
Apr	1,372,951	1,423,127			1,372,951	1,423,127	365,320	74,782	1,738,271	1,497,909
May	1,529,188	1,487,165			1,529,188	1,487,165	284,522	65,895	1,813,710	1,553,060
Jun	1,249,878	1,464,663			1,249,878	1,464,663	32,848	60,762	1,282,726	1,525,425
Jul	1,632,368	1,329,878			1,632,368	1,329,878	45,420	249,397	1,677,788	1,579,275
Aug	1,247,007	1,518,295			1,247,007	1,518,295	31,740	212,345	1,278,747	1,730,640
Sep	1,536,691	1,325,208			1,536,691	1,325,208	31,650	172,756	1,568,341	1,497,964
Oct	1,343,814	1,305,321			1,343,814	1,305,321	112,720	189,694	1,456,534	1,495,015
Nov	1,271,893	1,440,217			1,271,893	1,440,217	117,135	174,743	1,389,028	1,614,960
Dec	1,320,678	1,336,699			1,320,678	1,336,699	43,450	184,502	1,364,128	1,521,201
YTD	**16,590,461**	**16,754,281**			**16,590,461**	**16,754,281**	**1,475,968**	**1,611,596**	**18,066,429**	**18,365,877**

Table 4.1-1M (Cont.)
Production and Consumption of Lignite

Unit : Ton

Month	EGAT				Total EGAT		Others		Nationwide	
	Mae-Moh		Krabi							
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
2013										
Jan	1,511,773	1,478,443			1,511,773	1,478,443	37,900	155,102	1,549,673	1,633,545
Feb	1,335,122	1,300,431			1,335,122	1,300,431	69,590	175,545	1,404,712	1,475,976
Mar	1,256,906	1,292,567			1,256,906	1,292,567	48,535	208,176	1,305,441	1,500,743
Apr	1,170,905	1,435,925			1,170,905	1,435,925	36,040	152,900	1,206,945	1,588,825
May	1,541,706	1,575,563			1,541,706	1,575,563	151,642	114,615	1,693,348	1,690,178
Jun	1,793,489	1,461,197			1,793,489	1,461,197	108,817	149,511	1,902,306	1,610,708
Jul	1,738,907	1,392,047			1,738,907	1,392,047	123,300	155,528	1,862,207	1,547,575
Aug	1,216,365	1,494,943			1,216,365	1,494,943	97,110	138,287	1,313,475	1,633,230
Sep	1,320,036	1,295,697			1,320,036	1,295,697	122,378	116,776	1,442,414	1,412,473
Oct	1,420,072	1,442,740			1,420,072	1,442,740	115,539	135,472	1,535,611	1,578,212
Nov	1,180,080	1,318,530			1,180,080	1,318,530	61,691	139,703	1,241,771	1,458,233
Dec	1,586,600	1,396,864			1,586,600	1,396,864	66,260	134,544	1,652,860	1,531,408
YTD	17,071,961	16,884,947			17,071,961	16,884,947	1,038,802	1,776,159	18,110,763	18,661,106
2014										
Jan	1,231,149	1,477,917			1,231,149	1,477,917	55,825	119,081	1,286,974	1,596,998
Feb	1,296,509	1,220,854			1,296,509	1,220,854	65,600	158,408	1,362,109	1,379,262
Mar	1,388,149	1,437,243			1,388,149	1,437,243	74,873	117,800	1,463,022	1,555,043
Apr	1,431,734	1,519,146			1,431,734	1,519,146	59,450	173,309	1,491,184	1,692,455
May	1,491,905	1,583,533			1,491,905	1,583,533	56,330	112,674	1,548,235	1,696,207
Jun	1,677,797	1,490,812			1,677,797	1,490,812	82,050	138,153	1,759,847	1,628,965
Jul	1,452,522	1,424,008			1,452,522	1,424,008	89,720	92,196	1,542,242	1,516,204
Aug	1,424,092	1,341,676			1,424,092	1,341,676	71,650	73,717	1,495,742	1,415,393
Sep	1,721,225	1,301,584			1,721,225	1,301,584	56,437	108,311	1,777,662	1,409,895
Oct	1,241,727	1,420,889			1,241,727	1,420,889	66,405	93,558	1,308,132	1,514,447
Nov	1,304,267	1,347,429			1,304,267	1,347,429	104,654	103,890	1,408,921	1,451,319
Dec	1,478,519	1,455,334			1,478,519	1,455,334	59,133	66,092	1,537,652	1,521,426
YTD	17,139,595	17,020,425			17,139,595	17,020,425	842,127	1,357,189	17,981,722	18,377,614

Table 4.2-1M
Coal Import

Unit : 1,000 Tons

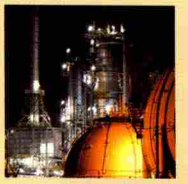
	2010												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Briquettes													
Anthracite	65.82	18.76	21.62	6.33	61.44	15.26	66.16	6.09	14.39	68.14	8.77	15.04	367.82
Coal Solid Fuels from Coal	1,191.41	1,285.13	1,194.55	1,865.40	1,353.05	1,341.70	1,064.30	1,030.88	1,593.67	1,523.16	1,314.52	1,562.13	16,319.89
Peat	0.10	0.17	0.48	0.60	1.01	0.92	1.26	0.54	0.86	0.64	0.45	0.76	7.77
Coke of Coal	2.79	35.77	51.22	52.88	3.64	3.52	1.98	2.63	3.64	8.96	3.82	37.88	208.73
Total	1,260.12	1,339.83	1,267.86	1,925.20	1,419.13	1,361.40	1,133.69	1,040.14	1,612.57	1,600.90	1,327.56	1,615.80	16,904.21
	2011												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Briquettes													
Anthracite	66.66	15.53	8.61	7.60	7.83	19.01	28.60	21.60	0.63	20.77	6.27	7.59	210.70
Coal Solid Fuels from Coal	1,453.28	1,583.19	1,404.63	1,489.47	1,430.74	1,454.47	1,165.26	961.43	1,820.69	999.42	1,233.00	1,007.02	16,002.60
Peat	0.26	0.87	0.20	0.86	0.88	0.77	1.76	1.58	1.18	0.47	0.02	0.81	9.64
Coke of Coal	15.70	28.85	0.87	2.10	33.56	3.37	1.86	4.28	5.98	4.91	2.98	3.71	108.16
Total	1,535.90	1,628.44	1,414.31	1,500.03	1,473.01	1,477.62	1,197.48	988.88	1,828.47	1,025.57	1,242.26	1,019.12	16,331.11
	2012												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Briquettes	0.10												0.10
Anthracite	13.98	0.17	5.29	30.87	14.04	14.84	15.48	0.40	14.99	7.02	7.10	13.89	138.06
Coal Solid Fuels from Coal	1,081.61	1,585.57	1,467.95	1,847.60	1,483.82	1,140.04	1,446.67	1,950.85	1,617.13	2,306.11	1,319.95	974.32	18,221.60
Peat	0.14	0.49	0.17	0.74	0.59	2.11	0.62	1.42	0.52	0.92	0.51	0.36	8.59
Coke of Coal	2.70	0.65	2.77	5.65	4.39	3.16	3.29	3.82	3.08	1.27	3.18	2.08	36.02
Total	1,098.52	1,586.88	1,476.17	1,884.86	1,502.83	1,160.14	1,466.07	1,956.48	1,635.71	2,315.32	1,330.74	990.65	18,404.37
	2013												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Briquettes													
Anthracite	13.26	0.30	7.82	14.07	0.65	19.38	8.40	0.00	15.38	7.80	4.12	17.52	108.69
Coal Solid Fuels from Coal	1,503.63	1,101.35	592.72	955.43	1,783.25	2,149.91	1,598.46	1,792.69	1,231.04	1,585.30	1,269.03	1,603.58	17,166.39
Peat	0.60	0.30	0.61	2.41	3.83	1.61	0.80	1.45	0.79	0.36	0.53	0.69	13.95
Coke of Coal	2.44	3.82	1.22	4.50	4.96	2.83	2.25	3.63	2.56	3.51	3.75	3.63	39.09
Total	1,519.93	1,105.77	602.37	976.40	1,792.68	2,173.71	1,609.90	1,797.77	1,249.77	1,596.96	1,277.43	1,625.42	17,328.12
	2014												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Briquettes													
Anthracite	12.22	7.72	8.21	24.29	21.32	22.28	16.81	7.60	6.92	15.39	14.63	26.83	184.23
Coal Solid Fuels from Coal	1,340.80	1,613.14	1,965.18	1,581.85	1,996.81	2,086.60	2,059.93	1,354.71	1,829.37	1,842.47	1,207.47	1,733.35	20,611.67
Peat	6.39	5.47	4.55	5.71	5.49	3.49	0.63	1.95	0.64	0.89	2.56	8.08	45.83
Coke of Coal	2.67	1.15	3.79	3.39	1.65	2.89	3.86	4.99	3.57	3.94	2.67	4.53	39.10
Total	1,362.07	1,627.48	1,981.74	1,615.23	2,025.27	2,115.25	2,081.23	1,369.25	1,840.50	1,862.69	1,227.34	1,772.80	20,880.84

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

หน้าว่าง

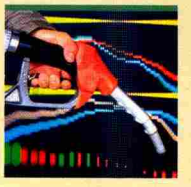




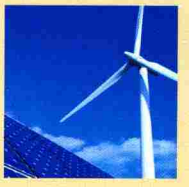




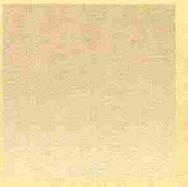




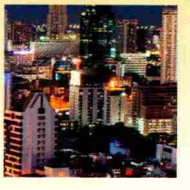






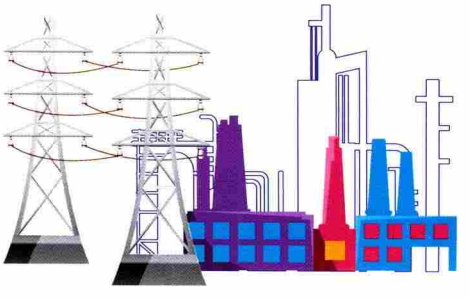






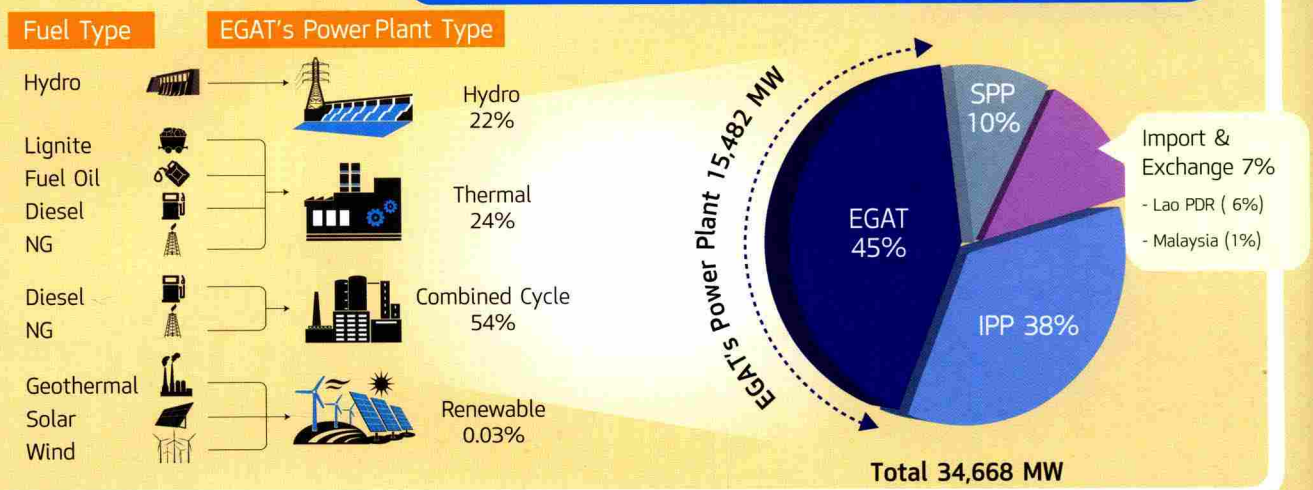
Chapter 5

Electricity



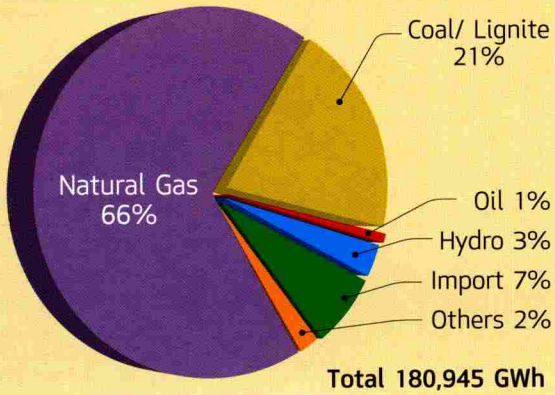
Electricity

System Generating Capacity as of December 2014



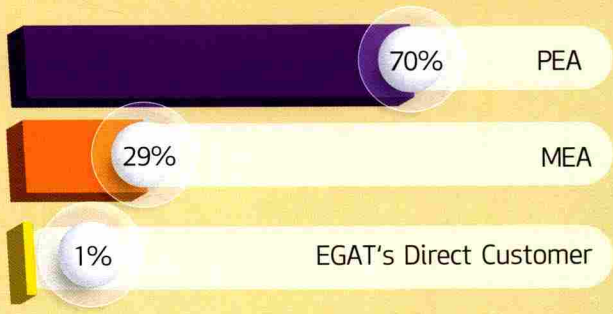
Total 34,668 MW

Share of Power Generation by Fuel Type in 2014



Total 180,945 GWh

Share of Electricity Consumption by Area in 2014



Total 168,620 GWh

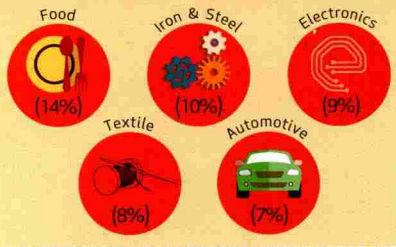
Electricity Consumption by Sector in 2014



Industrial	44%	73,782 GWh
Residential	23%	
Commercial	19%	31,362 GWh
Small General Service	11%	
Non-Profit	0.1%	
Agriculture	0.2%	
Free of Charge	1%	
Other	2%	

Total 168,620 GWh

Top 5 of Electricity Consumption in Industrial Cluster



Top 5 of Electricity Consumption in Commercial Cluster

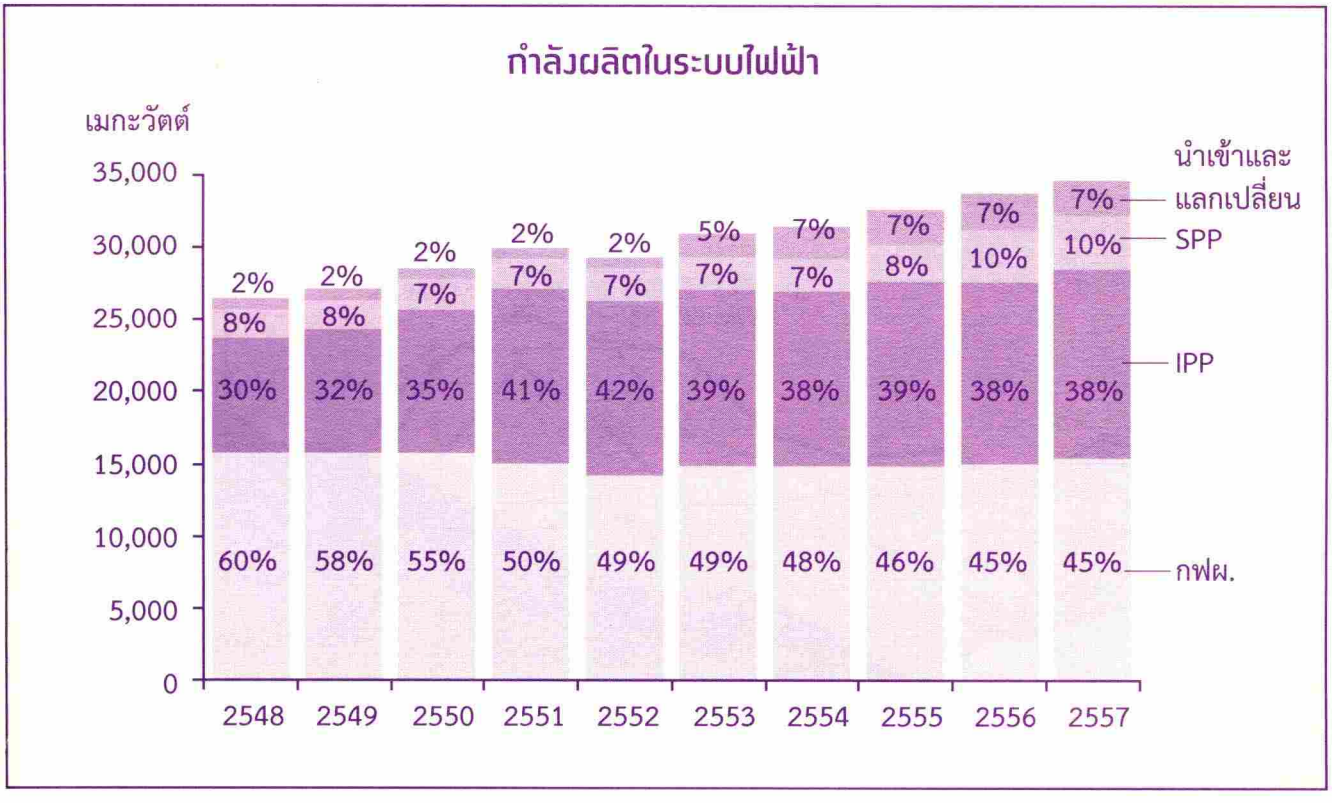


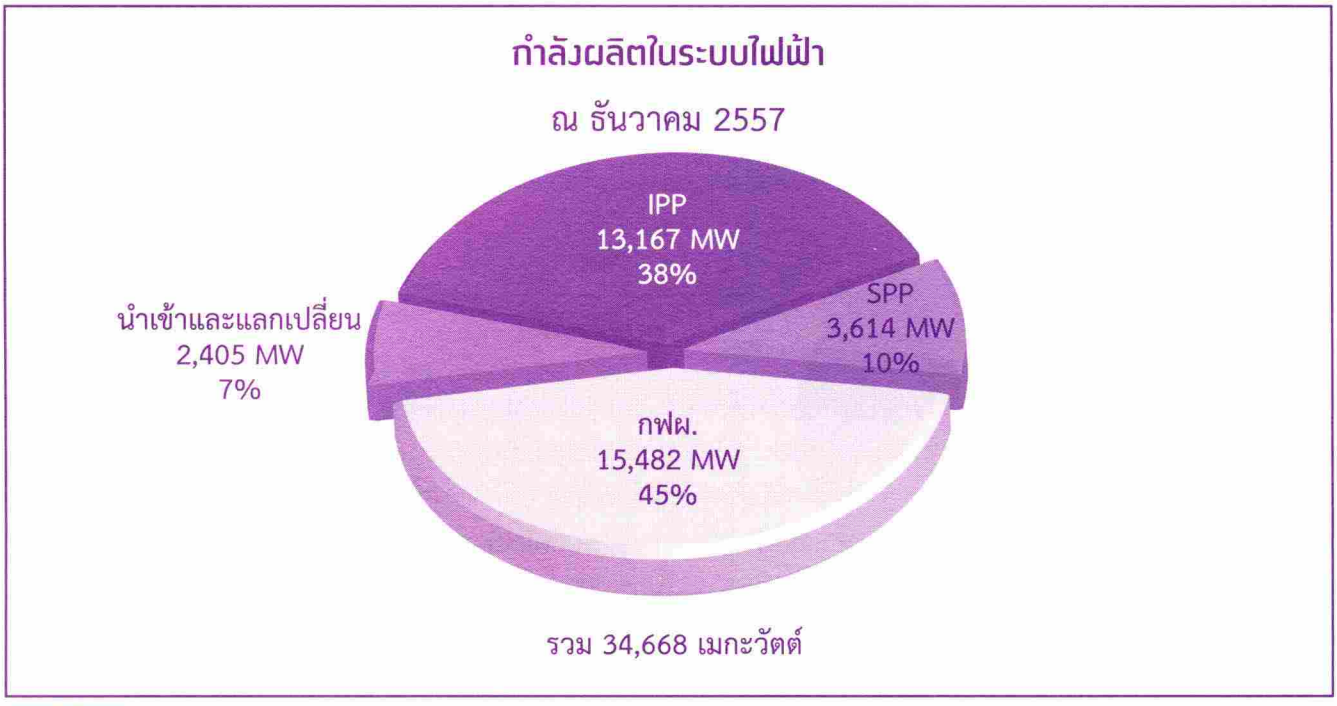
บทที่ 5

ไฟฟ้า

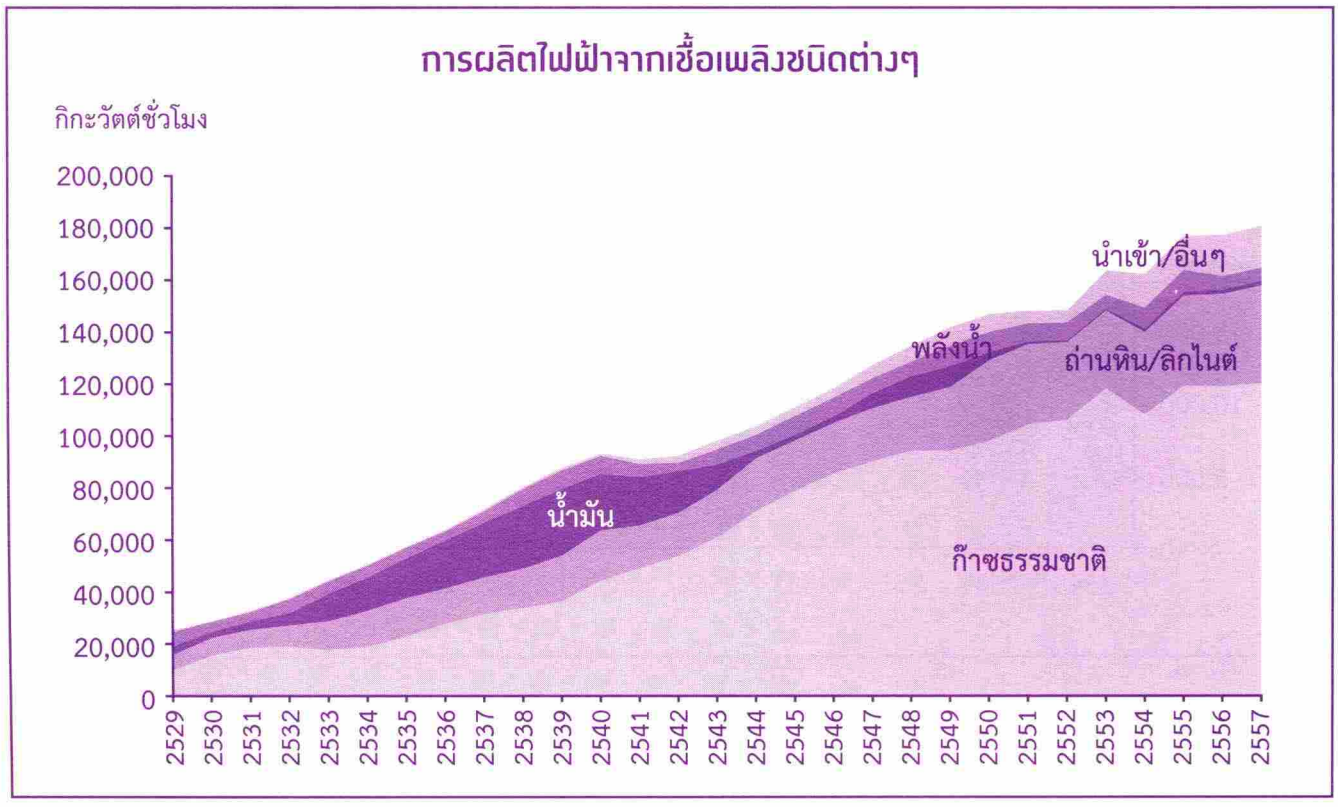
กำลังผลิตในระบบไฟฟ้า ในอดีตการผลิตไฟฟ้าของประเทศไทยมีการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) เป็นผู้ผลิตไฟฟ้าเพียงรายเดียว ต่อมารัฐบาลมีนโยบายให้เอกชนเข้ามามีส่วนร่วมในการผลิตไฟฟ้า เพื่อให้มีการแข่งขันด้านการผลิต ในปี 2537 จึงมีผู้ผลิตไฟฟ้าเอกชนรายใหญ่ (Independent Power Producer: IPP) และผู้ผลิตไฟฟ้าเอกชนรายเล็ก (Small Power Producer: SPP) เข้ามามีบทบาทในภาคการผลิตไฟฟ้าทำให้เกิดการปรับปรุงประสิทธิภาพการผลิตและบริการ ในปัจจุบันได้ส่งเสริมให้มีการใช้พลังงานหมุนเวียนในการผลิตไฟฟ้า จึงมีผู้ผลิตไฟฟ้าขนาดเล็กมาก (Very Small Power Producer: VSPP) ที่ใช้พลังงานหมุนเวียนเป็นหลักเข้ามาในระบบ

ในช่วง 10 ปีที่ผ่านมา กำลังผลิตในระบบไฟฟ้ามีแนวโน้มเพิ่มขึ้น โดยส่วนใหญ่เป็นของ กฟผ. ทั้งนี้ การผลิตไฟฟ้าของ กฟผ. มีแนวโน้มลดลง ในขณะที่ IPP SPP และการนำเข้ามีแนวโน้มเพิ่มขึ้น โดยในปี 2557 มีกำลังผลิตในระบบไฟฟ้ารวมทั้งสิ้น 34,668 เมกะวัตต์ เป็นการผลิตไฟฟ้าของ กฟผ. ร้อยละ 45 IPP ร้อยละ 38 SPP ร้อยละ 10 และนำเข้าจาก สปป.ลาว และแลกเปลี่ยนกับมาเลเซีย ร้อยละ 7

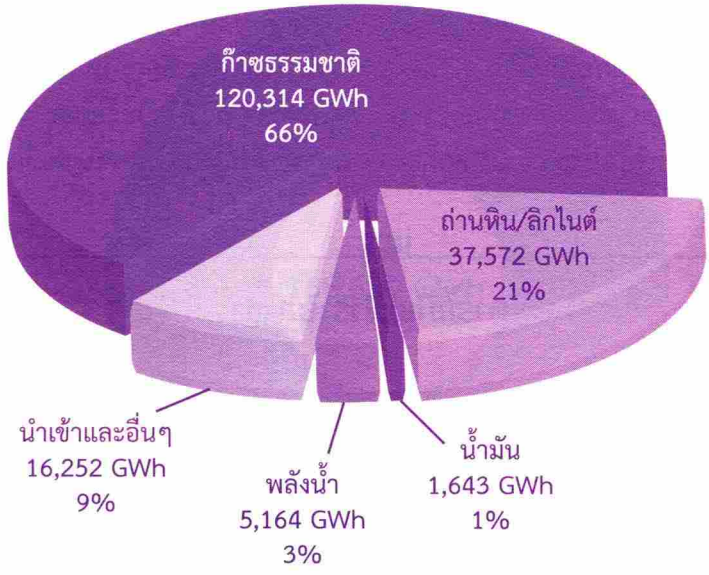




การผลิตพลังงานไฟฟ้า มีแนวโน้มเพิ่มขึ้น ยกเว้นปี 2541 ซึ่งเกิดวิกฤตเศรษฐกิจในไทย ส่วนปี 2552 เกิดวิกฤตเศรษฐกิจในสหรัฐอเมริกาซึ่งได้ส่งผลกระทบต่อเนื่องไปทั่วโลก และปี 2554 เกิดอุทกภัยในหลายพื้นที่ของประเทศ ทำให้ปริมาณการผลิตพลังงานไฟฟ้าของไทยในช่วงเวลาดังกล่าวลดลง ทั้งนี้ ในปี 2557 การผลิตพลังงานไฟฟ้าอยู่ที่ระดับ 180,945 กิกะวัตต์ชั่วโมง เพิ่มขึ้นร้อยละ 2.0 เมื่อเทียบกับปีก่อน เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติร้อยละ 66 ถ่านหิน/ลิกไนต์ร้อยละ 21 นำเข้า/แลกเปลี่ยนไฟฟ้าและอื่นๆ ร้อยละ 9 ไฟฟ้าพลังน้ำร้อยละ 3 และน้ำมันร้อยละ 1



สัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่างๆ ปี 2557

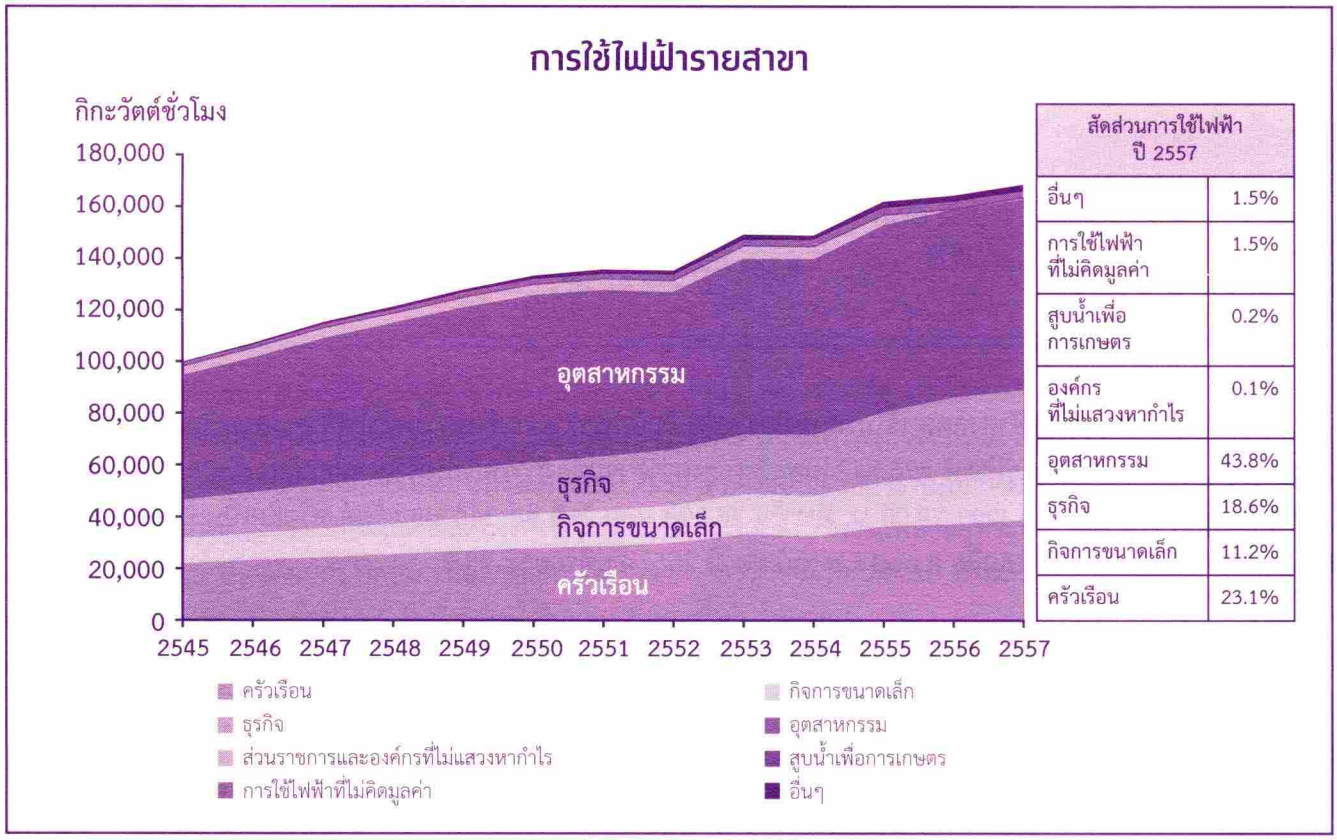


ความต้องการพลังไฟฟ้าสูงสุดสุทธิในระบบของ กฟผ. ในปี 2557 ความต้องการพลังไฟฟ้าสูงสุดสุทธิเกิดขึ้นเมื่อวันพุธที่ 23 เมษายน เวลา 14.26 น. อยู่ที่ระดับ 26,942 เมกะวัตต์ สูงกว่าความต้องการพลังไฟฟ้าสูงสุดสุทธิของปี 2556 ซึ่งเกิดขึ้นเมื่อวันพฤหัสบดีที่ 16 พฤษภาคม เวลา 14.00 น. ที่ระดับ 26,598 เมกะวัตต์ อยู่ 344 เมกะวัตต์ หรือคิดเป็นเพิ่มขึ้นร้อยละ 1.3 ส่วนค่าตัวประกอบการใช้ไฟฟ้าเฉลี่ย (Load Factor) ของปี 2557 อยู่ที่ร้อยละ 75.2

ความต้องการพลังไฟฟ้าสูงสุดสุทธิในระบบ



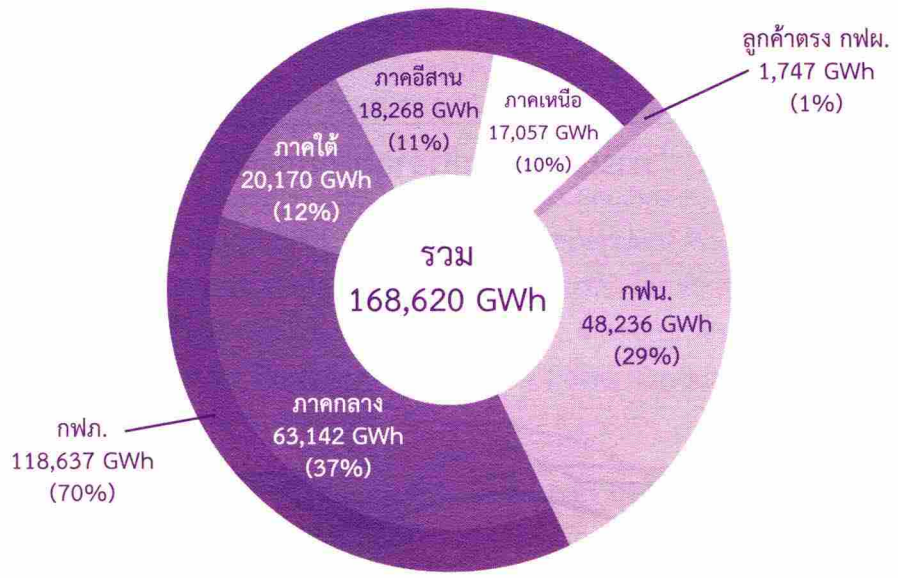
การใช้ไฟฟ้า ปริมาณการใช้ไฟฟ้ารายสาขาของไทยมีสัดส่วนใกล้เคียงกันกับในอดีตที่ผ่านมา โดยในปี 2557 การใช้ไฟฟ้ารวมทั้งประเทศอยู่ที่ระดับ 168,620 กิกะวัตต์ชั่วโมง เพิ่มขึ้นร้อยละ 2.6 เมื่อเทียบกับปีก่อน ตามการฟื้นตัวของเศรษฐกิจภายในประเทศ โดยสาขาที่มีสัดส่วนการใช้ไฟฟ้าสูงที่สุด คือ ภาคอุตสาหกรรม คิดเป็นร้อยละ 44 ของการใช้ไฟฟ้าทั้งประเทศ รองลงมาคือการใช้ไฟฟ้าในภาคครัวเรือน ร้อยละ 23 ภาคธุรกิจ ร้อยละ 19 และกิจการขนาดเล็ก ร้อยละ 11



สัดส่วนการใช้ไฟฟ้า ปี 2557	
อื่นๆ	1.5%
การใช้ไฟฟ้าที่ไม่คิดมูลค่า	1.5%
สูบน้ำเพื่อการเกษตร	0.2%
องค์กรที่ไม่แสวงหากำไร	0.1%
อุตสาหกรรม	43.8%
ธุรกิจ	18.6%
กิจการขนาดเล็ก	11.2%
ครัวเรือน	23.1%

การใช้ไฟฟ้าของไทยปี 2557 ส่วนใหญ่ร้อยละ 70 เป็นการใช้ในเขตการไฟฟ้าส่วนภูมิภาค (กฟภ.) รองลงมาร้อยละ 29 เป็นการใช้ในเขตการไฟฟ้านครหลวง (กฟน.) และร้อยละ 1 เป็นการใช้ของลูกค้าตรง กฟผ. ทั้งนี้ ภูมิภาคที่มีการใช้ไฟฟ้าสูงที่สุดคือ ภาคกลาง ภาคใต้ ภาคตะวันออกเฉียงเหนือ และภาคเหนือ คิดเป็นร้อยละ 37 12 11 และ 10 ของการใช้ไฟฟ้าทั้งประเทศ ตามลำดับ

การใช้ไฟฟ้ารายเขตพื้นที่ ปี 2557



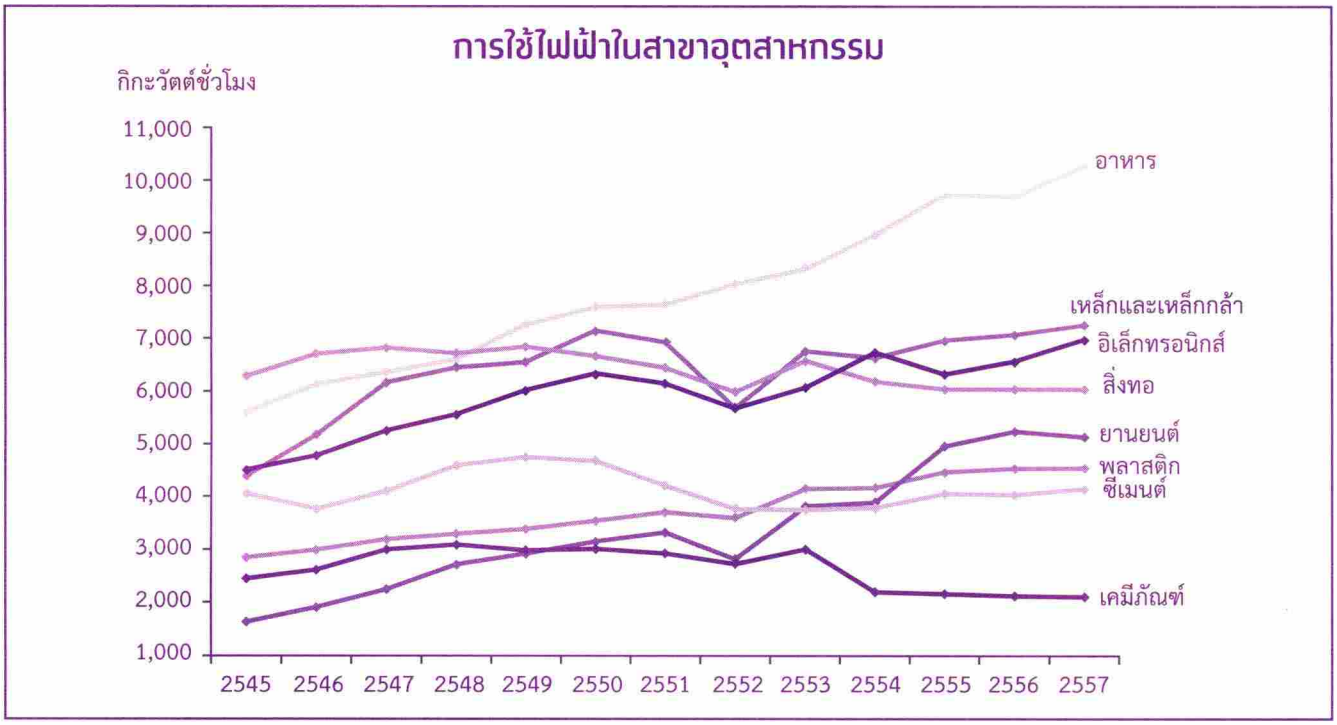
จำนวนผู้ใช้ไฟฟ้าทั้งประเทศมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง โดยในปี 2557 มีผู้ใช้ไฟฟ้าประมาณ 21.1 ล้านราย (ตามมิเตอร์ไฟฟ้า) ซึ่งผู้ใช้ไฟฟ้าส่วนใหญ่เป็นประเภทบ้านอยู่อาศัย คิดเป็นร้อยละ 89 แบ่งเป็นบ้านที่ใช้ไฟฟ้าน้อยกว่า 150 หน่วย ร้อยละ 50 และบ้านที่ใช้ไฟฟ้ามากกว่า 150 หน่วย ร้อยละ 39

จำนวนผู้ใช้ไฟฟ้ารายอัตราค่าไฟฟ้า

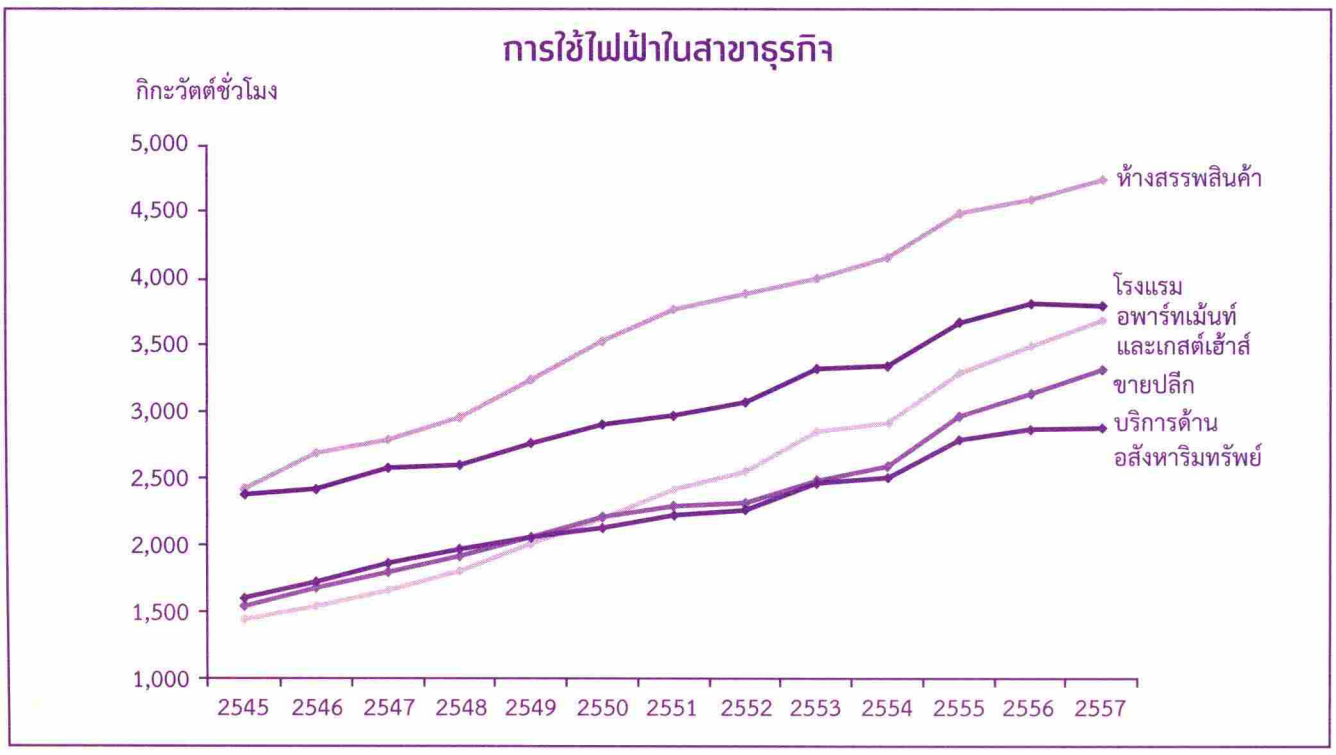
	จำนวนผู้ใช้ไฟฟ้า					สัดส่วน (ร้อยละ)				
	2553	2554	2555	2556	2557	2553	2554	2555	2556	2557
บ้านอยู่อาศัย	16,618,752	17,111,294	17,666,752	18,223,755	18,768,368	89	89	89	89	89
< 150 หน่วย	10,066,810	10,254,466	10,400,534	10,420,158	10,453,606	54	54	53	51	50
> 150 หน่วย	6,551,942	6,856,828	7,266,218	7,803,597	8,314,762	35	36	37	38	39
กิจการขนาดเล็ก	1,579,006	1,604,854	1,784,592	1,843,594	1,905,679	8	8	9	9	9
กิจการขนาดกลาง	60,103	62,236	78,244	83,737	87,274	0.32	0.33	0.40	0.41	0.41
กิจการขนาดใหญ่	5,820	6,587	7,245	7,664	8,003	0.03	0.03	0.04	0.04	0.04
กิจการเฉพาะอย่าง	10,154	10,831	11,916	12,744	13,587	0.05	0.06	0.06	0.06	0.06
ส่วนราชการและองค์กรที่ไม่แสวงหากำไร	153,742	139,983	1,377	1,749	1,716	0.83	0.73	0.01	0.01	0.01
สูบน้ำเพื่อการเกษตร	3,521	3,752	4,208	4,796	4,638	0.02	0.02	0.02	0.02	0.02
ไฟฟ้าชั่วคราว	164,768	198,040	240,567	273,992	286,046	0.89	1.03	1.22	1.34	1.36
อื่นๆ*	81	78	76	87	94	0.0004	0.0004	0.0004	0.0004	0.0004
รวม	**18,595,947**	**19,137,655**	**19,794,977**	**20,452,118**	**21,075,405**	100	100	100	100	100

* ไฟฟ้าสำรอง, ไฟฟ้าที่งดจ่ายได้ และลูกค้าตรงของ กฟผ.

- *การใช้ไฟฟ้าในสาขาอุตสาหกรรมที่สำคัญ* การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่มีแนวโน้มเพิ่มขึ้นในช่วงปี 2545 ถึงปี 2550 หลังจากนั้นในช่วงปี 2551 ถึงปี 2552 มีแนวโน้มลดลง เนื่องจากภาวะเศรษฐกิจโลกที่ชะลอตัวลงประกอบกับภาวะความไม่มีเสถียรภาพทางการเมืองภายในประเทศไทย ต่อมาในปี 2553 ถึงปี 2557 การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่กลับมาเพิ่มสูงขึ้นอีกครั้ง โดยเฉพาะอย่างยิ่งอุตสาหกรรมอาหาร



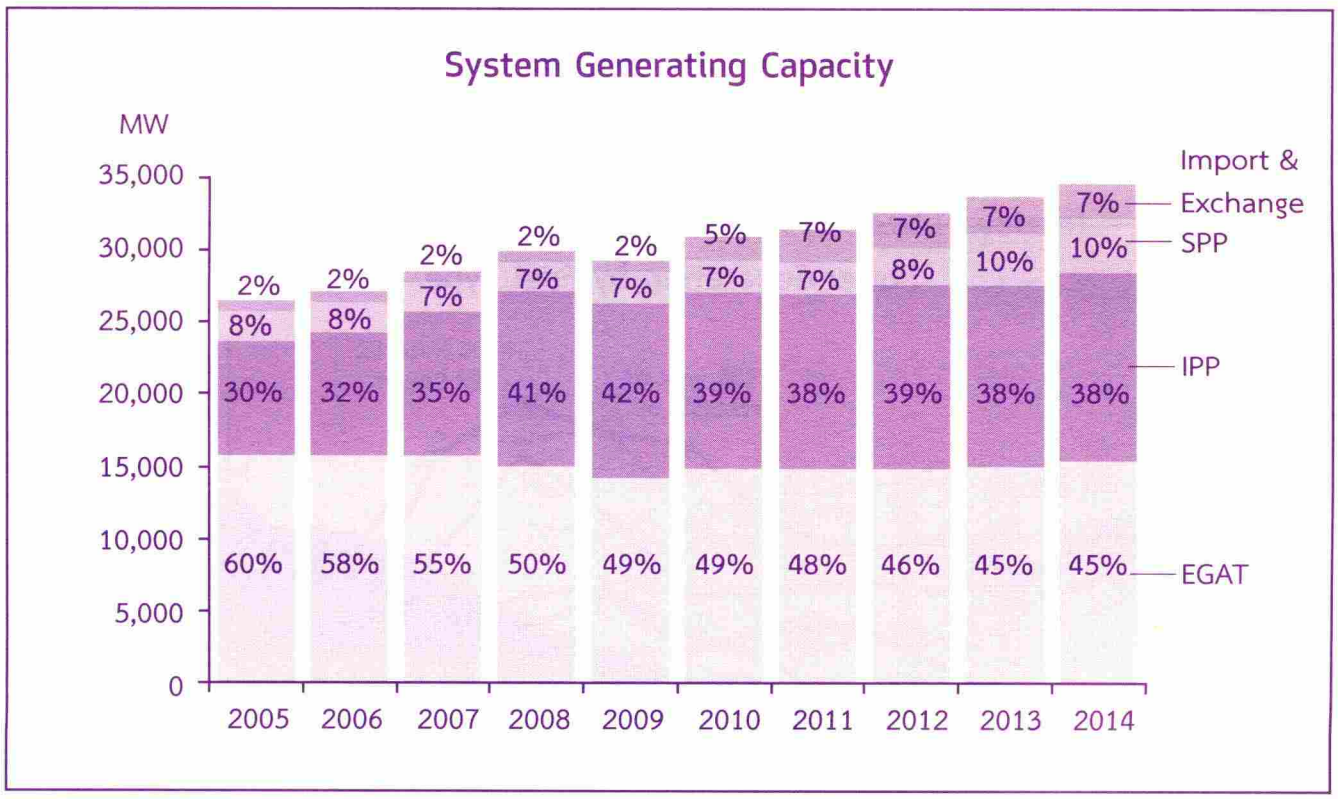
- *การใช้ไฟฟ้าในสาขาธุรกิจที่สำคัญ* การใช้ไฟฟ้าในสาขาธุรกิจส่วนใหญ่มีแนวโน้มเพิ่มขึ้นตั้งแต่ปี 2545 ถึงปี 2557 โดยในปี 2557 ธุรกิจที่มีการใช้ไฟฟ้าในสัดส่วนที่สูง ได้แก่ ห้างสรรพสินค้า โรงแรม อพาร์ทเม้นท์และเกสต์เฮ้าส์ ขายปลีก และบริการด้านอสังหาริมทรัพย์ ตามลำดับ

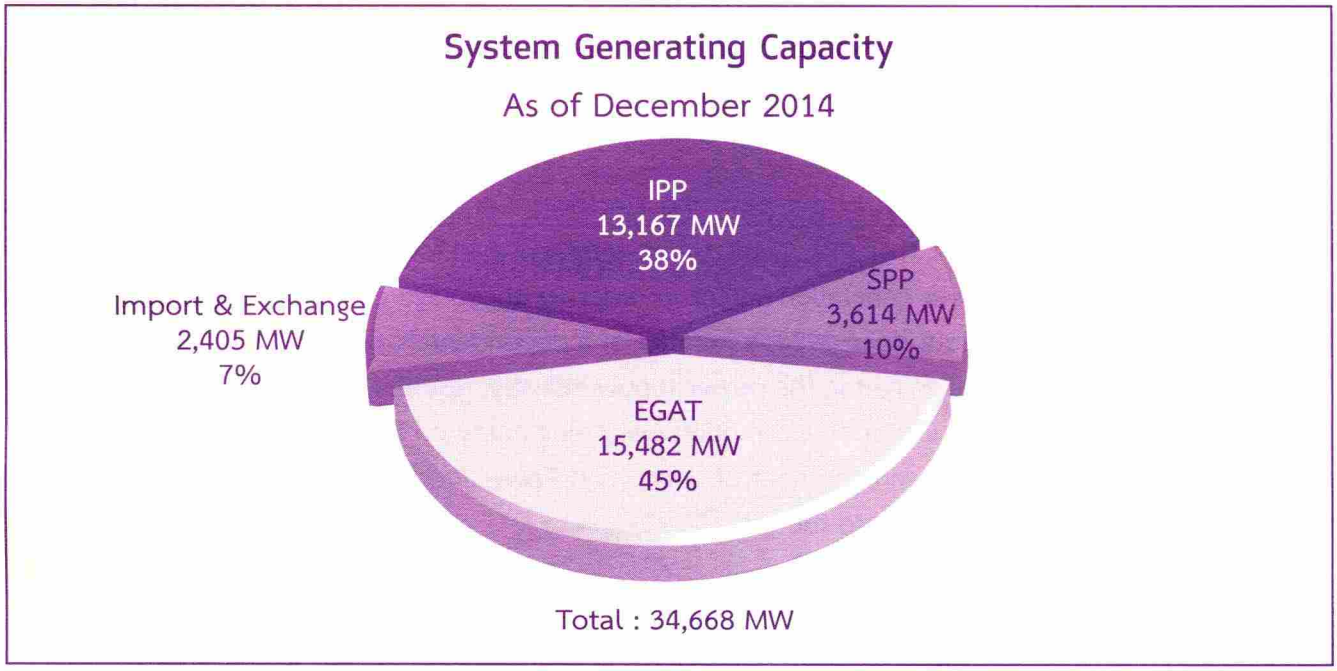


Chapter 5 : Electricity

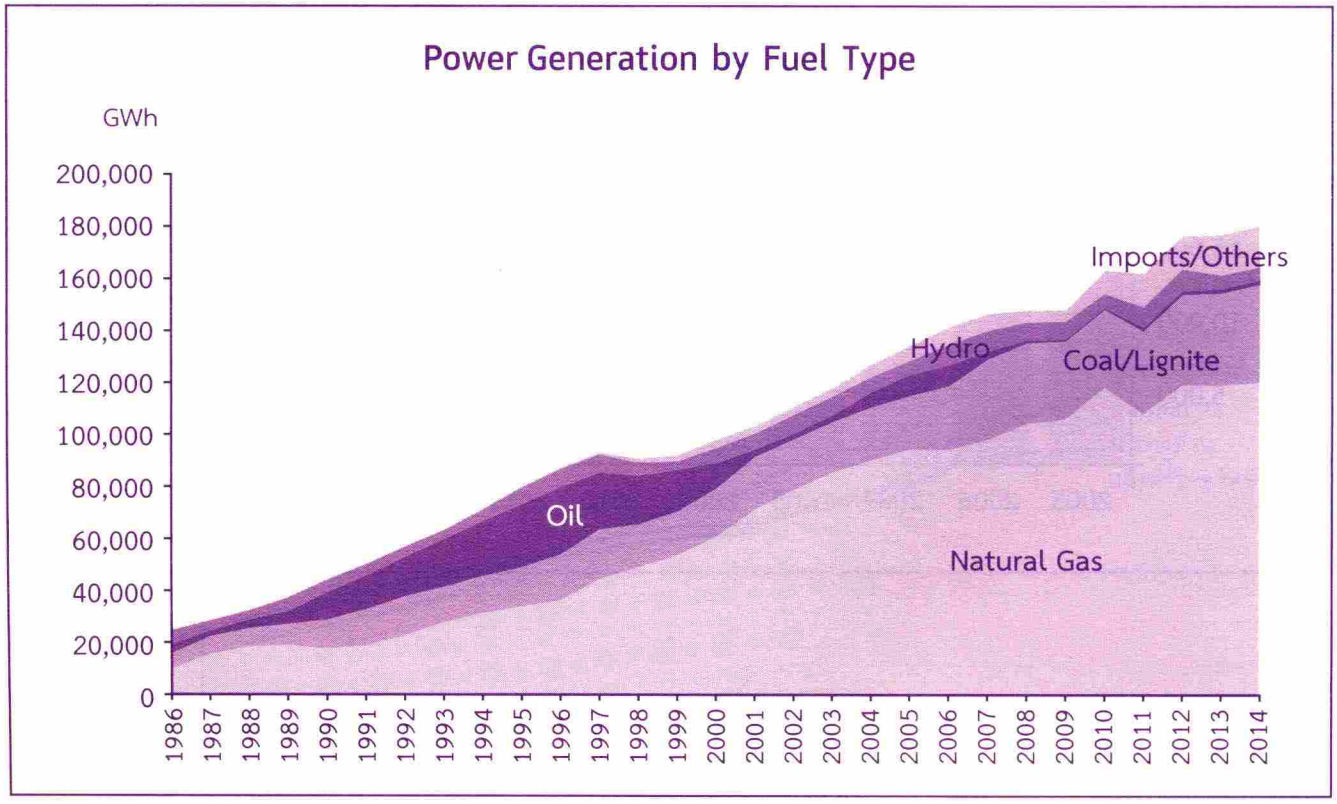
System Generating Capacity. In the past, the Electricity Generating Authority of Thailand (EGAT) was the sole power producer in Thailand. Later, the government had formulated a policy promoting the private sector role in the power generation sector in order to encourage competitiveness in the power generation business. As a result, since 1994, a number of Independent Power Producers (IPP) and Small Power Producers (SPP) have taken part in the power supply industry, resulting in an improvement in power generation and service quality. Currently, promotion was being made on the use of renewable energy in power generation, resulted a growing number of Very Small Power Producers (VSPP) in using renewable energy as main fuel to supply power to the grid.

In last decade, the System Generating Capacity trend had been on the rise. EGAT was the main producer, in additional, generating capacity of EGAT decreased in proportion while an increase in IPP, SPP and imported electricity became larger. In 2014, the System Generating Capacity stood at 34,668 MW, divided into the generating capacity of EGAT, 45%; IPP, 38%; SPP, 10%; and imported electricity from Lao PDR and exchange with Malaysia, 7%.

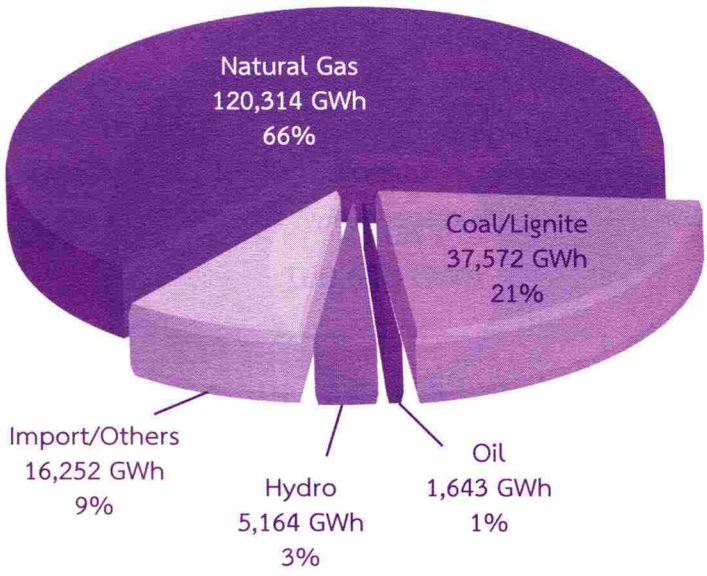




Electricity Generation. The electricity generation trend in Thailand has been on the rise, excepted in 1998 due to the economic crisis in Thailand and the Hamburger Crisis in 2009, which affected to the many parts of the world. In additional later on in 2011 the heavy flood in wide area hit Thailand. Then these caused the electricity generation to shrink during that period. In 2014, the generation was at a level of 180,945 gigawatt-hours (GWh), increased by 2.0%, compared with that in the previous year, with the use of the following fuels: natural gas, 66%; coal/lignite, 21%; electricity import/exchange and others, 9%; hydropower, 3% and oil, 1%.

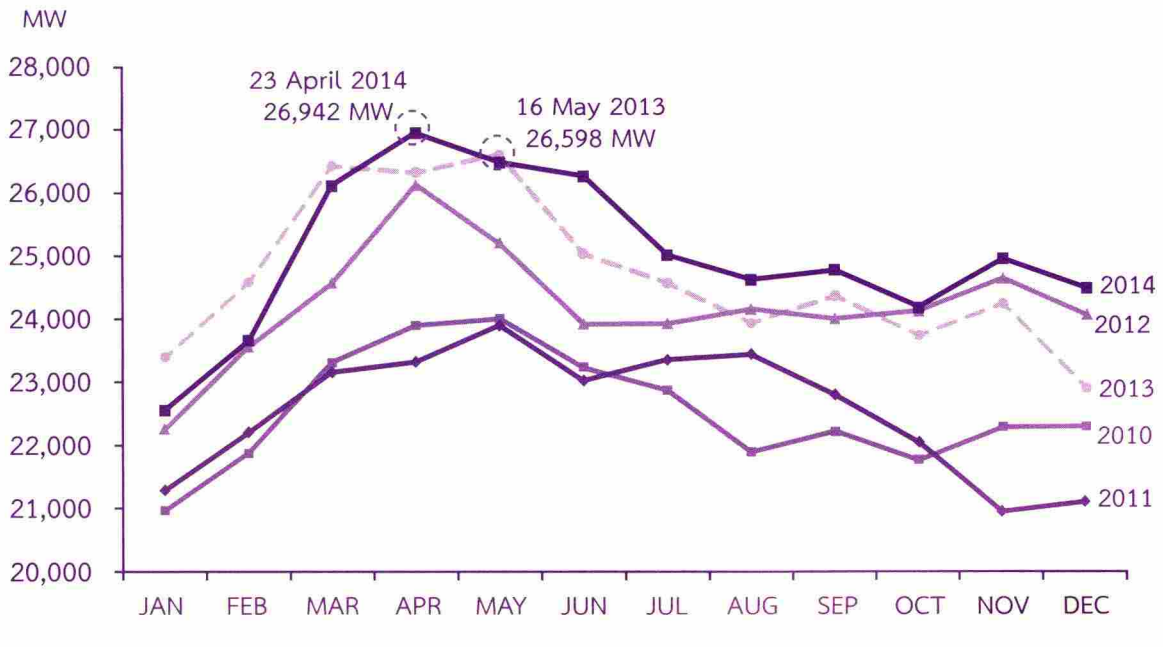


Share of Power Generation by Fuel Type in 2014



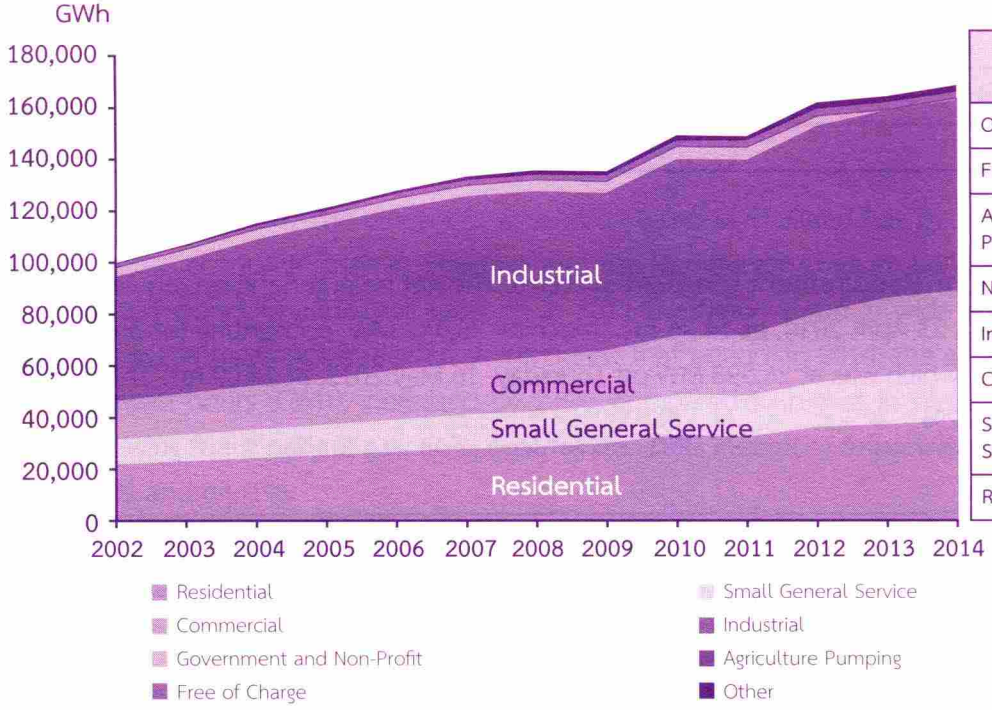
Net Peak Generation Requirement (on EGAT system). The net peak generation requirement in 2014 occurred on Wednesday, 23 April 2014, at 14.26 hrs., reaching 26,942 MW, accounting for 344 MW or 1.3% higher than that in 2013, which was at 26,598 MW on Thursday, 16 May 2013, at 14.00 hrs. The average load factor in 2014 was at 75.2%.

Net Peak Generation Requirement (on EGAT system)



Electricity Consumption. The share of electricity consumption by sector in Thailand was similar to that in the past. In 2014, the total consumption of the country increased by 2.6%, compared with that in the previous year, reaching the amount of 168,620 GWh, due to a recovery of national economic growth. The economic sector accounting for the highest share of national electricity consumption was the industrial sector, holding a share of 44%; while the household, commercial and small general service sectors accounted for a share of 23%, 19% and 11% respectively.

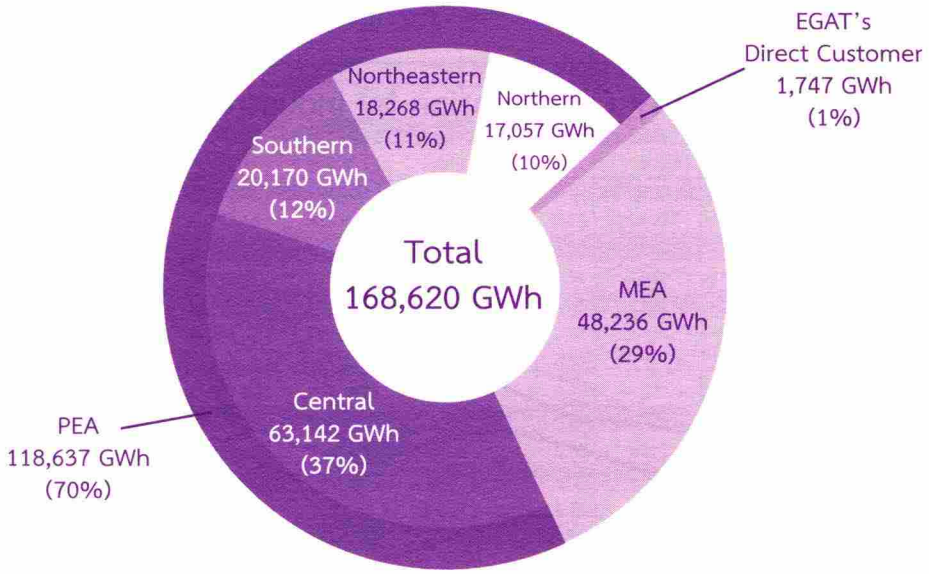
Electricity Consumption by Sector



Share of Electricity Consumption in 2014	
Other	1.5%
Free of Charge	1.5%
Agriculture Pumping	0.2%
Non-Profit	0.1%
Industrial	43.8%
Commercial	18.6%
Small General Service	11.2%
Residential	23.1%

In 2014, 70% of the electricity consumption in Thailand was in Provincial Electricity Authority (PEA) area, 29% was in Metropolitan Electricity Authority (MEA) area and 1% to be EGAT's direct customers. In additional, the share of electricity consumption in central region, southern region, northeastern region and northern region were 37%, 12%, 11% and 10% of national electricity consumption, respectively.

Electricity Consumption by Area in 2014



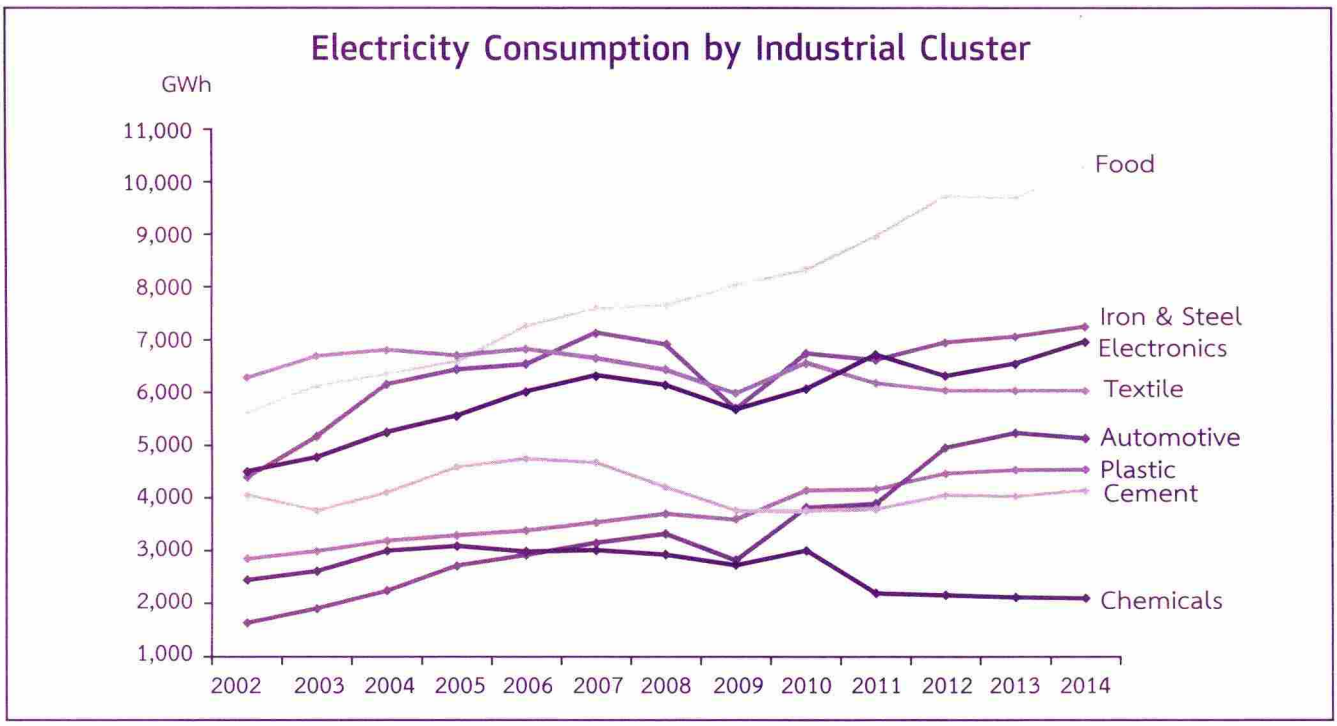
The number of electricity customers in Thailand has been on the rise trend. In 2014, there are 21.1 million customers (referred to number of watt-hour meters). The most of customer was in residential sector, holding a share of 89%, divided into the group of consumption not exceeding 150 kWh per month, 50%; and the consumption exceeding 150 kWh per month, 39%.

Number of Customers by Tariff

	Number of Customers					Share (%)				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Residential	16,618,752	17,111,294	17,666,752	18,223,755	18,768,368	89	89	89	89	89
< 150 kWh	10,066,810	10,254,466	10,400,534	10,420,158	10,453,606	54	54	53	51	50
> 150 kWh	6,551,942	6,856,828	7,266,218	7,803,597	8,314,762	35	36	37	38	39
Small General	1,579,006	1,604,854	1,784,592	1,843,594	1,905,679	8	8	9	9	9
Medium General	60,103	62,236	78,244	83,737	87,274	0.32	0.33	0.40	0.41	0.41
Large General	5,820	6,587	7,245	7,664	8,003	0.03	0.03	0.04	0.04	0.04
Specific Business	10,154	10,831	11,916	12,744	13,587	0.05	0.06	0.06	0.06	0.06
Government & Non-profit	153,742	139,983	1,377	1,749	1,716	0.83	0.73	0.01	0.01	0.01
Agriculture Pumping	3,521	3,752	4,208	4,796	4,638	0.02	0.02	0.02	0.02	0.02
Temporary	164,768	198,040	240,567	273,992	286,046	0.89	1.03	1.22	1.34	1.36
Others*	81	78	76	87	94	0.0004	0.0004	0.0004	0.0004	0.0004
Total	**18,595,947**	**19,137,655**	**19,794,977**	**20,452,118**	**21,075,405**	**100**	**100**	**100**	**100**	**100**

* Stand by Rate, Interruptible Rate and EGAT's Direct Customer

- *Electricity Demand in Major Industrial Clusters.* During 2002-2007, electricity demand in most industrial clusters was continuously on the rise. However, during 2008-2009, the trend dropped off due to the global economic slowdown coupled with the domestic political instability. In 2010-2014, electricity demand in most industrial clusters rebound again, especially food industry.



- *Electricity Demand in Major Commercial Clusters.* Electricity demand in most commercial clusters continuously increased from 2002 to 2014. In 2014, the business & commerce that accounted for high electricity consumption were as follows: department stores, hotels, apartments & guest houses, retail trade and real estate services, respectively.

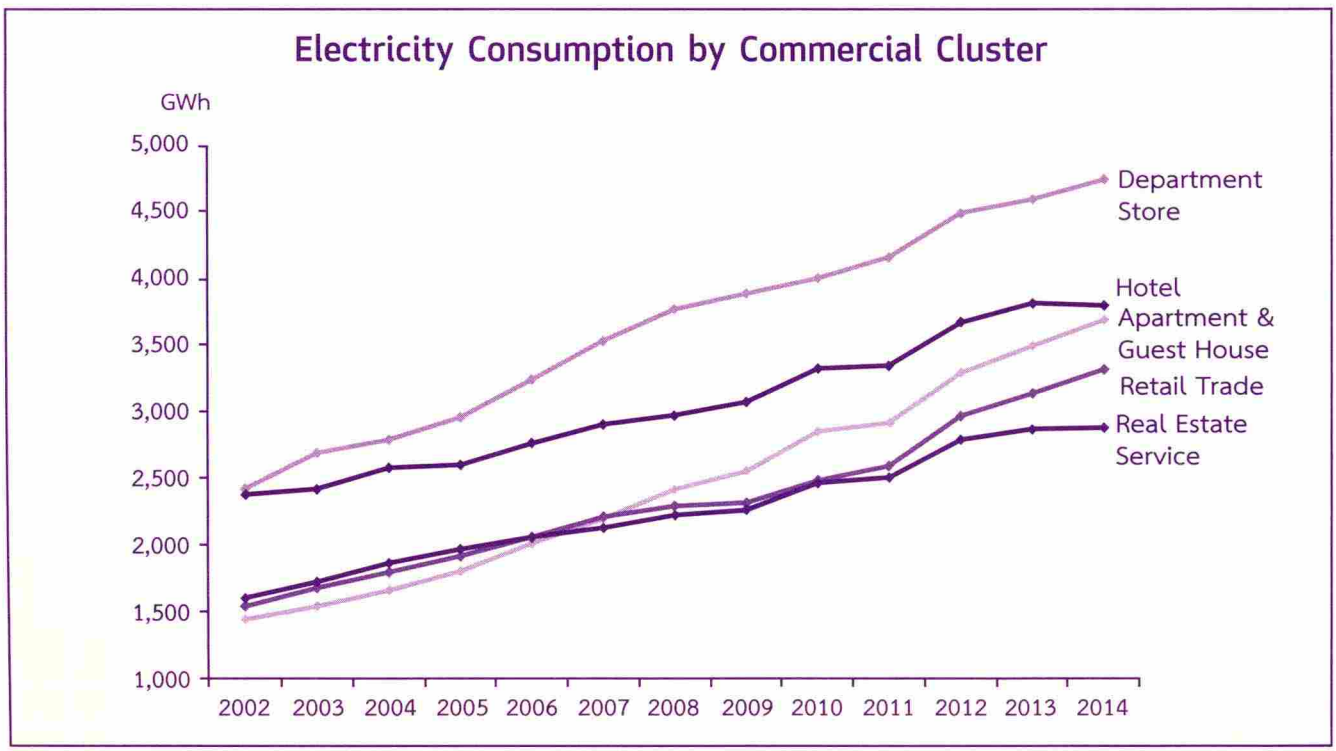


Table 5.1-1Y
Electricity Generation by Fuel Type

Unit : GWh

Year	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
1990	4,900.11	10,012.63	11,052.85	17,765.06	356.85	1.01	0.02	652.32	23.98	0.00	0.00	44,764.83
1991	4,505.35	12,636.39	13,785.22	19,051.19	112.57	1.00	0.02	593.11	28.65	0.00	0.00	50,713.50
1992	4,158.94	14,928.92	14,815.05	22,943.04	161.34	1.12	0.02	479.90	19.71	0.00	0.00	57,508.05
1993	3,612.50	17,494.52	13,503.75	27,953.16	743.97	1.14	0.03	644.52	28.26	0.00	0.00	63,981.85
1994	4,403.60	19,647.18	14,130.91	30,920.18	1,385.18	0.90	0.04	870.82	36.52	13.30	564.63	71,973.25
1995	6,593.01	21,711.89	15,152.25	25,377.38	2,261.18	1.05	0.04	699.12	26.00	261.65	8,352.74	80,436.33
1996	7,215.00	20,983.73	17,507.17	24,722.17	4,572.36	1.19	0.17	805.61	26.17	1,232.93	10,730.73	87,797.24
1997	7,082.00	19,266.11	18,924.58	28,613.71	2,440.68	1.28	0.22	745.63	27.19	2,150.90	14,154.62	93,406.91
1998	5,088.82	17,534.10	16,475.24	32,702.16	988.97	1.30	0.24	1,622.71	14.61	3,191.85	13,535.73	91,155.72
1999	3,409.67	15,429.25	15,418.91	32,851.18	457.33	1.49	0.24	2,255.66	34.49	8,353.15	14,259.57	92,470.95
2000	5,891.44	9,611.42	15,852.17	35,642.22	107.95	1.65	0.33	2,966.25	25.64	10,175.54	18,212.92	98,487.52
2001	6,174.35	2,419.96	17,722.36	34,786.99	248.06	1.50	0.45	2,881.71	31.08	11,644.29	27,958.14	103,868.90
2002	7,366.94	1,969.39	16,651.86	35,251.60	150.98	1.44	0.31	2,812.18	31.71	12,548.25	34,469.23	111,253.87
2003	7,207.76	2,434.28	16,856.16	31,694.40	75.30	1.61	0.24	2,473.41	32.29	13,303.23	44,332.77	118,411.44
2004	5,896.29	5,467.67	17,993.55	30,901.10	232.95	1.26	0.87	3,377.85	25.50	13,440.60	50,172.86	127,510.51
2005	5,671.18	7,640.00	18,334.50	33,064.85	176.85	1.45	0.81	4,371.89	17.40	13,546.61	51,972.65	134,798.20
2006	7,950.05	7,808.44	18,027.68	33,962.67	76.92	1.72	0.85	5,151.85	44.79	13,530.95	55,362.65	141,918.57
2007	7,961.36	2,966.57	18,497.68	36,501.69	28.24	1.84	0.80	4,488.36	21.70	14,439.45	62,118.21	147,025.89
2008	6,950.69	990.08	18,679.30	37,260.98	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93
2009	6,965.74	448.23	17,922.09	41,761.02	45.07	1.41	1.86	2,451.41	24.04	13,896.54	64,840.71	148,358.11
2010	5,346.75	558.31	17,987.63	50,802.50	41.59	1.64	5.65	7,253.78	23.64	13,870.81	67,775.99	163,668.30
2011	7,934.92	1,294.89	18,835.63	45,863.42	35.98	1.82	6.22	10,774.41	33.69	14,936.20	62,625.97	162,343.14
2012	8,431.22	1,299.96	18,802.01	52,568.77	62.76	0.87	2.87	10,527.43	0.00	15,134.22	70,143.04	176,973.14
2013	5,412.08	1,238.45	19,097.98	50,202.11	179.14	1.25	4.37	12,571.79	0.00	22,602.71	66,088.61	177,398.48
2014	5,163.57	1,574.15	19,370.82	50,825.92	68.97	1.43	4.84	12,259.71	0.00	25,957.59	65,718.06	180,945.06

Source : EGAT
Remark : Power Generation from NG and Diesel Oil not Including REGCO's generation since Dec. 1994

Table 5.1-2Y
Power Generation Classified by Fuel Type

Unit : GWh

Year	Natural Gas	Coal & Lignite			Oil			Hydro Electricity	Imported	Others	Total
		Lignite	Coal	Total	Fuel Oil	Diesel	Total				
1990	17,765.06	11,052.85	0.00	11,052.85	10,012.63	356.85	10,369.48	4,900.11	652.32	25.00	44,764.83
1991	19,051.19	13,785.22	0.00	13,785.22	12,636.39	112.57	12,748.96	4,505.35	593.11	29.66	50,713.50
1992	22,943.04	14,815.05	0.00	14,815.05	14,928.92	161.34	15,090.26	4,158.94	479.90	20.86	57,508.05
1993	27,953.16	13,503.75	0.00	13,503.75	17,494.52	743.97	18,238.49	3,612.50	644.52	29.42	63,981.85
1994	31,484.80	14,130.91	0.00	14,130.91	19,647.18	1,385.18	21,032.36	4,403.60	870.82	50.77	71,973.25
1995	33,863.29	15,152.25	12.86	15,165.11	21,711.89	2,261.18	23,973.07	6,593.01	699.12	142.77	80,436.33
1996	36,433.34	17,507.17	72.87	17,580.04	20,983.73	4,572.36	25,556.09	7,215.00	805.61	207.10	87,797.24
1997	44,573.66	18,924.58	101.21	19,025.79	19,266.11	2,440.68	21,706.79	7,082.00	745.63	273.46	93,406.91
1998	49,021.15	16,475.24	115.23	16,590.47	17,534.10	988.97	18,523.07	5,088.82	1,622.71	309.54	91,155.72
1999	53,839.40	15,418.91	1,214.28	16,633.19	15,429.25	457.33	15,886.58	3,409.67	2,255.66	447.43	92,470.95
2000	61,186.22	15,852.17	2,345.20	18,197.37	9,611.42	107.95	9,719.37	5,891.44	2,966.25	526.87	98,487.52
2001	71,228.81	17,722.36	2,573.70	20,296.06	2,419.96	248.06	2,668.02	6,174.35	2,881.71	621.07	103,868.90
2002	78,910.24	16,651.86	2,639.66	19,291.52	1,969.39	150.98	2,120.37	7,366.94	2,812.18	752.40	111,253.87
2003	85,687.77	16,856.16	2,445.18	19,301.34	2,434.28	75.30	2,509.58	7,207.76	2,473.41	1,231.43	118,411.44
2004	90,289.10	17,993.55	2,410.86	20,404.41	5,467.67	232.95	5,700.62	5,896.29	3,377.85	1,841.84	127,510.51
2005	94,467.70	18,334.50	2,279.83	20,614.33	7,640.00	176.85	7,816.85	5,671.18	4,371.89	1,856.19	134,798.20
2006	94,438.58	18,027.68	6,440.74	24,468.42	7,808.44	76.92	7,885.36	7,950.05	5,151.85	2,024.52	141,918.57
2007	98,243.53	18,497.68	12,383.40	30,881.08	2,966.57	28.24	2,994.81	7,961.36	4,488.36	2,456.79	147,025.89
2008	104,458.01	18,679.30	12,158.35	30,837.65	990.08	23.28	1,013.37	6,950.69	2,783.57	2,177.66	148,220.93
2009	106,343.39	17,922.09	11,885.98	29,808.07	448.23	45.07	493.30	6,965.74	2,451.41	2,296.31	148,358.11
2010	118,438.21	17,987.63	11,776.42	29,764.05	558.31	41.59	599.90	5,346.75	7,253.78	2,265.76	163,668.30
2011	108,261.39	18,835.63	12,876.11	31,711.74	1,294.89	35.98	1,330.87	7,934.92	10,774.41	2,329.81	162,343.14
2012	119,368.49	18,802.01	15,780.61	34,582.62	1,299.96	62.76	1,362.72	8,431.22	10,527.43	2,700.74	176,973.14
2013	119,217.89	19,097.98	16,254.26	35,352.24	1,238.45	179.14	1,417.58	5,412.08	12,571.79	3,426.96	177,398.48
2014	120,314.17	19,370.82	18,201.08	37,571.90	1,574.15	68.97	1,643.12	5,163.57	12,259.71	3,992.57	180,945.06

Source : EGAT

Table 5.1-3Y
Peak Generation Requirement, Energy Generation Requirement and Load Factor

Year	Peak Generation Requirement (MW)	Energy Generation Requirement (GWh)	Load Factor (%)
1990	7,221	44,765	70.8
1991	8,045	50,713	72.0
1992	8,904	57,509	73.5
1993	9,839	63,982	74.2
1994	11,064	71,973	74.3
1995	12,268	80,436	74.8
1996	13,311	87,797	75.1
1997	14,506	93,407	73.5
1998	14,180	91,156	73.4
1999	13,712	91,414	76.1
2000	14,918	98,487	75.2
2001	16,126	103,856	73.5
2002	16,681	111,256	76.1
2003	18,121	117,290	73.9
2004	19,326	121,534	71.6
2005	20,538	134,798	74.9
2006	21,064	141,919	76.9
2007	22,586	147,026	74.3
2008	22,568	148,264	74.8
2009	22,045	145,253	75.2
2010	24,010	160,113	76.1
2011	23,900	158,870	75.9
2012	26,121	173,205	75.5
2013	26,598	173,535	74.5
2014	26,942	177,453	75.2

Source : EGAT
Remarks : Gross Peak and Gross Energy Generation Requirement on EGAT System from 1990-2008
Net Peak and Net Energy Generation Requirement on EGAT System from 2009-2014

Table 5.1-4Y
EGAT Purchased from SPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
1994	0.00	0.00	0.00	13.30	13.30
1995	133.14	12.86	0.00	115.65	261.65
1996	980.44	72.90	0.00	179.59	1,232.93
1997	1,805.35	101.22	14.82	230.00	2,151.38
1998	2,783.25	115.24	38.42	254.95	3,191.85
1999	6,728.62	1,214.29	43.29	367.92	8,354.11
2000	7,331.08	2,345.17	32.13	467.17	10,175.54
2001	8,483.65	2,573.67	36.55	551.50	11,645.37
2002	9,189.42	2,639.65	37.36	681.59	12,548.01
2003	9,660.66	2,445.22	37.25	1,160.10	13,303.23
2004	9,215.09	2,410.93	162.18	1,652.11	13,440.30
2005	9,430.12	2,279.80	91.04	1,745.56	13,546.53
2006	9,168.70	2,385.14	28.35	1,948.76	13,530.95
2007	9,779.30	2,227.71	22.08	2,410.37	14,439.45
2008	9,873.57	2,015.89	26.72	2,120.25	14,036.43
2009	9,759.71	1,867.85	30.58	2,238.41	13,896.54
2010	9,895.45	1,740.59	19.06	2,215.71	13,870.81
2011	10,576.45	2,071.59	20.69	2,267.47	14,936.20
2012	10,362.38	2,074.86	29.97	2,667.02	15,134.22
2013	17,236.67	1,944.71	28.08	3,393.25	22,602.71
2014	20,039.79	1,931.49	25.91	3,960.40	25,957.59

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5Y
EGAT Purchased from IPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Total
1994	564.62	0.00	564.62
1995	8,352.74	0.00	8,352.74
1996	10,730.73	0.00	10,730.73
1997	14,154.62	0.00	14,154.62
1998	13,535.73	0.00	13,535.73
1999	14,259.57	0.00	14,259.57
2000	18,212.92	0.00	18,212.92
2001	27,958.14	0.00	27,958.14
2002	34,469.23	0.00	34,469.23
2003	44,332.77	0.00	44,332.77
2004	50,172.86	0.00	50,172.86
2005	51,972.65	0.00	51,972.65
2006	51,307.09	4,055.57	55,362.65
2007	51,962.48	10,155.73	62,118.21
2008	57,323.37	10,142.45	67,465.82
2009	54,822.58	10,018.13	64,840.71
2010	57,740.20	10,035.79	67,775.99
2011	51,821.45	10,804.51	62,625.97
2012	56,437.30	13,705.74	70,143.04
2013	51,779.12	14,309.51	66,088.62
2014	49,448.45	16,269.61	65,718.06

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1Y
EGAT Fuel Consumption in Power Generation

Year	Fuel Oil (M.Litres)	Diesel Oil (M.Litres)	Natural Gas (MMscfd)	Lignite (Tons)
1990	2,532	163	473	9,875,324
1991	3,164	62	606	11,724,691
1992	3,719	71	640	12,370,539
1993	4,322	288	725	11,490,328
1994	4,789	474	820	12,155,884
1995	5,258	756	838	13,567,494
1996	5,068	1,320	929	16,405,340
1997	4,665	729	1,170	18,010,806
1998	4,253	306	1,205	15,388,095
1999	3,762	135	1,206	13,893,584
2000	2,364	29	1,301	14,120,569
2001	647	75	1,504	15,744,116
2002	499	41	1,632	15,035,329
2003	605	23	1,624	15,406,532
2004	1,296	55	1,671	16,536,694
2005	1,851	49	1,740	16,571,091
2006	1,895	21	1,766	15,815,374
2007	780	8	1,715	15,811,050
2008	249	8	1,558	16,407,465
2009	111	13	1,541	15,818,265
2010	140	12	1,879	16,004,196
2011	314	11	1,591	17,161,168
2012	319	19	1,789	16,754,281
2013	317	60	1,692	16,884,947
2014	379	21	1,657	17,020,425

Source : EGAT
Remarks : From Dec 1994 onwards, Diesel Oil does not include REGCO use

Table 5.3-1Y
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2002	431	7,196	7,627	5,023	8,026	12,114	1,596	1,214	0	0	0	0	181	**35,781**
2003	405	7,594	7,999	5,282	7,820	13,363	1,608	1,177	0	0	0	0	182	**37,431**
2004	413	7,922	8,335	5,566	8,051	14,121	1,659	1,200	0	0	0	0	188	**39,119**
2005	407	8,230	8,637	5,772	8,045	14,606	1,694	1,152	0	0	0	0	194	**40,100**
2006	411	8,668	9,079	6,039	8,061	15,190	1,730	1,175	0	0	0	0	208	**41,482**
2007	396	8,834	9,230	6,150	7,959	15,484	1,774	1,215	0	0	0	0	223	**42,035**
2008	400	8,982	9,381	6,253	7,913	15,394	1,809	1,251	0	0	0	0	234	**42,236**
2009	426	9,353	9,779	6,380	7,619	14,605	1,790	1,288	0	0	0	0	272	**41,733**
2010	416	10,300	10,716	6,859	7,686	16,326	1,803	1,358	0	0	0	0	313	**45,060**
2011	422	9,702	10,125	6,644	7,495	16,469	1,780	1,293	0	42	0	0	347	**44,195**
2012	434	10,965	11,399	7,210	8,133	17,808	1,984	1,049	0	302	0	0	359	**48,244**
2013	390	11,031	11,420	7,387	8,639	17,680	2,002	95	0	396	0	0	366	**47,984**
2014	414	11,280	11,695	7,429	8,669	17,539	2,015	96	0	414	0	0	380	**48,236**

Source : MEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-2Y
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2002	6,430	7,907	14,336	4,728	11,046	25,840	1,575	2,421	192	397	10	1,159	778	**62,482**
2003	6,634	8,697	15,331	5,061	12,187	27,778	1,620	2,524	228	433	22	1,679	902	**67,765**
2004	6,898	9,306	16,204	5,467	12,056	32,376	1,801	2,614	251	495	42	1,818	996	**74,120**
2005	7,095	9,750	16,845	6,122	12,816	34,826	1,848	2,697	249	553	65	2,094	1,070	**79,184**
2006	7,285	10,483	17,768	6,519	14,146	36,629	2,076	2,804	240	610	153	2,111	1,328	**84,383**
2007	7,348	11,360	18,708	7,057	14,667	38,834	2,255	3,015	268	649	38	2,068	1,400	**88,957**
2008	7,405	11,905	19,310	7,477	14,793	39,604	2,425	3,141	281	689	93	1,789	1,544	**91,146**
2009	7,917	12,561	20,477	7,963	14,665	38,359	2,589	3,388	318	671	93	1,626	1,571	**91,720**
2010	8,120	14,381	22,501	8,727	16,061	44,000	2,947	3,691	335	762	82	1,642	1,721	**102,470**
2011	8,179	14,496	22,675	8,802	15,622	44,631	3,020	3,595	297	799	69	1,618	1,821	**102,947**
2012	8,339	16,710	25,048	9,803	16,757	48,595	3,420	2,750	377	870	586	1,679	1,833	**111,718**
2013	8,159	18,078	26,237	10,988	18,580	50,166	3,585	54	354	951	52	1,641	2,013	**114,619**
2014	8,289	19,010	27,298	11,378	19,214	51,618	3,636	56	414	982	141	1,761	2,137	**118,637**

Source : PEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-3Y
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Year	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total MEA+PEA	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh	Total													
2002	6,861	15,102	21,963	9,751	19,072	37,954	3,171	3,635	192	397	10	1,159	959	98,263	1,828	100,091
2003	7,039	16,291	23,330	10,343	20,007	41,141	3,228	3,701	228	433	22	1,679	1,084	105,196	1,792	106,987
2004	7,311	17,227	24,538	11,033	20,107	46,497	3,459	3,814	251	495	42	1,818	1,184	113,240	1,862	115,101
2005	7,502	17,980	25,482	11,894	20,861	49,431	3,542	3,848	249	553	65	2,094	1,264	119,284	1,957	121,240
2006	7,696	19,151	26,847	12,558	22,207	51,818	3,805	3,979	240	610	153	2,111	1,536	125,865	2,014	127,879
2007	7,744	20,194	27,938	13,207	22,626	54,318	4,028	4,230	268	649	38	2,068	1,623	130,993	2,120	133,113
2008	7,804	20,887	28,691	13,730	22,707	54,998	4,234	4,392	281	689	93	1,789	1,777	133,382	2,139	135,520
2009	8,343	21,913	30,257	14,342	22,285	52,964	4,379	4,677	318	671	93	1,626	1,843	133,454	1,727	135,181
2010	8,536	24,680	33,216	15,586	23,747	60,326	4,750	5,049	335	762	82	1,642	2,034	147,530	1,771	149,301
2011	8,601	24,198	32,799	15,446	23,116	61,100	4,799	4,888	297	841	69	1,618	2,168	147,142	1,713	148,855
2012	8,773	27,674	36,447	17,013	24,890	66,403	5,404	3,799	377	1,172	586	1,679	2,191	159,962	1,817	161,779
2013	8,549	29,108	37,657	18,374	27,219	67,846	5,587	149	354	1,346	52	1,641	2,379	162,604	1,738	164,341
2014	8,703	30,290	38,993	18,807	27,883	69,157	5,650	152	414	1,396	141	1,761	2,517	166,873	1,747	168,620

Source : MEA, PEA and EGAT

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-4Y
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	7,627	5,023	8,745	12,762	1,214	0	230	35,600	181	35,781
2003	7,999	5,282	9,259	13,299	1,177	0	234	37,249	182	37,431
2004	8,335	5,566	9,804	13,791	1,200	0	235	38,931	188	39,119
2005	8,637	5,772	10,171	13,915	1,152	0	258	39,906	194	40,100
2006	9,079	6,039	10,584	13,969	1,175	0	427	41,274	208	41,482
2007	9,230	6,150	10,767	13,863	1,215	0	586	41,813	223	42,035
2008	9,381	6,253	11,020	13,546	1,251	0	550	42,002	234	42,236
2009	9,779	6,380	10,951	12,369	1,288	0	694	41,461	272	41,733
2010	10,716	6,859	11,489	13,779	1,358	0	547	44,747	313	45,060
2011	10,125	6,644	11,684	13,575	1,293	0	527	43,848	347	44,195
2012	11,399	7,210	12,910	14,309	1,049	0	1,007	47,885	359	48,244
2013	11,420	7,387	13,762	13,843	95	0	1,111	47,618	366	47,984
2014	11,695	7,429	13,806	13,588	96	0	1,242	47,856	380	48,236

Source : MEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-5Y
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	14,336	4,728	5,487	34,137	2,421	192	402	61,704	778	62,482
2003	15,331	5,061	5,933	37,330	2,524	228	457	66,863	902	67,765
2004	16,204	5,467	6,588	41,374	2,614	251	626	73,124	996	74,120
2005	16,845	6,122	7,032	44,376	2,697	249	793	78,114	1,070	79,184
2006	17,768	6,519	7,911	47,051	2,804	240	761	83,055	1,328	84,383
2007	18,708	7,057	8,620	49,172	3,015	268	717	87,557	1,400	88,957
2008	19,310	7,477	9,434	49,060	3,141	281	899	89,602	1,544	91,146
2009	20,477	7,963	9,979	47,201	3,388	318	823	90,149	1,571	91,720
2010	22,501	8,727	11,148	52,848	3,691	335	1,500	100,749	1,721	102,470
2011	22,675	8,802	11,615	53,015	3,595	297	1,128	101,126	1,821	102,947
2012	25,048	9,803	13,781	56,607	2,750	377	1,520	109,885	1,833	111,718
2013	26,237	10,988	16,254	57,352	54	354	1,368	112,607	2,013	114,619
2014	27,298	11,378	17,137	58,865	56	414	1,350	116,500	2,137	118,637

Source : PEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-6Y
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	21,963	9,751	14,702	48,256	3,635	192	632	99,132	959	100,091
2003	23,330	10,343	15,767	51,845	3,701	228	690	105,903	1,084	106,987
2004	24,538	11,033	16,976	56,443	3,814	251	862	113,917	1,184	115,101
2005	25,482	11,894	17,781	59,669	3,848	249	1,052	119,976	1,264	121,240
2006	26,847	12,558	19,097	62,432	3,979	240	1,189	126,343	1,536	127,879
2007	27,938	13,207	19,991	64,553	4,230	268	1,304	131,490	1,623	133,113
2008	28,691	13,730	21,052	64,148	4,392	281	1,449	133,743	1,777	135,520
2009	30,257	14,342	21,347	60,880	4,677	318	1,517	133,338	1,843	135,181
2010	33,216	15,586	22,996	68,039	5,049	335	2,046	147,267	2,034	149,301
2011	32,799	15,446	23,660	67,942	4,888	297	1,655	146,687	2,168	148,855
2012	36,447	17,013	27,088	72,336	3,799	377	2,527	159,588	2,191	161,779
2013	37,657	18,374	30,413	72,536	149	354	2,479	161,962	2,379	164,341
2014	38,993	18,807	31,362	73,782	152	414	2,592	166,103	2,517	168,620

Source : MEA, PEA and EGAT

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.1-1M
Electricity Generation by Fuel Type

Unit : GWh

Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
2010												
Jan	618.82	15.71	1,516.20	3,426.01	2.71	0.15	0.36	164.14	1.52	1,263.47	5,554.42	12,563.56
Feb	638.58	3.70	1,326.95	3,680.29	4.43	0.10	0.33	143.12	1.72	1,095.52	5,702.45	12,597.24
Mar	769.18	155.17	1,562.91	4,697.21	5.05	0.13	0.45	568.33	3.83	1,267.29	5,466.86	14,496.44
Apr	512.75	16.63	1,585.88	3,996.71	3.16	0.09	0.48	741.42	3.70	1,170.34	5,876.20	13,907.42
May	520.91	51.70	1,658.24	4,330.16	2.78	0.09	0.45	791.99	1.53	1,153.95	6,360.42	14,872.26
Jun	415.50	23.04	1,434.94	4,201.51	2.56	0.14	0.40	789.05	1.48	1,090.41	6,275.37	14,234.45
Jul	334.90	168.90	1,436.77	4,039.46	7.68	0.12	0.50	801.08	2.30	1,050.59	6,372.14	14,214.47
Aug	340.78	53.78	1,525.45	4,345.63	1.78	0.13	0.55	768.50	3.03	1,152.60	5,549.60	13,741.87
Sep	245.45	39.39	1,363.66	4,424.80	2.73	0.13	0.34	780.24	2.15	1,092.89	5,691.64	13,643.46
Oct	170.85	7.28	1,508.24	4,665.88	2.39	0.17	0.51	795.42	1.10	1,139.27	5,350.08	13,641.23
Nov	328.70	0.00	1,525.55	4,539.11	2.86	0.17	0.67	486.98	0.47	1,165.96	4,866.90	12,917.42
Dec	450.27	22.98	1,542.78	4,455.67	3.41	0.18	0.56	423.47	0.75	1,228.46	4,709.84	12,838.42
YTD	5,346.75	558.31	17,987.62	50,802.50	41.58	1.64	5.65	7,253.78	23.63	13,870.80	67,775.98	163,668.29
2011												
Jan	576.86	28.65	1,692.66	3,986.62	1.69	0.17	0.60	412.36	1.38	1,312.23	4,590.69	12,603.96
Feb	651.58	31.05	1,493.69	4,219.53	1.53	0.07	0.28	638.01	1.73	1,104.25	4,416.78	12,558.54
Mar	583.67	0.00	1,579.02	4,176.08	1.73	0.18	0.56	789.54	3.45	1,333.72	5,391.25	13,859.23
Apr	470.47	106.12	1,623.15	3,543.82	2.05	0.14	0.29	1,019.11	3.35	1,258.04	5,317.57	13,344.14
May	374.06	100.82	1,710.82	4,226.58	1.00	0.14	0.31	1,075.41	1.15	1,291.47	5,838.57	14,620.37
Jun	394.08	229.14	1,616.95	3,793.61	6.52	0.74	0.11	1,072.21	1.07	1,212.03	5,914.47	14,240.98
Jul	392.17	282.16	1,703.10	3,628.22	5.90	0.10	0.80	1,315.34	1.15	1,311.07	5,788.59	14,428.63
Aug	901.68	127.71	1,550.25	3,874.16	3.16	0.15	0.73	792.65	3.25	1,257.46	5,963.61	14,474.84
Sep	999.19	268.72	1,505.42	3,722.90	1.95	0.10	0.58	1,120.57	8.56	1,193.47	5,287.86	14,109.36
Oct	1,137.35	63.91	1,532.09	3,407.48	3.10	0.00	0.51	1,164.63	8.56	1,212.44	4,877.19	13,407.29
Nov	631.55	38.41	1,346.62	3,695.20	1.26	0.00	0.54	909.58	0.00	1,227.58	4,600.85	12,451.62
Dec	822.20	18.17	1,481.80	3,589.17	6.04	0.00	0.86	464.95	0.00	1,222.39	4,638.50	12,244.12
YTD	7,934.92	1,294.89	18,835.62	45,863.41	35.97	1.82	6.21	10,774.40	33.68	14,936.19	62,625.96	162,343.13
2012												
Jan	1,138.30	15.95	1,599.58	3,764.88	1.37	0.00	0.40	484.49	0.00	1,227.94	5,083.86	13,316.80
Feb	1,252.15	64.53	1,473.98	3,885.41	2.89	0.03	0.23	799.21	0.00	1,098.63	5,301.26	13,878.37
Mar	1,073.26	11.40	1,608.57	4,556.92	6.89	0.14	0.27	1,163.70	0.00	1,274.38	5,875.32	15,570.89
Apr	849.04	387.23	1,665.71	3,996.35	2.85	0.10	0.30	1,135.50	0.00	1,221.19	5,457.06	14,715.37
May	745.83	389.27	1,693.85	4,392.06	5.75	0.10	0.24	1,076.04	0.00	1,257.95	6,191.66	15,752.78
Jun	481.09	115.72	1,608.60	4,565.55	2.90	0.10	0.16	937.37	0.00	1,172.13	6,006.80	14,890.47
Jul	440.31	58.35	1,495.18	4,716.60	8.10	0.11	0.16	946.70	0.00	1,193.24	6,279.11	15,137.89
Aug	448.99	110.65	1,701.82	4,216.05	4.49	0.08	0.14	1,114.62	0.00	1,288.72	6,110.54	14,996.14
Sep	401.05	36.08	1,445.58	4,428.89	14.16	0.02	0.17	1,140.61	0.00	1,275.84	5,766.56	14,509.00
Oct	410.56	82.62	1,457.30	4,578.32	4.11	0.11	0.21	797.10	0.00	1,339.17	6,465.89	15,135.43
Nov	597.35	28.13	1,560.39	4,800.22	5.13	0.01	0.24	519.15	0.00	1,313.71	5,998.70	14,823.06
Dec	593.23	0.00	1,491.41	4,667.48	4.07	0.02	0.30	412.88	0.00	1,471.25	5,606.22	14,246.90
YTD	8,431.21	1,299.95	18,802.01	52,568.77	62.76	0.86	2.87	10,527.42	0.00	15,134.22	70,143.03	176,973.14

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
2013												
Jan	597.77	128.45	1,708.80	4,309.01	4.15	0.12	0.30	362.23	0.00	1,518.22	5,338.99	13,968.07
Feb	594.82	101.96	1,529.00	4,811.85	2.77	0.09	0.27	555.79	0.00	1,359.95	5,251.26	14,207.81
Mar	549.10	62.71	1,506.01	4,956.10	7.38	0.09	0.30	818.23	0.00	1,805.79	6,348.51	16,054.26
Apr	543.04	227.45	1,662.79	4,022.07	40.43	0.00	0.29	1,140.09	0.00	1,808.83	5,549.36	14,994.40
May	573.96	21.82	1,754.14	4,694.95	61.73	0.06	0.37	1,310.00	0.00	1,921.75	6,064.33	16,403.16
Jun	431.89	127.49	1,673.95	4,601.28	16.24	0.11	0.47	1,268.21	0.00	1,855.10	5,100.91	15,075.69
Jul	322.84	136.06	1,564.10	4,337.16	8.67	0.13	0.53	1,297.32	0.00	2,011.00	5,378.11	15,055.97
Aug	355.45	132.23	1,649.18	3,726.84	8.52	0.08	0.36	1,515.47	0.00	2,079.81	5,692.56	15,160.57
Sep	360.40	86.69	1,447.16	3,663.99	9.85	0.09	0.27	1,596.69	0.00	1,974.41	5,520.96	14,660.56
Oct	367.39	108.68	1,595.54	3,568.09	7.32	0.12	0.30	1,341.59	0.00	1,987.10	5,790.11	14,766.29
Nov	295.64	12.03	1,432.64	3,851.22	5.11	0.14	0.46	1,044.40	0.00	2,097.52	5,585.94	14,325.14
Dec	419.73	92.83	1,574.59	3,659.49	6.91	0.18	0.38	321.70	0.00	2,183.17	4,467.51	12,726.53
YTD	5,412.08	1,238.44	19,097.97	50,202.11	179.13	1.25	4.36	12,571.79	0.00	22,602.70	66,088.61	177,398.48
2014												
Jan	574.50	136.25	1,693.68	3,852.06	6.28	0.17	0.43	591.19	0.00	2,249.51	3,891.95	12,996.06
Feb	583.20	131.50	1,394.78	3,950.10	8.15	0.09	0.22	845.46	0.00	2,011.76	4,309.77	13,235.08
Mar	584.37	171.21	1,645.18	4,914.60	2.47	0.11	0.23	1,302.47	0.00	2,230.81	5,227.63	16,079.13
Apr	544.17	227.69	1,664.21	4,329.71	1.06	0.09	0.25	1,222.55	0.00	2,203.26	5,224.21	15,417.24
May	501.29	111.70	1,731.50	5,060.42	3.52	0.03	0.33	1,203.93	0.00	2,316.77	5,825.42	16,754.97
Jun	565.13	153.43	1,682.83	4,387.26	21.88	0.13	0.34	1,085.91	0.00	2,212.35	5,675.65	15,784.95
Jul	488.93	217.30	1,617.50	4,539.03	8.52	0.14	0.54	1,177.90	0.00	2,183.27	5,512.88	15,746.04
Aug	300.68	84.56	1,569.63	4,102.54	4.85	0.13	0.53	1,270.62	0.00	2,063.04	6,079.48	15,476.11
Sep	220.84	79.24	1,512.06	3,977.83	2.51	0.11	0.40	1,331.87	0.00	2,030.06	6,134.74	15,289.71
Oct	252.73	100.28	1,620.35	4,145.90	3.26	0.12	0.43	1,017.36	0.00	2,153.37	6,061.19	15,355.03
Nov	281.81	80.08	1,546.18	4,036.88	3.92	0.11	0.38	717.10	0.00	2,143.57	6,097.53	14,907.60
Dec	265.87	80.85	1,692.85	3,529.55	2.50	0.14	0.70	493.27	0.00	2,159.75	5,677.56	13,903.08
YTD	5,163.57	1,574.14	19,370.81	50,825.91	68.97	1.43	4.84	12,259.71	0.00	25,957.58	65,718.05	180,945.05

Source : EGAT

Table 5.1-2M

Power Generation Classified by Fuel Type

Unit : GWh

Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
2010								
Jan	618.82	15.71	2,648.72	8,883.91	2.71	164.14	229.56	12,563.56
Feb	638.59	3.71	2,335.24	9,265.16	4.43	143.13	207.04	12,597.25
Mar	769.18	155.18	2,724.34	10,044.72	5.05	568.33	229.64	14,496.45
Apr	512.76	16.63	2,671.77	9,750.91	3.17	741.43	210.78	13,907.42
May	520.92	51.71	2,731.55	10,583.45	2.79	791.99	189.85	14,872.27
Jun	415.51	23.04	2,490.85	10,327.33	2.56	789.05	186.11	14,234.45
Jul	334.90	168.90	2,488.47	10,238.29	7.69	801.08	175.20	14,214.47
Aug	340.79	53.78	2,647.27	9,761.26	1.78	768.50	168.51	13,741.88
Sep	245.46	39.39	2,408.76	10,006.30	2.73	780.25	160.59	13,643.47
Oct	170.85	7.28	2,353.65	10,142.03	2.39	795.42	169.62	13,641.23
Nov	328.71	0.00	2,256.93	9,694.45	2.87	486.99	147.48	12,917.43
Dec	450.28	22.98	2,006.50	9,740.43	3.42	423.47	191.36	12,838.43
Total	**5,346.75**	**558.31**	**29,764.05**	**118,438.21**	**41.59**	**7,253.78**	**2,265.77**	**163,668.30**
2011								
Jan	576.87	28.66	2,799.69	8,566.41	1.70	412.37	218.31	12,603.96
Feb	651.59	31.05	2,484.71	8,573.87	1.54	638.01	177.80	12,558.54
Mar	583.68	0.00	2,710.58	9,552.37	1.73	789.54	221.32	13,859.24
Apr	470.47	106.12	2,713.98	8,822.74	2.05	1,019.12	209.63	13,344.14
May	374.06	100.82	2,856.24	10,019.06	1.01	1,075.41	193.72	14,620.38
Jun	394.09	229.15	2,700.64	9,653.17	6.52	1,072.22	185.20	14,240.99
Jul	392.17	282.16	2,891.15	9,335.44	5.90	1,315.34	206.48	14,428.63
Aug	901.68	127.71	2,671.71	9,777.91	3.16	792.65	199.98	14,474.85
Sep	999.19	268.72	2,637.18	8,921.36	1.96	1,120.57	160.38	14,109.36
Oct	1,137.35	63.91	2,689.58	8,210.14	3.11	1,164.63	138.59	13,407.30
Nov	631.56	38.41	2,233.08	8,447.82	1.26	909.59	189.92	12,451.63
Dec	822.21	18.17	2,323.21	8,381.10	6.04	464.96	228.46	12,244.13
Total	**7,934.92**	**1,294.89**	**31,711.74**	**108,261.39**	**35.98**	**10,774.41**	**2,329.81**	**162,343.14**
2012								
Jan	1,138.31	15.95	2,864.72	8,580.04	1.37	484.49	231.90	13,316.80
Feb	1,252.16	64.54	2,576.73	8,976.24	2.90	799.21	206.60	13,878.38
Mar	1,073.26	11.40	2,942.00	10,132.79	6.89	1,163.71	240.86	15,570.89
Apr	849.05	387.23	3,150.96	8,968.92	2.86	1,135.51	220.86	14,715.38
May	745.83	389.27	3,039.91	10,252.72	5.75	1,076.04	243.25	15,752.78
Jun	481.10	115.72	2,827.82	10,331.09	2.91	937.38	194.46	14,890.47
Jul	440.31	58.35	2,733.74	10,724.13	8.11	946.70	226.59	15,137.90
Aug	449.00	110.66	3,011.77	10,077.24	4.49	1,114.62	228.40	14,996.14
Sep	401.05	36.09	2,964.79	9,734.93	14.17	1,140.62	217.33	14,509.00
Oct	410.57	82.62	3,034.94	10,582.48	4.12	797.11	223.66	15,135.44
Nov	597.36	28.13	2,753.39	10,723.22	5.13	519.16	196.64	14,823.06
Dec	593.23	0.00	2,681.86	10,284.69	4.07	412.89	270.17	14,246.90
Total	**8,431.22**	**1,299.96**	**34,582.62**	**119,368.49**	**62.76**	**10,527.43**	**2,700.75**	**176,973.14**

Table 5.1-2M (Cont.)
Power Generation Classified by Fuel Type

Unit : GWh

Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
2013								
Jan	597.78	128.45	3,239.64	9,339.44	4.16	362.23	296.36	13,968.08
Feb	594.83	101.97	2,854.89	9,825.96	2.77	555.80	271.59	14,207.82
Mar	549.10	62.71	3,075.10	11,240.82	7.38	818.24	300.94	16,054.26
Apr	543.05	227.46	3,174.74	9,571.37	40.44	1,140.10	297.24	14,994.40
May	573.96	21.82	3,191.25	10,942.81	61.74	1,310.01	301.58	16,403.16
Jun	431.90	127.49	2,696.42	10,263.78	16.24	1,268.21	271.66	15,075.69
Jul	322.85	136.07	3,020.87	9,983.53	8.68	1,297.32	286.67	15,055.98
Aug	355.46	132.24	3,071.26	9,781.46	8.53	1,515.48	296.16	15,160.57
Sep	360.41	86.69	2,936.53	9,467.41	9.85	1,596.69	202.98	14,660.56
Oct	367.39	108.68	2,767.67	9,893.85	7.32	1,341.60	279.80	14,766.29
Nov	295.64	12.03	2,640.17	10,065.86	5.12	1,044.41	261.93	14,325.15
Dec	419.73	92.84	2,683.71	8,841.62	6.91	321.70	360.03	12,726.53
Total	**5,412.08**	**1,238.45**	**35,352.24**	**119,217.89**	**179.14**	**12,571.79**	**3,426.97**	**177,398.48**
2014								
Jan	574.51	136.25	3,164.16	8,129.27	6.28	591.19	394.40	12,996.07
Feb	583.21	131.51	2,822.60	8,500.81	8.16	845.46	343.36	13,235.08
Mar	584.37	171.21	3,264.80	10,367.73	2.47	1,302.48	386.00	16,079.14
Apr	544.18	227.70	3,251.73	9,826.03	1.07	1,222.56	343.98	15,417.24
May	501.30	111.71	3,385.72	11,197.85	3.53	1,203.94	350.92	16,754.97
Jun	565.13	153.44	3,304.24	10,299.64	21.88	1,085.92	354.71	15,784.95
Jul	488.93	217.30	3,307.15	10,219.93	8.53	1,177.91	326.30	15,746.05
Aug	300.69	84.56	3,159.65	10,356.49	4.86	1,270.63	299.25	15,476.11
Sep	220.84	79.24	3,058.78	10,330.33	2.52	1,331.88	266.14	15,289.72
Oct	252.73	100.28	2,880.12	10,842.94	3.26	1,017.37	258.33	15,355.04
Nov	281.81	80.08	2,923.23	10,633.87	3.93	717.11	267.59	14,907.60
Dec	265.88	80.86	3,049.72	9,609.27	2.50	493.28	401.57	13,903.09
Total	**5,163.57**	**1,574.15**	**37,571.90**	**120,314.17**	**68.97**	**12,259.71**	**3,992.57**	**180,945.06**

Source : EGAT

Table 5.1-3M
Peak Generation Requirement, Energy Generation Requirement and Load Factor

Month	Net Peak Generation Requirement (MW)	Net Energy Generation Requirement (GWh)	Load Factor (%)
2010			
Jan	20,970	12,290	78.8
Feb	21,872	12,351	84.0
Mar	23,304	14,174	81.8
Apr	23,898	13,607	79.1
May	24,010	14,547	81.4
Jun	23,237	13,933	83.3
Jul	22,866	13,916	81.8
Aug	21,893	13,462	82.7
Sep	22,215	13,316	83.3
Oct	21,774	13,348	82.4
Nov	22,295	12,630	78.7
Dec	22,302	12,539	75.6
Total	**24,010**	**160,113**	**76.1**
2011			
Jan	21,288	12,310	77.7
Feb	22,207	12,287	82.3
Mar	23,156	13,576	78.8
Apr	23,322	13,061	77.8
May	23,900	14,319	80.5
Jun	23,029	13,937	84.1
Jul	23,351	14,111	81.2
Aug	23,443	14,169	81.2
Sep	22,809	13,814	84.1
Oct	22,062	13,125	80.0
Nov	20,955	12,189	80.8
Dec	21,105	11,974	76.3
Total	**23,900**	**158,870**	**75.9**
2012			
Jan	22,251	13,036	78.7
Feb	23,554	13,579	82.8
Mar	24,572	15,252	83.4
Apr	26,121	14,381	76.5
May	25,207	15,411	82.2
Jun	23,927	14,597	84.7
Jul	23,933	14,848	83.4
Aug	24,156	14,652	81.5
Sep	24,009	14,209	82.2
Oct	24,131	14,793	82.4
Nov	24,658	14,487	81.6
Dec	24,074	13,960	77.9
Total	**26,121**	**173,205**	**75.5**

Table 5.1-3M (Cont.)
Peak Generation Requirement, Energy Generation Requirement and Load Factor

Month	Net Peak Generation Requirement (MW)	Net Energy Generation Requirement (GWh)	Load Factor (%)
2013			
Jan	23,391	13,644	78.4
Feb	24,589	13,477	81.6
Mar	26,423	15,731	80.0
Apr	26,325	14,675	77.4
May	26,598	16,059	81.1
Jun	25,038	14,793	82.1
Jul	24,568	14,748	80.7
Aug	23,942	14,857	83.4
Sep	24,364	14,404	82.1
Oct	23,742	14,572	82.5
Nov	24,251	14,176	81.2
Dec	22,905	12,400	72.8
Total	**26,598**	**173,535**	**74.5**
2014			
Jan	22,557	12,685	75.6
Feb	23,659	12,962	81.5
Mar	26,106	15,754	81.1
Apr	26,942	15,100	77.8
May	26,473	16,415	83.3
Jun	26,253	15,461	81.8
Jul	25,017	15,428	82.9
Aug	24,624	15,180	82.9
Sep	24,785	15,004	84.1
Oct	24,181	15,045	83.6
Nov	24,962	14,626	81.4
Dec	24,493	13,793	75.7
Total	**26,942**	**177,453**	**75.2**

Source : EGAT

Remark : Peak and Energy Generation Requirement on EGAT System

Table 5.1-4M
EGAT Purchased from SPP

Unit : GWh

Month	Natural Gas (NG)	Coal	Oil	Renewable Energy	Total
2010					
Jan	864.73	171.26	2.60	224.90	1,263.48
Feb	752.60	138.07	1.79	203.07	1,095.52
Mar	857.66	184.42	0.01	225.21	1,267.29
Apr	809.44	154.44	2.38	204.09	1,170.35
May	811.28	154.89	1.84	185.95	1,153.96
Jun	783.22	123.10	0.18	183.93	1,090.42
Jul	782.20	96.13	1.12	171.14	1,050.59
Aug	830.06	157.76	2.28	162.50	1,152.60
Sep	825.01	109.92	0.20	157.78	1,092.89
Oct	843.80	127.64	2.47	165.36	1,139.27
Nov	847.78	172.02	1.93	144.24	1,165.97
Dec	887.67	150.96	2.28	187.56	1,228.46
YTD	**9,895.45**	**1,740.59**	**19.06**	**2,215.71**	**13,870.81**
2011					
Jan	904.13	191.94	1.02	215.15	1,312.23
Feb	816.10	112.42		175.74	1,104.25
Mar	947.54	169.04	0.43	216.71	1,333.72
Apr	875.16	177.02	1.31	204.54	1,258.04
May	913.14	186.23	0.86	191.25	1,291.48
Jun	901.12	127.64	2.54	180.74	1,212.04
Jul	912.00	194.66	2.57	201.86	1,311.08
Aug	898.30	163.33	2.57	193.27	1,257.46
Sep	874.20	168.15	2.39	148.73	1,193.47
Oct	881.45	201.47	2.42	127.10	1,212.45
Nov	821.13	217.07	2.56	186.83	1,227.59
Dec	832.20	162.62	2.02	225.56	1,222.39
YTD	**10,576.45**	**2,071.59**	**20.69**	**2,267.47**	**14,936.20**
2012					
Jan	822.90	173.56	1.60	229.89	1,227.95
Feb	789.79	102.51	2.73	203.61	1,098.64
Mar	850.43	183.53	2.92	237.51	1,274.39
Apr	784.60	216.16	2.30	218.13	1,221.19
May	801.09	213.94	2.87	240.05	1,257.95
Jun	825.66	152.27	2.19	192.01	1,172.14
Jul	846.98	119.95	2.57	223.74	1,193.25
Aug	875.61	184.93	2.35	225.83	1,288.73
Sep	880.55	178.15	1.90	215.24	1,275.85
Oct	914.05	201.83	2.60	220.71	1,339.18
Nov	963.69	153.65	2.90	193.48	1,313.72
Dec	1,007.04	194.38	3.04	266.80	1,471.26
YTD	**10,362.38**	**2,074.86**	**29.97**	**2,667.02**	**15,134.22**

Table 5.1-4M (Cont.)
EGAT Purchased from SPP

Unit : GWh

Month	Natural Gas (NG)	Coal	Oil	Renewable Energy	Total
2013					
Jan	1,047.02	175.27	3.02	292.92	1,518.23
Feb	981.51	107.21	2.73	268.49	1,359.95
Mar	1,324.02	181.24	2.82	297.71	1,805.80
Apr	1,334.90	176.96	2.93	294.05	1,808.83
May	1,430.00	190.62	2.96	298.18	1,921.75
Jun	1,400.88	183.16	2.82	268.25	1,855.11
Jul	1,544.70	180.29	2.61	283.40	2,011.00
Aug	1,595.49	188.61	2.97	292.75	2,079.82
Sep	1,595.90	175.91	2.71	199.90	1,974.42
Oct	1,624.99	82.74	1.52	277.86	1,987.11
Nov	1,690.04	146.19	0.99	260.31	2,097.53
Dec	1,667.22	156.51	0.00	359.44	2,183.18
YTD	17,236.67	1,944.71	28.08	3,393.25	22,602.71
2014					
Jan	1,693.79	161.94	0.61	393.17	2,249.51
Feb	1,559.94	108.78	2.58	340.47	2,011.77
Mar	1,687.00	158.16	2.70	382.96	2,230.82
Apr	1,688.27	171.34	2.91	340.75	2,203.27
May	1,776.98	189.22	3.01	347.56	2,316.78
Jun	1,676.18	181.96	2.91	351.30	2,212.35
Jul	1,669.89	187.78	2.76	322.84	2,183.27
Aug	1,626.98	137.47	0.71	297.89	2,063.05
Sep	1,634.56	129.90	2.83	262.79	2,030.07
Oct	1,740.32	155.28	1.44	256.33	2,153.38
Nov	1,702.98	173.52	1.91	265.17	2,143.58
Dec	1,582.91	176.14	1.55	399.16	2,159.76
YTD	20,039.79	1,931.49	25.91	3,960.40	25,957.59

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5M
EGAT Purchased from IPP

Unit : GWh

Month	Natural Gas (NG)	Coal	Total
2010			
Jan	4,593.17	961.25	5,554.42
Feb	4,832.24	870.22	5,702.46
Mar	4,489.85	977.01	5,466.86
Apr	4,944.75	931.45	5,876.21
May	5,442.01	918.41	6,360.43
Jun	5,342.58	932.80	6,275.38
Jul	5,416.59	955.56	6,372.14
Aug	4,585.56	964.04	5,549.61
Sep	4,756.48	935.16	5,691.64
Oct	4,632.33	717.76	5,350.09
Nov	4,307.55	559.35	4,866.91
Dec	4,397.09	312.76	4,709.85
YTD	**57,740.20**	**10,035.79**	**67,775.99**
2011			
Jan	3,675.62	915.08	4,590.69
Feb	3,538.19	878.59	4,416.78
Mar	4,428.74	962.51	5,391.26
Apr	4,403.76	913.82	5,317.58
May	4,879.39	959.19	5,838.58
Jun	4,958.44	956.04	5,914.48
Jul	4,795.21	993.38	5,788.59
Aug	5,005.48	958.13	5,963.61
Sep	4,324.25	963.61	5,287.86
Oct	3,921.17	956.02	4,877.19
Nov	3,931.49	669.36	4,600.85
Dec	3,959.72	678.79	4,638.50
YTD	**51,821.45**	**10,804.51**	**62,625.97**
2012			
Jan	3,992.28	1,091.58	5,083.86
Feb	4,301.03	1,000.24	5,301.27
Mar	4,725.42	1,149.90	5,875.32
Apr	4,187.98	1,269.08	5,457.06
May	5,059.57	1,132.09	6,191.67
Jun	4,939.86	1,066.95	6,006.80
Jul	5,160.52	1,118.60	6,279.12
Aug	4,985.55	1,125.00	6,110.55
Sep	4,425.50	1,341.06	5,766.57
Oct	5,090.08	1,375.81	6,465.89
Nov	4,959.33	1,039.37	5,998.70
Dec	4,610.17	996.06	5,606.23
YTD	**56,437.30**	**13,705.74**	**70,143.04**

Table 5.1-5M (Cont.)
EGAT Purchased from IPP

Unit : GWh

Month	Natural Gas (NG)	Coal	Total
2013			
Jan	3,983.42	1,355.57	5,338.99
Feb	4,032.61	1,218.66	5,251.27
Mar	4,960.68	1,387.84	6,348.52
Apr	4,214.38	1,334.98	5,549.36
May	4,817.85	1,246.49	6,064.33
Jun	4,261.62	839.29	5,100.91
Jul	4,101.65	1,276.46	5,378.12
Aug	4,459.10	1,233.47	5,692.57
Sep	4,207.52	1,313.45	5,520.97
Oct	4,700.74	1,089.37	5,790.11
Nov	4,524.61	1,061.34	5,585.95
Dec	3,514.93	952.59	4,467.52
YTD	**51,779.12**	**14,309.51**	**66,088.62**
2014			
Jan	2,583.43	1,308.53	3,891.95
Feb	2,990.75	1,319.02	4,309.77
Mar	3,766.17	1,461.46	5,227.64
Apr	3,808.03	1,416.19	5,224.21
May	4,360.43	1,464.99	5,825.42
Jun	4,236.21	1,439.45	5,675.66
Jul	4,011.02	1,501.86	5,512.88
Aug	4,626.94	1,452.55	6,079.48
Sep	4,717.93	1,416.81	6,134.74
Oct	4,956.71	1,104.49	6,061.20
Nov	4,894.01	1,203.53	6,097.54
Dec	4,496.84	1,180.73	5,677.56
YTD	**49,448.45**	**16,269.61**	**65,718.06**

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1M
EGAT Fuel Consumption in Power Generation

Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2010														
Diesel	M.Litres	0.8	1.0	1.8	1.1	0.8	0.8	2.5	0.5	0.7	0.7	0.8	1.0	12.4
Fuel Oil	M.Litres	4.1	0.7	39.0	5.1	12.7	6.1	41.0	13.7	9.6	2.0	0.0	6.0	140.1
Natural Gas	MMscf	46,907.1	49,609.5	60,629.3	54,999.0	61,699.7	62,726.2	59,237.1	57,000.7	58,308.2	61,853.9	56,067.8	56,899.9	685,938.3
Lignite	1,000 Tons	1,363.2	1,161.7	1,370.2	1,427.2	1,482.3	1,257.5	1,278.1	1,370.7	1,219.7	1,340.6	1,357.2	1,375.8	16,004.2
2011														
Diesel	M.Litres	0.4	0.4	0.6	0.6	0.4	2.3	2.0	1.0	0.5	0.9	0.4	1.7	11.1
Fuel Oil	M.Litres	7.3	7.9	0.0	25.9	24.0	54.7	68.4	31.3	64.5	15.8	9.8	4.8	314.4
Natural Gas	MMscf	45,545.5	48,152.4	51,638.5	46,356.2	53,092.3	49,834.7	49,592.2	51,522.2	48,171.2	46,163.4	46,573.3	43,922.7	580,564.4
Lignite	1,000 Tons	1,491.9	1,350.2	1,524.4	1,453.6	1,552.5	1,490.7	1,537.6	1,393.3	1,344.1	1,391.1	1,277.8	1,354.1	17,161.2
2012														
Diesel	M.Litres	0.4	0.8	2.2	0.7	1.7	0.7	2.7	1.1	4.5	1.2	1.8	1.3	19.1
Fuel Oil	M.Litres	3.6	16.4	3.0	94.1	94.4	28.3	14.6	27.7	9.5	20.7	6.9	0.0	319.3
Natural Gas	MMscf	47,447.9	49,049.6	60,494.9	50,435.9	57,343.4	58,911.2	62,099.3	52,996.8	43,348.9	57,165.5	59,464.1	56,153.8	654,911.3
Lignite	1,000 Tons	1,422.0	1,305.3	1,396.4	1,423.1	1,487.2	1,464.7	1,329.9	1,518.3	1,325.2	1,305.3	1,440.2	1,336.7	16,754.3
2013														
Diesel	M.Litres	1.4	0.7	2.4	13.7	21.0	5.5	2.3	3.0	3.6	3.0	1.8	1.9	60.3
Fuel Oil	M.Litres	29.9	24.5	15.1	55.6	5.4	28.9	31.5	29.3	20.0	25.9	28.1	22.605	316.7
Natural Gas	MMscf	51,524.6	52,157.6	61,707.4	50,512.3	57,881.9	56,498.3	50,519.1	47,933.2	46,958.5	45,970.3	49,508.1	46,501.0	617,672.2
Lignite	1,000 Tons	1,478.4	1,300.4	1,292.6	1,435.9	1,575.6	1,461.2	1,392.0	1,494.9	1,295.7	1,442.7	1,318.5	1,396.9	16,884.9
2014														
Diesel	M.Litres	1.3	1.2	0.7	0.4	1.1	8.5	3.0	1.3	0.7	0.9	1.1	0.6	20.8
Fuel Oil	M.Litres	39.1	31.186	38.817	53.443	25.7	34.0	50.6	20.9	19.8	24.5	20.3	20.5	378.9
Natural Gas	MMscf	40,976.0	44,447.7	57,288.7	51,772.5	55,542.0	51,190.8	51,423.4	51,718.1	49,726.4	51,835.6	51,078.1	47,738.3	604,737.8
Lignite	1,000 Tons	1,477.9	1,220.9	1,437.2	1,519.1	1,583.5	1,490.8	1,424.0	1,341.7	1,301.6	1,420.9	1,347.4	1,455.3	17,020.4

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.3-1M
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2010														
Jan	32.10	744.22	776.32	523.86	609.93	1,272.82	147.22	104.82	0.00	0.00	0.00	0.00	26.23	3,461.18
Feb	35.17	800.99	836.16	559.48	603.95	1,271.27	145.57	108.85	0.00	0.00	0.00	0.00	23.73	3,549.02
Mar	39.28	886.28	925.56	585.78	678.58	1,432.43	164.48	110.19	0.00	0.00	0.00	0.00	26.32	3,923.33
Apr	43.53	982.97	1,026.50	598.13	615.76	1,260.79	156.04	105.70	0.00	0.00	0.00	0.00	26.37	3,789.30
May	44.27	1,037.91	1,082.18	624.80	658.62	1,368.39	150.06	107.04	0.00	0.00	0.00	0.00	26.38	4,017.47
Jun	37.92	965.48	1,003.40	613.49	680.63	1,418.06	152.60	127.41	0.00	0.00	0.00	0.00	25.56	4,021.16
Jul	32.65	898.25	930.91	592.56	668.85	1,443.33	159.40	125.18	0.00	0.00	0.00	0.00	26.47	3,946.69
Aug	30.25	846.58	876.83	569.51	644.83	1,403.22	149.56	124.77	0.00	0.00	0.00	0.00	26.54	3,795.27
Sep	30.47	842.99	873.47	574.41	656.37	1,411.03	148.84	123.86	0.00	0.00	0.00	0.00	25.73	3,813.71
Oct	30.44	790.16	820.60	550.39	636.84	1,393.15	145.94	110.04	0.00	0.00	0.00	0.00	26.70	3,683.66
Nov	30.01	757.32	787.33	532.06	617.34	1,351.20	138.39	102.75	0.00	0.00	0.00	0.00	25.88	3,554.94
Dec	30.26	746.41	776.67	534.71	614.24	1,300.25	144.48	107.29	0.00	0.00	0.00	0.00	26.80	3,504.43
YTD	416.35	10,299.58	10,715.93	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16
2011														
Jan	29.71	677.45	707.16	498.90	583.64	1,309.63	132.00	92.43	0.00	0.00	0.00	0.00	26.89	3,350.67
Feb	33.96	753.33	787.29	530.59	588.33	1,287.57	135.96	96.08	0.00	0.00	0.00	0.00	24.33	3,450.16
Mar	36.46	770.18	806.64	538.21	662.42	1,442.64	144.34	102.51	0.00	0.00	0.00	0.00	34.18	3,730.94
Apr	40.42	824.15	864.57	537.41	581.44	1,286.64	144.54	89.44	0.00	0.00	0.00	0.00	28.50	3,532.55
May	43.30	925.56	968.86	604.87	666.01	1,439.54	159.02	111.92	0.00	0.00	0.00	0.00	29.51	3,979.73
Jun	40.20	893.39	933.59	603.06	675.93	1,455.54	155.18	124.64	0.00	0.00	0.00	0.00	28.93	3,976.87
Jul	36.80	876.00	912.80	588.44	667.96	1,446.47	154.97	120.96	0.00	0.02	0.00	0.00	29.76	3,921.37
Aug	34.71	867.88	902.59	588.27	663.96	1,436.96	157.18	122.02	0.00	1.68	0.00	0.00	29.75	3,902.41
Sep	34.00	852.09	886.08	579.71	672.01	1,478.78	154.98	118.62	0.00	6.88	0.00	0.00	26.28	3,923.33
Oct	32.53	799.84	832.37	556.17	609.59	1,370.48	154.38	111.21	0.00	9.30	0.00	0.00	29.80	3,673.29
Nov	32.23	787.55	819.79	530.21	550.44	1,246.33	150.63	107.93	0.00	10.88	0.00	0.00	29.23	3,445.43
Dec	28.16	674.90	703.06	488.58	572.82	1,268.36	136.52	95.48	0.00	13.34	0.00	0.00	29.84	3,308.00
YTD	422.47	9,702.33	10,124.80	6,644.43	7,494.56	16,468.94	1,779.70	1,293.24	0.00	42.08	0.00	0.00	346.99	44,194.74
2012														
Jan	35.18	776.23	811.41	535.07	605.30	1,365.00	150.45	97.64	0.00	15.78	0.00	0.00	29.76	3,610.40
Feb	39.69	854.43	894.11	575.33	642.64	1,408.48	155.80	112.33	0.00	15.11	0.00	0.00	27.42	3,831.23
Mar	45.22	953.15	998.37	625.01	716.83	1,581.12	178.36	122.27	0.00	19.78	0.00	0.00	30.45	4,272.19
Apr	45.33	1,027.81	1,073.15	615.46	620.54	1,384.77	171.52	99.16	0.00	21.37	0.00	0.00	29.27	4,015.24
May	42.72	1,059.56	1,102.28	653.03	711.92	1,557.05	178.51	120.35	0.00	23.68	0.00	0.00	30.54	4,377.36
Jun	35.50	955.69	991.19	618.10	679.23	1,506.30	165.36	117.31	0.00	24.21	0.00	0.00	29.63	4,131.32
Jul	32.02	908.88	940.89	595.56	677.14	1,554.80	168.12	123.06	0.00	27.31	0.00	0.00	30.62	4,117.51
Aug	30.91	894.05	924.96	590.41	660.34	1,484.46	165.52	117.24	0.00	29.37	0.00	0.00	30.49	4,002.79
Sep	30.75	867.56	898.31	579.35	652.19	1,489.73	154.28	117.34	0.00	31.04	0.00	0.00	29.66	3,951.92
Oct	32.78	896.05	928.83	607.42	726.08	1,533.47	164.27	3.55	0.00	32.23	0.00	0.00	30.67	4,026.52
Nov	32.73	909.79	942.51	621.73	742.67	1,513.02	165.51	8.56	0.00	30.04	0.00	0.00	29.72	4,053.75
Dec	31.53	861.38	892.91	593.92	697.95	1,429.64	166.68	10.30	0.00	31.77	0.00	0.00	30.60	3,853.78
YTD	434.35	10,964.58	11,398.92	7,210.42	8,132.84	17,807.83	1,984.38	1,049.10	0.00	301.68	0.00	0.00	358.83	48,244.00

Table 5.3-1M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2013														
Jan	29.79	822.26	852.06	579.79	693.27	1,460.87	158.88	10.00	0.00	28.29	0.00	0.00	30.67	3,813.82
Feb	31.82	880.01	911.83	593.43	687.05	1,383.15	157.13	8.89	0.00	29.74	0.00	0.00	27.90	3,799.14
Mar	35.96	969.20	1,005.16	639.95	780.08	1,579.30	182.87	7.30	0.00	32.89	0.00	0.00	31.12	4,258.65
Apr	40.47	1,062.88	1,103.35	645.74	687.29	1,397.80	176.16	7.26	0.00	30.32	0.00	0.00	29.78	4,077.70
May	41.21	1,115.93	1,157.14	698.51	789.89	1,583.95	189.89	8.42	0.00	34.74	0.00	0.00	31.14	4,493.68
Jun	34.14	975.88	1,010.03	647.08	750.43	1,521.48	169.20	7.96	0.00	34.45	0.00	0.00	30.36	4,170.97
Jul	29.94	915.34	945.28	620.22	732.27	1,510.63	168.02	7.60	0.00	34.10	0.00	0.00	31.13	4,049.24
Aug	29.72	933.59	963.32	630.36	751.00	1,528.59	172.05	7.76	0.00	35.65	0.00	0.00	31.14	4,119.86
Sep	29.55	884.83	914.39	610.92	722.93	1,460.37	162.60	7.64	0.00	35.27	0.00	0.00	30.53	3,944.66
Oct	30.93	892.98	923.91	609.61	717.41	1,500.50	164.33	7.71	0.00	36.43	0.00	0.00	31.28	3,991.17
Nov	30.27	872.79	903.05	602.03	724.58	1,467.92	163.07	7.67	0.00	34.08	0.00	0.00	30.47	3,932.87
Dec	26.03	704.86	730.90	509.00	602.74	1,285.18	137.46	6.55	0.00	29.81	0.00	0.00	30.71	3,332.35
YTD	389.84	11,030.56	11,420.40	7,386.65	8,638.93	17,679.74	2,001.67	94.75	0.00	395.76	0.00	0.00	366.23	47,984.12
2014														
Jan	25.45	656.31	681.77	491.02	615.80	1,337.23	132.37	6.30	0.00	29.24	0.00	0.00	30.66	3,324.39
Feb	30.45	756.85	787.30	535.84	639.18	1,323.12	138.51	6.69	0.00	30.31	0.00	0.00	28.71	3,489.65
Mar	41.97	925.44	967.41	621.49	754.61	1,533.09	175.76	7.89	0.00	34.02	0.00	0.00	31.72	4,125.98
Apr	50.21	1,072.58	1,122.78	654.45	690.34	1,389.97	179.75	8.19	0.00	32.55	0.00	0.00	30.77	4,108.81
May	52.74	1,156.48	1,209.22	712.29	788.90	1,551.17	189.83	9.61	0.00	37.21	0.00	0.00	31.81	4,530.04
Jun	40.09	1,087.54	1,127.63	682.69	767.21	1,516.10	172.77	8.74	0.00	35.77	0.00	0.00	31.42	4,342.33
Jul	31.05	999.44	1,030.49	645.11	759.76	1,513.70	175.35	8.52	0.00	35.87	0.00	0.00	32.46	4,201.25
Aug	28.93	974.66	1,003.59	643.33	746.12	1,510.29	176.04	8.47	0.00	37.43	0.00	0.00	32.52	4,157.78
Sep	28.31	958.58	986.90	633.60	752.22	1,505.16	170.21	7.99	0.00	36.47	0.00	0.00	31.73	4,124.29
Oct	29.02	935.99	965.01	618.74	740.31	1,511.56	171.59	8.16	0.00	36.64	0.00	0.00	32.97	4,084.97
Nov	29.51	941.78	971.29	627.12	742.07	1,471.35	173.62	8.21	0.00	35.84	0.00	0.00	32.12	4,061.62
Dec	26.60	814.77	841.37	563.12	672.46	1,376.17	158.86	7.37	0.00	32.86	0.00	0.00	32.87	3,685.07
YTD	414.33	11,280.43	11,694.75	7,428.80	8,668.96	17,538.93	2,014.66	96.13	0.00	414.20	0.00	0.00	379.75	48,236.17

Source : MEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-2M
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2010														
Jan	624.57	1,026.87	1,651.43	665.04	1,222.39	3,392.13	236.31	266.29	43.65	55.68	4.70	145.29	147.91	7,830.84
Feb	616.07	1,012.34	1,628.41	654.38	1,216.95	3,352.76	239.13	282.31	48.48	55.05	2.39	130.20	135.89	7,745.96
Mar	738.03	1,209.03	1,947.06	761.76	1,414.30	3,806.29	267.67	306.24	55.49	63.27	4.23	142.72	144.42	8,913.45
Apr	800.67	1,307.21	2,107.89	783.30	1,333.73	3,436.32	272.36	293.57	42.42	64.02	3.06	133.67	139.74	8,610.07
May	817.98	1,404.17	2,222.15	827.12	1,450.94	3,806.40	268.27	333.12	27.34	80.89	4.01	150.84	140.92	9,311.98
Jun	702.40	1,301.50	2,003.90	765.09	1,391.45	3,670.77	239.25	348.73	27.45	75.17	3.62	142.81	136.22	8,804.45
Jul	679.60	1,296.09	1,975.69	759.76	1,402.83	3,799.91	247.79	347.09	30.43	61.61	10.53	147.38	145.65	8,928.66
Aug	649.42	1,235.31	1,884.73	726.55	1,374.60	3,786.53	242.97	316.43	11.57	59.38	6.70	136.65	144.50	8,690.60
Sep	633.15	1,195.15	1,828.31	707.14	1,367.99	3,723.77	233.82	340.64	8.52	60.04	4.63	120.52	133.62	8,529.01
Oct	663.11	1,226.26	1,889.38	731.38	1,332.42	3,890.23	239.97	305.52	9.46	62.61	7.90	133.92	152.73	8,755.54
Nov	587.22	1,062.04	1,649.26	655.85	1,276.93	3,691.60	220.43	271.30	9.62	59.19	19.69	127.60	145.47	8,126.95
Dec	607.74	1,104.63	1,712.37	689.29	1,276.79	3,643.38	239.39	280.24	20.87	64.93	10.64	130.78	153.89	8,222.58
YTD	8,119.97	14,380.59	22,500.56	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08
2011														
Jan	597.69	1,035.20	1,632.88	658.04	1,211.71	3,649.61	235.92	255.47	46.87	62.00	2.77	137.36	156.60	8,049.24
Feb	586.59	986.34	1,572.93	632.33	1,192.51	3,585.07	240.14	258.04	54.53	60.46	7.22	125.21	141.63	7,870.06
Mar	710.54	1,180.22	1,890.76	746.45	1,366.54	3,982.76	255.78	290.16	47.47	70.04	4.73	151.37	152.71	8,958.77
Apr	725.02	1,151.77	1,876.79	713.83	1,271.10	3,541.98	257.08	258.76	36.92	64.37	4.93	132.20	146.62	8,304.58
May	779.03	1,297.68	2,076.71	791.58	1,434.36	3,870.56	267.18	301.58	14.96	70.77	6.54	138.87	148.14	9,121.26
Jun	716.39	1,262.89	1,979.28	772.28	1,414.95	3,855.72	250.29	342.71	14.23	71.74	3.13	132.55	141.72	8,978.61
Jul	723.39	1,296.71	2,020.10	781.81	1,400.91	3,989.61	264.80	340.16	20.69	70.71	8.60	141.53	146.56	9,185.49
Aug	693.09	1,305.64	1,998.73	773.07	1,408.80	3,994.37	264.13	334.40	10.78	68.90	11.07	139.21	151.45	9,154.90
Sep	676.93	1,276.45	1,953.37	747.48	1,345.59	4,007.53	248.17	378.03	5.74	66.06	6.02	130.33	153.17	9,041.50
Oct	686.50	1,280.28	1,966.78	744.66	1,254.46	3,595.73	249.61	286.16	5.62	65.08	8.03	131.43	150.49	8,458.06
Nov	659.23	1,226.20	1,885.43	721.99	1,151.44	3,203.12	249.15	281.71	10.92	62.34	3.85	124.32	163.56	7,857.84
Dec	624.49	1,196.40	1,820.88	718.25	1,169.54	3,354.68	237.35	267.81	27.98	66.07	1.67	134.11	168.74	7,967.08
YTD	8,178.87	14,495.78	22,674.65	8,801.77	15,621.92	44,630.74	3,019.61	3,594.99	296.71	798.54	68.57	1,618.49	1,821.40	102,947.38
2012														
Jan	639.83	1,189.36	1,829.18	710.46	1,197.92	3,605.48	266.99	253.38	46.33	67.10	9.15	138.05	161.17	8,285.21
Feb	643.18	1,208.18	1,851.36	725.07	1,260.63	3,797.18	271.65	279.84	50.42	67.89	41.84	134.68	150.61	8,631.17
Mar	763.01	1,426.35	2,189.35	831.86	1,412.78	4,185.25	302.54	308.74	50.92	74.44	49.47	150.47	155.86	9,711.70
Apr	772.63	1,455.78	2,228.40	817.06	1,309.37	3,769.50	302.34	272.14	38.24	70.47	54.48	133.61	147.99	9,143.62
May	802.38	1,563.99	2,366.37	870.69	1,439.62	4,259.26	295.13	310.72	22.67	74.74	62.03	129.55	149.41	9,980.20
Jun	680.04	1,398.26	2,078.30	784.94	1,368.90	4,136.86	277.07	326.16	20.76	74.10	53.78	125.29	141.64	9,387.78
Jul	677.96	1,426.57	2,104.53	799.93	1,400.14	4,248.16	283.65	333.63	32.41	72.97	60.08	148.26	146.69	9,630.44
Aug	662.44	1,417.99	2,080.43	789.87	1,368.21	4,155.74	292.00	307.71	32.86	73.24	64.83	145.11	149.55	9,459.54
Sep	646.03	1,342.33	1,988.37	763.34	1,350.03	4,118.23	264.89	343.18	11.51	70.56	58.62	142.77	140.93	9,252.41
Oct	684.87	1,416.15	2,101.03	899.48	1,566.41	4,216.74	282.19	5.16	23.50	72.61	55.69	149.06	158.40	9,530.27
Nov	683.90	1,445.29	2,129.20	906.35	1,571.76	4,169.55	286.70	4.45	18.99	75.24	39.55	142.70	162.12	9,506.59
Dec	682.43	1,419.34	2,101.77	903.84	1,511.53	3,933.30	294.96	4.57	28.51	77.02	36.47	138.96	168.20	9,199.13
YTD	8,338.69	16,709.60	25,048.29	9,802.87	16,757.28	48,595.25	3,420.12	2,749.69	377.11	870.38	586.00	1,678.51	1,832.56	111,718.05

Table 5.3-2M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh	Total											
2013														
Jan	632.31	1,320.38	1,952.69	849.94	1,443.52	4,042.53	289.77	3.98	48.24	72.49	5.58	133.30	167.29	9,009.32
Feb	592.50	1,259.76	1,852.27	807.26	1,422.30	3,889.71	287.44	4.09	44.52	70.96	5.57	125.09	153.94	8,663.15
Mar	717.78	1,534.17	2,251.95	948.77	1,642.15	4,502.80	337.19	4.64	47.37	81.89	3.55	145.98	165.35	10,131.63
Apr	789.70	1,672.68	2,462.38	975.97	1,504.32	3,911.22	327.52	4.52	38.24	79.77	1.84	123.72	157.90	9,587.39
May	808.57	1,742.13	2,550.69	1,009.86	1,667.27	4,397.41	329.86	4.92	24.64	85.13	1.93	135.84	158.91	10,366.44
Jun	703.08	1,582.48	2,285.55	947.90	1,599.42	4,266.68	293.93	4.59	22.62	81.36	5.82	145.21	157.34	9,810.43
Jul	685.04	1,580.96	2,266.00	947.67	1,594.97	4,263.56	298.24	4.85	31.41	80.84	5.08	138.37	170.08	9,801.08
Aug	667.05	1,556.66	2,223.70	924.35	1,611.19	4,311.83	305.15	4.78	26.52	80.51	6.61	139.09	188.40	9,822.13
Sep	650.79	1,512.66	2,163.45	933.56	1,585.41	4,250.65	283.36	4.49	17.65	79.90	4.03	140.42	158.76	9,621.69
Oct	666.87	1,522.48	2,189.35	918.94	1,554.68	4,294.18	283.57	4.55	12.85	80.91	4.56	139.16	177.26	9,660.00
Nov	633.09	1,447.46	2,080.55	878.89	1,558.92	4,211.37	286.50	4.47	13.33	79.74	4.88	135.36	175.16	9,429.17
Dec	612.53	1,345.85	1,958.38	844.39	1,396.07	3,824.25	262.43	4.23	26.23	77.08	2.34	139.30	182.23	8,716.94
YTD	8,159.31	18,077.66	26,236.98	10,987.50	18,580.22	50,166.20	3,584.95	54.10	353.62	950.58	51.77	1,640.84	2,012.61	114,619.38
2014														
Jan	576.96	1,228.11	1,805.07	788.99	1,366.43	3,910.46	262.53	3.71	50.77	73.96	5.99	147.80	180.28	8,595.99
Feb	567.06	1,183.01	1,750.06	767.84	1,389.93	3,919.48	270.62	3.76	57.71	71.18	8.99	149.07	162.98	8,551.61
Mar	764.10	1,537.35	2,301.45	971.98	1,686.72	4,524.55	329.86	4.63	62.97	84.41	15.63	161.41	176.38	10,319.99
Apr	812.55	1,650.99	2,463.53	986.07	1,561.09	4,012.70	338.90	4.80	46.77	81.02	13.92	130.41	168.56	9,807.77
May	873.22	1,820.36	2,693.58	1,058.99	1,732.16	4,520.02	335.22	5.16	25.68	87.51	8.06	154.27	172.44	10,793.08
Jun	742.98	1,760.71	2,503.68	1,022.70	1,678.77	4,399.14	296.41	4.98	26.11	84.40	8.22	145.19	168.90	10,338.51
Jul	710.64	1,754.95	2,465.59	1,003.42	1,656.88	4,458.21	307.64	5.01	32.39	84.48	16.96	148.28	179.00	10,357.85
Aug	670.63	1,705.09	2,375.72	981.86	1,676.11	4,468.04	312.27	4.75	25.37	85.45	20.32	145.62	187.33	10,282.84
Sep	642.59	1,608.30	2,250.88	968.18	1,662.66	4,410.06	289.12	4.72	20.23	83.46	18.28	141.93	164.07	10,013.60
Oct	667.82	1,669.86	2,337.68	968.86	1,650.10	4,493.90	300.01	4.67	29.16	84.14	9.20	141.16	188.90	10,207.77
Nov	636.79	1,574.53	2,211.32	933.64	1,630.75	4,404.36	299.34	4.66	15.16	81.70	10.58	146.03	194.15	9,931.71
Dec	623.24	1,516.60	2,139.85	925.62	1,522.89	4,097.18	293.90	4.86	22.00	80.58	5.29	149.70	194.25	9,436.12
YTD	8,288.57	19,009.85	27,298.42	11,378.13	19,214.49	51,618.09	3,635.82	55.71	414.34	982.28	141.44	1,760.88	2,137.24	118,636.85

Source : PEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-3M
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh	Total													
2010																
Jan	656.66	1,771.09	2,427.75	1,188.89	1,832.32	4,664.95	383.53	371.12	43.65	55.68	4.70	145.29	174.14	11,292.02	141.19	11,433.21
Feb	651.24	1,813.33	2,464.57	1,213.87	1,820.90	4,624.03	384.71	391.16	48.48	55.05	2.39	130.20	159.62	11,294.98	135.14	11,430.12
Mar	777.31	2,095.30	2,872.62	1,347.54	2,092.88	5,238.71	432.15	416.43	55.49	63.27	4.23	142.72	170.74	12,836.78	138.63	12,975.41
Apr	844.20	2,290.19	3,134.39	1,381.43	1,949.49	4,697.12	428.39	399.27	42.42	64.02	3.06	133.67	166.10	12,399.37	148.36	12,547.72
May	862.25	2,442.08	3,304.33	1,451.91	2,109.56	5,174.79	418.33	440.15	27.34	80.89	4.01	150.84	167.30	13,329.45	149.31	13,478.76
Jun	740.32	2,266.98	3,007.30	1,378.59	2,072.08	5,088.83	391.84	476.14	27.45	75.17	3.62	142.81	161.78	12,825.61	142.64	12,968.25
Jul	712.25	2,194.34	2,906.59	1,352.32	2,071.68	5,243.23	407.20	472.27	30.43	61.61	10.53	147.38	172.12	12,875.35	190.60	13,065.95
Aug	679.67	2,081.89	2,761.56	1,296.06	2,019.43	5,189.75	392.53	441.20	11.57	59.38	6.70	136.65	171.05	12,485.87	145.97	12,631.84
Sep	663.63	2,038.15	2,701.78	1,281.55	2,024.36	5,134.80	382.66	464.50	8.52	60.04	4.63	120.52	159.35	12,342.72	152.03	12,494.74
Oct	693.55	2,016.43	2,709.98	1,281.78	1,969.26	5,283.38	385.91	415.56	9.46	62.61	7.90	133.92	179.44	12,439.20	143.62	12,582.82
Nov	617.23	1,819.36	2,436.59	1,187.91	1,894.27	5,042.80	358.82	374.05	9.62	59.19	19.69	127.60	171.35	11,681.89	141.78	11,823.67
Dec	638.00	1,851.04	2,489.04	1,224.00	1,891.03	4,943.63	383.87	387.53	20.87	64.93	10.64	130.78	180.69	11,727.01	141.64	11,868.64
YTD	8,536.32	24,680.17	33,216.49	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13
2011																
Jan	627.40	1,712.65	2,340.05	1,156.94	1,795.35	4,959.24	367.93	347.90	46.87	62.00	2.77	137.36	183.49	11,399.91	144.46	11,544.37
Feb	620.56	1,739.67	2,360.22	1,162.93	1,780.84	4,872.64	376.10	354.11	54.53	60.46	7.22	125.21	165.96	11,320.22	129.72	11,449.94
Mar	747.01	1,950.39	2,697.40	1,284.66	2,028.97	5,425.40	400.12	392.67	47.47	70.04	4.73	151.37	186.89	12,689.71	132.97	12,822.68
Apr	765.44	1,975.92	2,741.36	1,251.24	1,852.54	4,828.62	401.62	348.20	36.92	64.37	4.93	132.20	175.12	11,837.13	140.27	11,977.40
May	822.32	2,223.25	3,045.57	1,396.44	2,100.38	5,310.10	426.20	413.51	14.96	70.77	6.54	138.87	177.65	13,100.99	150.85	13,251.84
Jun	756.60	2,156.28	2,912.87	1,375.34	2,090.88	5,311.26	405.47	467.35	14.23	71.74	3.13	132.55	170.65	12,955.48	134.45	13,089.93
Jul	760.19	2,172.71	2,932.90	1,370.25	2,068.87	5,436.08	419.76	461.11	20.69	70.73	8.60	141.53	176.32	13,106.86	148.36	13,255.21
Aug	727.80	2,173.53	2,901.32	1,361.35	2,072.76	5,431.33	421.30	456.42	10.78	70.57	11.07	139.21	181.20	13,057.31	154.13	13,211.44
Sep	710.92	2,128.53	2,839.45	1,327.19	2,017.60	5,486.31	403.15	496.65	5.74	72.94	6.02	130.33	179.45	12,964.83	148.06	13,112.89
Oct	719.02	2,080.12	2,799.15	1,300.83	1,864.04	4,966.21	403.99	397.37	5.62	74.38	8.03	131.43	180.29	12,131.34	146.05	12,277.39
Nov	691.46	2,013.76	2,705.22	1,252.19	1,701.89	4,449.46	399.78	389.63	10.92	73.22	3.85	124.32	192.79	11,303.27	137.30	11,440.57
Dec	652.65	1,871.30	2,523.94	1,206.83	1,742.35	4,623.05	373.87	363.29	27.98	79.41	1.67	134.11	198.58	11,275.08	146.74	11,421.82
YTD	8,601.35	24,198.11	32,799.46	15,446.19	23,116.47	61,099.69	4,799.31	4,888.22	296.71	840.63	68.57	1,618.49	2,168.39	147,142.13	1,713.36	148,855.49
2012																
Jan	675.01	1,965.58	2,640.59	1,245.53	1,803.22	4,970.48	417.44	351.02	46.33	82.88	9.15	138.05	190.93	11,895.61	147.94	12,043.55
Feb	682.86	2,062.61	2,745.48	1,300.40	1,903.27	5,205.66	427.45	392.17	50.42	83.00	41.84	134.68	178.03	12,462.40	147.00	12,609.40
Mar	808.22	2,379.50	3,187.72	1,456.88	2,129.61	5,766.37	480.90	431.01	50.92	94.22	49.47	150.47	186.31	13,983.89	153.60	14,137.49
Apr	817.96	2,483.59	3,301.55	1,432.53	1,929.91	5,154.27	473.86	371.30	38.24	91.83	54.48	133.61	177.27	13,158.86	146.27	13,305.12
May	845.11	2,623.55	3,468.65	1,523.73	2,151.54	5,816.32	473.64	431.07	22.67	98.42	62.03	129.55	179.95	14,357.57	153.91	14,511.48
Jun	715.54	2,353.95	3,069.48	1,403.04	2,048.12	5,643.16	442.43	443.47	20.76	98.31	53.78	125.29	171.26	13,519.11	173.84	13,692.94
Jul	709.97	2,335.45	3,045.42	1,395.49	2,077.28	5,802.96	451.77	456.69	32.41	100.28	60.08	148.26	177.30	13,747.95	157.31	13,905.26
Aug	693.35	2,312.04	3,005.39	1,380.27	2,028.55	5,640.20	457.52	424.95	32.86	102.61	64.83	145.11	180.04	13,462.32	160.06	13,622.38
Sep	676.78	2,209.90	2,886.68	1,342.69	2,002.22	5,607.96	419.17	460.52	11.51	101.60	58.62	142.77	170.59	13,204.32	146.54	13,350.86
Oct	717.65	2,312.20	3,029.85	1,506.90	2,292.49	5,750.21	446.46	8.71	23.50	104.85	55.69	149.06	189.07	13,556.78	146.92	13,703.71
Nov	716.63	2,355.08	3,071.71	1,528.08	2,314.42	5,682.57	452.20	13.01	18.99	105.27	39.55	142.70	191.83	13,560.34	140.73	13,701.07
Dec	713.95	2,280.73	2,994.68	1,497.76	2,209.48	5,362.94	461.65	14.87	28.51	108.79	36.47	138.96	198.80	13,052.91	142.81	13,195.72
YTD	8,773.03	27,674.18	36,447.21	17,013.29	24,890.12	66,403.08	5,404.50	3,798.79	377.11	1,172.06	586.00	1,678.51	2,191.39	159,962.05	1,816.93	161,778.98

Table 5.3-3M (Cont.)
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh	Total													
2013																
Jan	662.10	2,142.64	2,804.74	1,429.73	2,136.78	5,503.40	448.65	13.98	48.24	100.79	5.58	133.30	197.96	12,823.14	135.78	12,958.92
Feb	624.32	2,139.77	2,764.10	1,400.70	2,109.35	5,272.87	444.58	12.98	44.52	100.70	5.57	125.09	181.85	12,462.29	133.96	12,596.25
Mar	753.74	2,503.37	3,257.11	1,588.71	2,422.23	6,082.09	520.06	11.94	47.37	114.78	3.55	145.98	196.46	14,390.29	141.69	14,531.98
Apr	830.17	2,735.56	3,565.73	1,621.70	2,191.61	5,309.03	503.68	11.78	38.24	110.08	1.84	123.72	187.68	13,665.09	146.43	13,811.52
May	849.78	2,858.06	3,707.83	1,708.37	2,457.16	5,981.35	519.75	13.34	24.64	119.87	1.93	135.84	190.05	14,860.13	148.50	15,008.63
Jun	737.22	2,558.36	3,295.58	1,594.99	2,349.85	5,788.16	463.13	12.54	22.62	115.80	5.82	145.21	187.70	13,981.41	146.65	14,128.06
Jul	714.99	2,496.30	3,211.28	1,567.89	2,327.24	5,774.19	466.25	12.45	31.41	114.94	5.08	138.37	201.21	13,850.32	151.03	14,001.35
Aug	696.77	2,490.25	3,187.02	1,554.71	2,362.18	5,840.43	477.20	12.54	26.52	116.15	6.61	139.09	219.54	13,942.00	151.44	14,093.44
Sep	680.34	2,397.50	3,077.84	1,544.48	2,308.35	5,711.02	445.96	12.13	17.65	115.18	4.03	140.42	189.29	13,566.35	146.06	13,712.41
Oct	697.80	2,415.46	3,113.26	1,528.55	2,272.09	5,794.67	447.90	12.26	12.85	117.34	4.56	139.16	208.54	13,651.17	149.83	13,801.00
Nov	663.36	2,320.25	2,983.61	1,480.92	2,283.50	5,679.29	449.57	12.13	13.33	113.82	4.88	135.36	205.63	13,362.04	140.86	13,502.89
Dec	638.57	2,050.71	2,689.28	1,353.39	1,998.81	5,109.44	399.89	10.78	26.23	106.89	2.34	139.30	212.94	12,049.29	145.36	12,194.66
YTD	8,549.16	29,108.22	37,657.38	18,374.15	27,219.15	67,845.94	5,586.62	148.85	353.62	1,346.34	51.77	1,640.84	2,378.84	162,603.50	1,737.62	164,341.12
2014																
Jan	602.41	1,884.43	2,486.84	1,280.01	1,982.23	5,247.70	394.90	10.01	50.77	103.20	5.99	147.80	210.95	11,920.39	142.94	12,063.33
Feb	597.51	1,939.85	2,537.36	1,303.68	2,029.10	5,242.60	409.12	10.45	57.71	101.49	8.99	149.07	191.69	12,041.25	119.94	12,161.19
Mar	806.07	2,462.79	3,268.86	1,593.46	2,441.33	6,057.64	505.62	12.52	62.97	118.43	15.63	161.41	208.10	14,445.97	154.44	14,600.41
Apr	862.75	2,723.56	3,586.32	1,640.51	2,251.44	5,402.67	518.65	12.98	46.77	113.57	13.92	130.41	199.33	13,916.58	153.97	14,070.55
May	925.97	2,976.84	3,902.80	1,771.28	2,521.05	6,071.18	525.05	14.77	25.68	124.72	8.06	154.27	204.25	15,323.12	162.67	15,485.79
Jun	783.07	2,848.25	3,631.31	1,705.39	2,445.98	5,915.24	469.19	13.72	26.11	120.17	8.22	145.19	200.31	14,680.84	150.57	14,831.41
Jul	741.68	2,754.39	3,496.07	1,648.53	2,416.64	5,971.91	482.99	13.53	32.39	120.35	16.96	148.28	211.46	14,559.10	134.67	14,693.78
Aug	699.55	2,679.76	3,379.31	1,625.19	2,422.22	5,978.32	488.31	13.22	25.37	122.88	20.32	145.62	219.85	14,440.62	161.92	14,602.54
Sep	670.90	2,566.88	3,237.78	1,601.78	2,414.88	5,915.23	459.33	12.71	20.23	119.93	18.28	141.93	195.80	14,137.89	140.12	14,278.01
Oct	696.84	2,605.85	3,302.69	1,587.59	2,390.40	6,005.46	471.60	12.83	29.16	120.77	9.20	141.16	221.87	14,292.74	139.23	14,431.96
Nov	666.31	2,516.31	3,182.62	1,560.76	2,372.82	5,875.72	472.95	12.88	15.16	117.53	10.58	146.03	226.27	13,993.33	143.49	14,136.82
Dec	649.84	2,331.37	2,981.21	1,488.74	2,195.35	5,473.36	452.76	12.23	22.00	113.44	5.29	149.70	227.12	13,121.19	143.07	13,264.26
YTD	8,702.90	30,290.27	38,993.17	18,806.93	27,883.45	69,157.02	5,650.48	151.85	414.34	1,396.48	141.44	1,760.88	2,516.99	166,873.03	1,747.03	168,620.06

Source : MEA, PEA and EGAT

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-4M
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	776.32	523.86	918.08	1,061.24	104.82	0.00	50.64	3,434.95	26.23	3,461.18
Feb	836.16	559.48	937.16	1,077.50	108.85	0.00	6.14	3,525.29	23.73	3,549.02
Mar	925.56	585.78	997.54	1,226.47	110.19	0.00	51.48	3,897.01	26.32	3,923.33
Apr	1,026.50	598.13	942.45	1,041.62	105.70	0.00	48.53	3,762.93	26.37	3,789.30
May	1,082.18	624.80	937.07	1,197.73	107.04	0.00	42.28	3,991.09	26.38	4,017.47
Jun	1,003.40	613.49	993.15	1,208.76	127.41	0.00	49.38	3,995.59	25.56	4,021.16
Jul	930.91	592.56	1,015.46	1,209.74	125.18	0.00	46.38	3,920.22	26.47	3,946.69
Aug	876.83	569.51	972.26	1,177.79	124.77	0.00	47.56	3,768.73	26.54	3,795.27
Sep	873.47	574.41	984.88	1,185.27	123.86	0.00	46.09	3,787.97	25.73	3,813.71
Oct	820.60	550.39	943.68	1,178.85	110.04	0.00	53.40	3,656.96	26.70	3,683.66
Nov	787.33	532.06	913.76	1,141.66	102.75	0.00	51.51	3,529.06	25.88	3,554.94
Dec	776.67	534.71	933.69	1,072.14	107.29	0.00	53.13	3,477.63	26.80	3,504.43
YTD	**10,715.93**	**6,859.18**	**11,489.17**	**13,778.76**	**1,357.89**	**0.00**	**546.51**	**44,747.45**	**312.71**	**45,060.16**
2011										
Jan	707.16	498.90	878.78	1,097.08	92.43		49.41	3,323.77	26.89	3,350.67
Feb	787.29	530.59	878.02	1,083.01	96.08		50.83	3,425.83	24.33	3,450.16
Mar	806.64	538.21	970.61	1,235.00	102.51		43.80	3,696.77	34.18	3,730.94
Apr	864.57	537.41	943.69	1,034.12	89.44		34.81	3,504.05	28.50	3,532.55
May	968.86	604.87	1,039.92	1,188.73	111.92		35.92	3,950.22	29.51	3,979.73
Jun	933.59	603.06	1,044.31	1,206.34	124.64		36.01	3,947.94	28.93	3,976.87
Jul	912.80	588.44	1,023.41	1,190.74	120.96		55.26	3,891.61	29.76	3,921.37
Aug	902.59	588.27	1,025.24	1,178.77	122.02		55.76	3,872.66	29.75	3,902.41
Sep	886.08	579.71	1,034.63	1,219.19	118.62		58.82	3,897.05	26.28	3,923.33
Oct	832.37	556.17	1,008.51	1,097.21	111.21		38.01	3,643.49	29.80	3,673.29
Nov	819.79	530.21	928.87	1,017.35	107.93		12.07	3,416.20	29.23	3,445.43
Dec	703.06	488.58	907.87	1,027.18	95.48		56.00	3,278.16	29.84	3,308.00
YTD	**10,124.80**	**6,644.43**	**11,683.86**	**13,574.72**	**1,293.24**		**526.71**	**43,847.75**	**346.99**	**44,194.74**
2012										
Jan	811.41	535.07	974.92	1,091.96	97.64		69.65	3,580.64	29.76	3,610.40
Feb	894.11	575.33	981.02	1,172.89	112.33		68.13	3,803.81	27.42	3,831.23
Mar	998.37	625.01	1,074.87	1,282.36	122.27		138.86	4,241.73	30.45	4,272.19
Apr	1,073.15	615.46	1,046.34	1,072.26	99.16		79.60	3,985.97	29.27	4,015.24
May	1,102.28	653.03	1,124.00	1,261.91	120.35		85.25	4,346.83	30.54	4,377.36
Jun	991.19	618.10	1,069.92	1,223.02	117.31		82.16	4,101.69	29.63	4,131.32
Jul	940.89	595.56	1,108.50	1,247.92	123.06		70.95	4,086.89	30.62	4,117.51
Aug	924.96	590.41	1,049.76	1,193.25	117.24		96.68	3,972.29	30.49	4,002.79
Sep	898.31	579.35	1,044.78	1,196.04	117.34		86.42	3,922.25	29.66	3,951.92
Oct	928.83	607.42	1,158.11	1,229.85	3.55		68.08	3,995.85	30.67	4,026.52
Nov	942.51	621.73	1,159.34	1,223.65	8.56		68.23	4,024.03	29.72	4,053.75
Dec	892.91	593.92	1,118.78	1,114.28	10.30		92.98	3,823.18	30.60	3,853.78
YTD	**11,398.92**	**7,210.42**	**12,910.34**	**14,309.39**	**1,049.10**		**1,007.00**	**47,885.17**	**358.83**	**48,244.00**

Table 5.3-4M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2013										
Jan	852.06	579.79	1,106.25	1,152.66	10.00		82.40	3,783.15	30.67	3,813.82
Feb	911.83	593.43	1,067.96	1,101.79	8.89		87.33	3,771.24	27.90	3,799.14
Mar	1,005.16	639.95	1,194.78	1,276.36	7.30		103.99	4,227.54	31.12	4,258.65
Apr	1,103.35	645.74	1,146.40	1,052.67	7.26		92.50	4,047.92	29.78	4,077.70
May	1,157.14	698.51	1,249.92	1,241.50	8.42		107.06	4,462.55	31.14	4,493.68
Jun	1,010.03	647.08	1,172.00	1,200.06	7.96		103.50	4,140.62	30.36	4,170.97
Jul	945.28	620.22	1,174.04	1,183.25	7.60		87.73	4,018.12	31.13	4,049.24
Aug	963.32	630.36	1,211.54	1,188.31	7.76		87.43	4,088.72	31.14	4,119.86
Sep	914.39	610.92	1,148.50	1,145.84	7.64		86.83	3,914.12	30.53	3,944.66
Oct	923.91	609.61	1,162.87	1,155.22	7.71		100.58	3,959.89	31.28	3,991.17
Nov	903.05	602.03	1,150.96	1,143.68	7.67		95.01	3,902.40	30.47	3,932.87
Dec	730.90	509.00	977.07	1,001.37	6.55		76.76	3,301.64	30.71	3,332.35
YTD	11,420.40	7,386.65	13,762.28	13,842.71	94.75		1,111.11	47,617.89	366.23	47,984.12
2014										
Jan	681.77	491.02	975.52	1,049.19	6.30		89.93	3,293.73	30.66	3,324.39
Feb	787.30	535.84	995.14	1,049.44	6.69		86.53	3,460.94	28.71	3,489.65
Mar	967.41	621.49	1,183.09	1,210.84	7.89		103.55	4,094.26	31.72	4,125.98
Apr	1,122.78	654.45	1,165.34	1,031.58	8.19		95.70	4,078.03	30.77	4,108.81
May	1,209.22	712.29	1,249.86	1,210.46	9.61		106.78	4,498.22	31.81	4,530.04
Jun	1,127.63	682.69	1,203.87	1,179.59	8.74		108.39	4,310.91	31.42	4,342.33
Jul	1,030.49	645.11	1,207.13	1,170.57	8.52		106.97	4,168.80	32.46	4,201.25
Aug	1,003.59	643.33	1,201.56	1,159.06	8.47		109.25	4,125.26	32.52	4,157.78
Sep	986.90	633.60	1,188.53	1,166.44	7.99		109.09	4,092.56	31.73	4,124.29
Oct	965.01	618.74	1,178.77	1,171.76	8.16		109.57	4,052.00	32.97	4,084.97
Nov	971.29	627.12	1,175.56	1,137.10	8.21		110.21	4,029.50	32.12	4,061.62
Dec	841.37	563.12	1,081.99	1,052.25	7.37		106.11	3,652.20	32.87	3,685.07
YTD	11,694.75	7,428.80	13,806.37	13,588.30	96.13		1,242.08	47,856.42	379.75	48,236.17

Source : MEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-5M
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	1,651.43	665.04	852.99	4,076.12	266.29	43.65	127.39	7,682.92	147.91	7,830.84
Feb	1,628.41	654.38	848.29	4,015.62	282.31	48.48	132.58	7,610.07	135.89	7,745.96
Mar	1,947.06	761.76	954.92	4,658.80	306.24	55.49	84.76	8,769.03	144.42	8,913.45
Apr	2,107.89	783.30	963.46	4,198.44	293.57	42.42	81.25	8,470.33	139.74	8,610.07
May	2,222.15	827.12	992.58	4,621.07	333.12	27.34	147.69	9,171.06	140.92	9,311.98
Jun	2,003.90	765.09	947.37	4,409.59	348.73	27.45	166.10	8,668.23	136.22	8,804.45
Jul	1,975.69	759.76	1,032.42	4,573.95	347.09	30.43	63.68	8,783.01	145.65	8,928.66
Aug	1,884.73	726.55	941.16	4,510.99	316.43	11.57	154.68	8,546.10	144.50	8,690.60
Sep	1,828.31	707.14	935.83	4,448.08	340.64	8.52	126.87	8,395.39	133.62	8,529.01
Oct	1,889.38	731.38	914.12	4,623.81	305.52	9.46	129.13	8,602.80	152.73	8,755.54
Nov	1,649.26	655.85	865.75	4,378.91	271.30	9.62	150.78	7,981.48	145.47	8,126.95
Dec	1,712.37	689.29	899.02	4,332.29	280.24	20.87	134.60	8,068.68	153.89	8,222.58
YTD	22,500.56	8,726.67	11,147.91	52,847.67	3,691.49	335.29	1,499.51	100,749.10	1,720.98	102,470.08
2011										
Jan	1,632.88	658.04	867.35	4,289.64	255.47	46.87	142.40	7,892.64	156.60	8,049.24
Feb	1,572.93	632.33	870.61	4,233.80	258.04	54.53	106.19	7,728.44	141.63	7,870.06
Mar	1,890.76	746.45	959.86	4,749.92	290.16	47.47	121.45	8,806.06	152.71	8,958.77
Apr	1,876.79	713.83	937.71	4,237.49	258.76	36.92	96.46	8,157.96	146.62	8,304.58
May	2,076.71	791.58	1,035.72	4,674.68	301.58	14.96	77.89	8,973.12	148.14	9,121.26
Jun	1,979.28	772.28	1,022.46	4,626.07	342.71	14.23	79.85	8,836.89	141.72	8,978.61
Jul	2,020.10	781.81	1,024.64	4,764.98	340.16	20.69	86.54	9,038.92	146.56	9,185.49
Aug	1,998.73	773.07	1,031.05	4,763.46	334.40	10.78	91.96	9,003.45	151.45	9,154.90
Sep	1,953.37	747.48	1,004.56	4,718.29	378.03	5.74	80.85	8,888.33	153.17	9,041.50
Oct	1,966.78	744.66	1,009.69	4,213.26	286.16	5.62	81.40	8,307.57	150.49	8,458.06
Nov	1,885.43	721.99	934.86	3,778.28	281.71	10.92	81.09	7,694.28	163.56	7,857.84
Dec	1,820.88	718.25	916.75	3,964.75	267.81	27.98	81.91	7,798.34	168.74	7,967.08
YTD	22,674.65	8,801.77	11,615.26	53,014.62	3,594.99	296.71	1,127.99	101,125.99	1,821.40	102,947.38
2012										
Jan	1,829.18	710.46	982.51	4,176.70	253.38	46.33	125.47	8,124.04	161.17	8,285.21
Feb	1,851.36	725.07	1,004.13	4,444.61	279.84	50.42	125.14	8,480.57	150.61	8,631.17
Mar	2,189.35	831.86	1,155.55	4,890.31	308.74	50.92	129.10	9,555.84	155.86	9,711.70
Apr	2,228.40	817.06	1,091.81	4,417.93	272.14	38.24	130.02	8,995.62	147.99	9,143.62
May	2,366.37	870.69	1,147.95	4,973.81	310.72	22.67	138.58	9,830.79	149.41	9,980.20
Jun	2,078.30	784.94	1,107.57	4,803.74	326.16	20.76	124.69	9,246.15	141.64	9,387.78
Jul	2,104.53	799.93	1,141.03	4,955.84	333.63	32.41	116.38	9,483.75	146.69	9,630.44
Aug	2,080.43	789.87	1,124.28	4,832.71	307.71	32.86	142.14	9,309.99	149.55	9,459.54
Sep	1,988.37	763.34	1,082.50	4,798.87	343.18	11.51	123.71	9,111.47	140.93	9,252.41
Oct	2,101.03	899.48	1,310.37	4,910.50	5.16	23.50	121.82	9,371.86	158.40	9,530.27
Nov	2,129.20	906.35	1,333.95	4,829.17	4.45	18.99	122.37	9,344.48	162.12	9,506.59
Dec	2,101.77	903.84	1,298.87	4,573.16	4.57	28.51	120.22	9,030.93	168.20	9,199.13
YTD	25,048.29	9,802.87	13,780.54	56,607.34	2,749.69	377.11	1,519.65	109,885.49	1,832.56	111,718.05

Table 5.3-5M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2013										
Jan	1,952.69	849.94	1,256.71	4,623.87	3.98	48.24	106.61	8,842.03	167.29	9,009.32
Feb	1,852.27	807.26	1,243.81	4,460.47	4.09	44.52	96.79	8,509.21	153.94	8,663.15
Mar	2,251.95	948.77	1,435.12	5,168.79	4.64	47.37	109.65	9,966.28	165.35	10,131.63
Apr	2,462.38	975.97	1,386.98	4,446.69	4.52	38.24	114.71	9,429.50	157.90	9,587.39
May	2,550.69	1,009.86	1,477.46	5,005.42	4.92	24.64	134.55	10,207.54	158.91	10,366.44
Jun	2,285.55	947.90	1,400.77	4,870.66	4.59	22.62	121.01	9,653.09	157.34	9,810.43
Jul	2,266.00	947.67	1,400.85	4,863.83	4.85	31.41	116.37	9,630.99	170.08	9,801.08
Aug	2,223.70	924.35	1,413.08	4,923.12	4.78	26.52	118.17	9,633.73	188.40	9,822.13
Sep	2,163.45	933.56	1,366.38	4,865.60	4.49	17.65	111.81	9,462.93	158.76	9,621.69
Oct	2,189.35	918.94	1,335.22	4,905.53	4.55	12.85	116.30	9,482.74	177.26	9,660.00
Nov	2,080.55	878.89	1,339.35	4,820.36	4.47	13.33	117.07	9,254.01	175.16	9,429.17
Dec	1,958.38	844.39	1,198.17	4,398.12	4.23	26.23	105.19	8,534.71	182.23	8,716.94
YTD	26,236.98	10,987.50	16,253.89	57,352.45	54.10	353.62	1,368.22	112,606.77	2,012.61	114,619.38
2014										
Jan	1,805.07	788.99	1,185.90	4,475.74	3.71	50.77	105.54	8,415.71	180.28	8,595.99
Feb	1,750.06	767.84	1,217.13	4,481.73	3.76	57.71	110.40	8,388.63	162.98	8,551.61
Mar	2,301.45	971.98	1,489.25	5,184.22	4.63	62.97	129.11	10,143.61	176.38	10,319.99
Apr	2,463.53	986.07	1,463.40	4,549.01	4.80	46.77	125.63	9,639.21	168.56	9,807.77
May	2,693.58	1,058.99	1,551.92	5,160.32	5.16	25.68	124.99	10,620.64	172.44	10,793.08
Jun	2,503.68	1,022.70	1,492.63	5,009.03	4.98	26.11	110.47	10,169.61	168.90	10,338.51
Jul	2,465.59	1,003.42	1,492.69	5,068.15	5.01	32.39	111.61	10,178.85	179.00	10,357.85
Aug	2,375.72	981.86	1,506.91	5,066.55	4.75	25.37	134.34	10,095.52	187.33	10,282.84
Sep	2,250.88	968.18	1,465.83	5,031.60	4.72	20.23	108.08	9,849.53	164.07	10,013.60
Oct	2,337.68	968.86	1,457.25	5,110.47	4.67	29.16	110.79	10,018.87	188.90	10,207.77
Nov	2,211.32	933.64	1,444.86	5,037.30	4.66	15.16	90.60	9,737.56	194.15	9,931.71
Dec	2,139.85	925.62	1,369.64	4,691.20	4.86	22.00	88.71	9,241.87	194.25	9,436.12
YTD	27,298.42	11,378.13	17,137.42	58,865.31	55.71	414.34	1,350.28	116,499.61	2,137.24	118,636.85

Source : PEA

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.3-6M
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2010										
Jan	2,427.75	1,188.89	1,799.34	5,250.28	371.12	43.65	178.04	11,259.07	174.14	11,433.21
Feb	2,464.57	1,213.87	1,812.60	5,201.10	391.16	48.48	138.72	11,270.50	159.62	11,430.12
Mar	2,872.62	1,347.54	1,983.63	5,992.72	416.43	55.49	136.24	12,804.67	170.74	12,975.41
Apr	3,134.39	1,381.43	1,937.75	5,356.57	399.27	42.42	129.78	12,381.62	166.10	12,547.72
May	3,304.33	1,451.91	1,963.63	5,934.12	440.15	27.34	189.97	13,311.45	167.30	13,478.76
Jun	3,007.30	1,378.59	1,971.92	5,729.60	476.14	27.45	215.48	12,806.47	161.78	12,968.25
Jul	2,906.59	1,352.32	2,078.71	5,943.46	472.27	30.43	110.06	12,893.83	172.12	13,065.95
Aug	2,761.56	1,296.06	1,943.32	5,804.85	441.20	11.57	202.24	12,460.79	171.05	12,631.84
Sep	2,701.78	1,281.55	1,950.22	5,755.87	464.50	8.52	172.95	12,335.39	159.35	12,494.74
Oct	2,709.98	1,281.78	1,886.98	5,917.09	415.56	9.46	182.53	12,403.39	179.44	12,582.82
Nov	2,436.59	1,187.91	1,807.05	5,634.80	374.05	9.62	202.29	11,652.32	171.35	11,823.67
Dec	2,489.04	1,224.00	1,860.45	5,518.33	387.53	20.87	187.73	11,687.95	180.69	11,868.64
YTD	33,216.49	15,585.85	22,995.61	68,038.79	5,049.39	335.29	2,046.02	147,267.44	2,033.69	149,301.13
2011										
Jan	2,340.05	1,156.94	1,773.37	5,503.94	347.90	46.87	191.80	11,360.88	183.49	11,544.37
Feb	2,360.22	1,162.93	1,775.22	5,419.94	354.11	54.53	157.02	11,283.98	165.96	11,449.94
Mar	2,697.40	1,284.66	1,958.60	6,089.75	392.67	47.47	165.25	12,635.79	186.89	12,822.68
Apr	2,741.36	1,251.24	1,910.74	5,382.54	348.20	36.92	131.27	11,802.28	175.12	11,977.40
May	3,045.57	1,396.44	2,108.69	5,981.21	413.51	14.96	113.82	13,074.19	177.65	13,251.84
Jun	2,912.87	1,375.34	2,097.69	5,935.94	467.35	14.23	115.86	12,919.28	170.65	13,089.93
Jul	2,932.90	1,370.25	2,079.73	6,072.40	461.11	20.69	141.80	13,078.89	176.32	13,255.21
Aug	2,901.32	1,361.35	2,087.83	6,064.82	456.42	10.78	147.72	13,030.24	181.20	13,211.44
Sep	2,839.45	1,327.19	2,069.89	6,054.84	496.65	5.74	139.67	12,933.44	179.45	13,112.89
Oct	2,799.15	1,300.83	2,049.64	5,425.08	397.37	5.62	119.41	12,097.11	180.29	12,277.39
Nov	2,705.22	1,252.19	1,895.98	4,900.67	389.63	10.92	93.16	11,247.78	192.79	11,440.57
Dec	2,523.94	1,206.83	1,852.50	5,110.79	363.29	27.98	137.91	11,223.24	198.58	11,421.82
YTD	32,799.46	15,446.19	23,659.90	67,941.92	4,888.22	296.71	1,654.70	146,687.10	2,168.39	148,855.49
2012										
Jan	2,640.59	1,245.53	1,987.26	5,386.77	351.02	46.33	195.12	11,852.62	190.93	12,043.55
Feb	2,745.48	1,300.40	2,015.25	5,734.39	392.17	50.42	193.27	12,431.37	178.03	12,609.40
Mar	3,187.72	1,456.88	2,264.88	6,291.81	431.01	50.92	267.96	13,951.18	186.31	14,137.49
Apr	3,301.55	1,432.53	2,172.69	5,601.92	371.30	38.24	209.62	13,127.85	177.27	13,305.12
May	3,468.65	1,523.73	2,307.96	6,353.63	431.07	22.67	223.83	14,331.53	179.95	14,511.48
Jun	3,069.48	1,403.04	2,211.37	6,166.71	443.47	20.76	206.85	13,521.68	171.26	13,692.94
Jul	3,045.42	1,395.49	2,284.80	6,325.81	456.69	32.41	187.34	13,727.95	177.30	13,905.26
Aug	3,005.39	1,380.27	2,208.57	6,151.49	424.95	32.86	238.82	13,442.34	180.04	13,622.38
Sep	2,886.68	1,342.69	2,159.12	6,109.61	460.52	11.51	210.14	13,180.27	170.59	13,350.86
Oct	3,029.85	1,506.90	2,501.31	6,254.45	8.71	23.50	189.91	13,514.64	189.07	13,703.71
Nov	3,071.71	1,528.08	2,525.01	6,161.83	13.01	18.99	190.60	13,509.24	191.83	13,701.07
Dec	2,994.68	1,497.76	2,450.04	5,797.86	14.87	28.51	213.20	12,996.92	198.80	13,195.72
YTD	36,447.21	17,013.29	27,088.26	72,336.28	3,798.79	377.11	2,526.65	159,587.59	2,191.39	161,778.98

Table 5.3-6M (Cont.)
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2013										
Jan	2,804.74	1,429.73	2,393.81	5,881.46	13.98	48.24	189.00	12,760.96	197.96	12,958.92
Feb	2,764.10	1,400.70	2,341.61	5,666.39	12.98	44.52	184.12	12,414.41	181.85	12,596.25
Mar	3,257.11	1,588.71	2,665.41	6,551.35	11.94	47.37	213.63	14,335.51	196.46	14,531.98
Apr	3,565.73	1,621.70	2,568.18	5,611.00	11.78	38.24	207.21	13,623.85	187.68	13,811.52
May	3,707.83	1,708.37	2,766.12	6,356.68	13.34	24.64	241.61	14,818.58	190.05	15,008.63
Jun	3,295.58	1,594.99	2,607.05	6,183.08	12.54	22.62	224.51	13,940.36	187.70	14,128.06
Jul	3,211.28	1,567.89	2,609.12	6,163.88	12.45	31.41	204.10	13,800.14	201.21	14,001.35
Aug	3,187.02	1,554.71	2,659.42	6,228.07	12.54	26.52	205.61	13,873.89	219.54	14,093.44
Sep	3,077.84	1,544.48	2,547.41	6,124.96	12.13	17.65	198.64	13,523.12	189.29	13,712.41
Oct	3,113.26	1,528.55	2,530.40	6,178.27	12.26	12.85	216.88	13,592.47	208.54	13,801.00
Nov	2,983.61	1,480.92	2,521.77	6,073.43	12.13	13.33	212.07	13,297.26	205.63	13,502.89
Dec	2,689.28	1,353.39	2,202.87	5,517.21	10.78	26.23	181.95	11,981.71	212.94	12,194.66
YTD	37,657.38	18,374.15	30,413.17	72,535.78	148.85	353.62	2,479.33	161,962.28	2,378.84	164,341.12
2014										
Jan	2,486.84	1,280.01	2,189.07	5,640.22	10.01	50.77	195.47	11,852.38	210.95	12,063.33
Feb	2,537.36	1,303.68	2,240.82	5,622.56	10.45	57.71	196.93	11,969.51	191.69	12,161.19
Mar	3,268.86	1,593.46	2,706.86	6,514.99	12.52	62.97	232.66	14,392.32	208.10	14,600.41
Apr	3,586.32	1,640.51	2,665.63	5,697.67	12.98	46.77	221.33	13,871.21	199.33	14,070.55
May	3,902.80	1,771.28	2,841.85	6,493.38	14.77	25.68	231.78	15,281.54	204.25	15,485.79
Jun	3,631.31	1,705.39	2,734.34	6,301.35	13.72	26.11	218.86	14,631.09	200.31	14,831.41
Jul	3,496.07	1,648.53	2,738.20	6,335.01	13.53	32.39	218.58	14,482.32	211.46	14,693.78
Aug	3,379.31	1,625.19	2,745.73	6,350.28	13.22	25.37	243.59	14,382.69	219.85	14,602.54
Sep	3,237.78	1,601.78	2,689.67	6,302.86	12.71	20.23	217.17	14,082.22	195.80	14,278.01
Oct	3,302.69	1,587.59	2,670.67	6,386.80	12.83	29.16	220.35	14,210.09	221.87	14,431.96
Nov	3,182.62	1,560.76	2,654.83	6,283.49	12.88	15.16	200.82	13,910.55	226.27	14,136.82
Dec	2,981.21	1,488.74	2,484.45	5,853.70	12.23	22.00	194.82	13,037.14	227.12	13,264.26
YTD	38,993.17	18,806.93	31,362.12	73,782.30	151.85	414.34	2,592.36	166,103.07	2,516.99	168,620.06

Source : MEA, PEA and EGAT

Remark : Since October 2012, electricity consumption of Government sector has been counted into Small/Medium/Large General Service due to a restructuring of electricity-tariff category.

Table 5.4-1M
Import of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1990	60.18	46.72	43.27	30.06	23.14	41.15	53.97	62.17	56.26	65.95	56.41	60.21	599.50
1991	40.98	42.69	41.99	55.24	35.24	40.22	69.66	85.75	56.57	50.27	49.49	25.00	593.11
1992	23.44	35.23	21.03	29.11	34.38	46.55	69.72	75.39	50.58	47.08	27.64	19.73	479.88
1993	22.76	15.83	20.70	24.69	31.91	45.45	77.84	116.29	120.09	82.62	37.28	49.06	644.51
1994	47.31	42.80	47.61	42.14	50.38	60.65	103.99	116.49	120.69	113.87	64.51	60.39	870.82
1995	44.81	46.85	40.29	38.78	39.00	41.04	54.34	93.07	104.83	83.30	57.68	55.13	699.12
1996	40.48	43.77	35.38	33.81	38.92	54.63	64.62	99.19	114.07	113.68	81.43	85.64	805.61
1997	45.76	40.48	32.41	43.66	44.02	42.26	69.28	99.79	104.66	105.17	66.29	51.87	745.63
1998	71.99	102.90	87.18	92.21	101.40	181.12	197.53	151.91	191.39	174.34	130.02	140.71	1,622.71
1999	102.68	63.18	61.91	76.95	177.15	199.06	241.72	258.48	277.66	283.14	262.92	250.83	2,255.66
2000	176.64	137.87	167.36	192.37	294.32	267.33	301.01	320.31	336.51	298.65	246.17	227.72	2,966.26
2001	206.11	158.36	171.13	138.52	205.79	279.94	318.69	316.53	312.74	302.73	257.96	213.27	2,881.76
2002	190.30	149.19	146.50	163.46	221.70	271.79	301.33	313.36	289.41	300.72	241.30	223.12	2,812.18
2003	189.80	140.37	146.97	114.73	174.74	223.71	237.11	259.51	284.30	298.83	221.68	181.65	2,473.41
2004	151.66	182.15	148.30	310.09	216.58	282.33	361.39	382.18	362.98	373.34	352.36	254.50	3,377.85
2005	234.07	193.96	304.44	311.02	282.50	409.15	434.85	489.89	493.78	376.64	440.68	400.93	4,371.89
2006	377.46	366.69	449.86	409.01	294.49	437.64	496.20	511.43	505.99	434.09	478.72	390.29	5,151.85
2007	335.50	278.82	386.01	365.28	400.04	333.76	422.92	335.66	273.48	502.59	435.95	418.37	4,488.36
2008	342.25	170.17	152.48	260.32	167.29	227.36	275.81	271.39	327.00	268.45	183.03	138.02	2,783.57
2009	171.11	106.10	130.43	108.28	147.45	182.69	245.53	275.08	205.88	273.76	336.01	277.76	2,460.09
2010	164.14	143.13	568.33	741.43	791.99	789.05	801.08	768.50	780.25	795.42	486.99	423.47	7,253.78
2011	412.36	638.01	789.54	1,019.12	1,075.41	1,072.22	1,315.34	792.65	1,120.57	1,164.63	909.59	464.96	10,774.41
2012	484.49	799.21	1,163.71	1,135.51	1,076.04	937.38	946.70	1,114.62	1,140.62	797.11	519.16	412.89	10,527.43
2013	362.23	555.80	818.24	1,140.10	1,310.01	1,268.21	1,297.32	1,515.48	1,596.69	1,341.60	1,044.41	321.70	12,571.79
2014	591.19	845.46	1,302.48	1,222.56	1,203.94	1,085.92	1,177.91	1,270.63	1,331.88	1,017.37	717.11	493.28	12,259.71

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)

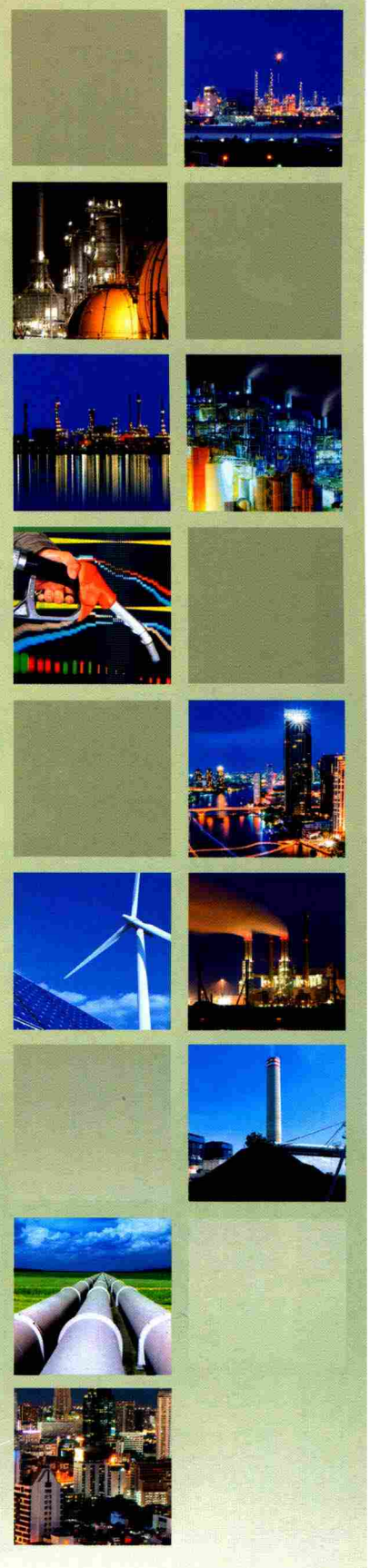
Table 5.4-2M
Export of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1990	2.10	1.98	2.35	3.61	2.39	2.29	2.36	2.44	2.41	2.41	2.25	2.33	28.92
1991	2.58	2.42	3.04	2.98	3.17	3.05	3.17	2.95	3.09	3.02	2.71	2.95	35.13
1992	3.05	3.16	4.11	4.12	3.98	3.41	3.31	3.32	3.33	3.19	3.05	3.34	41.36
1993	3.62	3.28	5.36	4.56	3.79	3.76	4.01	3.79	3.94	3.90	3.80	3.91	47.73
1994	4.15	4.31	5.54	6.14	5.41	4.44	4.47	4.50	4.51	4.53	4.47	4.97	57.44
1995	5.93	6.22	8.48	9.02	7.57	5.83	5.59	5.69	5.55	5.58	5.24	6.13	76.83
1996	7.21	7.06	9.30	8.19	7.12	6.99	7.13	6.91	6.00	6.38	5.92	6.25	84.47
1997	7.41	7.48	10.40	9.26	9.42	7.89	7.64	7.50	7.39	7.40	7.06	9.04	97.88
1998	12.21	11.87	15.46	14.10	12.18	10.31	9.59	9.39	9.15	10.69	9.96	12.68	137.60
1999	17.25	18.09	28.29	20.05	11.22	9.65	10.64	10.75	9.62	9.76	9.15	10.36	164.83
2000	13.75	15.18	19.22	14.82	11.51	10.63	10.88	10.96	9.82	10.45	10.29	12.41	149.92
2001	16.41	16.79	20.48	19.11	14.96	11.57	11.56	11.55	10.98	11.31	10.02	12.78	167.52
2002	16.36	18.48	24.94	21.08	18.76	13.09	13.62	11.91	11.47	11.98	11.36	14.78	187.84
2003	16.43	19.47	24.85	23.10	21.49	15.26	14.92	13.39	12.62	13.33	13.57	17.68	206.11
2004	22.95	23.16	33.08	28.07	30.52	17.10	14.39	14.10	13.73	14.29	17.27	24.40	253.06
2005	36.51	34.36	42.76	42.95	69.57	57.23	33.56	32.48	36.37	35.66	37.04	42.62	501.09
2006	50.87	48.47	55.40	53.06	53.01	46.33	42.03	42.10	43.64	40.36	53.19	57.67	586.13
2007	59.71	51.68	78.82	74.27	59.42	76.20	55.76	53.49	52.72	45.91	50.28	86.42	744.68
2008	86.76	79.18	100.63	103.29	79.93	63.47	71.02	73.23	65.09	69.34	72.64	96.50	961.09
2009	87.53	100.78	130.01	130.82	119.69	92.48	78.21	77.67	85.32	131.56	130.21	141.22	1,305.50
2010	151.42	150.09	155.92	156.38	160.84	143.20	108.20	53.00	56.19	51.50	57.56	69.34	1,313.65
2011	86.12	95.02	201.96	154.79	195.55	138.33	62.58	48.50	45.47	51.25	125.14	130.62	1,335.34
2012	93.50	100.51	164.03	173.11	159.91	118.78	99.11	86.92	80.30	143.84	165.84	149.28	1,535.14
2013	113.41	132.63	186.02	196.23	228.74	158.48	78.93	49.03	19.14	23.94	91.81	96.39	1,374.75
2014	115.65	131.59	216.62	198.67	250.76	189.00	98.25	36.88	50.86	65.10	94.66	145.74	1,593.79

Source : EGAT
Compiled by : Energy Policy and Planning Office (EPPO)





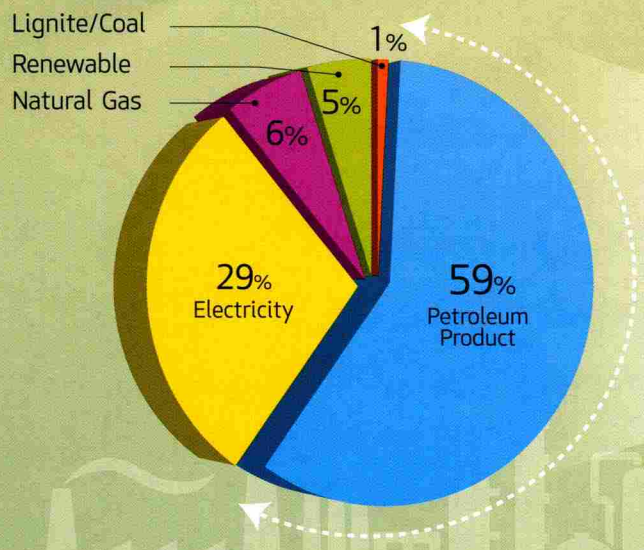
Chapter 6

Energy Value



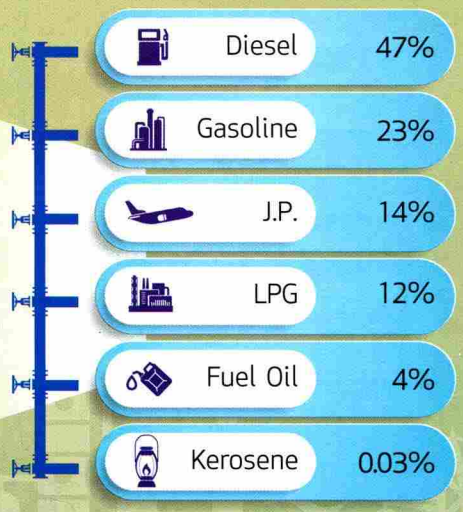
Energy Value

Share of Expenditure on Final Energy Consumption in 2014



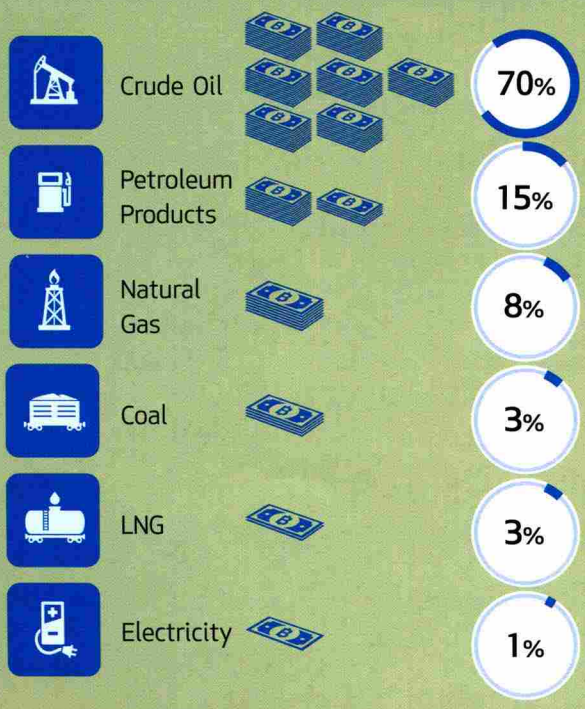
Total 2,280 Billion Bahts

Expenditure on Petroleum Products Consumption in 2014



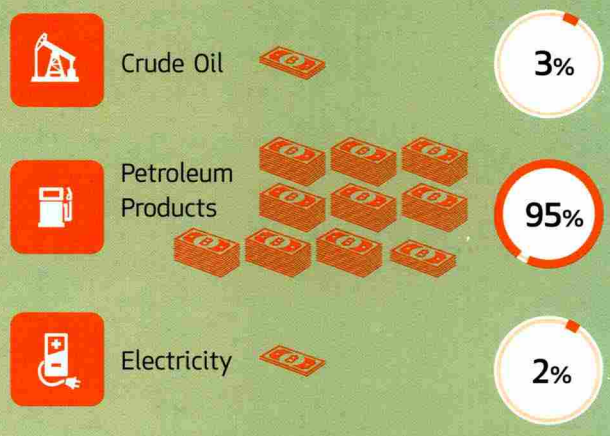
Total 1,337 Billion Bahts

Value of Energy Import in 2014



Total 1,399 Billion Bahts

Value of Energy Export in 2014



Total 315 Billion Bahts



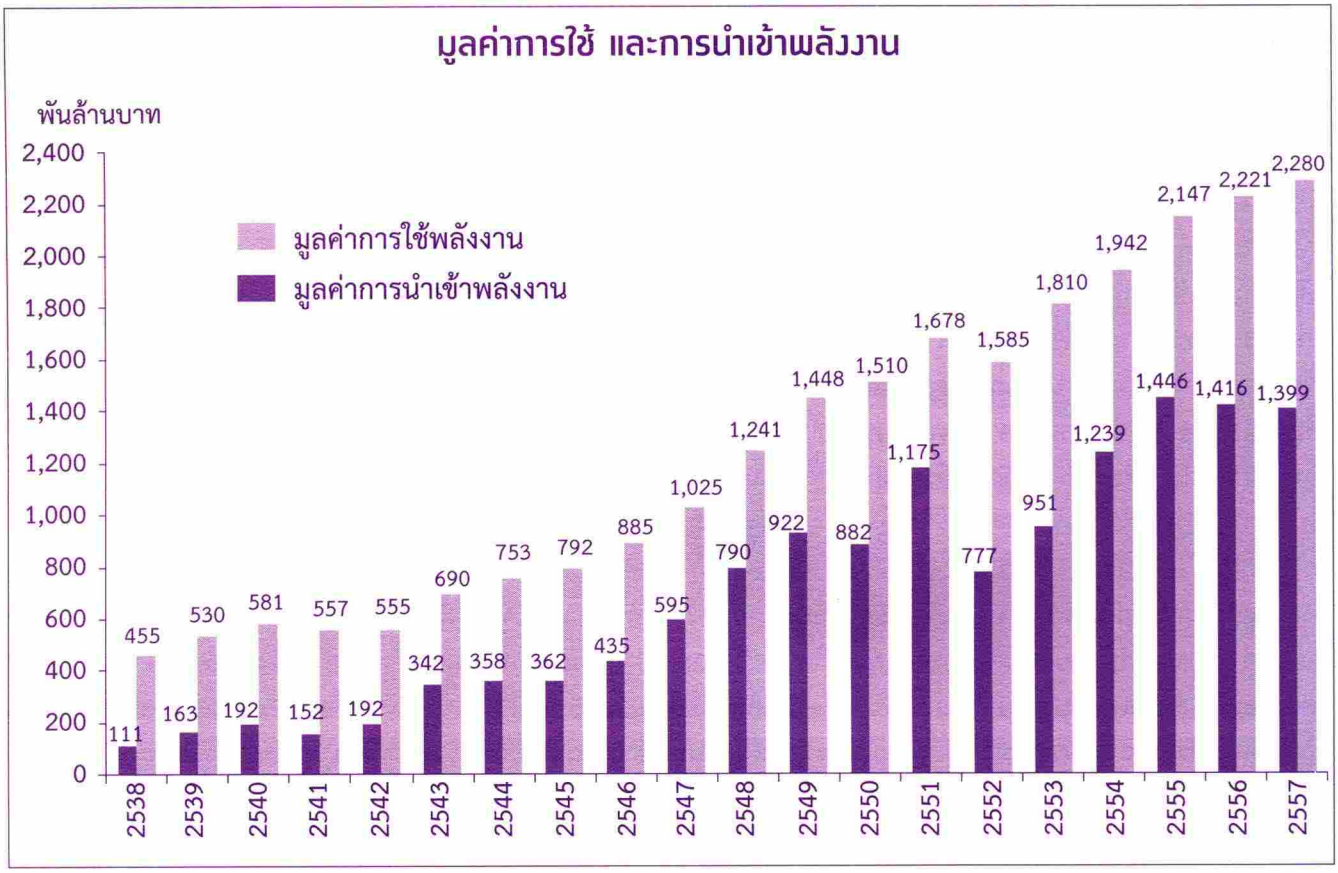
บทที่ 6

มูลค่าพลังงาน

มูลค่าการใช้พลังงาน ของไทยมีแนวโน้มเพิ่มขึ้นต่อเนื่องทุกปี ยกเว้นปี 2541-2542 ซึ่งเกิดวิกฤตเศรษฐกิจในไทย และปี 2552 ที่เกิดวิกฤตเศรษฐกิจในสหรัฐอเมริกาซึ่งส่งผลกระทบไปทั่วโลก ทำให้มูลค่าการใช้พลังงานในปีดังกล่าวลดลง โดยในปี 2557 มูลค่าการใช้พลังงานอยู่ที่ระดับ 2,280 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 2.6 โดยมูลค่าการใช้น้ำมันสำเร็จรูปมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 59 ของมูลค่าการใช้พลังงานทั้งหมด อยู่ที่ระดับ 1,337 พันล้านบาท เพิ่มขึ้นร้อยละ 0.7 จากปีก่อน รองลงมาเป็นมูลค่าการใช้ไฟฟ้าคิดเป็นสัดส่วนร้อยละ 29 อยู่ที่ระดับ 662 พันล้านบาท เพิ่มขึ้นร้อยละ 6.6 มูลค่าการใช้ก๊าซธรรมชาติและพลังงานทดแทนคิดเป็นสัดส่วนร้อยละ 5 เท่ากัน โดยมูลค่าการใช้ก๊าซธรรมชาติอยู่ที่ระดับ 124 พันล้านบาท เพิ่มขึ้นร้อยละ 2.5 ส่วนมูลค่าการใช้พลังงานทดแทนอยู่ที่ระดับ 123 พันล้านบาท ลดลงร้อยละ 2.3 และมูลค่าการใช้ลิกไนต์/ถ่านหินคิดเป็นสัดส่วนร้อยละ 2 อยู่ที่ระดับ 33 พันล้านบาท เพิ่มขึ้นร้อยละ 28.3

มูลค่าการนำเข้าพลังงาน ในปี 2557 มีมูลค่าการนำเข้าทั้งหมด 1,399 พันล้านบาท ลดลงจากปีก่อนร้อยละ 1.2 โดยมูลค่าการนำเข้าน้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 70 ของมูลค่าการนำเข้าทั้งหมด อยู่ที่ระดับ 980 พันล้านบาท ลดลงร้อยละ 8.6 รองลงมาเป็นน้ำมันสำเร็จรูปคิดเป็นสัดส่วนร้อยละ 15 อยู่ที่ระดับ 202 พันล้านบาท เพิ่มขึ้นถึงร้อยละ 45.5 เนื่องจากมีการปิดซ่อมบำรุงของโรงกลั่นน้ำมันหลายแห่ง ส่วนมูลค่าการนำเข้าก๊าซธรรมชาติคิดเป็นสัดส่วนร้อยละ 8 อยู่ที่ระดับ 117 พันล้านบาท เพิ่มขึ้นร้อยละ 4.7 มูลค่าการนำเข้าถ่านหินคิดเป็นสัดส่วนร้อยละ 4 อยู่ที่ระดับ 48 พันล้านบาท เพิ่มขึ้นร้อยละ 20.7 LNG มีมูลค่าการนำเข้า 33 พันล้านบาท คิดเป็นสัดส่วนร้อยละ 2 ลดลงร้อยละ 4.4 เนื่องจากปริมาณการนำเข้าลดลง และไฟฟ้านำเข้ามีมูลค่า 19 พันล้านบาท คิดเป็นสัดส่วนร้อยละ 1 เพิ่มขึ้นร้อยละ 2.0

ประเทศไทยมีสัดส่วนมูลค่าการนำเข้าพลังงานต่อมูลค่าการใช้พลังงานทั้งหมดในปี 2557 ระดับร้อยละ 61 ต่ำกว่าปีที่ผ่านมาซึ่งอยู่ที่ระดับร้อยละ 64



มูลค่าการใช้น้ำมันสำเร็จรูป ในปี 2557 มีมูลค่าการใช้อยู่ที่ระดับ 1,337 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 0.7 โดยมูลค่าการใช้น้ำมันดีเซลมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 47 ของมูลค่าการใช้น้ำมันสำเร็จรูปทั้งหมด เพิ่มขึ้นเล็กน้อยร้อยละ 0.1 รองลงมาเป็นน้ำมันเบนซินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 24 เพิ่มขึ้นร้อยละ 3.3 น้ำมันเครื่องบินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 14 ลดลงร้อยละ 1.5 LPG มีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 12 เพิ่มขึ้นร้อยละ 3.8 และน้ำมันเตามีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 3 ลดลงร้อยละ 6.7

มูลค่าการส่งออกพลังงาน ในปี 2557 มีมูลค่าการส่งออกอยู่ที่ระดับ 315 พันล้านบาท ลดลงจากปีก่อนร้อยละ 16.1 โดยมูลค่าการส่งออกน้ำมันสำเร็จรูปมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 95 ของมูลค่าการส่งออกทั้งหมด ลดลงร้อยละ 11.9 รองลงมาเป็นน้ำมันดิบมีสัดส่วนการส่งออกร้อยละ 3 ลดลงถึงร้อยละ 70.3 เป็นปริมาณการส่งออกที่ลดลงตามนโยบายรัฐบาลที่ขอให้บริษัทผู้ผลิตปิโตรเลียมลดปริมาณการส่งออกน้ำมันดิบเป็นการชั่วคราวในช่วงของการปฏิรูปประเทศ และไฟฟ้ามีสัดส่วนการส่งออกคิดเป็นร้อยละ 2 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 15.6

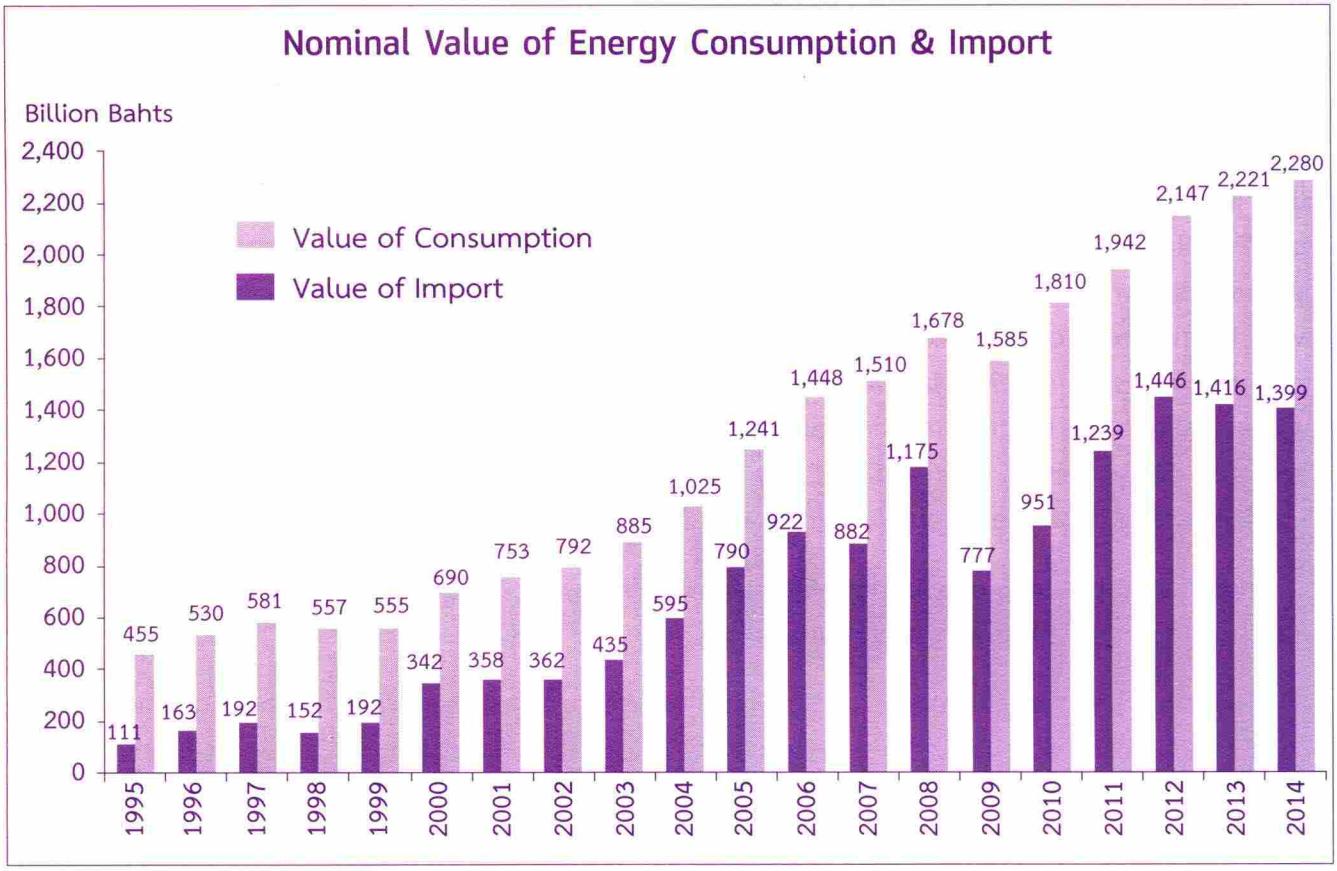
Chapter 6: Energy Value

Nominal Value of Energy Consumption. Thailand's value of energy consumption had been increasing each year, excepted in 1998-1999 due to the economic crisis in Thailand and the Hamburger Crisis in 2009, which affected to the many parts of the world. Then these caused the value of energy consumption to shrink during that period. In 2014, the nominal terms of energy consumption in Thailand totaled 2,280 billion Baht (approx. US$ 70.2 billion, at a rate of 32 THB/US$), an increase of 2.6% from that in the previous year. Petroleum product consumption was worth 1,337 billion Baht, an increase of 0.7% compared with the previous year, accounting for the largest share of 59% of the total energy consumption value. Next to it was the electricity consumption of which the nominal value was 662 billion Baht, an increase by 6.6%, accounting for a share of 29%. Natural gas and Renewable/alternative energy the same share of 5%. Natural gas consumption was worth 124 billion, an increase of 2.5% and Renewable/alternative consumption was worth 123 billion Baht, a decrease of 2.3%. Both accounted for Lignite/coal consumption was worth 33 billion Baht, an increase of 28.3%, holding a share of 2%.

Nominal Value of Energy Import. In 2014, total energy import into Thailand was worth 1,399 billion Baht, a decrease of 1.2% from that in the previous year.

The value of imported crude oil, which constituted the largest share (70%) of the total import value, was 980 billion Baht, accounting for a decrease of 8.6%. Next to it was that of Petroleum product import holding a share of 15%, worth 202 billion Baht, a considerable increase of 45.5% due to the shutdown of several oil refineries in Thailand. Natural gas import held a share of 8%, worth 117 billion Baht, accounting for an increase of 4.7%. Coal import which was worth 48 billion Baht, increased 20.7%, holding a share of 4%. Then LNG import was worth 33 billion Baht, accounting for a decrease of 4.4% due to the decrease of LNG import quantity, holding a share of 2%, and finally imported electricity was worth 19 billion Baht, accounting for an increase of 2.0%, but still holding a meager share of 1%.

In 2014, the ratio of energy import value to total energy consumption value in Thailand was 61%, decreasing 64% from the previous year.



Nominal Value of Petroleum Product Consumption. In 2014, the worth of petroleum product consumption was 1,337 billion Baht, increasing by 0.7% from that in 2013. The worth of diesel consumption increased by 0.1%, accounting for the largest share (47%) of the total petroleum product consumption value. Next to it was gasoline, holding a share of 24%, an increase of 3.3%. Jet petroleum had a share of 14%, a decreasing by 1.5%, LPG holding a share of 12%, increasing by 3.8%; and fuel oil, holding a share of 3%, decreasing by 6.7%.

Nominal Value of Energy Export. In 2014, the nominal value of energy export stood at 315 billion Baht, decreasing by 16.1% from that in the previous year. Petroleum product export accounted for the largest share, i.e. 95%, of the total energy export value, accounting for a decrease of 11.9%. Next to it was crude oil, holding a share of 3%, a considerable decrease of 70.3% due to the decrease of crude oil export quantity by government policy during the national reform period; and then electricity, holding only 2%, increasing of 15.6%.

Table 6.1-1Y
Expenditure on Final Energy Consumption

Unit : Million Bahts

Year	Petroleum Products	Electricity	Natural Gas	Lignite/Coal	Renewable*	Total
1990	132,004	62,452	567	2,093	41,165	238,281
1991	161,577	73,201	827	2,529	41,125	279,260
1992	171,865	87,354	1,200	2,841	60,461	323,722
1993	188,741	98,239	1,519	3,595	65,323	357,417
1994	199,027	111,531	2,067	4,835	72,738	390,198
1995	232,997	136,231	3,059	5,821	76,815	454,922
1996	280,397	153,410	3,398	7,511	85,536	530,253
1997	318,671	162,115	4,685	7,819	87,341	580,630
1998	307,042	175,418	4,622	5,870	63,635	556,587
1999	310,021	167,864	5,942	6,202	65,235	555,265
2000	408,307	199,059	10,283	5,667	66,958	690,273
2001	430,849	232,655	11,396	7,569	70,255	752,723
2002	452,021	247,528	13,413	8,767	69,932	791,661
2003	515,778	267,559	16,404	10,033	75,122	884,897
2004	605,809	302,830	16,361	13,349	86,235	1,024,584
2005	775,019	330,086	22,275	18,438	95,541	1,241,359
2006	917,128	387,213	28,880	18,024	97,142	1,448,386
2007	957,276	392,669	35,110	23,128	102,103	1,510,286
2008	1,093,060	397,924	53,867	28,673	103,991	1,677,514
2009	960,923	431,165	49,272	28,611	115,268	1,585,238
2010	1,107,797	474,671	68,724	29,738	129,370	1,810,299
2011	1,221,661	471,604	97,666	31,273	119,673	1,941,876
2012	1,312,207	562,655	122,509	31,607	118,276	2,147,253
2013	1,326,937	621,328	121,005	26,096	125,962	2,221,328
2014	1,336,615	662,474	123,964	33,483	123,100	2,279,636

* Estimate

Source : PTT, EGAT, DOEB, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2Y
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Year	Gasoline			Kerosene	Diesel	J.P.	Fuel Oil	LPG	Total
	Regular	Premium	Gasoline						
1990	16,379	15,961	32,340	838	65,596	15,610	8,491	9,129	132,004
1991	19,159	18,902	38,062	987	79,712	21,923	10,138	10,756	161,577
1992	19,215	20,489	39,703	1,004	80,493	24,334	14,381	11,950	171,865
1993	19,260	25,118	44,377	960	92,436	25,896	12,161	12,910	188,741
1994	18,247	29,527	47,775	969	94,884	26,707	14,739	13,953	199,027
1995	19,572	37,445	57,017	878	112,987	28,681	18,085	15,350	232,997
1996	19,161	45,183	64,344	985	142,109	33,993	20,733	18,233	280,397
1997	19,841	56,781	76,622	951	158,139	39,547	23,515	19,897	318,671
1998	24,571	59,090	83,661	648	138,132	38,846	23,791	21,964	307,042
1999	26,873	57,311	84,184	616	139,572	39,100	27,089	19,460	310,021
2000	49,214	53,094	102,308	741	192,641	52,845	37,224	22,547	408,307
2001	55,815	46,503	102,318	904	203,311	59,339	36,391	28,586	430,849
2002	62,104	45,662	107,765	1,264	210,469	58,802	39,697	34,024	452,021
2003	71,232	51,218	122,450	604	246,183	62,995	45,613	37,933	515,778
2004	84,390	57,195	141,585	454	285,563	82,786	52,502	42,920	605,809
2005	100,458	66,329	166,787	520	386,981	105,301	65,921	49,510	775,019
2006	121,885	71,531	193,415	562	469,322	128,856	68,989	55,984	917,128
2007	132,532	71,935	204,467	526	478,947	142,742	64,252	66,343	957,276
2008	138,594	81,754	220,348	593	543,011	175,118	70,393	83,598	1,093,060
2009	124,046	90,786	214,832	657	438,319	164,897	52,717	89,501	960,923
2010	154,621	94,415	249,036	572	522,626	176,736	55,178	103,648	1,107,797
2011	184,308	87,182	271,490	496	565,483	193,917	57,734	132,542	1,221,661
2012	210,016	88,471	298,487	484	625,687	183,075	60,821	143,653	1,312,207
2013	121,836	182,615	304,451	390	624,676	197,243	50,682	149,495	1,326,937
2014	130,975	183,394	314,369	380	625,076	194,279	47,284	155,227	1,336,615

Remarks : Final Energy Consumption
Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3Y
Value of Energy Import

Unit : Million Bahts

Year	Crude Oil	Petroleum Products	Natural Gas	Coal	Electricity	LNG	Total
1990	42,792	39,064	0	646	0	0	82,502
1991	39,855	39,039	0	719	0	0	79,613
1992	48,644	33,458	0	649	0	0	82,751
1993	51,024	37,254	0	1,019	0	0	89,298
1994	55,363	32,839	0	1,719	0	0	89,920
1995	72,122	37,203	0	2,174	0	0	111,499
1996	121,937	37,101	0	3,985	0	0	163,023
1997	166,545	20,772	0	3,813	710	0	191,840
1998	137,100	10,538	0	2,068	2,494	0	152,200
1999	169,633	15,122	0	4,010	3,431	0	192,196
2000	285,862	39,028	7,839	5,068	4,671	0	342,468
2001	284,373	30,668	30,559	7,489	4,701	0	357,790
2002	286,953	27,854	35,073	7,872	4,474	0	362,226
2003	346,057	33,168	42,635	9,370	4,159	0	435,389
2004	486,627	44,677	46,053	12,275	5,659	0	595,291
2005	644,933	60,085	62,827	15,422	7,114	0	790,382
2006	753,783	63,260	77,843	18,896	8,294	0	922,076
2007	715,789	50,675	78,901	29,656	7,414	0	882,436
2008	1,002,667	41,063	90,506	36,456	4,540	0	1,175,232
2009	623,024	29,219	84,208	36,935	3,623	0	777,009
2010	751,467	67,517	84,481	39,361	8,157	0	950,983
2011	977,374	96,077	93,493	42,336	13,860	15,993	1,239,133
2012	1,119,338	124,171	116,325	46,702	15,440	24,023	1,445,999
2013	1,072,221	139,021	111,911	39,714	18,546	34,827	1,416,239
2014	979,704	202,265	117,172	47,947	18,919	33,304	1,399,311

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4Y
Value of Energy Export

Unit : Million Bahts

Year	Crude Oil	Petroleum Products	Electricity	Total
1992	0	0	71	71
1993	0	0	82	82
1994	0	0	100	100
1995	0	0	142	142
1996	0	0	163	163
1997	0	0	188	188
1998	0	0	292	292
1999	0	0	334	334
2000	0	0	329	329
2001	14,449	0	407	14,855
2002	18,075	0	451	18,526
2003	29,356	0	500	29,856
2004	33,883	86,459	647	120,989
2005	52,858	111,534	1,328	165,721
2006	56,835	160,926	1,730	219,491
2007	45,812	159,077	2,145	207,034
2008	56,575	260,384	2,801	319,760
2009	27,410	205,286	4,068	236,764
2010	26,107	231,864	4,087	262,058
2011	38,926	278,257	4,140	321,322
2012	51,531	344,384	5,223	401,138
2013	29,115	342,208	4,424	375,747
2014	8,653	301,425	5,116	315,194

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-1M
Expenditure on Final Energy Consumption

Unit : Million Bahts

2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	93,574	90,173	100,374	94,032	91,902	87,655	89,592	89,091	84,576	88,775	95,328	102,724	1,107,796
Electricity	36,065	36,632	41,356	40,092	42,849	41,551	41,509	39,909	39,819	39,902	37,599	37,389	474,671
Natural Gas	5,261	5,361	6,141	5,387	5,745	5,875	5,821	5,869	5,778	5,610	5,732	6,143	68,724
Lignite/Coal	2,023	1,955	2,592	2,763	2,666	2,595	2,741	2,384	2,771	2,450	2,612	2,187	29,738
Renewable Energy*	12,102	11,811	11,224	10,331	10,238	10,138	10,107	10,106	10,122	10,145	11,068	11,980	129,370
Total	**149,024**	**145,932**	**161,687**	**152,605**	**153,401**	**147,813**	**149,769**	**147,359**	**143,066**	**146,882**	**152,339**	**160,422**	**1,810,298**

2011													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	104,239	98,010	109,892	106,298	105,151	102,618	103,537	102,235	94,244	94,305	94,217	106,913	1,221,661
Electricity	36,107	35,503	39,976	37,156	42,923	42,505	41,706	41,938	42,002	39,992	35,458	36,340	471,604
Natural Gas	6,263	6,077	7,736	7,558	8,455	8,677	8,856	8,989	9,178	8,857	8,162	8,857	97,666
Lignite/Coal	2,386	2,411	2,835	2,583	2,537	3,113	2,523	2,848	2,513	2,383	2,623	2,517	31,273
Renewable Energy*	10,878	10,684	10,707	10,314	9,683	9,270	8,793	9,219	9,251	9,276	10,352	11,246	119,673
Total	**159,873**	**152,685**	**171,148**	**163,908**	**168,749**	**166,184**	**165,415**	**165,230**	**157,188**	**154,813**	**150,812**	**165,872**	**1,941,876**

2012													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	108,988	109,812	119,921	112,506	113,386	104,038	104,323	106,604	100,095	106,967	109,961	115,607	1,312,207
Electricity	38,333	41,523	44,882	43,257	47,214	48,404	48,867	48,345	49,630	51,164	51,618	49,420	562,655
Natural Gas	9,597	9,560	10,239	10,406	11,102	10,566	10,455	10,130	10,069	10,388	10,249	9,749	122,509
Lignite/Coal	2,781	2,398	2,448	2,722	2,945	2,748	2,725	2,623	2,644	2,632	2,583	2,358	31,607
Renewable Energy*	10,997	10,925	10,867	9,776	9,237	9,150	9,140	9,162	9,151	9,152	9,725	10,994	118,275
Total	**170,695**	**174,218**	**188,357**	**178,667**	**183,884**	**174,907**	**175,510**	**176,863**	**171,589**	**180,302**	**184,135**	**188,128**	**2,147,253**

2013													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	110,419	107,223	119,006	110,700	114,312	105,169	110,522	108,643	102,125	108,785	112,073	117,961	1,326,937
Electricity	49,072	47,786	54,725	53,103	56,437	52,651	52,200	52,575	52,354	52,534	51,449	46,443	621,328
Natural Gas	9,920	9,043	10,111	9,491	9,900	9,641	10,818	10,403	10,542	10,682	10,101	10,354	121,005
Lignite/Coal	1,955	1,634	1,698	1,978	2,084	2,333	2,304	2,449	2,366	2,649	2,408	2,241	26,096
Renewable Energy*	11,914	11,682	11,585	10,201	9,807	9,741	9,724	9,740	9,792	9,834	10,413	11,529	125,962
Total	**183,280**	**177,367**	**197,125**	**185,472**	**192,540**	**179,534**	**185,567**	**183,811**	**177,179**	**184,484**	**186,443**	**188,527**	**2,221,328**

2014													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	119,385	107,635	119,417	114,842	117,766	107,551	110,852	109,713	105,114	107,553	106,559	110,228	1,336,615
Electricity	46,397	46,710	56,187	54,750	60,895	59,298	58,407	57,600	56,739	57,157	56,055	52,279	662,474
Natural Gas	9,938	9,567	10,121	9,905	10,368	10,208	10,810	11,017	11,214	10,917	10,052	9,847	123,964
Lignite/Coal	2,410	2,409	2,324	2,721	3,223	2,637	2,982	2,772	3,104	3,163	2,690	3,048	33,483
Renewable Energy*	11,841	11,720	11,613	10,141	9,461	9,356	9,348	9,362	9,356	9,388	9,888	11,625	123,100
Total	**189,971**	**178,041**	**199,662**	**192,360**	**201,712**	**189,050**	**192,398**	**190,464**	**185,527**	**188,178**	**185,244**	**187,028**	**2,279,636**

* Estimate
Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2M
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Gasoline	20,402	20,173	21,596	21,328	20,277	20,264	20,863	20,381	19,357	20,176	21,191	23,028	249,036
-Regular	12,040	12,232	13,344	13,142	12,644	12,676	13,019	12,706	12,179	12,688	13,401	14,550	154,621
-Premium	8,362	7,941	8,251	8,186	7,632	7,588	7,844	7,675	7,178	7,488	7,790	8,478	94,415
Kerosene	68	53	56	40	70	43	39	35	40	44	41	43	572
Diesel	43,094	42,458	48,048	45,214	45,646	41,784	42,158	40,299	38,404	40,390	45,659	49,472	522,626
J.P.	16,187	14,881	16,321	14,395	12,828	12,759	13,675	14,889	13,844	14,979	15,304	16,674	176,736
Fuel Oil	4,755	4,892	5,636	4,805	4,723	4,337	4,630	4,460	4,111	4,215	4,477	4,138	55,178
LPG	9,067	7,716	8,719	8,251	8,360	8,468	8,226	9,026	8,820	8,971	8,655	9,369	103,648
Total	93,574	90,173	100,374	94,032	91,902	87,655	89,592	89,091	84,576	88,775	95,328	102,724	1,107,796
2011													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Gasoline	22,626	21,969	23,663	24,479	24,008	24,057	23,972	23,997	21,300	20,227	19,011	22,182	271,490
-Regular	14,433	14,095	15,231	15,743	15,517	15,719	15,539	16,139	15,793	15,438	14,602	16,058	184,308
-Premium	8,193	7,874	8,432	8,736	8,491	8,337	8,433	7,857	5,507	4,788	4,408	6,124	87,182
Kerosene	39	39	42	38	34	39	47	45	47	42	43	40	495
Diesel	48,562	44,992	51,180	49,786	50,584	48,165	45,603	45,364	42,029	41,670	45,414	52,133	565,483
J.P.	18,212	16,481	18,127	16,280	14,873	14,680	15,716	15,950	15,192	15,612	15,722	17,071	193,917
Fuel Oil	4,213	5,185	5,489	4,431	4,148	4,712	5,951	4,888	4,460	5,432	3,943	4,881	57,734
LPG	10,586	9,345	11,392	11,283	11,504	10,965	12,248	11,991	11,215	11,322	10,085	10,605	132,542
Total	104,239	98,010	109,892	106,298	105,151	102,618	103,537	102,235	94,244	94,305	94,217	106,913	1,221,661
2012													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Gasoline	23,072	23,353	25,764	25,174	24,858	23,791	24,421	25,547	23,115	25,474	25,773	28,145	298,487
-Regular	16,581	16,709	18,515	17,900	17,796	17,018	17,290	17,802	15,839	17,727	17,828	19,011	210,016
-Premium	6,492	6,644	7,249	7,273	7,062	6,773	7,131	7,745	7,276	7,747	7,946	9,134	88,470
Kerosene	40	51	51	47	46	37	36	30	32	36	42	36	484
Diesel	51,643	53,168	58,765	55,263	55,128	50,291	48,998	49,491	46,426	49,611	52,217	54,687	625,687
J.P.	16,713	16,920	17,832	15,224	13,935	13,496	14,028	14,417	13,653	14,635	15,505	16,717	183,075
Fuel Oil	5,537	4,717	5,248	4,456	7,075	5,341	5,423	4,593	4,680	4,843	4,689	4,220	60,821
LPG	11,982	11,602	12,262	12,343	12,345	11,081	11,416	12,526	12,190	12,368	11,735	11,802	143,653
Total	108,988	109,812	119,921	112,506	113,386	104,038	104,323	106,604	100,095	106,967	109,961	115,607	1,312,207

Table 6.1-2M (Cont.)
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

2013													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Gasoline	21,831	23,751	26,784	25,201	25,707	25,200	27,062	27,199	24,152	25,355	25,416	26,793	304,451
-Regular	8,877	9,232	10,490	9,846	10,039	9,972	10,857	10,984	9,905	10,305	10,379	10,951	121,836
-Premium	12,955	14,519	16,294	15,356	15,669	15,228	16,204	16,215	14,247	15,050	15,037	15,842	182,615
Kerosene	39	31	35	30	30	29	34	36	27	32	34	33	390
Diesel	54,875	50,559	57,156	53,054	56,554	49,988	51,163	48,747	45,799	49,816	52,191	54,775	624,676
J.P.	17,513	16,521	17,642	15,784	15,840	14,450	15,678	16,261	15,605	16,291	17,526	18,133	197,243
Fuel Oil	4,031	4,452	4,965	4,998	3,903	3,531	4,103	4,354	4,112	3,866	3,834	4,532	50,682
LPG	12,131	11,909	12,426	11,632	12,278	11,970	12,482	12,047	12,430	13,424	13,072	13,695	149,495
Total	110,419	107,223	119,006	110,700	114,312	105,169	110,522	108,643	102,125	108,785	112,073	117,961	1,326,937
2014													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Gasoline	26,341	24,268	27,487	27,209	27,775	26,191	27,972	27,812	25,584	25,562	24,007	24,162	314,369
-Regular	10,959	10,131	11,415	11,247	11,514	10,931	11,616	11,594	10,716	10,703	10,093	10,056	130,975
-Premium	15,382	14,137	16,073	15,962	16,261	15,260	16,356	16,218	14,868	14,859	13,913	14,105	183,393
Kerosene	34	33	35	28	32	35	30	32	27	32	32	31	380
Diesel	55,065	50,919	56,233	54,422	56,737	50,751	50,828	49,251	48,280	49,490	50,446	52,654	625,076
J.P.	18,812	17,068	18,230	16,599	14,989	13,675	14,690	15,469	14,448	15,758	17,035	17,506	194,279
Fuel Oil	5,353	3,800	4,226	3,488	4,271	4,140	3,354	3,844	3,954	3,986	3,428	3,440	47,284
LPG	13,780	11,548	13,205	13,096	13,962	12,760	13,979	13,306	12,820	12,724	11,611	12,436	155,227
Total	119,385	107,635	119,417	114,842	117,766	107,551	110,852	109,713	105,114	107,553	106,559	110,228	1,336,615

Remarks : Final Energy Consumption

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3M
Value of Energy Import

Unit : Million Bahts

2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	61,323	60,116	58,100	76,338	60,066	63,314	59,100	61,968	56,355	56,070	63,825	74,891	751,467
Pet. Products	3,762	3,108	7,158	6,266	7,542	6,827	4,552	5,277	5,626	7,009	4,169	6,222	67,517
Natural Gas	6,026	6,990	5,239	7,436	7,968	7,202	8,073	7,469	7,616	7,116	6,403	6,942	84,481
Coal	2,702	3,087	3,282	4,953	3,209	2,860	2,643	2,272	3,783	3,579	3,076	3,914	39,361
Electricity	223	186	739	932	207	993	1,019	1,004	1,108	512	664	571	8,157
Total	**74,037**	**73,487**	**74,518**	**95,925**	**78,993**	**81,196**	**75,387**	**77,989**	**74,488**	**74,285**	**78,137**	**92,539**	**950,983**

2011													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	69,178	62,257	80,347	92,784	98,123	80,322	88,088	95,282	75,827	75,010	79,582	80,574	977,374
Pet. Products	6,608	9,149	7,955	6,435	9,518	6,732	8,344	7,760	9,715	8,177	8,723	6,960	96,077
Natural Gas	5,413	6,251	7,244	7,557	8,623	8,428	9,389	9,010	9,175	7,940	7,679	6,785	93,493
Coal	3,678	4,064	3,518	3,624	3,876	4,548	2,927	2,721	4,266	2,617	3,645	2,852	42,336
Electricity	717	725	1,002	1,251	1,394	1,415	1,851	129	1,459	1,374	990	1,553	13,860
LNG	0	0	0	0	1,037	2,385	3,204	4,119	1,974	1,391	1,884	0	15,993
Total	85,594	82,446	100,066	111,650	122,571	103,829	113,804	119,020	102,416	96,509	102,504	98,723	1,239,133

2012													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	100,430	103,967	113,320	105,288	97,639	88,560	79,694	83,469	80,533	95,358	79,659	91,421	1,119,338
Pet. Products	7,161	13,104	12,417	15,761	10,367	6,457	8,569	13,411	9,859	9,349	10,027	7,689	124,171
Natural Gas	6,984	8,595	10,532	6,666	10,168	11,239	10,544	10,717	9,116	11,126	10,649	9,988	116,325
Coal	3,590	4,065	3,714	5,238	4,164	3,215	3,589	4,619	4,096	5,222	3,062	2,128	46,702
Electricity	1,074	1,060	1,688	1,709	1,569	1,422	1,390	1,521	1,531	1,130	779	568	15,440
LNG	2,132	1,523	3,144	0	2,048	4,074	3,289	1,754	1,750	1,245	1,209	1,855	24,023
Total	121,371	132,313	144,816	134,661	125,955	114,967	107,075	115,491	106,885	123,430	105,385	113,649	1,445,999

Table 6.1-3M (Cont.)
Value of Energy Import

Unit : Million Bahts

2013													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	96,652	84,696	97,538	86,333	77,259	77,382	78,590	102,302	82,365	97,287	99,672	92,144	1,072,221
Pet. Products	11,448	10,674	12,748	8,746	13,692	12,976	11,956	12,472	11,677	14,752	7,722	10,157	139,021
Natural Gas	9,318	7,456	10,180	6,322	9,736	9,289	9,475	10,097	10,213	10,423	10,378	9,026	111,911
Coal	3,773	2,337	1,252	2,173	3,666	4,995	3,491	4,258	2,971	3,965	3,003	3,830	39,714
Electricity	496	852	1,268	1,772	2,048	1,948	1,874	2,223	2,223	1,908	1,457	478	18,546
LNG	1,914	2,225	4,358	5,013	1,653	4,151	4,827	1,448	1,601	3,690	1,450	2,496	34,827
Total	123,602	108,240	127,343	110,360	108,054	110,741	110,213	132,800	111,049	132,025	123,682	118,132	1,416,239

2014													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	102,127	89,828	82,224	84,269	91,040	74,266	71,134	88,229	92,368	77,024	73,805	53,390	979,704
Pet. Products	17,420	18,686	18,209	16,532	21,910	18,981	21,725	19,903	14,223	15,572	10,293	8,808	202,265
Natural Gas	4,840	7,112	9,396	8,965	9,748	9,031	8,648	11,820	12,448	11,948	12,174	11,041	117,172
Coal	3,362	3,839	4,500	3,780	4,815	4,641	4,731	3,132	4,206	4,254	2,762	3,926	47,947
Electricity	862	1,275	1,963	1,878	1,911	1,801	1,887	1,854	1,952	1,591	1,162	781	18,919
LNG	2,675	2,774	2,834	5,523	4,567	4,076	2,764	2,804	1,121	1,977	2,189	0	33,304
Total	131,287	123,515	119,127	120,947	133,991	112,797	110,889	127,743	126,318	112,366	102,385	77,946	1,399,311

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4M
Value of Energy Export

Unit : Million Baht

2010													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,661	503	2,701	2,135	2,287	1,830	3,287	2,239	3,115	1,197	2,173	1,980	26,107
Electricity	466	470	486	488	500	448	337	164	175	160	179	213	4,087
Pet. Products	11,853	12,517	15,746	20,187	18,105	22,101	21,961	22,949	24,654	21,183	20,828	19,781	231,864
Total Export	**14,980**	**13,490**	**18,933**	**22,811**	**20,892**	**24,379**	**25,585**	**25,351**	**27,944**	**22,540**	**23,180**	**21,974**	**262,058**

2011													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	2,609	2,887	2,676	5,398	2,798	3,528	1,012	4,417	3,079	4,127	3,508	2,887	38,926
Electricity	264	288	616	469	614	441	193	151	143	166	374	421	4,140
Pet. Products	18,005	9,289	17,678	23,563	25,812	20,426	29,667	35,017	30,245	19,536	19,266	29,753	278,257
Total Export	**20,878**	**12,464**	**20,970**	**29,431**	**29,223**	**24,395**	**30,872**	**39,585**	**33,467**	**23,828**	**23,148**	**33,061**	**321,322**

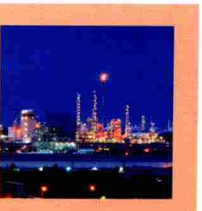
2012													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	7,326	6,668	2,769	5,407	5,971	3,122	5,482	3,418	2,656	2,452	3,683	2,578	51,531
Electricity	289	327	508	549	510	412	341	304	294	529	607	552	5,223
Pet. Products	27,732	29,065	30,872	31,619	28,991	31,202	23,896	24,369	32,258	28,999	29,974	25,407	344,384
Total Export	**35,347**	**36,060**	**34,150**	**37,574**	**35,472**	**34,736**	**29,719**	**28,091**	**35,208**	**31,980**	**34,264**	**28,537**	**401,138**

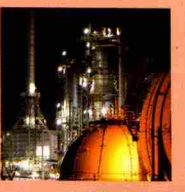
2013													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	3,340	3,382	4,796	1,749	2,126	2,190	2,786	2,712	0	3,919	1,281	833	29,115
Electricity	364	426	592	642	741	506	253	157	62	77	295	311	4,424
Pet. Products	22,463	24,654	29,331	25,872	21,156	19,302	28,275	37,078	33,652	30,944	34,138	35,342	342,208
Total Export	**26,168**	**28,462**	**34,718**	**28,263**	**24,023**	**21,998**	**31,314**	**39,947**	**33,714**	**34,940**	**35,714**	**36,487**	**375,747**

2014													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Crude Oil	1,786	0	1,381	2,411	1,054	1,379	0	643	0	0	0	0	8,653
Electricity	370	420	695	644	795	616	316	118	164	209	302	466	5,116
Pet. Products	25,673	20,263	25,102	20,721	25,689	26,687	22,917	32,421	30,833	26,375	21,731	23,013	301,425
Total Export	**27,829**	**20,683**	**27,179**	**23,776**	**27,538**	**28,681**	**23,233**	**33,182**	**30,997**	**26,584**	**22,033**	**23,479**	**315,194**

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)









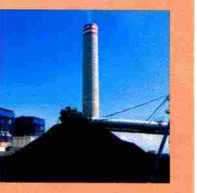








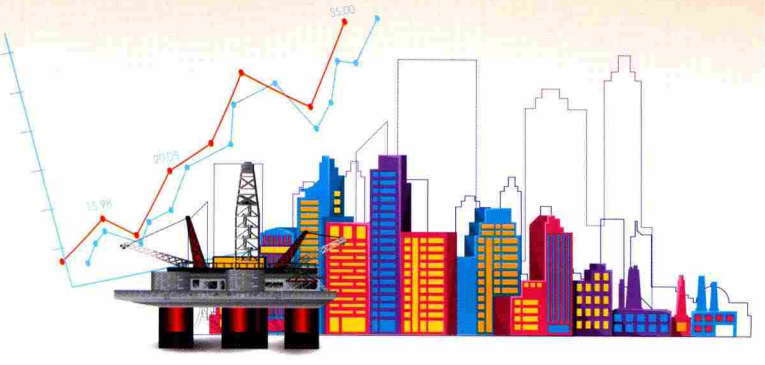






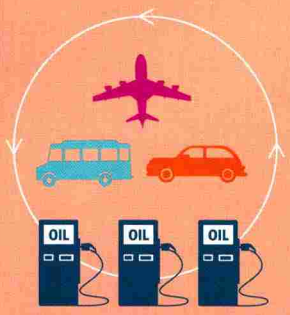


Chapter 7
Energy and Economics



Energy and Economics

2014



		Billion Bahts
GDP at Current Prices	12,141.1	
GDP at 1988 Prices	5,075.6	
Population (Million People)	68.6	

Export
7,314.7 Billion Bahts

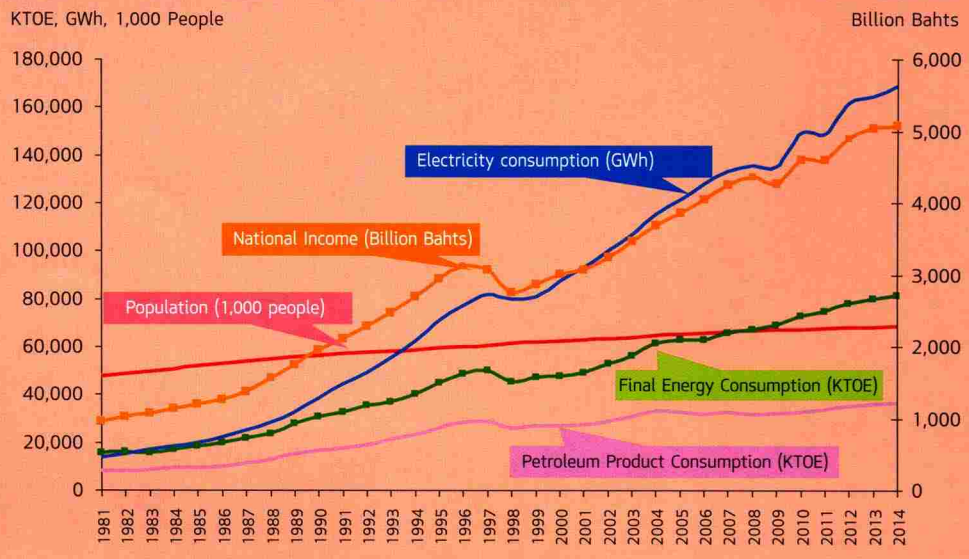


Import
7,410.5 Billion Bahts

		%
Goods and Services	6,011.2	81
Energy	1,399.3	19
Crude	979.7	70
Petroleum Products	202.3	15
Natural Gas/LNG	150.5	11
Coal	47.9	3
Electricity	18.9	1

Unit : Billion Bahts

Final Energy Consumption, National Income and Population



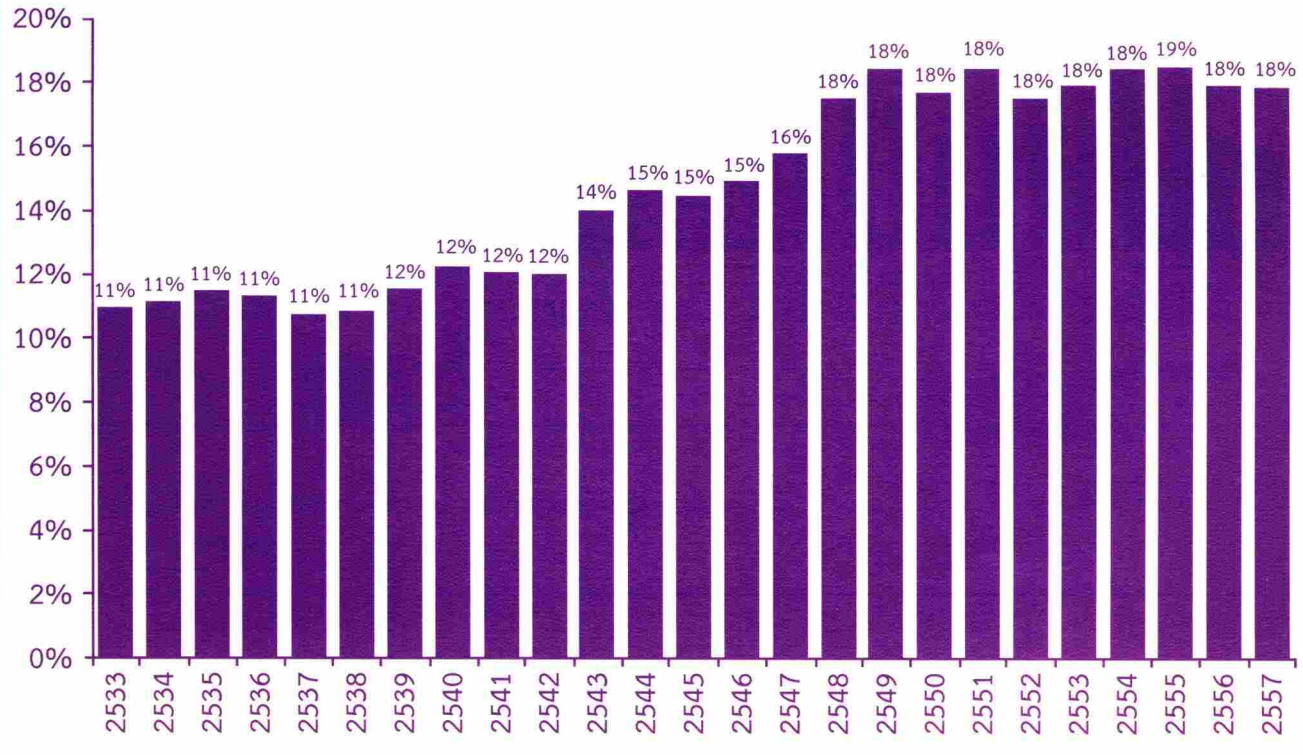
บทที่ 7

พลังงานกับเศรษฐกิจ

อัตราการเจริญเติบโตทางเศรษฐกิจของไทย (GDP at constant 1988 prices) ปี 2557 ขยายตัวอยู่ที่ร้อยละ 0.7 เนื่องจากสถานการณ์ทางการเมืองที่ยืดเยื้อในช่วงห้าเดือนแรกของปี อย่างไรก็ตามในช่วงปลายปี 2557 ปัจจัยด้านสถานการณ์ทางการเมืองดีขึ้นส่งผลต่อความเชื่อมั่นของผู้บริโภคที่ปรับตัวดีขึ้นอย่างชัดเจน ด้านการใช้จ่ายมีปัจจัยสนับสนุนจากการบริโภคภาคเอกชน การลงทุนภาคเอกชน การส่งออก และรายจ่ายเพื่อการอุปโภคของรัฐบาล ในด้านการผลิต ปรับตัวดีขึ้นในเกือบทุกภาคการผลิต โดยเฉพาะสาขาอุตสาหกรรม สาขาก่อสร้าง และสาขาโรงแรมและภัตตาคารที่กลับมาขยายตัวครั้งแรกในรอบหลายไตรมาส ขณะที่สาขาค้าส่งค้าปลีกและสาขาอสังหาริมทรัพย์ขยายตัวเร่งขึ้น ปัจจัยเหล่านี้ส่งผลต่อสถานการณ์พลังงานของประเทศในปี 2557 ดังนี้

มูลค่าการใช้พลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการใช้พลังงานต่อรายได้ประชาชาติ ซึ่งมีแนวโน้มเพิ่มขึ้น โดยในปี 2557 ประเทศไทยมีมูลค่าการใช้พลังงานต่อ GDP อยู่ที่ร้อยละ 17.9 ในขณะที่ปี 2533 มีสัดส่วนอยู่ที่ร้อยละ 10.9 เท่านั้น

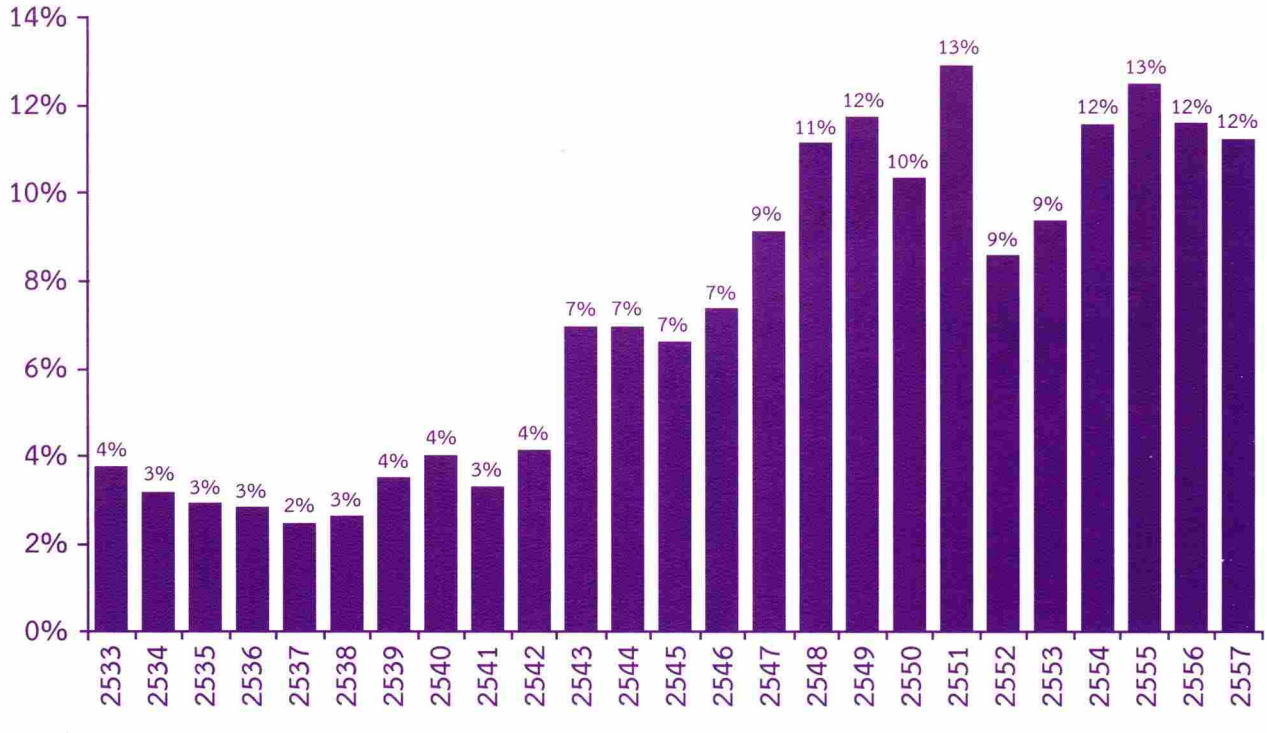
สัดส่วนมูลค่าการใช้พลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



ที่มา : สศช. สนพ.

มูลค่าการนำเข้าพลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการนำเข้าพลังงานต่อรายได้ประชาชาติ โดยในช่วงปี 2530-2540 ซึ่งเป็นช่วงก่อนเกิดวิกฤตเศรษฐกิจ ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานเฉลี่ยอยู่ที่ร้อยละ 3.0 ของ GDP เนื่องจากราคาพลังงานอยู่ในระดับต่ำ แต่ในช่วงหลังเกิดวิกฤตเศรษฐกิจราคาน้ำมันดิบปรับตัวสูงขึ้นมาก จึงมีผลทำให้ประเทศไทยต้องสูญเสียเงินตราต่างประเทศเพิ่มขึ้น โดยในปี 2551 ราคาน้ำมันดิบอยู่ในระดับสูง ประเทศไทยจึงต้องใช้จ่ายเงินในการนำเข้าพลังงานสูงถึงร้อยละ 12.9 ของ GDP และปัจจุบันปี 2557 ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานอยู่ที่ร้อยละ 11.5 ของ GDP

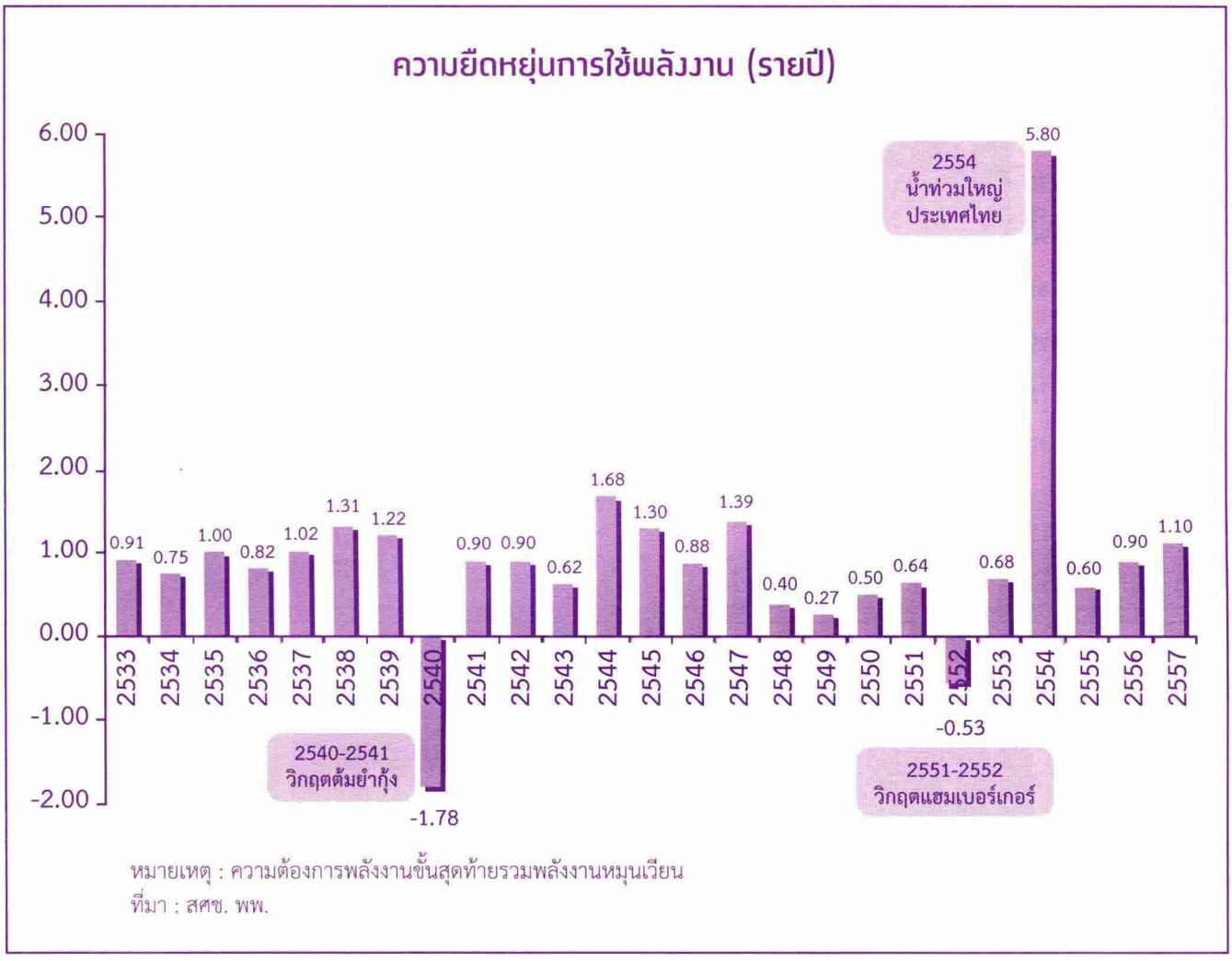
สัดส่วนมูลค่าการนำเข้าพลังงาน ต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



ที่มา: สศช. สนพ.

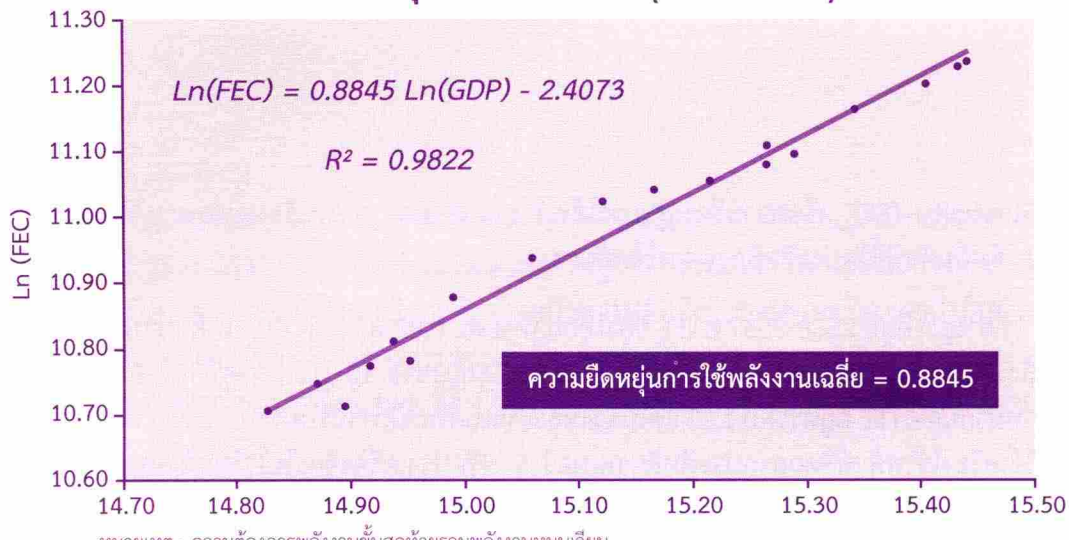
Energy Elasticity (EE) หรือความยืดหยุ่นการใช้พลังงาน คืออัตราการเปลี่ยนแปลงการใช้พลังงานต่ออัตราการเปลี่ยนแปลง GDP ซึ่งเป็นดัชนีชี้วัดประสิทธิภาพการใช้พลังงาน

ในช่วง 20 ปีที่ผ่านมา คือปี 2538-2557 ค่า EE ของไทยอยู่ที่ระดับ 0.88 หมายถึง GDP เปลี่ยนแปลงเพิ่มขึ้นร้อยละ 1.00 จะทำให้การใช้พลังงานของไทยเปลี่ยนแปลงเพิ่มขึ้นร้อยละ 0.88 โดยในช่วง 10 ปีแรก คือปี 2538-2547 การใช้พลังงานยังไม่มีประสิทธิภาพมากนัก ค่า EE อยู่ที่ระดับ 1.13 แต่ในช่วงหลังประเทศไทยมีการปรับปรุงประสิทธิภาพการใช้พลังงานมากขึ้น เช่น ส่งเสริมการใช้เครื่องใช้ไฟฟ้าที่ติดฉลากประสิทธิภาพเบอร์ 5 ปรับปรุงเครื่องจักรในโรงงานอุตสาหกรรม และมาตรการประหยัดพลังงาน ทำให้ในช่วง 10 ปีหลัง คือปี 2548-2557 ค่า EE อยู่ที่ระดับ 0.76



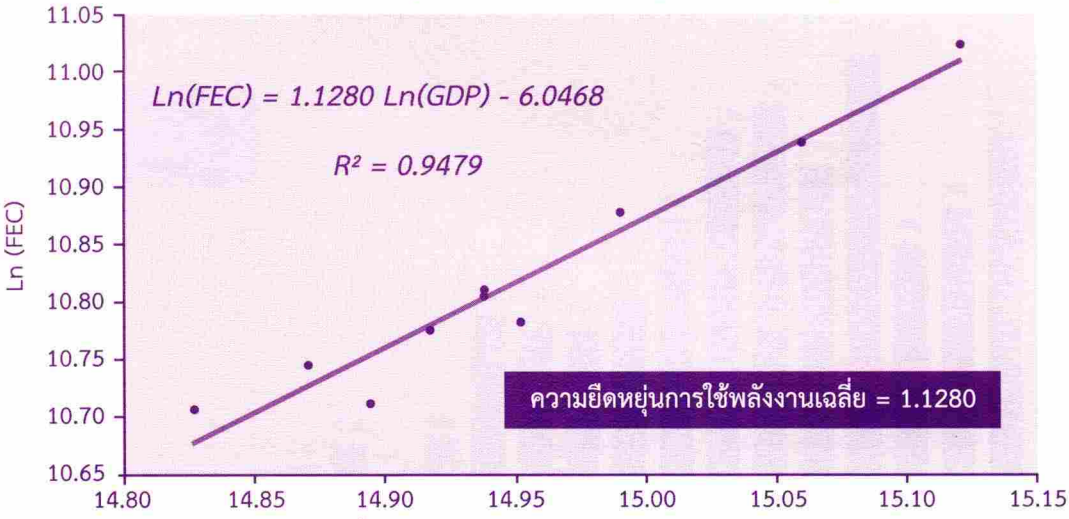
หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
ที่มา : สศช. พพ.

ความยืดหยุ่นการใช้พลังงาน (2538-2557)



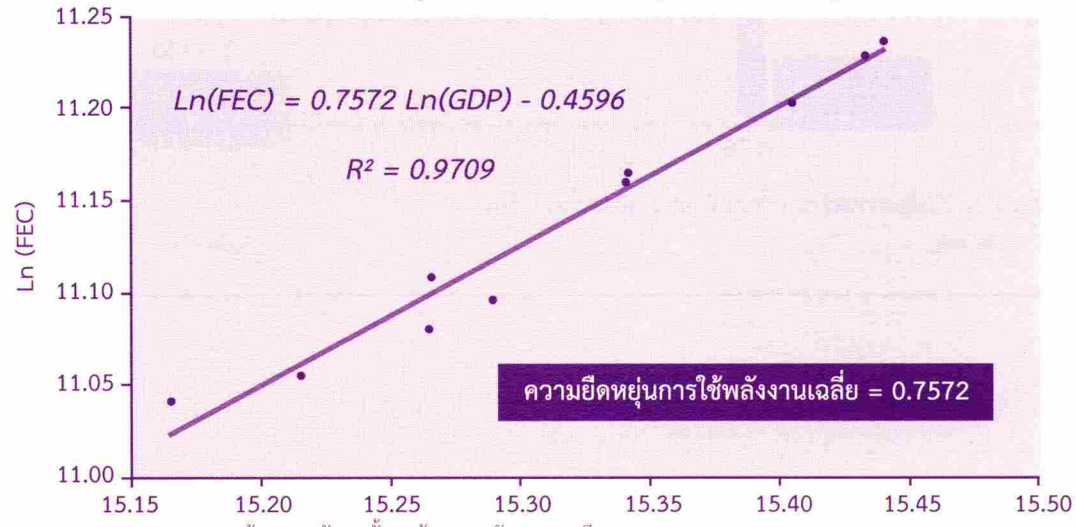
หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
ที่มา : สศช. พพ.

ความยืดหยุ่นการใช้พลังงาน (2538-2547)



หมายเหตุ: ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
ที่มา : สศช. พพ.

ความยืดหยุ่นการใช้พลังงาน (2548-2557)



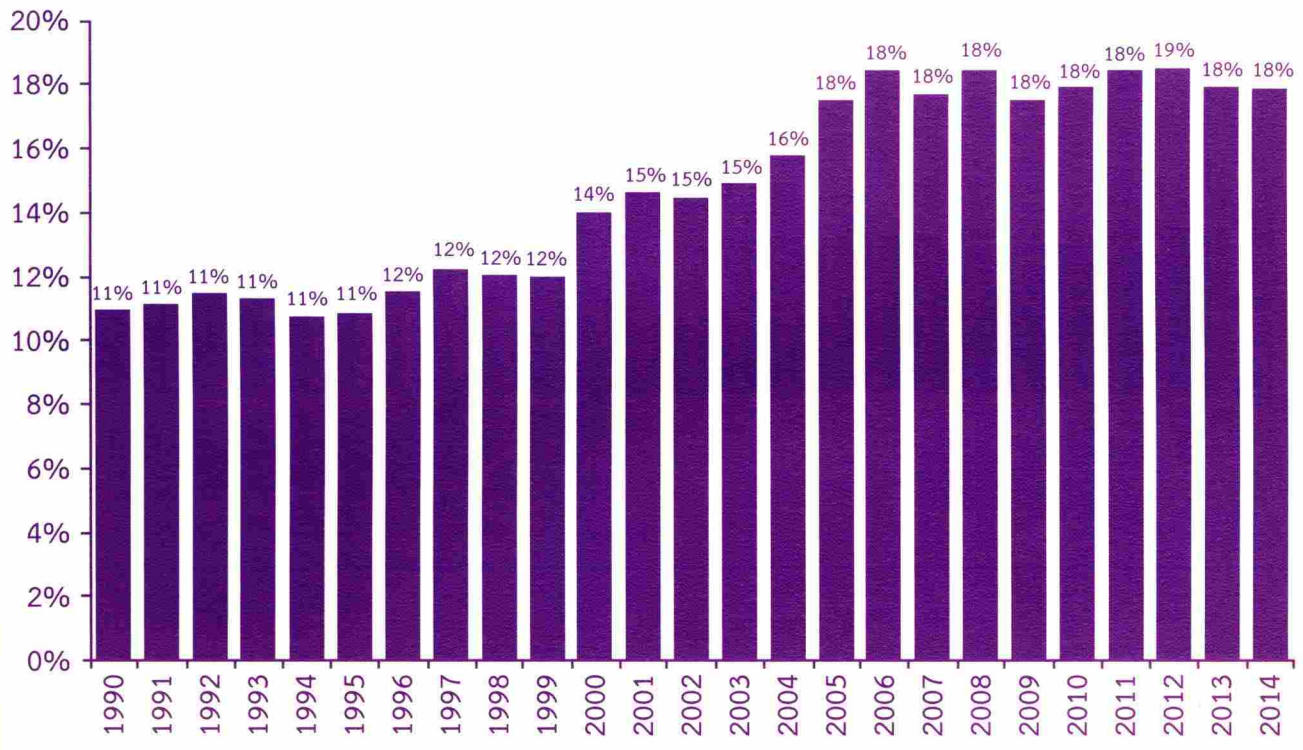
หมายเหตุ: ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน
ที่มา : สศช. พพ.

Chapter 7 : Energy and Economics

In 2014, Thailand's economic growth, Gross Domestic Product (GDP at constant 1988 prices), was around 0.7% year-on-year basis due to the prolonged political disturbances in the first 5 months of 2014. However, the political situation has improved during the second half of 2014, which is affecting consumer confidence to improve significantly. On the expenditure side, main contributions were from, private consumption expenditure, private investment and government expenditure. On the production side, almost all sectors improved, especially manufacturing, construction and hotel & restaurants sectors which expanded for the first time in several quarters. Meanwhile, wholesale and retail trade and real estate sectors accelerated.

Final Energy Consumption Value and GDP current price - It is a ratio of energy-consumption value over GDP in current price, in terms of Baht, as a percentage. In 2014, the ratio was 17.9% lower than the previous year. However compared to 1990, it was only 10.9%.

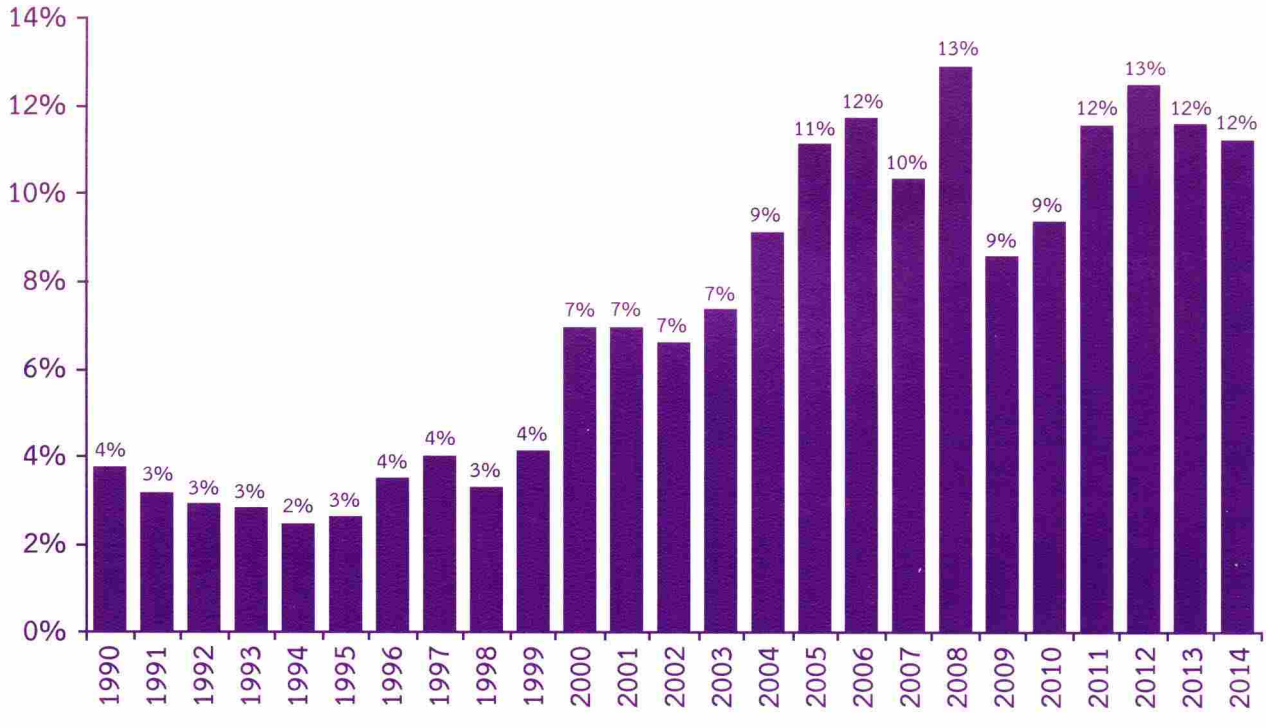
Final Energy Consumption Value and GDP (at Current Market Prices)



Source : NESDB, EPPO

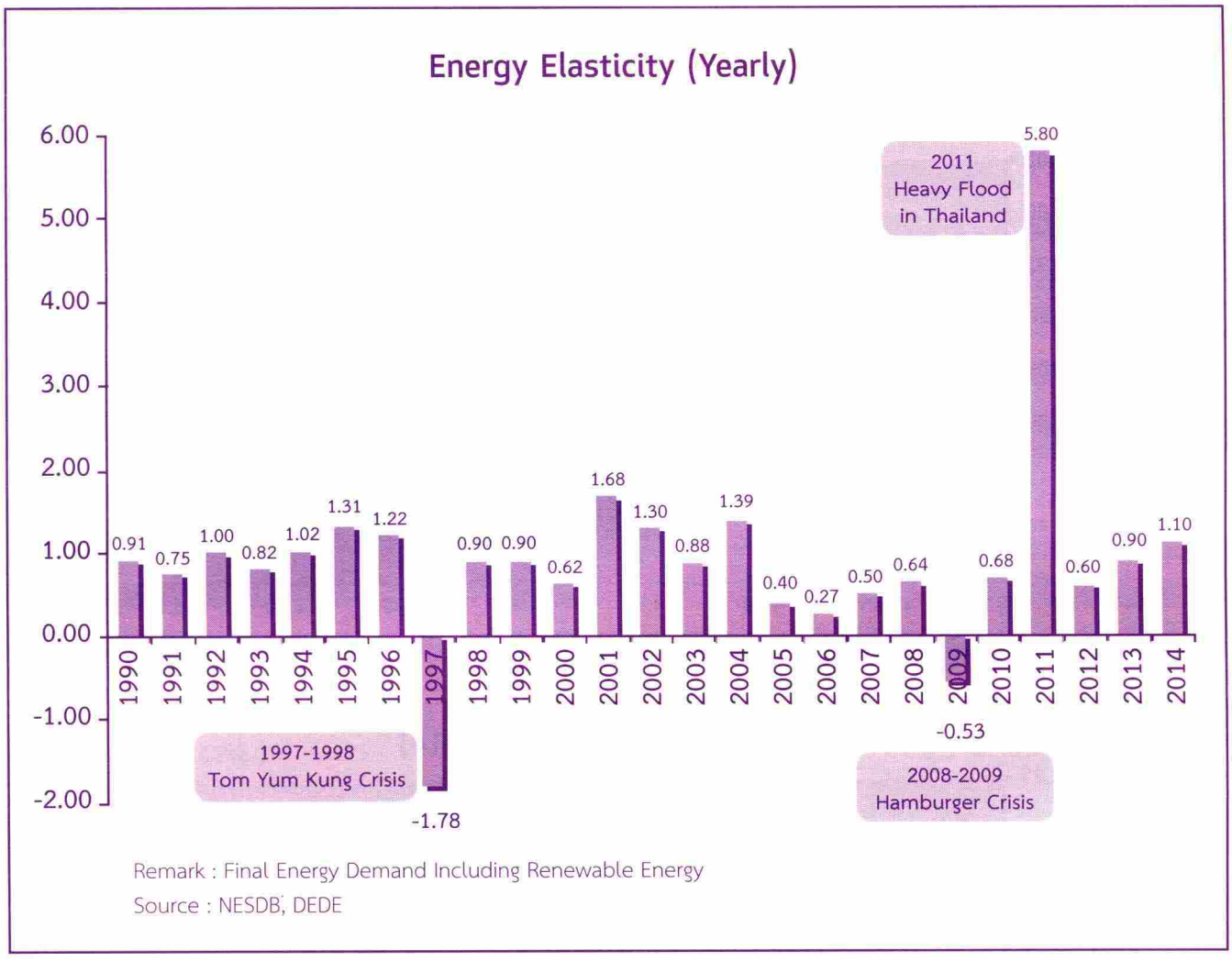
Energy Import Value and GDP current price - It is a percentage of a ratio of energy import value over GDP in current price and in terms of Baht. During 1987 till 1997, a period before the 1998 Thailand's economic crisis, energy import value accounted for a proportion of GDP only 3.0%. After that since oil price soared up high, Thailand had a high value of energy imports. In 2008, crude oil price was the highest in record, and it became a year that had the highest energy import value to GDP around 12.9%. In 2014, this ratio was 11.5%.

Energy Import Value and GDP (at Current Market Prices)



Source : NESDB, EPPO

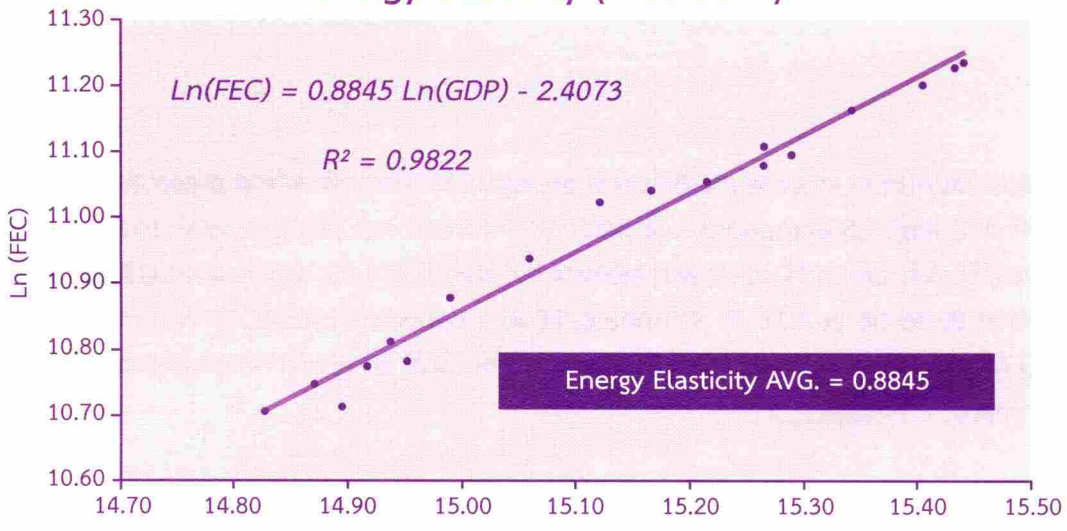
Energy Elasticity (EE) - Income elasticity for energy here was defined as a percent change in energy consumption (final energy consumption) to a percent change in real terms of GDP. In a last two decades, during 1995-2014, EE was around 0.88. It was inelasticity, less than 1.00. However the EE during 1995-2004 was greater than 1.00 to be at 1.13. In a contrast, EE in a period of 2005-2014 was much less than 1.00 to be around 0.76. It probably showed that Thailand might have an energy efficiency improvement during a period of 20 years.



Remark : Final Energy Demand Including Renewable Energy

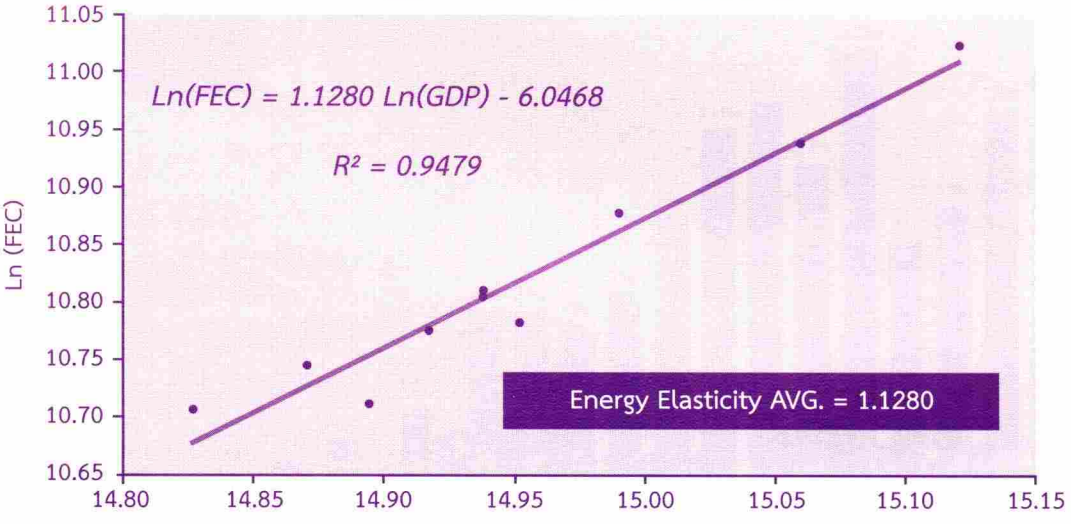
Source : NESDB, DEDE

Energy Elasticity (1995-2014)



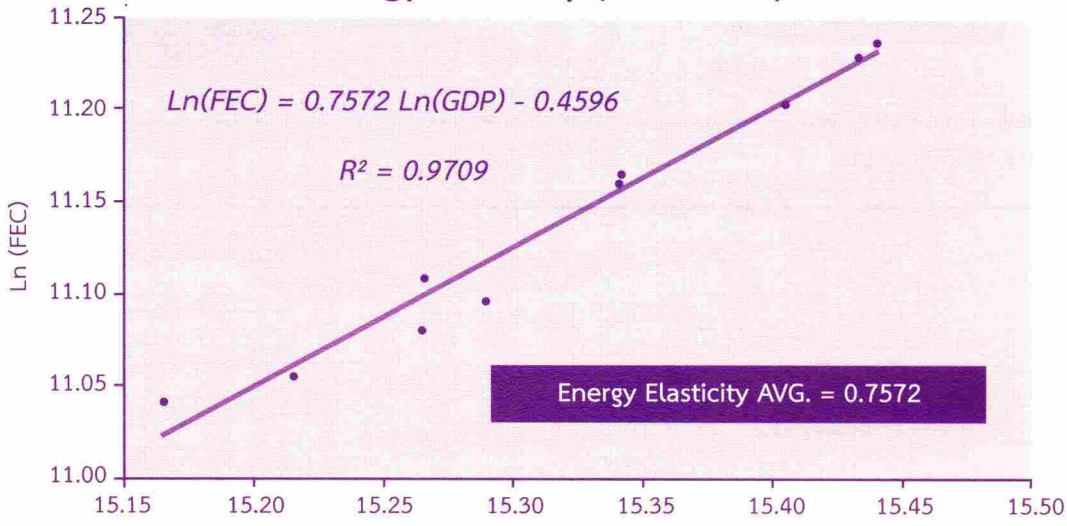
Remark : Final Energy Demand Including Renewable Energy
Source : NESDB, DEDE

Energy Elasticity (1995-2004)



Remark : Final Energy Demand Including Renewable Energy
Source : NESDB, DEDE

Energy Elasticity (2005-2014)



Remark : Final Energy Demand Including Renewable Energy
Source : NESDB, DEDE

Table 7.1-1
GDP at Constant 1988 Prices

Unit : Million Bahts

	1990	1991	1992	1993	1994	1995	1996	1997
Agriculture	263,607	282,740	296,277	255,106	265,893	276,590	288,840	286,833
Mining	31,053	36,085	37,959	40,770	43,841	44,748	52,892	59,973
Manufacturing	540,932	604,337	672,636	781,865	856,547	958,374	1,021,419	1,036,152
Construction	116,606	132,494	138,700	150,710	172,036	183,600	196,540	146,138
Electricity	46,841	51,750	57,115	62,413	69,335	79,054	81,962	86,705
Transportation	146,796	157,644	172,764	191,420	213,273	239,223	267,255	279,945
Res. and Com.	799,537	846,812	907,121	988,624	1,072,048	1,160,147	1,206,430	1,176,869
Total	**1,945,372**	**2,111,862**	**2,282,572**	**2,470,908**	**2,692,973**	**2,941,736**	**3,115,338**	**3,072,615**
Growth Rate (%)								
Agriculture	-4.7	7.3	4.8	-13.9	4.2	4.0	4.4	-0.7
Mining	10.0	16.2	5.2	7.4	7.5	2.1	18.2	13.4
Manufacturing	15.7	11.7	11.3	16.2	9.6	11.9	6.6	1.4
Construction	22.0	13.6	4.7	8.7	14.2	6.7	7.0	-25.6
Electricity	10.8	10.5	10.4	9.3	11.1	14.0	3.7	5.8
Transportation	14.0	7.4	9.6	10.8	11.4	12.2	11.7	4.7
Res. and Com.	12.5	5.9	7.1	9.0	8.4	8.2	4.0	-2.5
Total	**11.2**	**8.6**	**8.1**	**8.3**	**9.0**	**9.2**	**5.9**	**-1.4**

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-1 (Cont.)
GDP at Constant 1988 Prices

Unit : Million Bahts

	1998	1999	2000	2001	2002	2003	2004	2005
Agriculture	282,606	289,178	309,948	320,016	322,179	363,033	354,431	347,892
Mining	56,244	60,865	64,235	64,622	71,741	76,616	80,837	88,081
Manufacturing	923,602	1,033,431	1,096,168	1,111,457	1,190,807	1,318,279	1,426,338	1,499,882
Construction	90,235	84,060	76,323	76,471	80,615	82,837	88,790	93,809
Electricity	86,117	88,823	97,570	103,937	110,137	115,195	122,525	129,004
Transportation	254,462	270,147	290,388	310,058	331,168	340,644	366,290	383,925
Res. and Com.	1,056,418	1,045,476	1,073,769	1,087,040	1,130,395	1,171,562	1,248,978	1,315,426
Total	**2,749,684**	**2,871,980**	**3,008,401**	**3,073,601**	**3,237,042**	**3,468,166**	**3,688,189**	**3,858,019**
Growth Rate (%)								
Agriculture	-1.5	2.3	7.2	3.2	0.7	12.7	-2.4	-1.8
Mining	-6.2	8.2	5.5	0.6	11.0	6.8	5.5	9.0
Manufacturing	-10.9	11.9	6.1	1.4	7.1	10.7	8.2	5.2
Construction	-38.3	-6.8	-9.2	0.2	5.4	2.8	7.2	5.7
Electricity	-0.7	3.1	9.8	6.5	6.0	4.6	6.4	5.3
Transportation	-9.1	6.2	7.5	6.8	6.8	2.9	7.5	4.8
Res. and Com.	-10.2	-1.0	2.7	1.2	4.0	3.6	6.6	5.3
Total	**-10.5**	**4.4**	**4.8**	**2.2**	**5.3**	**7.1**	**6.3**	**4.6**

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-1 (Cont.)
GDP at Constant 1988 Prices

Unit : Million Bahts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
Agriculture	365,428	369,772	385,225	390,362	381,401	396,951	412,175	417,797	422,453
Mining	91,585	95,088	95,280	96,105	101,141	99,031	107,135	109,535	108,946
Manufacturing	1,588,105	1,686,372	1,751,411	1,645,015	1,873,170	1,793,358	1,917,142	1,919,061	1,898,273
Construction	98,086	100,511	95,190	95,551	102,090	96,875	104,469	105,504	101,530
Electricity	135,114	141,975	147,603	148,880	163,848	164,448	180,358	181,931	187,211
Transportation	407,682	432,037	429,933	413,666	430,338	441,898	477,587	515,968	539,437
Res. and Com.	1,368,504	1,433,271	1,460,191	1,473,560	1,544,124	1,607,094	1,699,323	1,789,998	1,817,768
Total	**4,054,504**	**4,259,026**	**4,364,833**	**4,263,139**	**4,596,112**	**4,599,655**	**4,898,189**	**5,039,794**	**5,075,618**
Growth Rate (%)									
Agriculture	5.0	1.2	4.2	1.3	-2.3	4.1	3.8	1.4	1.1
Mining	4.0	3.8	0.2	0.9	5.2	-2.1	8.2	2.2	-0.5
Manufacturing	5.9	6.2	3.9	-6.1	13.9	-4.3	6.9	0.1	-1.1
Construction	4.6	2.5	-5.3	0.4	6.8	-5.1	7.8	1.0	-3.8
Electricity	4.7	5.1	4.0	0.9	10.1	0.4	9.7	0.9	2.9
Transportation	6.2	6.0	-0.5	-3.8	4.0	2.7	8.1	8.0	4.5
Res. and Com.	4.0	4.7	1.9	0.9	4.8	4.1	5.7	5.3	1.6
Total	**5.1**	**5.0**	**2.5**	**-2.3**	**7.8**	**0.1**	**6.5**	**2.9**	**0.7**

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-2
Population

Unit : Persons

Year	Population	Growth (%)
1990	55,839,000	1.1
1991	56,574,000	1.3
1992	57,294,000	1.3
1993	58,010,000	1.2
1994	58,713,000	1.2
1995	59,401,000	1.2
1996	60,003,000	1.0
1997	60,602,000	1.0
1998	61,201,000	1.0
1999	61,806,000	1.0
2000	62,236,000	0.7
2001	62,836,000	1.0
2002	63,419,000	0.9
2003	63,982,000	0.9
2004	64,531,000	0.9
2005	65,099,000	0.9
2006	65,574,000	0.7
2007	66,041,000	0.7
2008	66,482,000	0.7
2009	66,903,000	0.6
2010	67,313,000	0.6
2011	67,597,000	0.4
2012	67,912,000	0.5
2013	68,251,000	0.5
2014	68,610,000	0.5

Source : Office of The National Economic and Social Development Board (NESDB)

Table 7.1-3
Industrial Index

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Jan	96.5	102.1	103.6	125.0	139.0	152.4	158.8	168.4	190.7	142.0	185.0	197.4	174.9	210.5	189.1
Feb	95.5	99.6	102.6	119.5	139.4	143.8	162.1	164.3	188.1	141.0	188.4	190.3	191.0	201.1	185.0
Mar	104.8	110.9	116.1	136.1	146.1	169.0	179.7	182.3	202.8	157.4	217.6	212.1	213.4	229.0	198.0
Apr	87.4	90.3	105.0	119.2	128.5	143.1	149.4	152.6	171.6	142.4	182.8	166.7	180.1	180.1	166.3
May	98.4	104.9	116.9	125.8	141.3	157.8	171.6	174.3	192.5	158.6	193.1	180.7	214.1	208.4	186.0
Jun	101.0	105.0	114.7	127.8	143.6	163.8	166.7	173.8	191.6	169.1	202.5	210.5	208.3	204.8	184.4
Jul	97.0	102.2	116.5	129.5	141.0	158.2	164.1	174.8	193.9	169.0	196.6	200.2	207.3	196.7	180.2
Aug	100.2	103.9	121.2	124.8	140.1	162.7	172.3	182.0	186.6	172.9	191.0	209.2	204.0	193.1	180.7
Sep	104.0	103.5	120.3	135.0	147.0	165.3	173.2	186.2	189.5	188.7	204.4	218.9	205.8	194.6	182.3
Oct	104.0	108.3	124.8	137.9	154.3	163.6	171.5	188.8	187.0	186.6	199.1	131.2	211.0	190.8	182.2
Nov	107.1	105.5	124.3	132.3	154.7	163.8	168.6	189.1	170.9	184.4	198.2	105.3	221.8	190.7	180.5
Dec	104.1	101.7	116.4	142.2	157.0	159.9	166.0	187.1	149.0	195.2	195.1	150.6	200.9	183.4	181.5
Total	100.0	103.2	115.2	129.6	144.3	158.6	167.0	177.0	184.5	167.3	196.2	181.1	202.7	198.6	183.0

Source : The Office of Industrial Economics (OIE)

Table 7.1-4
Industrial Capacity Utilization Ratios

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Jan	58.3	58.4	56.4	64.3	65.9	68.7	68.4	66.4	70.1	54.1	63.0	66.0	61.2	66.3	60.8
Feb	57.9	59.2	58.9	63.5	67.2	66.8	70.0	66.6	68.3	54.4	64.2	63.9	64.4	64.7	59.8
Mar	57.8	58.4	59.6	65.0	63.5	66.9	69.4	66.1	67.3	54.4	65.8	64.6	64.9	67.0	60.4
Apr	57.4	56.5	62.1	64.9	65.3	67.9	69.3	66.5	67.2	56.2	65.7	61.6	66.5	65.5	60.6
May	58.2	58.4	62.8	62.8	65.7	67.3	69.2	66.9	66.9	56.6	65.6	61.3	67.7	65.4	60.7
Jun	58.9	59.0	62.0	64.8	66.0	67.7	67.6	66.6	65.6	57.0	66.0	66.0	66.0	64.9	60.6
Jul	58.5	58.2	62.4	63.1	65.4	68.0	66.9	66.9	65.5	58.0	65.4	65.9	67.6	63.7	60.0
Aug	58.9	58.8	65.0	62.8	65.0	68.4	68.4	67.1	63.9	59.8	66.0	68.1	66.3	63.8	60.7
Sep	60.0	58.6	63.7	65.1	65.3	67.1	67.1	67.8	61.8	61.5	66.1	67.3	66.4	63.1	60.8
Oct	59.7	59.3	63.2	65.5	68.0	67.5	67.2	67.1	61.3	62.7	66.3	48.8	67.1	63.1	60.3
Nov	60.8	58.2	64.8	64.2	68.0	67.2	66.3	68.4	58.1	63.5	65.5	44.0	67.8	62.8	60.3
Dec	61.2	58.5	62.3	68.3	68.6	66.9	66.1	69.0	55.3	64.0	65.7	56.2	65.7	61.5	60.3
Total	59.0	58.5	61.9	64.5	66.2	67.5	68.0	67.1	64.3	58.5	65.4	61.2	66.0	64.3	60.4

Source : The Office of Industrial Economics (OIE)

Table 7.1-5
Sale of Vehicles

Year	Sale of Vehicles (Unit)				Growth Rate (%)			
	Passenger	Commercial	Motorcycle	Total	Passenger	Commercial	Motorcycle	Total
1990	65,813	238,297	732,848	1,036,958	38.0	48.5	24.6	30.2
1991	66,778	202,052	649,727	918,557	1.5	-15.2	-11.3	-11.4
1992	121,453	241,583	868,157	1,231,193	81.9	19.6	33.6	34.0
1993	172,452	282,548	1,115,946	1,570,946	42.0	17.0	28.5	27.6
1994	154,500	331,345	1,333,041	1,818,886	-10.4	17.3	19.5	15.8
1995	158,701	409,915	1,503,872	2,072,488	2.7	23.7	12.8	13.9
1996	173,606	415,262	1,242,551	1,831,419	9.4	1.3	-17.4	-11.6
1997	132,070	231,198	927,365	1,290,633	-23.9	-44.3	-25.4	-29.5
1998	46,399	97,844	490,829	635,072	-64.9	-57.7	-47.1	-50.8
1999	66,851	151,508	593,676	812,035	44.1	54.9	21.0	27.9
2000	83,127	179,126	796,292	1,058,545	24.4	18.2	34.1	30.4
2001	104,559	192,577	926,460	1,223,596	25.8	7.5	16.4	15.6
2002	126,330	283,073	1,317,000	1,726,403	20.8	47.0	42.2	41.1
2003	179,418	354,037	1,687,000	2,220,455	42.0	25.1	28.1	28.6
2004	209,114	416,764	1,951,000	2,576,878	16.6	17.7	15.7	16.1
2005	185,761	517,677	2,053,000	2,756,438	-11.2	24.2	5.2	7.0
2006	191,405	490,603	1,921,000	2,603,008	3.0	-5.2	-6.4	-5.6
2007	169,559	461,692	1,558,000	2,189,251	-11.4	-5.9	-18.9	-15.9
2008	225,751	388,333	1,749,000	2,363,084	33.1	-15.9	12.3	7.9
2009	235,169	313,703	1,519,000	2,067,872	4.2	-19.2	-13.2	-12.5
2010	340,129	390,904	1,870,000	2,601,033	44.6	24.6	23.1	25.8
2011	341,800	362,156	1,859,000	2,562,956	0.5	-7.4	-0.6	-1.5
2012	658,460	691,399	2,300,000	3,649,859	92.6	90.9	23.7	42.4
2013	650,791	637,497	2,042,000	3,330,288	-1.2	-7.8	-11.2	-8.8
2014	353,934	422,074	1,644,000	2,420,008	-45.6	-33.8	-19.5	-27.3

Source : Bank of Thailand (BOT) and The Office of Industrial Economics (OIE)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 7.1-6
GDP, Energy, Import and Export of Goods

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
GDP at Current Prices (Billion Bahts)	**2,183.5**	**2,506.6**	**2,830.9**	**3,165.2**	**3,629.3**	**4,186.2**	**4,611.0**	**4,732.6**	**4,626.4**	**4,637.1**	**4,922.7**
GDP at 1988 Prices (Billion Bahts)	**1,945.4**	**2,111.9**	**2,282.6**	**2,470.9**	**2,693.0**	**2,941.7**	**3,115.3**	**3,072.6**	**2,749.7**	**2,872.0**	**3,008.4**
Export (Billion Bahts)	**589.8**	**725.6**	**824.6**	**935.9**	**1,137.6**	**1,406.3**	**1,412.1**	**1,806.7**	**2,248.3**	**2,215.2**	**2,773.8**
Import (Billion Bahts)	**844.4**	**958.8**	**1,033.2**	**1,166.6**	**1,369.0**	**1,763.6**	**1,832.8**	**1,924.3**	**1,774.1**	**1,907.4**	**2,494.1**
Goods and Services	761.9	879.2	950.5	1,077.3	1,279.1	1,652.1	1,669.8	1,732.4	1,621.9	1,715.2	2,151.7
Energy	82.5	79.6	82.8	89.3	89.9	111.5	163.0	191.8	152.2	192.2	342.5
Crude	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5	137.1	169.6	285.9
Petroleum Products	39.1	39.0	33.5	37.3	32.8	37.2	37.1	20.8	10.5	15.1	39.0
Natural Gas											7.8
Coal	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8	2.1	4.0	5.1
Electricity								0.7	2.5	3.4	4.7
Net Trade (Exports - Imports) (Billion Bahts)	-254.6	-233.2	-208.6	-230.7	-231.4	-357.3	-420.7	-117.6	474.3	307.8	279.7
Final Energy Consumption (Billion Bahts)	**238.3**	**279.3**	**323.7**	**357.4**	**390.2**	**454.9**	**530.3**	**580.6**	**556.6**	**555.3**	**690.3**
Petroleum	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7	307.0	310.0	408.3
Electricity	62.5	73.2	87.4	98.2	111.5	136.2	153.4	162.1	175.4	167.9	199.1
Natural Gas	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7	4.6	5.9	10.3
Coal/Lignite	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8	5.9	6.2	5.7
Renewable Energy	41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3	63.6	65.2	67.0
Final Energy Consumption (KTOE)	**30,666.0**	**32,556.0**	**35,328.0**	**36,988.3**	**40,354.6**	**44,887.5**	**48,746.9**	**50,111.0**	**45,455.0**	**47,155.0**	**47,882.0**
Petroleum	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0
Electricity	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0	6,010.0	6,670.0	7,090.0	7,024.0	7,131.0	7,691.0
Natural Gas	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0	978.0	1,282.0	1,818.0
Coal/Lignite	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0
Renewable Energy	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0

Analysis

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Growth Rate (%)											
GDP (Constant 1988 Prices)	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8
Final Energy Consumption (KTOE) : FEC	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3	3.7	1.5
FEC : GDP (TOE : M.Bahts)	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5	16.4	15.9
Ratios (%)											
FEC Value : GDP at current Market Prices	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0	12.0	14.0
Value of Imported Energy : GDP at current Market Prices	3.8	3.2	2.9	2.8	2.5	2.7	3.5	4.1	3.3	4.1	7.0
Value of Imported Energy : Total Import	9.8	8.3	8.0	7.7	6.6	6.3	8.9	10.0	8.6	10.1	13.7
Value of Imported Petroleum : Total Import	9.7	8.2	7.9	7.6	6.4	6.2	8.7	9.7	8.3	9.7	13.3

Source : NESDB, BOT, EPPO, DEDE

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
5,133.5	**5,450.6**	**5,917.4**	**6,489.5**	**7,092.9**	**7,844.9**	**8,525.2**	**9,080.5**	**9,041.6**	**10,104.8**	**10,540.1**	**11,375.3**	**11,898.7**	**12,141.1**
3,073.6	**3,237.0**	**3,468.2**	**3,688.2**	**3,858.0**	**4,054.5**	**4,259.0**	**4,364.8**	**4,263.1**	**4,596.1**	**4,599.7**	**4,898.2**	**5,039.8**	**5,075.6**
2,884.7	**2,923.9**	**3,325.6**	**3,873.7**	**4,438.7**	**4,937.4**	**5,302.1**	**5,851.4**	**5,194.6**	**6,113.3**	**6,708.0**	**7,082.5**	**6,909.7**	**7,314.7**
2,752.3	**2,774.8**	**3,138.8**	**3,801.1**	**4,754.0**	**4,942.9**	**4,870.2**	**5,962.5**	**4,602.0**	**5,856.6**	**6,982.7**	**7,813.1**	**7,657.3**	**7,410.5**
2,394.6	2,412.6	2,703.4	3,205.8	3,963.6	4,020.8	3,987.8	4,787.2	3,825.0	4,905.6	5,743.6	6,367.1	6,241.1	6,011.2
357.8	362.2	435.4	595.3	790.4	922.1	882.4	1,175.2	777.0	951.0	1,239.1	1,446.0	1,416.2	1,399.3
284.4	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5	977.4	1,119.3	1,072.2	979.7
30.7	27.9	33.2	44.7	60.1	63.3	50.7	41.1	29.2	67.5	96.1	124.2	139.0	202.3
30.6	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5	109.5	140.3	146.7	150.5
7.5	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4	42.3	46.7	39.7	47.9
4.7	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.2	13.9	15.4	18.5	18.9
132.4	149.1	186.9	72.6	-315.3	-5.6	431.9	-111.1	592.6	256.7	-274.7	-730.6	-747.6	-95.8
752.7	**791.7**	**884.9**	**1,024.6**	**1,241.4**	**1,448.4**	**1,510.3**	**1,677.5**	**1,585.2**	**1,810.3**	**1,941.9**	**2,109.0**	**2,137.7**	**2,169.8**
430.8	452.0	515.8	605.8	775.0	917.1	957.3	1,093.1	960.9	1,107.8	1,221.7	1,312.2	1,326.9	1,336.3
232.7	247.5	267.6	302.8	330.1	387.2	392.7	397.9	431.2	474.7	471.6	524.4	537.7	551.8
11.4	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7	97.7	122.5	121.0	125.0
7.6	8.8	10.0	13.3	18.4	18.0	23.1	28.7	28.6	29.7	31.3	31.6	26.1	33.5
70.3	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4	119.7	118.3	126.0	123.1
49,008.0	**52,754.0**	**56,073.0**	**61,456.0**	**62,802.0**	**62,648.0**	**65,479.0**	**66,937.0**	**68,838.0**	**72,723.0**	**74,508.0**	**77,993.0**	**79,659.0**	**81,352.0**
27,290.0	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0	35,174.0	36,034.0	36,230.0
8,169.0	8,798.0	9,394.0	10,166.0	10,717.0	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0	13,998.0	14,189.0	14,588.0
1,690.0	1,872.0	2,033.0	2,427.0	2,451.0	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0	8,444.0	8,661.0	8,879.0
3,416.0	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,727.0	7,401.0	6,797.0	8,390.0
8,443.0	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,485.0	12,245.0	12,455.0	13,419.0	13,138.0	12,976.0	13,978.0	13,265.0

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1	6.5	2.9	0.7
2.4	7.6	6.3	9.6	2.2	-0.2	4.5	2.2	2.8	5.6	2.5	4.7	2.1	2.1
15.9	16.3	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2	15.9	15.8	16.0
14.7	14.5	15.0	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.4	18.5	18.0	17.9
7.0	6.6	7.4	9.2	11.1	11.8	10.4	12.9	8.6	9.4	11.8	12.7	11.9	11.5
13.0	13.1	13.9	15.7	16.6	18.7	18.1	19.7	16.9	16.2	17.7	18.5	18.5	18.9
12.6	12.6	13.4	15.2	16.2	18.1	17.4	19.0	16.0	15.4	16.9	17.7	17.7	18.0

Table 7.2-1
Final Energy Consumption per Capita

	1990	1991	1992	1993	1994	1995	1996	1997
GDP at Current Prices (Billion Bahts)	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6
GDP at 1988 Prices (Billion Bahts)	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6
Population (Million Persons)	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6
Electricity Consumption (GWh)	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3	70,793.5	76,998.5	81,878.5
Export (Billion Bahts)	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7
Import (Billion Bahts)	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6	1,832.8	1,924.3
Goods and Services	761.9	879.2	950.5	1,077.3	1,279.1	1,652.1	1,669.8	1,732.4
Energy	82.5	79.6	82.8	89.3	89.9	111.5	163.0	191.8
Crude	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5
Petroleum Products	39.1	39.0	33.5	37.3	32.8	37.2	37.1	20.8
Natural Gas								
Coal	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8
Electricity								0.7
Final Energy Consumption (Billion Bahts)	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6
Petroleum	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7
Electricity	62.5	73.2	87.4	98.2	111.5	136.2	153.4	162.1
Natural Gas	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7
Coal/Lignite	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8
Renewable Energy	41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3
Final Energy Consumption (KTOE)	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0
Petroleum	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0
Electricity	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0	6,010.0	6,670.0	7,090.0
Natural Gas	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0
Coal/Lignite	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0
Renewable Energy	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0

Analysis

	1990	1991	1992	1993	1994	1995	1996	1997
Growth Rate (%)								
GDP (Constant 1988 Prices)	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4
Final Energy Consumption (KTOE) : FEC	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8
FEC : GDP (TOE : M.Bahts)	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.55	0.58	0.62	0.64	0.69	0.76	0.81	0.83
Electricity per Capita (kWh/Person)	683.6	781.3	860.3	951.3	1,064.4	1,191.8	1,283.2	1,351.1
FEC Value : GDP at current Market Prices	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3
Value of Imported Energy : GDP at current Market Prices	3.8	3.2	2.9	2.8	2.5	2.7	3.5	4.1
Value of Imported Energy : Total Import	9.8	8.3	8.0	7.7	6.6	6.3	8.9	10.0
Value of Imported Petroleum : Total Import	9.7	8.2	7.9	7.6	6.4	6.2	8.7	9.7

Source : NESDB, BOT, EPPO, DEDE

Table 7.2-1 (Cont.)
Final Energy Consumption per Capita

	1998	1999	2000	2001	2002	2003	2004	2005
GDP at Current Prices (Billion Bahts)	**4,626.4**	**4,637.1**	**4,922.7**	**5,133.5**	**5,450.6**	**5,917.4**	**6,489.5**	**7,092.9**
GDP at 1988 Prices (Billion Bahts)	**2,749.7**	**2,872.0**	**3,008.4**	**3,073.6**	**3,237.0**	**3,468.2**	**3,688.2**	**3,858.0**
Population (Million Persons)	**61.2**	**61.8**	**62.2**	**62.8**	**63.4**	**64.0**	**64.5**	**65.1**
Electricity Consumption (GWh)	**79,762.0**	**80,820.7**	**87,597.2**	**92,853.2**	**100,071.0**	**106,781.1**	**115,152.5**	**121,252.8**
Export (Billion Bahts)	**2,248.3**	**2,215.2**	**2,773.8**	**2,884.7**	**2,923.9**	**3,325.6**	**3,873.7**	**4,438.7**
Import (Billion Bahts)	**1,774.1**	**1,907.4**	**2,494.1**	**2,752.3**	**2,774.8**	**3,138.8**	**3,801.1**	**4,754.0**
Goods and Services	1,621.9	1,715.2	2,151.7	2,394.6	2,412.6	2,703.4	3,205.8	3,963.6
Energy	152.2	192.2	342.5	357.8	362.2	435.4	595.3	790.4
Crude	137.1	169.6	285.9	284.4	287.0	346.1	486.6	644.9
Petroleum Products	10.5	15.1	39.0	30.7	27.9	33.2	44.7	60.1
Natural Gas			7.8	30.6	35.1	42.6	46.1	62.8
Coal	2.1	4.0	5.1	7.5	7.9	9.4	12.3	15.4
Electricity	2.5	3.4	4.7	4.7	4.5	4.2	5.7	7.1
Final Energy Consumption (Billion Bahts)	**556.6**	**555.3**	**690.3**	**752.7**	**791.7**	**884.9**	**1,024.6**	**1,241.4**
Petroleum	307.0	310.0	408.3	430.8	452.0	515.8	605.8	775.0
Electricity	175.4	167.9	199.1	232.7	247.5	267.6	302.8	330.1
Natural Gas	4.6	5.9	10.3	11.4	13.4	16.4	16.4	22.3
Coal/Lignite	5.9	6.2	5.7	7.6	8.8	10.0	13.3	18.4
Renewable Energy	63.6	65.2	67.0	70.3	69.9	75.1	86.2	95.5
Final Energy Consumption (KTOE)	**45,455.0**	**47,155.0**	**47,882.0**	**49,008.0**	**52,754.0**	**56,073.0**	**61,456.0**	**62,802.0**
Petroleum	26,215.0	26,845.0	26,716.0	27,290.0	28,898.0	30,533.0	33,093.0	32,621.0
Electricity	7,024.0	7,131.0	7,691.0	8,169.0	8,798.0	9,394.0	10,166.0	10,717.0
Natural Gas	978.0	1,282.0	1,818.0	1,690.0	1,872.0	2,033.0	2,427.0	2,451.0
Coal/Lignite	3,353.0	3,575.0	3,058.0	3,416.0	4,143.0	4,362.0	5,254.0	6,189.0
Renewable Energy	7,885.0	8,322.0	8,599.0	8,443.0	9,043.0	9,751.0	10,516.0	10,824.0

Analysis

	1998	1999	2000	2001	2002	2003	2004	2005
Growth Rate (%)								
GDP (Constant 1988 Prices)	-10.5	4.4	4.8	2.2	5.3	7.1	6.3	4.6
Final Energy Consumption (KTOE) : FEC	-9.3	3.7	1.5	2.4	7.6	6.3	9.6	2.2
FEC : GDP (TOE : M.Bahts)	16.5	16.4	15.9	15.9	16.3	16.2	16.7	16.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.74	0.76	0.77	0.78	0.83	0.88	0.95	0.96
Electricity per Capita (kWh/Person)	1,303.3	1,307.7	1,407.5	1,477.7	1,577.9	1,668.9	1,784.5	1,862.6
FEC Value : GDP at current Market Prices	12.0	12.0	14.0	14.7	14.5	15.0	15.8	17.5
Value of Imported Energy : GDP at current Market Prices	3.3	4.1	7.0	7.0	6.6	7.4	9.2	11.1
Value of Imported Energy : Total Import	8.6	10.1	13.7	13.0	13.1	13.9	15.7	16.6
Value of Imported Petroleum : Total Import	8.3	9.7	13.3	12.6	12.6	13.4	15.2	16.2

Source : NESDB, BOT, EPPO, DEDE

Table 7.2-1 (Cont.)
Final Energy Consumption per Capita

	2006	2007	2008	2009	2010	2011	2012	2013	2014
GDP at Current Prices (Billion Bahts)	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1	11,375.3	11,898.7	12,141.1
GDP at 1988 Prices (Billion Bahts)	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7	4,898.2	5,039.8	5,075.6
Population (Million Persons)	65.6	66.0	66.5	66.9	67.3	67.6	67.9	68.3	68.6
Electricity Consumption (GWh)	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1	161,778.8	164,339.2	168,693.9
Export (Billion Bahts)	4,937.4	5,302.1	5,851.4	5,194.6	6,113.3	6,708.0	7,082.5	6,909.7	7,314.7
Import (Billion Bahts)	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7	7,813.1	7,657.3	7,410.5
Goods and Services	4,020.8	3,987.8	4,787.2	3,825.0	4,905.6	5,759.6	6,391.1	6,275.9	6,044.5
Energy	922.1	882.4	1,175.2	777.0	951.0	1,239.1	1,446.0	1,416.2	1,399.3
Crude	753.8	715.8	1,002.7	623.0	751.5	977.4	1,119.3	1,072.2	979.7
Petroleum Products	63.3	50.7	41.1	29.2	67.5	96.1	124.2	139.0	202.3
Natural Gas	77.8	78.9	90.5	84.2	84.5	109.5	140.3	146.7	150.5
Coal	18.9	29.7	36.5	36.9	39.4	42.3	46.7	39.7	47.9
Electricity	8.3	7.4	4.5	3.6	8.2	13.9	15.4	18.5	18.9
Final Energy Consumption (Billion Bahts)	1,448.4	1,510.3	1,677.5	1,585.2	1,810.3	1,941.9	2,109.0	2,137.7	2,169.8
Petroleum	917.1	957.3	1,093.1	960.9	1,107.8	1,221.7	1,312.2	1,326.9	1,336.3
Electricity	387.2	392.7	397.9	431.2	474.7	471.6	524.4	537.7	551.8
Natural Gas	28.9	35.1	53.9	49.3	68.7	97.7	122.5	121.0	125.0
Coal/Lignite	18.0	23.1	28.7	28.6	29.7	31.3	31.6	26.1	33.5
Renewable Energy	97.1	102.1	104.0	115.3	129.4	119.7	118.3	126.0	123.1
Final Energy Consumption (KTOE)	62,648.0	65,479.0	66,937.0	68,838.0	72,723.0	74,508.0	77,993.0	79,659.0	81,352.0
Petroleum	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0	35,174.0	36,034.0	36,230.0
Electricity	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0	13,998.0	14,189.0	14,588.0
Natural Gas	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0	8,444.0	8,661.0	8,879.0
Coal/Lignite	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,727.0	7,401.0	6,797.0	8,390.0
Renewable Energy	10,993.0	11,485.0	12,245.0	12,455.0	13,419.0	13,138.0	12,976.0	13,978.0	13,265.0

Analysis

	2006	2007	2008	2009	2010	2011	2012	2013	2014
Growth Rate (%)									
GDP (Constant 1988 Prices)	5.1	5.0	2.5	-2.3	7.8	0.1	6.5	2.9	0.7
Final Energy Consumption (KTOE) : FEC	-0.2	4.5	2.2	2.8	5.6	2.5	4.7	2.1	2.1
FEC : GDP (TOE : M.Bahts)	15.5	15.4	15.3	16.1	15.8	16.2	15.9	15.8	16.0
Ratios (%)									
FEC per Capita (TOE/Person)	0.96	0.99	1.01	1.03	1.1	1.1	1.1	1.2	1.2
Electricity per Capita (kWh/Person)	1,950.1	2,015.4	2,038.5	2,020.5	2,218.0	2,202.1	2,382.2	2,407.9	2,458.7
FEC Value : GDP at current Market Prices	18.5	17.7	18.5	17.5	17.9	18.4	18.5	18.0	17.9
Value of Imported Energy : GDP at current Market Prices	11.8	10.4	12.9	8.6	9.4	11.8	12.7	11.9	11.5
Value of Imported Energy : Total Import	18.7	18.1	19.7	16.9	16.2	17.7	18.5	18.5	18.9
Value of Imported Petroleum : Total Import	18.1	17.4	19.0	16.0	15.4	16.9	17.7	17.7	18.0

Source : NESDB, BOT, EPPO, DEDE

Table 7.2-2
Electricity Consumption per Capita

	1990	1991	1992	1993	1994	1995	1996	1997
GDP at Current Prices (Billion Bahts)	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6
GDP at 1988 Prices (Billion Bahts)	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6
Population (Million Persons)	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6
Electricity Consumption (GWh)	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3	70,793.5	76,998.5	81,878.5
Export (Billion Bahts)	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7
Import (Billion Bahts)	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6	1,832.8	1,924.3
Import of Energy (Billion Bahts)	82.5	79.6	82.8	89.3	89.9	111.5	163.0	191.8
Final Energy Consumption (Billion Bahts)	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6
Final Energy Consumption (KTOE)	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0

Analysis

	1990	1991	1992	1993	1994	1995	1996	1997
Growth Rate (%)								
GDP (Constant 1988 Prices)	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4
Final Energy Consumption (KTOE) : FEC	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8
FEC : GDP (TOE : M.Bahts)	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8
Electricity per Capita (kWh/Person)	683.6	781.3	860.3	951.3	1,064.4	1,191.8	1,283.2	1,351.1
FEC Value : GDP at current Market Prices	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3
Value of Imported Energy : GDP at current Market Prices	3.8	3.2	2.9	2.8	2.5	2.7	3.5	4.1
Value of Imported Energy : Total Import	9.8	8.3	8.0	7.7	6.6	6.3	8.9	10.0
Value of Imported Petroleum : Total Import	9.7	8.2	7.9	7.6	6.4	6.2	8.7	9.7

Source : NESDB, BOT, EPPO, DEDE

Table 7.2-2 (Cont.)
Electricity Consumption per Capita

	1998	1999	2000	2001	2002	2003	2004	2005
GDP at Current Prices (Billion Bahts)	4,626.4	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9
GDP at 1988 Prices (Billion Bahts)	2,749.7	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0
Population (Million Persons)	61.2	61.8	62.2	62.8	63.4	64.0	64.5	65.1
Electricity Consumption (GWh)	79,762.0	80,820.7	87,597.2	92,853.2	100,071.0	106,781.1	115,152.5	121,252.8
Export (Billion Bahts)	2,248.3	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7
Import (Billion Bahts)	1,774.1	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0
Import of Energy (Billion Bahts)	152.2	192.2	342.5	357.8	362.2	435.4	595.3	790.4
Final Energy Consumption (Billion Bahts)	556.6	555.3	690.3	752.7	791.7	884.9	1,024.6	1,241.4
Final Energy Consumption (KTOE)	45,455.0	47,155.0	47,882.0	49,008.0	52,754.0	56,073.0	61,456.0	62,802.0

Analysis

	1998	1999	2000	2001	2002	2003	2004	2005
Growth Rate (%)								
GDP (Constant 1988 Prices)	-10.5	4.4	4.8	2.2	5.3	7.1	6.3	4.6
Final Energy Consumption (KTOE) : FEC	-9.3	3.7	1.5	2.4	7.6	6.3	9.6	2.2
FEC : GDP (TOE : M.Bahts)	16.5	16.4	15.9	15.9	16.3	16.2	16.7	16.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.0
Electricity per Capita (kWh/Person)	1,303.3	1,308	1,407	1,478	1,578	1,669	1,784	1,863
FEC Value : GDP at current Market Prices	12.0	12.0	14.0	14.7	14.5	15.0	15.8	17.5
Value of Imported Energy : GDP at current Market Prices	3.3	4.1	7.0	7.0	6.6	7.4	9.2	11.1
Value of Imported Energy : Total Import	8.6	10.1	13.7	13.0	13.1	13.9	15.7	16.6
Value of Imported Petroleum : Total Import	8.3	9.7	13.3	12.6	12.6	13.4	15.2	16.2

Source : NESDB, BOT, EPPO, DEDE

Table 7.2-2 (Cont.)
Electricity Consumption per Capita

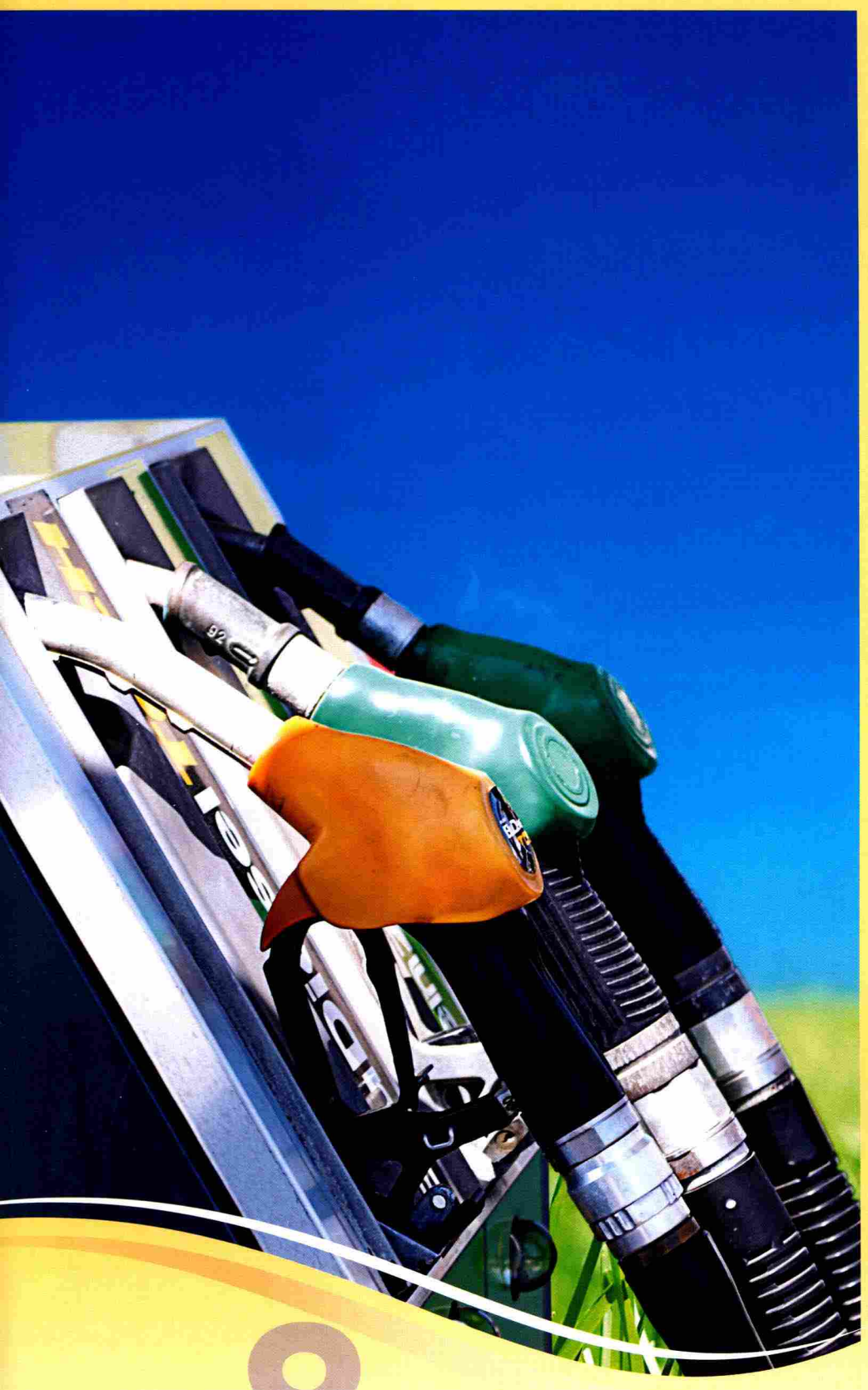
	2006	2007	2008	2009	2010	2011	2012	2013	2014
GDP at Current Prices (Billion Bahts)	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1	11,375.3	11,898.7	12,141.1
GDP at 1988 Prices (Billion Bahts)	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7	4,898.2	5,039.8	5,075.6
Population (Million Persons)	65.6	66.0	66.5	66.9	67.3	67.6	67.9	68.3	68.6
Electricity Consumption (GWh)	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1	161,778.8	164,339.2	168,693.9
Export (Billion Bahts)	4,937.4	5,302.1	5,851.4	5,194.6	6,113.3	6,708.0	7,082.5	6,909.7	7,314.7
Import (Billion Bahts)	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7	7,813.1	7,657.3	7,410.5
Import of Energy (Billion Bahts)	922.1	882.4	1,175.2	777.0	951.0	1,239.1	1,446.0	1,416.2	1,399.3
Final Energy Consumption (Billion Bahts)	1,448.4	1,510.3	1,677.5	1,585.2	1,810.3	1,941.9	2,109.0	2,137.7	2,169.8
Final Energy Consumption (KTOE)	62,648.0	65,479.0	66,937.0	68,838.0	72,723.0	74,508.0	77,993.0	79,659.0	81,352.0

Analysis

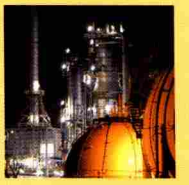
	2006	2007	2008	2009	2010	2011	2012	2013	2014
Growth Rate (%)									
GDP (Constant 1988 Prices)	5.1	5.0	2.5	-2.3	7.8	0.1	6.5	2.9	0.7
Final Energy Consumption (KTOE) : FEC	-0.2	4.5	2.2	2.8	5.6	2.5	4.7	2.1	2.1
FEC : GDP (TOE : M.Bahts)	15.5	15.4	15.3	16.1	15.8	16.2	15.9	15.8	16.0
Ratios (%)									
FEC per Capita (TOE/Person)	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2
Electricity per Capita (kWh/Person)	1,950	2,015	2,038	2,021	2,218	2,202	2,382	2,408	2,459
FEC Value : GDP at current Market Prices	18.5	17.7	18.5	17.5	17.9	18.4	18.5	18.0	17.9
Value of Imported Energy : GDP at current Market Prices	11.8	10.4	12.9	8.6	9.4	11.8	12.7	11.9	11.5
Value of Imported Energy : Total Import	18.7	18.1	19.7	16.9	16.2	17.7	18.5	18.5	18.9
Value of Imported Petroleum : Total Import	18.1	17.4	19.0	16.0	15.4	16.9	17.7	17.7	18.0

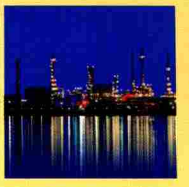
Source : NESDB, BOT, EPPO, DEDE

หน้าว่าง

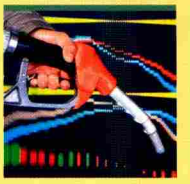








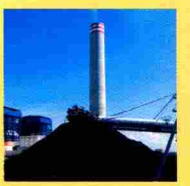










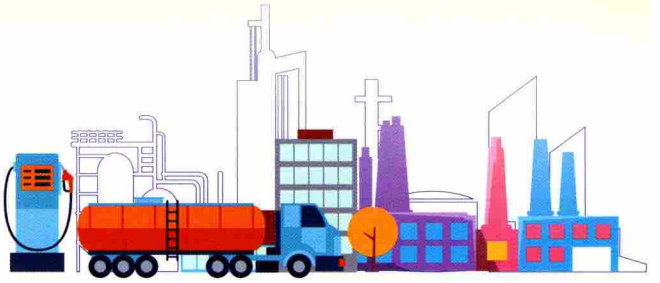






Chapter 8

Petroleum Prices

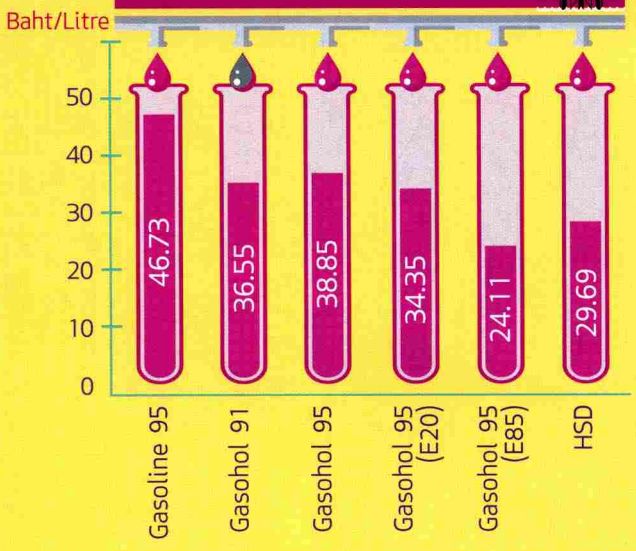


Petroleum Prices

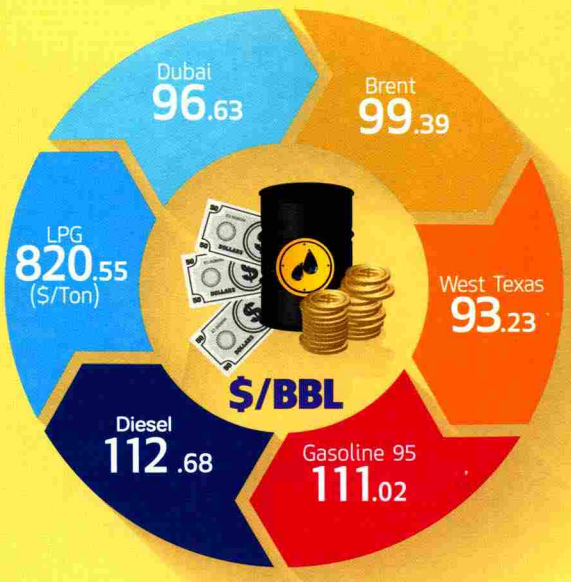
Oil Price Structures in Thailand 2014



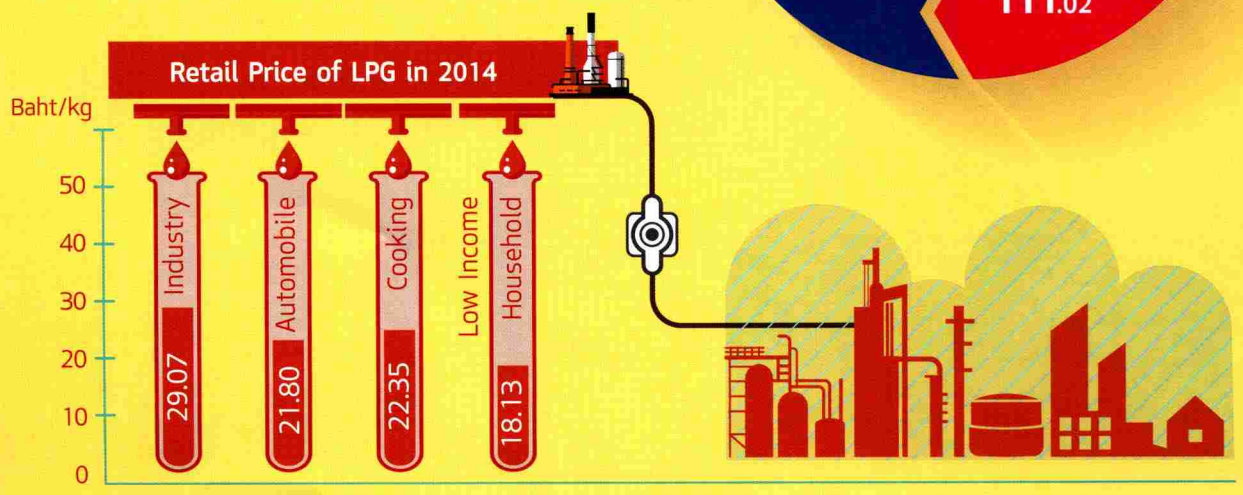
Retail Price of Gasoline and Diesel in 2014



World Price in 2014



Retail Price of LPG in 2014



บทที่ 8

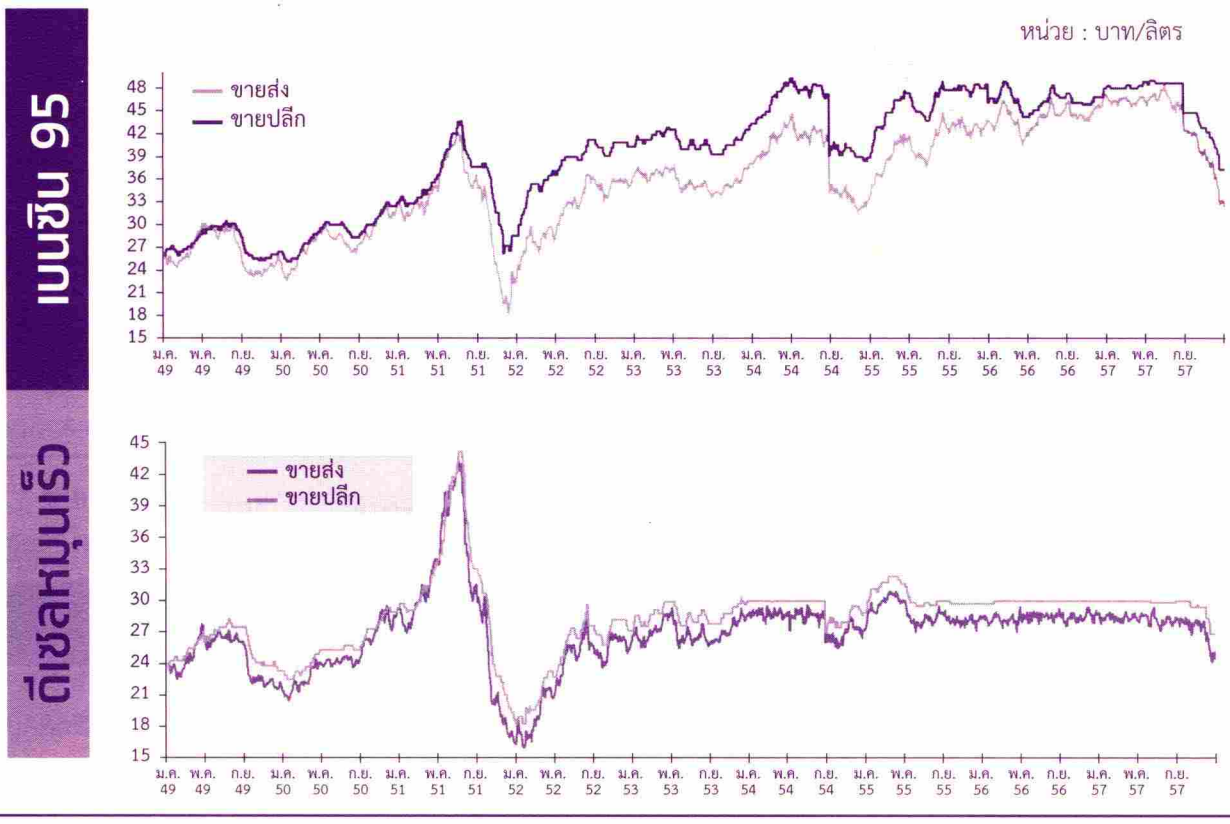
ราคาน้ำมันปิโตรเลียม

โครงสร้างราคาน้ำมันของไทย ราคาน้ำมันของไทยประกอบด้วย ราคาหน้าโรงกลั่น ราคาขายส่ง และราคาขายปลีก ในส่วนของราคาขายส่ง ประกอบด้วย ราคาหน้าโรงกลั่น รวมภาษีสรรพสามิต ภาษีเทศบาล เงินนำส่งเข้ากองทุนน้ำมันเชื้อเพลิง เงินนำส่งเข้ากองทุนเพื่อส่งเสริมการอนุรักษ์พลังงาน และภาษีมูลค่าเพิ่ม ส่วนราคาขายปลีก ประกอบด้วย ราคาขายส่ง รวมค่าการตลาด และภาษีมูลค่าเพิ่ม

การกำหนดราคาน้ำมันสำเร็จรูปของโรงกลั่นไทย การกำหนดราคาขายส่งน้ำมันสำเร็จรูป (Wholesale) ใช้หลักการเสมอภาคกับการนำเข้า (Import Parity Basis) และใช้ตลาดสิงคโปร์เป็นตลาดอ้างอิงการกำหนดราคาน้ำมันสำเร็จรูป เนื่องจากตลาดสิงคโปร์เป็นตลาดส่งออกที่ใหญ่ที่สุดในภูมิภาคเอเชียซึ่งอยู่ใกล้ไทยมากที่สุด จึงทำให้ต้นทุนการนำเข้าของไทยอยู่ในระดับต่ำสุด และมีปริมาณการซื้อขายในระดับสูงทำให้ยากต่อการปั่นราคา ส่งผลให้ราคามีความผันผวนน้อยกว่าตลาดอื่น ตลอดจนมีการเปลี่ยนแปลงราคาที่สอดคล้องกับตลาดอื่นทั่วโลก

ในการกำหนดราคา หากโรงกลั่นกำหนดราคาสูงกว่าราคานำเข้าจากสิงคโปร์ ผู้ค้าจะนำเข้าน้ำมันแทนการซื้อจากโรงกลั่นในประเทศ แต่หากกำหนดราคาต่ำกว่าราคานำเข้าจะทำให้โรงกลั่นได้รับผลตอบแทนต่ำกว่าที่ควร และจะไม่เกิดแรงจูงใจในการลงทุนธุรกิจการกลั่นในประเทศ นอกจากนี้จะทำให้โรงกลั่นมีความต้องการส่งออกมากกว่าขายในประเทศ

ราคาขายปลีกและขายส่งน้ำมันสำเร็จรูปในกรุงเทพมหานคร

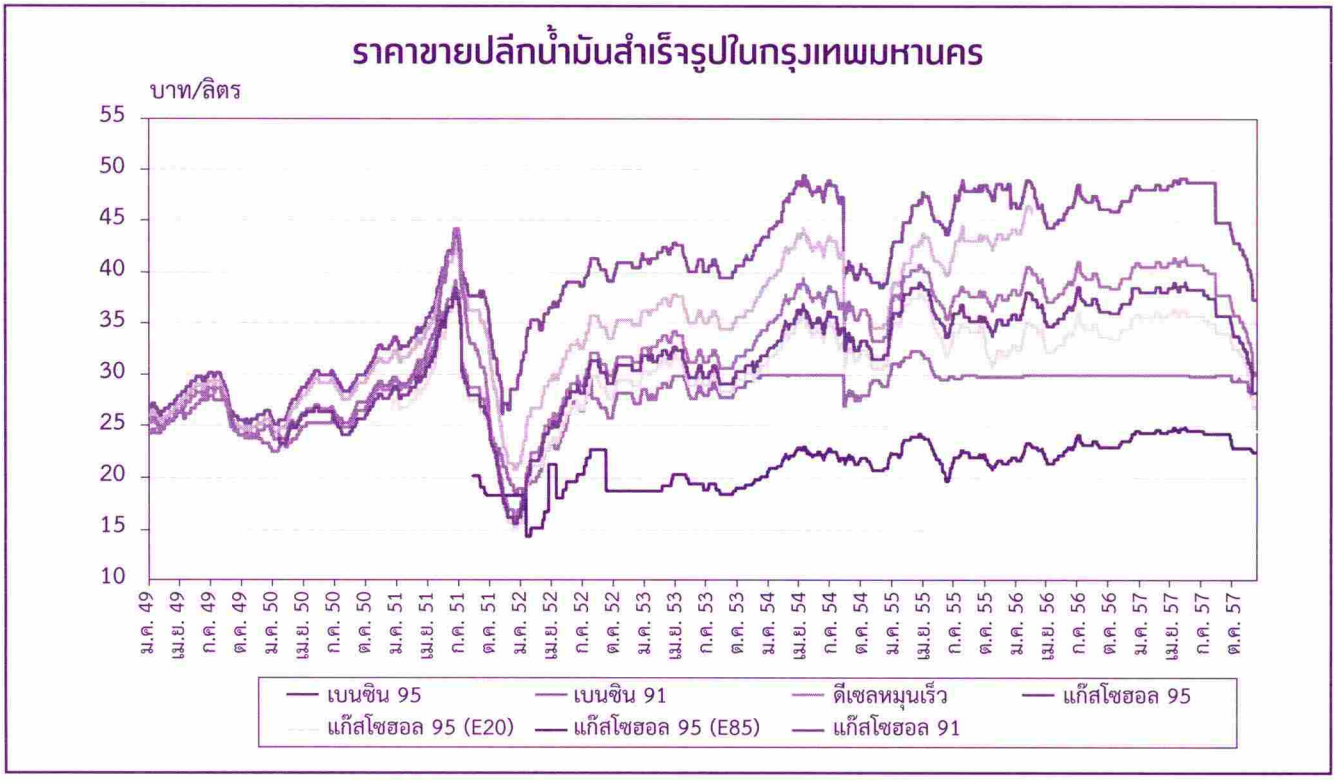


การเปลี่ยนแปลงราคาขายปลีกน้ำมันสำเร็จรูปของไทย ขึ้นลงตามการประกาศราคาหน้าโรงกลั่นโดยการกำหนดราคาน้ำมันของโรงกลั่นขึ้นอยู่กับการเปลี่ยนแปลงของราคาน้ำมันสำเร็จรูปในตลาดสิงคโปร์และอัตราแลกเปลี่ยน (หรือค่าเงินบาท) ซึ่งเป็นต้นทุนในการนำเข้าน้ำมันเชื้อเพลิง

ในช่วงก่อนยกเลิกการควบคุมราคาขายปลีก รัฐบาลได้ใช้ระบบกองทุนน้ำมันเชื้อเพลิงในการรักษาระดับราคาขายส่งที่ออกจากโรงกลั่นและราคานำเข้าให้อยู่ในระดับคงที่ ส่งผลให้ราคาขายปลีกไม่เปลี่ยนแปลง หลังจากมีการยกเลิกการควบคุมราคา ราคาขายส่งได้มีการเปลี่ยนแปลงตามราคาหน้าโรงกลั่น โดยโรงกลั่นเป็นผู้กำหนดราคาซึ่งส่งผลให้ราคาขายปลีกมีการเปลี่ยนแปลงตามในที่สุด

น้ำมันสำเร็จรูปที่ขายปลีกอยู่ในสถานีบริการของประเทศไทย มีอยู่ 2 ชนิด หลักๆ ได้แก่ เบนซินและดีเซล รัฐบาลไทยได้สนับสนุนให้มีการใช้พลังงานทดแทน โดยลดการจัดเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิง ในกลุ่มน้ำมันแก๊สโซฮอลและไบโอดีเซล เพื่อเป็นการจูงใจให้ประชาชนหันมาใช้พลังงานทดแทนมากขึ้น มีผลให้เกิดส่วนต่างราคาขายปลีกเบนซินและแก๊สโซฮอลแต่ละประเภท รวมถึงดีเซลหมุนเร็วและไบโอดีเซล

ทั้งนี้ รัฐบาลมีนโยบายปรับโครงสร้างราคาพลังงาน โดยในวันที่ 15 ธันวาคม 2557 คณะกรรมการนโยบายพลังงานแห่งชาติ (กพช.) มีมติให้คณะกรรมการบริหารนโยบายพลังงาน (กบง.) ดำเนินการปรับโครงสร้างราคาน้ำมันเชื้อเพลิงให้สะท้อนต้นทุนที่แท้จริง ส่งผลให้ราคาน้ำมันในกลุ่มเบนซินปรับตัวลดลงประมาณ 3.70-4.90 บาทต่อลิตร (ยกเว้นน้ำมันแก๊สโซฮอล E85)

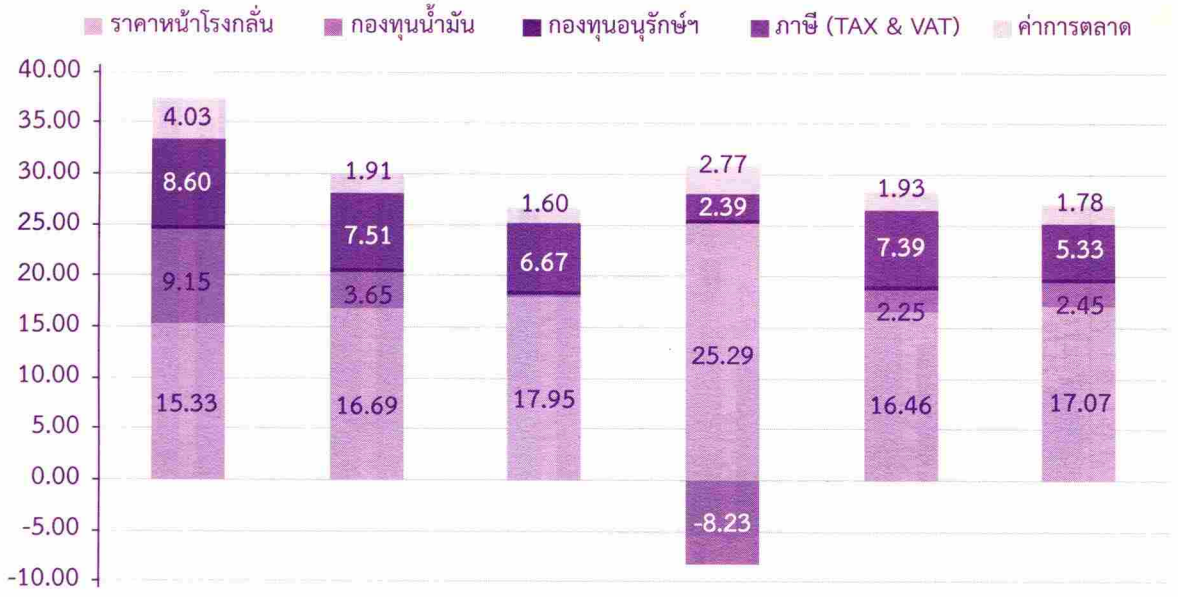


ราคาขายปลีกเฉลี่ยของน้ำมันสำเร็จรูปในกรุงเทพมหานคร ปี 2557

หน่วย: บาท/ลิตร

ชนิด	เบนซิน	แก๊สโซฮอล (E10)	แก๊สโซฮอล (E20)	แก๊สโซฮอล (E85)	ดีเซลหมุนเร็ว
ออกเทน 95	46.73	38.85	34.35	24.11	29.69
ออกเทน 91	-	36.55	-	-	

โครงสร้างราคาขายปลีกน้ำมันเชื้อเพลิง
(ณ วันที่ 30 ธันวาคม 2557)



ราคา	เบนซิน 95	แก๊สโซฮอล 95 (E10)	แก๊สโซฮอล 95 (E20)	แก๊สโซฮอล 95 (E85)	แก๊สโซฮอล 91 (E10)	ดีเซลหมุนเร็ว
บาท/ลิตร	37.36	30.00	26.68	22.48	28.28	26.89

การเปลี่ยนแปลงราคาขายปลีก LPG ในปี 2557 รัฐบาลมีการปฏิรูปราคาพลังงานเพื่อให้สะท้อนต้นทุนที่แท้จริงตามกลไกตลาด เพื่อลดผลกระทบการอุดหนุนราคาเชื้อเพลิงข้ามประเภท และการลักลอบส่งออก LPG ไปยังประเทศเพื่อนบ้าน ดังนี้

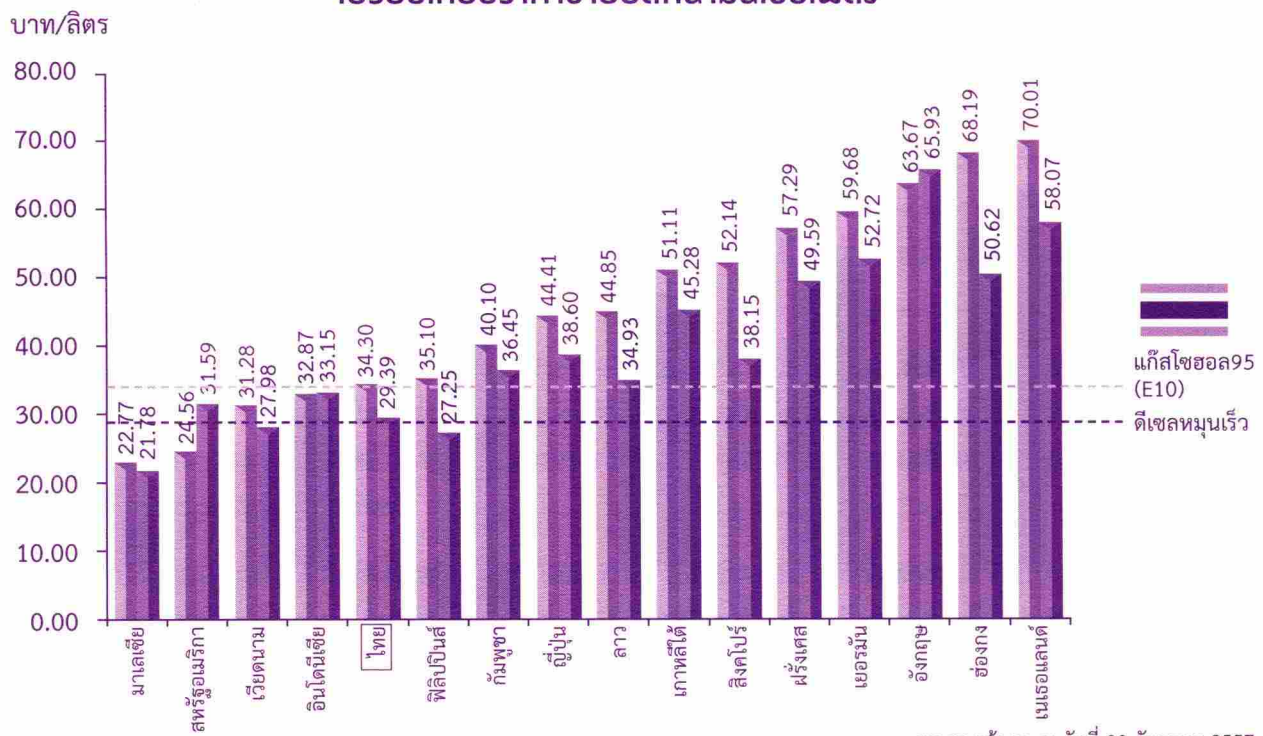
1. **ภาคครัวเรือน** ตั้งแต่เดือนตุลาคม 2556 มีการปรับขึ้นราคา LPG เดือนละ 0.50 บาทต่อกิโลกรัม จนถึงสิ้นเดือนพฤษภาคม 2557 ทำให้ราคาขายปลีกอยู่ที่ระดับ 22.63 บาทต่อกิโลกรัม ก่อนที่จะทำการปรับเพิ่มราคาอีก 2 ครั้ง เพื่อให้มีราคาอยู่ที่ระดับ 24.16 บาทต่อกิโลกรัมในเดือนธันวาคม 2557 แต่ยังคงตรึงราคา LPG สำหรับผู้มีรายได้น้อยไว้ที่ 18.13 บาทต่อกิโลกรัม

2. **ภาคอุตสาหกรรม** ในวันที่ 14 พฤษภาคม 2555 คณะกรรมการบริหารนโยบายพลังงาน (กบง.) มีมติเห็นชอบกำหนดราคาขายปลีกของก๊าซ LPG ภาคอุตสาหกรรมให้เป็นไปตามต้นทุนโรงกลั่นน้ำมัน แต่ไม่เกิน 30.13 บาทต่อกิโลกรัม ส่งผลให้ราคาขายปลีกของ LPG ภาคอุตสาหกรรมมีการปรับเปลี่ยนทุกเดือน จนกระทั่งเดือนสิงหาคม 2557 เป็นต้นมา ได้มีการปรับการส่งเงินเข้ากองทุนน้ำมันทั้งหมด 5 ครั้ง เพื่อปรับให้ราคาขายปลีกมาอยู่ที่ระดับ 24.16 บาทต่อกิโลกรัม ในเดือนธันวาคม 2557

3. **ภาคขนส่ง** ในปี 2557 ราคาขายปลีกอยู่ที่ 21.38 บาทต่อกิโลกรัมถึงเดือนกันยายน 2557 ก่อนมีการปรับเพิ่มราคาขึ้นทั้งหมด 4 ครั้ง เพื่อให้ราคาขายปลีกมาอยู่ที่ระดับ 24.16 บาทต่อกิโลกรัมในเดือนธันวาคม 2557

ราคาขายปลีกน้ำมันเบนซินและดีเซลของต่างประเทศ ราคาขายปลีกน้ำมันสำเร็จรูปในแต่ละประเทศจะแตกต่างกันขึ้นอยู่กับโครงสร้างและนโยบายการชดเชยราคาน้ำมันของประเทศนั้นๆ ทั้งนี้ เมื่อเปรียบเทียบราคาขายปลีกน้ำมันเบนซินของประเทศไทยกับประเทศในภูมิภาคอาเซียน (ราคา ณ วันที่ 30 ธันวาคม 2557) จะพบว่าราคาขายปลีกน้ำมันแก๊สโซฮอลออกเทน 95 (E10) ของประเทศไทยสูงกว่าประเทศอินโดนีเซีย และเวียดนาม แต่ที่จริงแล้วการที่จะบอกว่าน้ำมันราคาถูกหรือแพง ควรเปรียบเทียบกับความสามารถในการซื้อน้ำมันหรือรายได้ของคนในประเทศ โดยเปรียบเทียบราคาน้ำมันกับรายได้มวลรวมประชาชาติต่อบุคคล (GNI per Capita) ซึ่งจะพบว่าสัดส่วนราคาน้ำมันเบนซินต่อ GNI per Capita ของประเทศไทยอยู่ที่ร้อยละ 0.017 ต่ำกว่าของประเทศอินโดนีเซีย และเวียดนาม หมายความว่าราคาน้ำมันในประเทศไทยถูกกว่าประเทศดังกล่าว

เปรียบเทียบราคาขายปลีกน้ำมันเชื้อเพลิง



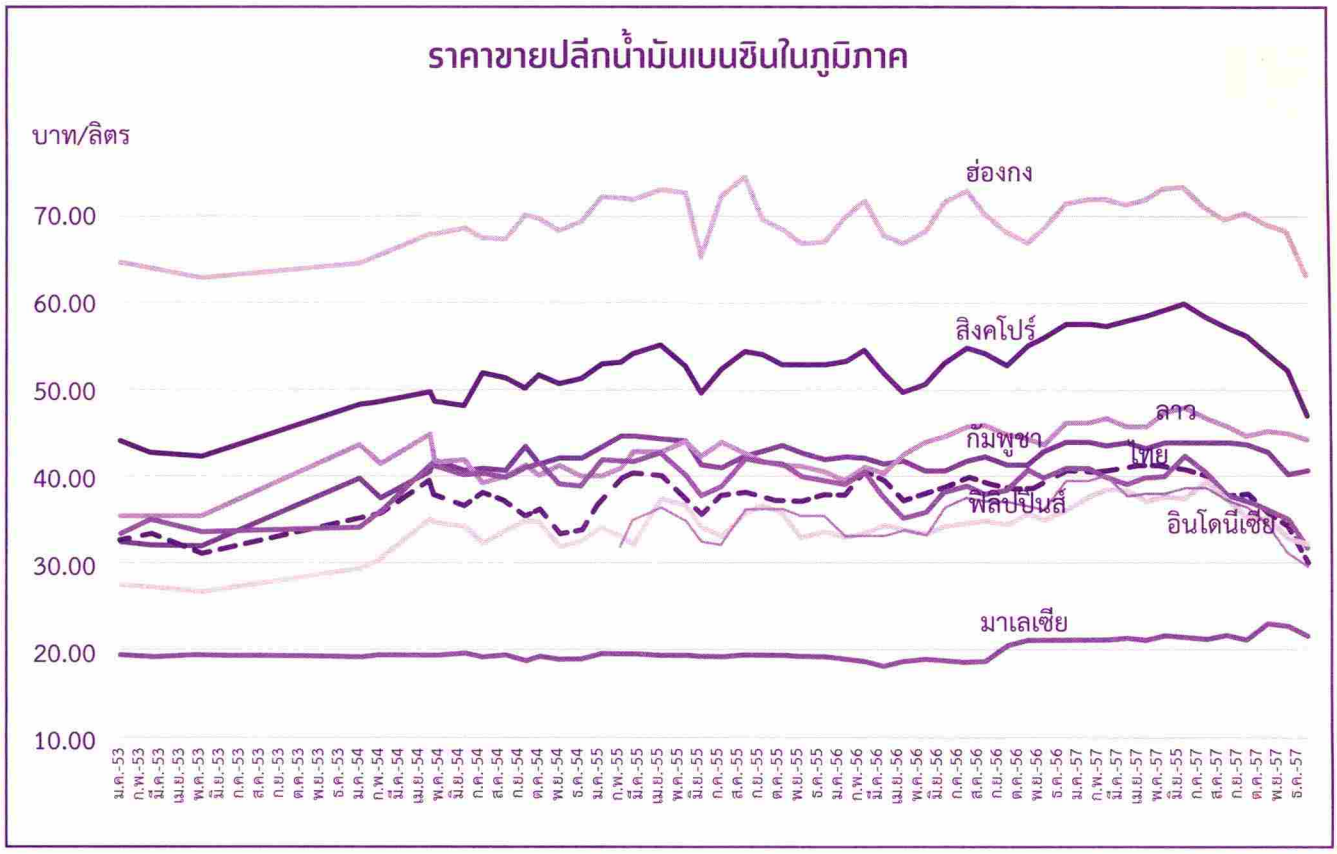
เปรียบเทียบราคาน้ำมันกับรายได้ต่อบุคคลของแต่ละประเทศ

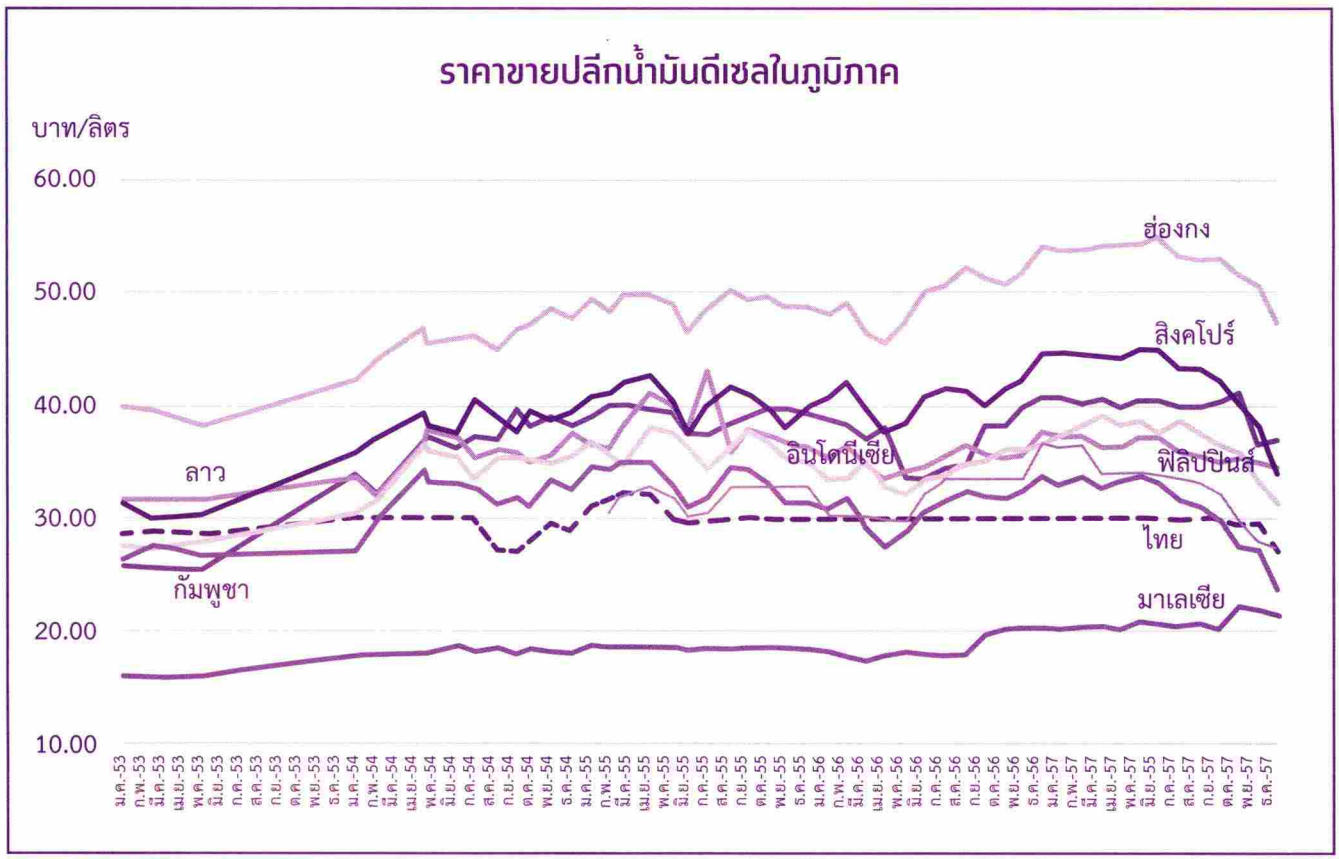
Countries classifications[1]	GNI per capita, 2014[2] (Baht)	Gasoline Price[3] (Baht/Litre)	Diesel Price[3] (Baht/Litre)	Gasoline Price per GNI per capita (%)	Diesel Price per GNI per capita (%)
Low Income Economics					
Cambodia	32,809	40.59	36.90	0.124	0.112
Lower-Middle-Income Economics					
Lao PDR	51,975	44.24	34.52	0.085	0.066
Vietnam	61,395	29.57	27.18	0.048	0.044
Philippines	111,745	31.55	23.59	0.028	0.021
Indonesia	118,567	32.27	31.28	0.027	0.026
Upper-Middle-Income-Economics					
Thailand	175,739	30.00	26.89	0.017	0.015
Malaysia	346,281	21.61	21.32	0.006	0.006
High-Income-Economics					
Korea, Rep.	879,994	48.11	42.46	0.005	0.005
U.K.	1,386,746	58.23	61.58	0.004	0.004
Hong Kong	1,309,759	63.35	47.42	0.005	0.004
Germany	1,547,543	53.35	47.09	0.003	0.003
France	1,399,415	48.87	44.31	0.003	0.003
Netherlands	1,663,511	63.64	51.86	0.004	0.003
Singapore	1,791,498	46.99	33.67	0.003	0.002
Japan	1,364,332	41.23	35.75	0.003	0.003
U.S.A.	1,793,122	20.11	28.11	0.001	0.002

Price as of 30 December 2014

Reference : 1. - 2. The World Bank
3. Compiled by EPPO

ราคาขายปลีกน้ำมันเบนซินและดีเซลในภูมิภาค





Chapter 8 : Petroleum Prices

Oil Price Structures in Thailand. Oil prices in Thailand can be mainly divided into ex-refinery price, wholesale price and retail price. The wholesale price comprises the ex-refinery price plus the excise tax, municipality tax, contribution to the Oil Fund, contribution to the Energy Conservation Promotion Fund (ENCON Fund) and value added tax (VAT). The retail price comprises the wholesale price plus the marketing margin and VAT.

Determination of Petroleum Product Prices by Thai Refineries. The import parity basis is applied to the determination of wholesale prices of petroleum products. Singapore market price is used as the reference in determining prices of petroleum products. There are some reasons on this. The price is influenced by the larger export market in the Asian region, such as Singapore, which is also near to Thailand, and hence the low cost of imported oil of transportation to Thailand. Moreover, the trading volume in the market is in a size that makes it less fluctuates in oil prices than others, or more price stability. Besides, the change in prices in Singapore market is in line with other markets worldwide.

For the optimal-price mechanism, if the sale prices by refineries are higher than import prices from Singapore, oil traders would import oil instead of buying it from domestic refineries. On the contrary, if the prices were lower than import prices, the rate of return for domestic refineries will be lower than what it should be, making investment in oil refining business in Thailand unattractive. Besides, the refineries would then wish to export their products rather than selling them within the country.

Retail and Wholesale Prices of Petroleum Products in Bangkok

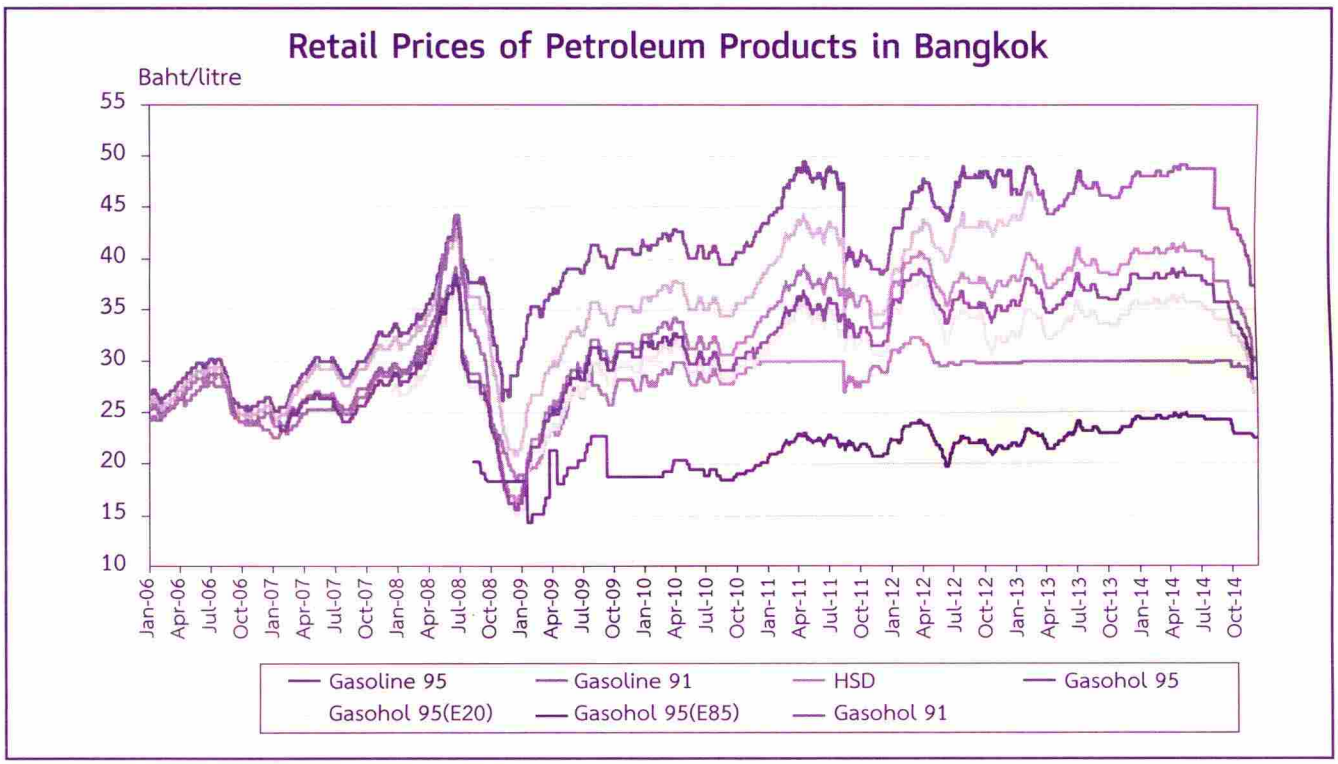


Adjustment of Retail Oil Prices in Thailand. Retail oil prices will increase or decrease in line with the ex-refinery price announcement. The determination of ex-refinery prices will, in turn, depend on the change in petroleum product prices in Singapore market and the rate of exchange (or the value of Thai Baht), which constitute the cost of petroleum product import.

Prior to the deregulation of retail oil prices, the government used the Oil Fund mechanism to stabilize the levels of wholesale prices (ex-refinery) and imported oil prices, and thus the retail prices remained unchanged. After the oil price deregulation, the wholesale prices will change in line with the ex-refinery prices set by the refineries, resulting in fluctuations in retail oil prices accordingly.

Two main petroleum products being retailed at service stations in Thailand are gasoline and diesel. As the Thai government has encouraged the use of alternative energy by reducing the rates of contribution to the Oil Fund imposed on gasohol and biodiesel to induce greater use of alternative energy by the general public, there is significant difference between the retail price of each type of gasoline (with Octane 95/91) and that of its alternate gasohol, and so is the retail price difference between high speed diesel and biodiesel.

Thai government has policy on restructure fuel prices and then Committee on Energy Policy Administration (CEPA) has restructured fuel price to reflect the actual cost according to National Energy Policy Council (NEPC) resolution on December 15th, 2014. After that gasoline price was decreased 3.70-4.90 baht/litre (except for gasohol E85)

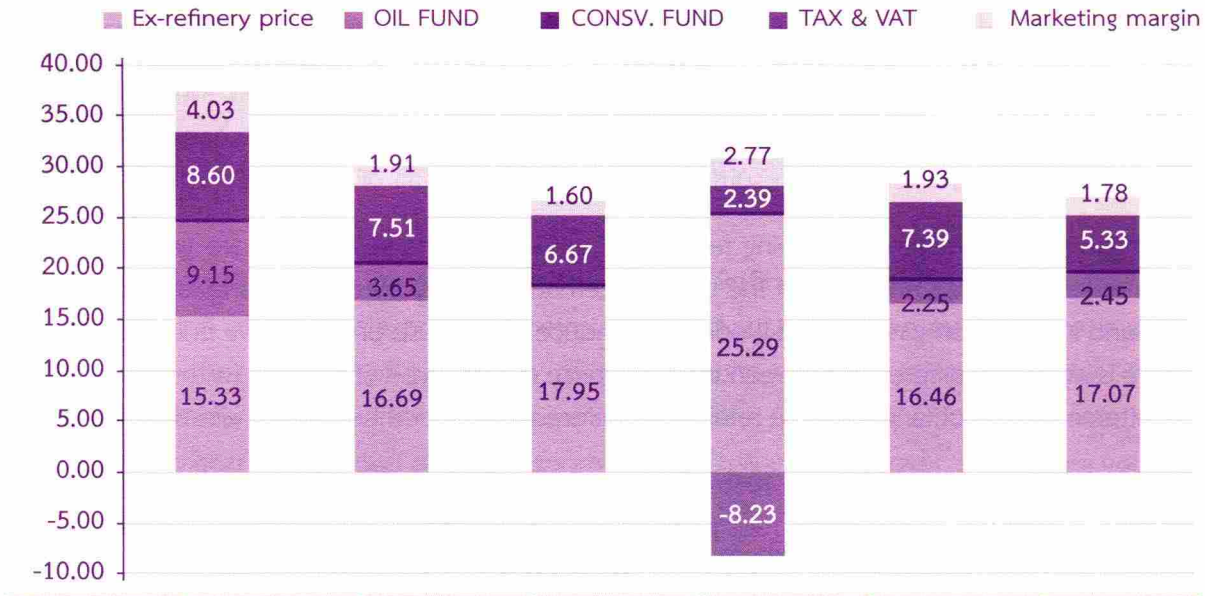


In 2014, the average retail price of each oil product in Bangkok was as follows:

Unit: Baht/litre

Product Type	Gasoline	Gasohol (E10)	Gasohol (E20)	Gasohol (E85)	Diesel
Octane 95	46.73	38.85	34.35	24.11	29.69
Octane 91	-	36.55	-	-	

Oil Price Structures in Thailand
(As of 30 December 2014)



Price	ULG 95 RON	Gasohol 95 E10	Gasohol 95 E20	Gasohol 95 E85	Gasohol 91 E10	Diesel
(Baht/Litre)	37.36	30.00	26.68	22.48	28.28	26.89

In 2014, Thai government has been deregulated the retail price of LPG in household, industry and transportation sectors to reflect the actual cost for reducing cross subsidy and smuggling gas to sell in neighboring countries as follows:

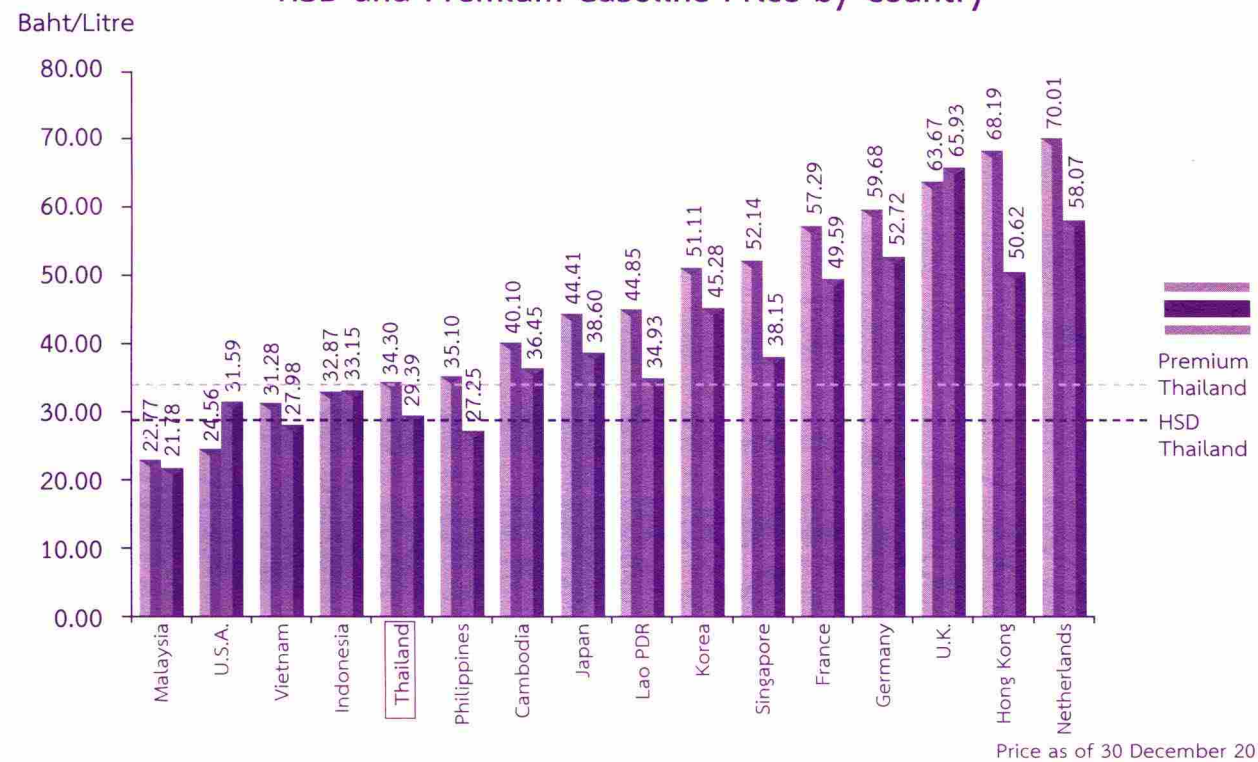
1. **Household sector:** Since August 2013, retail price was added up 0.5 baht per kilogram a month until it was 22.63 baht per kilogram in the end of May 2014. Then it was added up 2 times to 24.16 baht per kilogram in December 2014. However it was maintained at 18.13 baht per kilogram for low income household.

2. **Industrial sector:** The Committee on Energy Policy Administration (CEPA) on 14 May 2012 approved the retail price of Industries sector to reflect actual refinery cost. Finally, LPG retail price for industry was moved within 30.13 baht per kilogram which were determined to be the highest boundary. Until August 2014, CEPA reduced the rate of contribution to the Oil Fund 5 times so it was 24.16 bath per kilogram in December 2014

3. **Transportation sector:** it was maintained at 21.38 baht per kilogram until September 2014. After that it was add up 4 times and then final price was 24.16 baht per kilogram in December 2014

Upcountry Retail Price of gasoline and diesel Oil price in other countries were different by Oil price structure and subsidies in each country. When we compared Thailand's oil price on December 31, 2014 with Asian region price, it was found Octane 95(E10) price was higher than Indonesia and Vietnam. In fact, it was cheaper or higher that should compare with ability to buy or Gross National Income per capita (GNI per Capita). After comparing, ratio of Gasoline price was 0.017 that showed Thailand oil price was cheaper than Indonesia and Vietnam.

HSD and Premium Gasoline Price by Country



Price as of 30 December 2014

Foreign Exchange Rates as of 30 December 2014 from Bank of Thailand

Diesel and Premium Gasoline Price per GNI per Capita

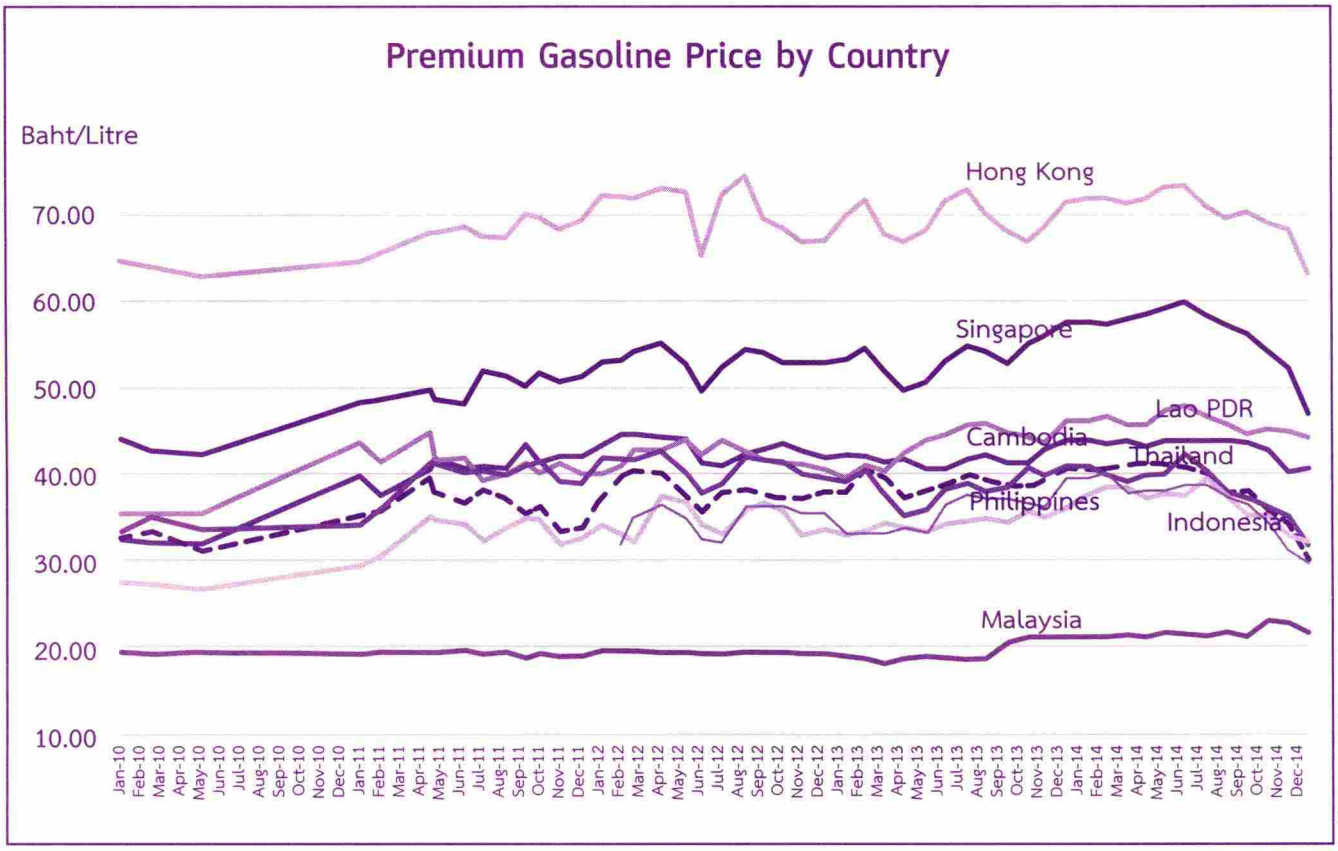
Countries classifications[1]	GNI per capita, 2014[2] (Baht)	Gasoline Price[3] (Baht/Litre)	Diesel Price[3] (Baht/Litre)	Gasoline Price per GNI per capita (%)	Diesel Price per GNI per capita (%)
Low Income Economics					
Cambodia	32,809	40.59	36.90	0.124	0.112
Lower-Middle-Income Economics					
Lao PDR	51,975	44.24	34.52	0.085	0.066
Vietnam	61,395	29.57	27.18	0.048	0.044
Philippines	111,745	31.55	23.59	0.028	0.021
Indonesia	118,567	32.27	31.28	0.027	0.026
Upper-Middle-Income-Economics					
Thailand	175,739	30.00	26.89	0.017	0.015
Malaysia	346,281	21.61	21.32	0.006	0.006
High-Income-Economics					
Korea, Rep.	879,994	48.11	42.46	0.005	0.005
U.K.	1,386,746	58.23	61.58	0.004	0.004
Hong Kong	1,309,759	63.35	47.42	0.005	0.004
Germany	1,547,543	53.35	47.09	0.003	0.003
France	1,399,415	48.87	44.31	0.003	0.003
Netherlands	1,663,511	63.64	51.86	0.004	0.003
Singapore	1,791,498	46.99	33.67	0.003	0.002
Japan	1,364,332	41.23	35.75	0.003	0.003
U.S.A.	1,793,122	20.11	28.11	0.001	0.002

Price as of 30 December 2014

Reference : 1. - 2. The World Bank

3. Compiled by EPPO

Gasoline and Diesel Price by Country



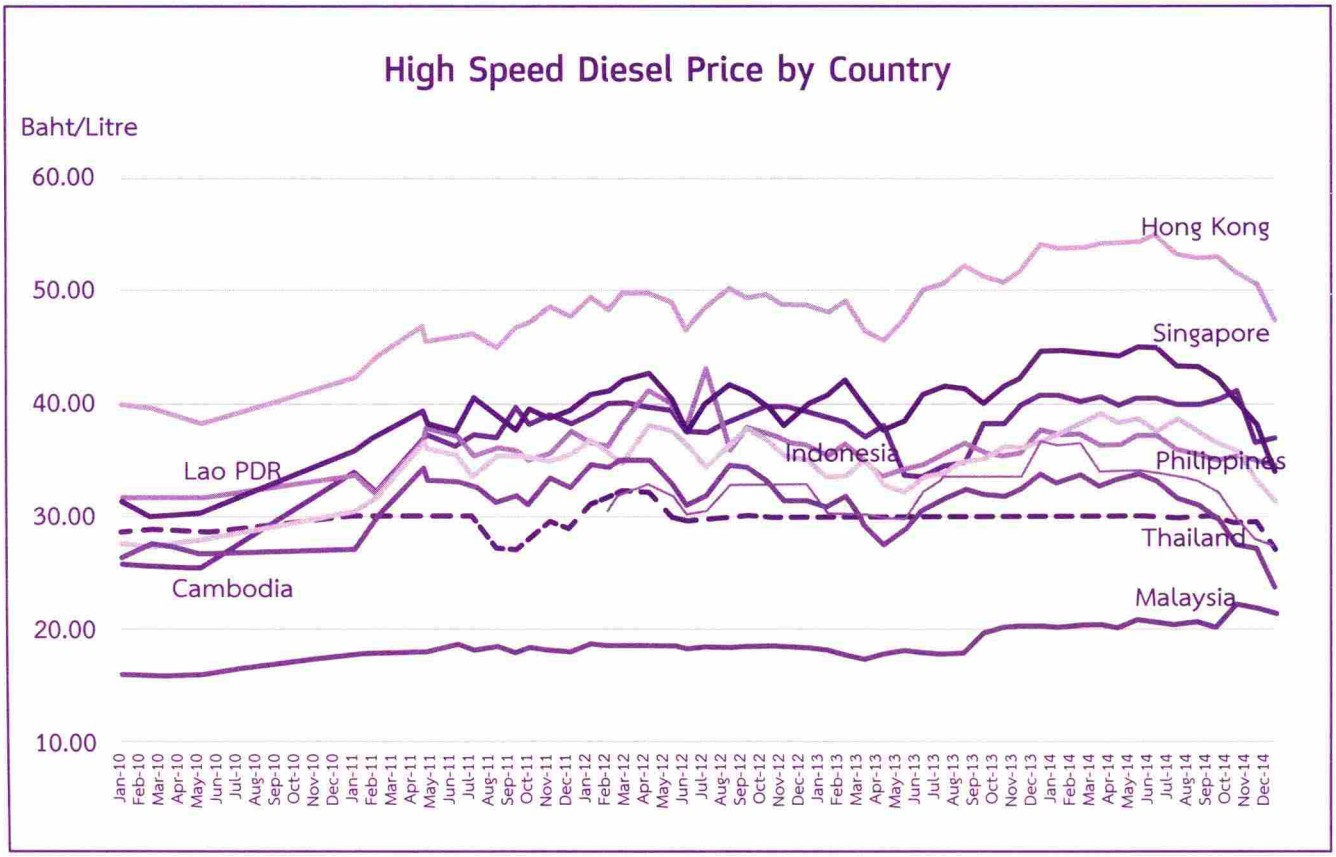


Table 8.1-1Y
Rates of Exchange in Bangkok

Unit : Baht

Year	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2002	63.97	64.94	42.81	43.10	23.81	24.25	0.34	0.35	41.37	42.00
2003	67.36	68.19	41.34	41.63	23.62	23.99	0.36	0.36	46.56	47.29
2005	72.71	73.33	40.07	40.33	24.33	24.66	0.36	0.37	49.51	50.07
2006	69.32	70.15	37.74	38.03	23.64	24.03	0.32	0.33	47.24	47.87
2007	68.60	69.41	34.35	34.69	22.69	23.13	0.29	0.30	46.92	47.61
2008	61.15	62.05	33.14	33.49	23.32	23.79	0.32	0.45	48.56	49.30
2009	53.12	54.00	34.10	34.47	23.33	23.82	0.36	0.54	47.32	48.10
2010	48.52	49.38	31.49	31.87	22.97	23.48	0.36	0.37	41.68	42.43
2011	48.37	49.24	30.25	30.63	23.94	24.50	0.38	0.39	41.97	42.73
2012	48.76	49.62	30.84	31.22	24.56	25.12	0.38	0.39	39.59	40.31
2013	47.59	48.42	30.49	30.86	24.24	24.79	0.31	0.32	40.43	41.14
2014	53.00	53.86	32.25	32.62	25.32	25.88	0.30	0.31	42.78	43.50

Table 8.1-2Y
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Year	Ex-Refinery Price													
	ULG 95	UGR 91	Gasohol 95			Gasohol 91	KERO	HSD	HSD B5	LSD	FO 1500 (2%S)	LPG (B/Kg)			
			(E10)	(E20)	(E85)							Low income household	Cooking	Industry	Automobile
1996	4.33	3.79					4.79	4.70		4.32	2.83		5.95	5.95	
1997	5.40	4.99					5.27	5.29		4.58	3.36		7.36	7.36	
1998	5.12	4.48					4.60	4.53		4.12	3.14		6.15	6.15	
1999	5.44	4.87					5.35	4.97		4.53	3.87		7.83	7.83	
2000	8.64	8.07					8.91	8.63		8.20	6.39		11.96	11.96	
2001	8.12	7.50					8.05	8.15		7.65	5.96		11.29	11.29	
2002	7.98	7.44					7.68	7.84		7.41	6.35		9.90	9.90	
2003	9.44	8.90					8.67	8.90		8.73	7.05		11.36	11.36	
2004	12.35	11.81					12.06	12.16		11.82	7.62		12.32	12.32	
2005	16.26	15.75					17.31	16.95		16.56	10.06		12.73	12.73	
2006	17.84	17.39	18.68				19.51	18.92	17.32	18.45	12.67		11.96	11.96	
2007	18.36	17.94	18.53			18.57	19.23	19.06	20.27	18.63	13.17		11.19	11.19	
2008	21.73	21.31	21.62	21.42		21.43	25.68	25.60	25.86	25.00	16.91		10.99	10.99	
2009	15.66	15.03	16.29	16.82	19.61	15.92	15.40	15.62	15.98	15.02	12.85		11.08	11.08	
2010	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	19.01	17.98	14.94		10.69	10.69	
2011	23.34	22.92	23.61	23.80	24.17	23.40	24.47	24.82	25.23	23.95	19.50		10.16	9.25	
2012	25.03	24.57	24.79	24.46	21.48	24.56	25.27	26.01		24.84	20.66		10.44	10.44	10.44
2013	23.91	20.70	24.24	24.48	25.19	24.02	24.17	24.81		23.77	18.80	10.54	10.40	10.40	10.40
2014	23.93		24.44	24.85	26.69	24.21	23.68	24.60		23.28	18.40	10.84	10.84	10.84	10.84

Table 8.1-3Y
Oil Fund Levied (Ex-Refinery) on Petroleum Products in Thailand

UNIT: Baht/Litre

Year	ULG 95	UGR 91	Gasohol 95			Gasohol 91	Kerosene	HSD	HSD	HSD B5	LSD	FO 1500	LPG (B/kg)			
			(E10)	(E20)	(E85)			0.05%S	0.035%S				Low income household	Cooking	Industry	Automobile
1996	0.11	0.11					0.03	0.16			0.12	0.03		-0.64		
1997	0.08	0.08					0.06	0.07			0.04	0.03		-1.89		
1998	0.16	0.16					0.10	0.15			0.13	0.06		0.40		
1999	0.09	0.09					0.10	0.10			0.08	0.06		-2.94		
2000	0.34	0.22					0.10	0.11			0.11	0.06		-7.31		
2001	0.50	0.30					0.10	0.50			0.50	0.06		-5.55		
2002	0.50	0.30	0.27			0.27	0.10	0.50			0.50	0.06		-2.45		
2003	0.49	0.30	0.27			0.27	0.10	0.44			0.50	0.06		-3.05		
2004	-0.34	-0.59	0.24			0.27	0.10		-2.24		-2.27	0.06		-2.55		
2005	1.28	1.03	0.13			0.16	0.10		-0.92		-1.02	0.06		-2.54		
2006	2.70	2.50	0.84			0.84	0.10		1.47	0.41	1.47	0.06		-1.93		
2007	3.67	3.37	0.85			0.62	0.10		1.39	0.60	1.39	0.06		-1.02		
2008	3.78	3.31	0.77	-0.21		0.28	0.10		0.40	-0.68	0.31	0.06		0.30		
2009	6.94	5.31	1.78	-0.80	-7.88	1.17	0.10		0.78	-0.95	1.20	0.06		0.22		
2010	7.50	6.65	2.74	-0.41	-10.93	1.43	0.10		0.66	-0.65	1.20	0.06		0.61		
2011	4.90	4.38	1.87	-1.80	-13.50	-0.40	0.10	0.10	-0.60	-3.01	1.20	0.06		1.14		
2012	5.23	4.73	2.03	-1.30	-12.40	0.16	0.10	0.10	0.69		1.20	0.06		0.89	10.55	3.34
2013	9.57	6.42	3.41	-1.08	-11.43	1.27	0.10	0.10	1.49		1.20	0.06	0.76	1.47	11.92	4.11
2014	10.00		3.69	-0.40	-10.34	1.73	0.10	0.10	1.16		1.20	0.06	0.46	4.07	10.69	3.86

Table 8.1-4Y
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Year	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
1993														
WT.AVG	7.77					8.01	6.92		6.74			2.76	2.65	8.23
TRADER COST	7.62					8.01	6.90		6.74			2.73	2.65	8.23
1994														
WT.AVG	7.10					7.56	6.38		6.12	3.71	3.63	2.98	2.94	8.23
TRADER COST	7.07					7.56	6.39		6.13	3.59	3.55	2.98	2.92	8.23
1995														
WT.AVG	7.38					7.75	6.53		6.31	3.93	3.78	3.34	3.39	8.23
TRADER COST	7.19					7.75	6.49		6.31	3.89	3.74	3.34	3.38	8.23
1996														
WT.AVG	7.64					8.73	7.62		7.29	4.46	4.28	3.82	3.90	8.23
TRADER COST	7.61					8.73	7.63		7.29	4.46	4.09	3.82	3.90	8.23
1997														
WT.AVG	8.81					9.24	8.22		7.86	5.09	4.74	4.46	4.31	8.81
TRADER COST	8.81					9.19	8.24		7.86	5.09	4.69	4.46	4.31	8.81
1998														
WT.AVG	9.93					8.77	7.78		7.45	4.66	4.42	3.92	4.11	9.95
TRADER COST	9.93					8.76	7.80		7.45	4.66	4.40	3.92	4.12	9.95
1999														
WT.AVG	10.35					9.48	8.09		7.71	4.92	4.82	4.28	4.57	8.09
TRADER COST	10.35					9.42	8.10		7.71	4.92	4.79	4.28	4.57	8.09
2000														
WT.AVG	12.91					12.29	11.18		10.91	7.18	6.82	6.31	6.64	6.96
TRADER COST	13.98					13.25	12.13		11.79	7.78	7.38	6.84	7.15	7.54
2001														
WT.AVG	13.63					12.35	12.01		11.60	7.24	6.89	6.56	6.67	8.73
TRADER COST	13.63					12.37	12.04		11.60	7.24	6.90	6.56	6.67	8.73
2002														
WT.AVG	11.55					10.23	10.03		9.76	6.46	6.24	5.93	6.17	8.87
TRADER COST	13.47					11.91	11.70		11.39	7.54	7.25	6.92	7.19	10.35
2003														
WT.AVG	15.12	14.29				13.09	12.89		12.68	8.45	8.08	7.64	7.98	11.52
TRADER COST	15.12	14.27				13.09	12.90		12.68	8.45	8.08	7.64	7.98	11.52
2004														
WT.AVG	17.39	16.54				16.67	13.48		13.30	9.31	8.58	8.21	8.27	12.13
TRADER COST	17.39	16.54				16.67	13.65		13.30	9.31	8.57	8.21	8.27	12.13
2005														
WT.AVG	23.02	22.29				22.27	19.34		18.88	12.99	12.06	11.73	11.48	12.46
TRADER COST	23.01	22.29				22.22	19.42		18.88	13.02	12.03	11.73	11.48	12.46

Table 8.1-4Y (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Year	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2006														
WT.AVG	26.42	25.71				24.40	24.49	23.05	23.12	14.79	13.91	13.28	13.03	12.46
TRADER COST	26.42	25.71				24.40	24.50	21.49	23.12	14.79	13.85	13.28	13.03	12.46
2007														
WT.AVG	28.02	27.27	24.28		23.93	24.04	24.76	24.21	23.30	15.73	14.89	14.26	14.04	12.46
TRADER COST	28.02	27.26	24.28		23.93	24.04	24.75	24.14	23.30	15.73	14.82	14.26	14.04	12.46
2008														
WT.AVG	32.45	31.55	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.43	18.71	18.66	13.68
TRADER COST	32.45	31.56	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.35	18.71	18.66	13.68
2009														
WT.AVG	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.27	13.89	13.87	13.69
TRADER COST	31.96	29.70	25.77	22.57	24.73	19.92	22.82	20.13	20.02	14.75	14.22	13.89	13.87	13.69
2010														
WT.AVG	36.06	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.80	16.42	16.41	13.69
TRADER COST	36.07	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.74	16.42	16.41	13.69
2011														
WT.AVG	38.99	37.76	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.15	21.69	21.61	13.69
TRADER COST	38.99	37.75	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.05	21.69	21.61	13.69
2012														
WT.AVG	41.03	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.31	22.94	22.66	13.69
TRADER COST	41.02	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.22	22.94	22.66	13.69
2013														
WT.AVG	44.52	37.07	37.40	31.72	35.65	29.23	27.90		30.22	22.24	21.39	21.17	20.95	13.69
TRADER COST	44.51	36.65	37.40	31.72	35.65	29.23	27.90		30.22	22.24	21.30	21.17	20.95	13.69
2014														
WT.AVG	44.28		37.29	32.41	35.95	28.39	27.34		29.39	21.41	20.59	20.97	20.45	13.69
TRADER COST	44.28		37.29	32.41	35.95	28.39	27.35		29.39	21.41	20.51	20.97	20.45	13.69

Table 8.1-5Y
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
1997 (Min)	10.43	10.04					10.90	9.43		9.21	5.67	5.43		11.36		10.46	5.65
(WT.AVG)	10.48	10.09					11.17	9.49		9.48	5.85	5.45		11.36		10.53	5.68
(Max)	10.50	10.12					11.40	9.51		10.00	6.06	5.97		11.36		10.58	5.71
1998 (Min)	11.84	11.18					11.16	9.18		8.80	6.59	6.21		12.70		11.94	6.45
(WT.AVG)	11.86	11.20					11.70	9.19		9.54	6.79	6.42		12.70		11.94	6.45
(Max)	11.87	11.20					12.10	9.19		10.93		7.01		12.70		11.94	6.45
1999 (Min)	11.96	11.14					11.25	8.95		8.58	6.41	6.09		11.03		10.75	5.81
(WT.AVG)	11.98	11.16					11.63	8.96		8.95	6.87	6.29		11.03		10.75	5.81
(Max)	11.98	11.17					11.93	8.97		9.51	7.86	7.69		11.03		10.75	5.81
2000 (Min)	15.62	14.66					14.83	12.92		12.58	9.30	8.94		10.70		10.57	5.71
(WT.AVG)	15.63	14.68					15.10	12.95		12.77	9.68	9.22		10.70		10.57	5.71
(Max)	15.64	14.68					15.43	12.97		12.94	10.47	10.25		10.70		10.57	5.71
2001 (Min)	15.50	14.50					15.33	13.42		13.05	9.39	8.90		11.90		12.00	6.48
(WT.AVG)	15.51	14.51					15.97	13.43		13.18	9.76	9.25		11.90		12.00	6.48
(Max)	15.51	14.51					16.53	13.43		13.30	10.41	9.98		11.90		12.00	6.48
2002 (Min)	15.29	14.29					14.54	13.12		12.72	9.31	8.96		13.77		13.98	7.55
(WT.AVG)	15.29	14.29					15.56	13.12		12.83	9.91	9.24		13.77		13.98	7.55
(Max)	15.29	14.29					16.12	13.12		12.98	10.65	10.19		13.77		13.98	7.55
2003 (Min)	16.60	15.65					15.60	14.03		13.58	10.38	10.02		14.87		14.88	8.05
(WT.AVG)	16.60	15.65					16.71	14.03		13.73	11.00	10.36		14.87		14.88	8.05
(Max)	16.60	15.65					17.41	14.03		13.85	12.40	11.80		14.87		14.88	8.05
2004 (Min)	19.05	18.26					17.73	14.59		14.28	10.66	10.25		16.46		16.46	8.90
(WT.AVG)	19.05	18.26					19.50	14.59		14.37	11.75	10.98		16.46		16.46	8.90
(Max)	19.05	18.26					20.22	14.59		14.45	13.02	12.53		16.46		16.46	8.90
2005 (Min)	23.89	23.09					22.06	20.01		17.14	13.75	13.10		16.81		16.81	9.09
(WT.AVG)	23.90	23.10					24.51	20.03		18.18	15.83	15.09		16.81		16.81	9.09
(Max)	23.91	23.11					25.71	20.05		19.91	17.30	16.86		16.81		16.81	9.09

Table 8.1-5Y (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2006 (Min)	27.54	26.75					26.87	25.56	25.06	25.37	17.22	16.35		16.81		16.81	9.09
(WT.AVG)	27.58	26.79					28.42	25.59	25.09	25.37	18.11	17.29		16.81		16.81	9.09
(Max)	27.66	26.86					29.25	25.61	25.18	25.37	19.27	18.79		16.81		16.81	9.09
2007 (Min)	29.18	28.32	26.17			25.76	26.01	25.66	24.95	25.45	18.48	17.66		16.91		16.91	9.14
(WT.AVG)	29.18	28.32	26.17			25.76	28.94	25.66	24.95	25.45	19.35	18.45		16.91		16.91	9.14
(Max)	29.23	28.35	26.25			25.76	30.50	25.67	24.95	25.45	20.67	20.19		16.91		16.91	9.14
2008 (Min)	34.86	33.40	28.95	27.36		28.15	34.99	31.15	30.34	33.20	22.53	21.06		18.13		18.13	9.79
(WT.AVG)	35.33	33.43	28.97	27.37		28.16	38.34	31.26	30.39	33.20	24.30	22.90		18.13		18.13	9.79
(Max)	35.89	33.45	29.02	27.37		28.20	40.88	31.34	30.50	33.20	27.12	26.11		18.13		18.13	9.79
2009 (Min)	37.23	31.32	27.49	25.39	18.77	26.65	26.20	24.75	22.71	27.04	18.10	16.39		18.13		18.13	9.79
(WT.AVG)	37.47	31.34	27.50	25.39	18.87	26.69	37.21	24.77	22.71	27.04	21.18	19.83		18.13		18.13	9.79
(Max)	38.29	31.36	27.53	25.39	18.96	26.74	39.88	24.79	22.73	27.04	27.28	25.90		18.13		18.13	9.79
2010 (Min)	41.12	36.08	32.30	29.96	19.21	30.84	28.68	28.64	27.50	27.04	21.06	19.35		18.13		18.13	9.79
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85	37.51	28.69	27.55	27.04	23.59	22.04		18.13		18.13	9.79
(Max)	41.90	36.13	32.40	29.96	19.21	30.90	39.88	28.72	27.58	27.04	27.28	25.90		18.13		18.13	9.79
2011 (Min)	44.51	39.68	36.48	32.94	21.75	33.94	32.11	29.40	29.65	27.04	26.69	25.19		18.13	20.38	18.13	9.79
(WT.AVG)	44.64	39.72	36.52	32.94	21.75	33.96	38.21	29.45	29.95	27.04	28.58	26.68		18.13	20.38	18.13	9.79
(Max)	45.31	39.80	36.65	32.94	21.75	34.12	39.88	29.54	30.17	27.04	30.98	29.76		18.13	20.38	18.13	9.79
2012 (Min)	46.27	41.94	37.94	34.34	22.22	35.88	36.15	30.41		27.04	29.72	28.12		18.13	28.71	20.65	11.15
(WT.AVG)	46.42	41.96	37.96	34.35	22.23	35.94	36.15	30.42		27.04	31.33	29.41		18.13	28.71	20.76	11.21
(Max)	47.19	42.01	38.01	34.36	22.23	36.00	36.15	30.51		27.04	33.33	32.10		18.13	28.71	20.86	11.26
2013 (Min)	46.41	45.07	38.80	33.79	22.73	36.33	35.46	29.97		27.04	27.62	25.94	18.13	18.40	29.70	21.38	11.55
(WT.AVG)	46.66	45.19	38.89	33.82	22.74	36.43	35.46	29.97		27.04	29.25	27.24	18.13	18.40	29.70	21.38	11.55
(Max)	46.91	45.66	38.95	33.87	22.74	36.50	35.46	30.01		27.04	31.27	29.95	18.13	18.40	29.70	21.38	11.55
2014 (Min)	46.43		38.83	34.37	24.11	36.53	35.26	29.69		27.04	28.03	26.32	18.13	22.25	29.07	21.68	11.71
(WT.AVG)	46.73		38.85	34.35	24.11	36.55	35.26	29.69		27.04	29.64	27.61	18.13	22.35	29.07	21.80	11.77
(Max)	46.92		38.94	34.43	24.11	36.60	35.26	29.73		27.04	31.64	30.31	18.13	22.38	29.07	21.86	11.81

Table 8.1-6Y
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Year	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
1990	-1,368	-1,502	
1991	6,647	8,015	
1992	1,930	-4,717	
1993	78	-1,852	
1994	-732	-810	
1995	-1,116	-384	
1996	787	1,903	58,899
1997	235	-552	64,768
1998	4,606	4,371	66,139
1999	4,418	-187	65,076
2000	-4,673	-9,091	65,025
2001	-10,351	-10,351	65,602
2002	-4,156	6,195	67,726
2003	-2,469	1,687	72,962
2004	-50,227	-47,758	78,754
2005	-76,815	-26,588	77,021
2006	-41,411	35,404	74,102
2007	0	41,411	76,962
2008	11,069	11,069	54,083
2009	21,294	10,225	123,445
2010	27,441	6,147	153,561
2011	-14,000	-41,441	92,766
2012	-16,800	-2,800	56,699
2013	1,706	18,506	63,092
2014	15,860	14,154	66,787

Table 8.1-1M
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2010	**48.52**	**49.38**	**31.49**	**31.87**	**22.97**	**23.48**	**0.36**	**0.37**	**41.68**	**42.43**
Jan	52.90	53.79	32.80	33.16	23.37	23.87	0.36	0.37	47.07	47.86
Feb	51.36	52.24	32.91	33.29	23.18	23.68	0.36	0.37	44.93	45.70
Mar	48.42	49.28	32.27	32.65	22.93	23.44	0.35	0.36	43.69	44.45
Apr	48.95	49.81	32.05	32.42	23.07	23.58	0.34	0.35	42.83	43.58
May	46.95	47.82	32.15	32.54	22.95	23.46	0.35	0.36	40.20	40.94
Jun	47.38	48.23	32.23	32.61	22.93	23.41	0.35	0.36	39.25	39.97
Jul	48.88	49.73	32.09	32.47	23.17	23.68	0.36	0.37	40.88	41.62
Aug	49.24	50.10	31.51	31.89	23.13	23.65	0.37	0.38	40.58	41.31
Sep	47.48	48.34	30.60	30.98	22.78	23.31	0.36	0.37	39.81	40.55
Oct	46.99	47.86	29.73	30.11	22.67	23.20	0.36	0.37	41.16	41.91
Nov	47.23	48.09	29.65	30.02	22.73	23.26	0.36	0.37	40.46	41.20
Dec	46.45	47.30	29.88	30.26	22.72	23.26	0.36	0.36	39.32	40.05
2011	**48.37**	**49.24**	**30.25**	**30.63**	**23.94**	**24.50**	**0.38**	**0.39**	**41.97**	**42.73**
Jan	47.72	48.58	30.34	30.72	23.44	23.98	0.37	0.37	40.41	41.13
Feb	49.02	49.89	30.48	30.86	23.75	24.29	0.37	0.38	41.53	42.28
Mar	48.57	49.45	30.13	30.51	23.63	24.18	0.37	0.38	42.06	42.82
Apr	48.67	49.55	29.81	30.20	23.80	24.37	0.36	0.37	42.98	43.75
May	48.89	49.77	30.01	30.38	24.13	24.69	0.37	0.38	42.85	43.62
Jun	49.00	49.87	30.27	30.65	24.39	24.96	0.37	0.38	43.45	44.22
Jul	48.02	48.89	29.84	30.22	24.40	24.97	0.37	0.38	42.53	43.30
Aug	48.39	49.27	29.64	30.02	24.39	24.97	0.38	0.39	42.41	43.17
Sep	47.53	48.38	30.18	30.56	24.03	24.59	0.39	0.40	41.47	42.20
Oct	48.07	48.94	30.65	31.03	23.86	24.40	0.40	0.41	41.84	42.58
Nov	48.42	49.29	30.72	31.09	23.71	24.25	0.39	0.40	41.56	42.29
Dec	48.15	49.01	30.97	31.35	23.78	24.32	0.40	0.40	40.60	41.34
2012	**48.76**	**49.62**	**30.84**	**31.22**	**24.56**	**25.12**	**0.38**	**0.39**	**39.59**	**40.31**
Jan	48.46	49.31	31.34	31.71	24.38	24.93	0.41	0.41	40.29	41.02
Feb	48.04	48.90	30.49	30.87	24.20	24.75	0.39	0.40	40.20	40.89
Mar	48.08	48.94	30.45	30.83	24.08	24.63	0.37	0.38	40.14	40.87
Apr	49.02	49.90	30.65	31.03	24.38	24.94	0.37	0.38	40.87	41.61
May	49.35	50.22	31.10	31.48	24.50	25.05	0.39	0.40	39.65	40.37
Jun	48.73	49.60	31.42	31.79	24.46	25.01	0.39	0.40	39.30	40.02
Jul	48.85	49.71	31.41	31.79	24.77	25.33	0.40	0.40	38.53	39.24
Aug	48.89	49.75	31.19	31.57	24.85	25.42	0.39	0.40	38.58	39.28
Sep	49.41	50.27	30.76	31.14	24.84	25.41	0.39	0.40	39.44	40.15
Oct	48.85	49.69	30.46	30.84	24.75	25.31	0.38	0.39	39.36	40.08
Nov	48.53	49.38	30.47	30.85	24.78	25.34	0.37	0.38	38.99	39.70
Dec	48.93	49.79	30.40	30.78	24.76	25.34	0.36	0.37	39.78	40.49

Table 8.1-1M (Cont.)
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2013	**47.59**	**48.42**	**30.49**	**30.86**	**24.24**	**24.79**	**0.31**	**0.32**	**40.43**	**41.14**
Jan	47.53	48.37	29.83	30.21	24.16	24.72	0.33	0.34	39.53	40.23
Feb	45.78	46.61	29.58	29.96	23.76	24.32	0.32	0.32	39.81	40.53
Mar	44.04	44.85	29.28	29.66	23.37	23.92	0.31	0.31	37.85	38.55
Apr	43.92	44.72	28.81	29.18	23.15	23.69	0.29	0.30	37.38	38.06
May	45.03	45.83	29.54	29.92	23.54	24.08	0.29	0.30	38.22	38.91
Jun	47.26	48.08	30.59	30.97	24.15	24.69	0.31	0.32	40.26	40.97
Jul	46.76	47.57	30.89	31.26	24.23	24.77	0.31	0.32	40.30	41.01
Aug	48.51	49.34	31.38	31.76	24.52	25.06	0.32	0.33	41.69	42.41
Sep	49.74	50.58	31.47	31.85	24.79	25.33	0.32	0.32	41.89	42.60
Oct	49.72	50.56	30.98	31.35	24.77	25.32	0.32	0.32	42.12	42.84
Nov	50.40	51.25	31.39	31.77	25.04	25.60	0.31	0.32	42.25	42.97
Dec	52.40	53.25	32.11	32.48	25.37	25.93	0.31	0.32	43.84	44.57
2014	**53.00**	**53.86**	**32.25**	**32.62**	**25.32**	**25.88**	**0.30**	**0.31**	**42.78**	**43.50**
Jan	53.73	54.59	32.70	33.08	25.56	26.12	0.31	0.32	44.44	45.18
Feb	53.51	54.37	32.42	32.79	25.46	26.02	0.32	0.32	44.14	44.87
Mar	53.32	54.18	32.16	32.53	25.24	25.79	0.31	0.32	44.35	45.06
Apr	53.61	54.48	32.08	32.46	25.42	25.98	0.31	0.32	44.19	44.92
May	54.27	55.14	32.29	32.66	25.67	26.23	0.32	0.32	44.22	44.95
Jun	54.42	55.29	32.28	32.65	25.66	26.22	0.31	0.32	44.27	45.00
Jul	54.30	55.17	31.87	32.24	25.51	26.07	0.31	0.32	43.04	43.76
Aug	52.94	53.81	31.77	32.15	25.32	25.88	0.31	0.31	42.20	42.91
Sep	52.01	52.86	31.95	32.32	25.18	25.73	0.30	0.30	41.15	41.86
Oct	51.67	52.52	32.22	32.59	25.15	25.70	0.30	0.30	40.75	41.45
Nov	51.25	52.10	32.55	32.93	25.00	25.54	0.28	0.29	40.49	41.20
Dec	50.92	51.77	32.67	33.05	24.70	25.24	0.27	0.28	40.14	40.84

Table 8.1-2M
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Year/ Month	EX-REFINERY PRICE														
	ULG 95	UGR 91	Gasohol 95			Gasohol 91	KERO	HSD	HSD B5	LSD	FO 1500 (2%S)	LPG (B/Kg)			
			(E10)	(E20)	(E85)							Low Income Household	Cooking	Industry	Automobile
2010	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	19.01	17.98	14.94		10.69		
Jan	19.09	18.18	19.80	20.42	23.54	19.17	18.31	18.37	18.77	17.74	16.13		11.10		
Feb	18.48	18.03	18.92	19.27	20.63	18.70	17.49	17.91	18.26	17.30	15.38		11.04		
Mar	19.04	18.59	19.34	19.55	19.99	19.12	18.23	18.68	19.04	18.08	15.32		11.08		
Apr	19.54	19.09	19.92	20.22	21.27	19.71	19.52	19.85	20.16	19.29	15.78		10.86		
May	18.00	17.55	18.68	19.27	22.23	18.46	18.48	18.81	19.15	18.23	15.05		10.79		
Jun	17.50	17.05	18.26	18.92	22.38	18.04	18.06	18.37	18.61	17.66	14.39		10.83		
Jul	17.25	16.80	17.88	18.43	21.08	17.67	17.72	18.05	18.26	17.37	14.45		10.85		
Aug	17.04	16.70	17.87	18.50	21.74	17.65	17.94	18.41	18.63	17.71	14.60		10.80		
Sep	16.43	16.01	17.25	17.98	21.90	17.04	17.36	17.72	17.98	16.99	13.81		10.61		
Oct	17.29	16.87	18.39	19.40	25.19	18.18	18.10	18.37	18.66	17.61	14.23		10.31		
Nov	17.94	17.53	18.97	19.91	25.22	18.76	18.77	19.20	19.60	18.28	14.82		10.02		
Dec	19.67	19.26	20.59	21.42	26.01	20.39	19.94	20.54	21.02	19.49	15.37		9.99		
2011	23.34	22.92	23.61	23.80	24.17	23.40	24.47	24.82	25.23	23.95	19.50		10.16	9.25	
Jan	20.79	20.37	21.65	22.42	26.58	21.44	21.35	22.13	22.77	20.80	16.21		10.07		
Feb	21.90	21.47	22.55	23.13	26.00	22.34	23.43	24.15	24.91	22.61	18.36		10.22		
Mar	23.49	23.06	24.00	24.42	26.36	23.78	25.58	25.70	26.23	24.96	19.34		10.27		
Apr	24.80	24.38	24.83	24.78	23.62	24.62	26.51	26.69	26.99	26.09	20.19		10.15		
May	24.42	23.99	24.57	24.64	24.27	24.36	25.02	25.29		24.47	19.51		10.05		
Jun	23.57	23.13	23.90	24.16	24.97	23.69	24.82	25.13		24.33	19.83		10.11		
Jul	24.24	23.81	24.41	24.50	24.27	24.20	24.84	25.12		24.40	19.89		10.20	4.61	
Aug	23.39	23.00	23.58	23.70	23.61	23.40	23.84	24.04		23.18	19.25		10.06	10.06	
Sep	24.31	23.89	24.36	24.32	23.26	24.15	24.12	24.44		23.65	19.76		9.99	9.99	
Oct	24.05	23.61	24.25	24.36	24.25	24.03	24.27	24.30		23.61	20.02		10.17	10.17	
Nov	22.48	22.05	22.54	22.51	21.47	22.32	25.33	25.64		24.99	21.03		10.32	10.32	
Dec	22.66	22.24	22.68	22.62	21.37	22.48	24.53	25.16		24.35	20.61		10.35	10.35	
2012	25.03	24.57	24.79	24.46	21.48	24.56	25.27	26.01		24.84	20.66		10.44	10.44	10.44
Jan	25.03	24.58	24.94	24.77	22.75	24.78	25.49	26.41		25.49	22.33		10.43	10.43	10.43
Feb	26.66	26.21	26.46	26.17	23.41	26.24	26.83	27.77		26.62	22.86		10.92	10.92	10.92
Mar	27.05	26.61	26.73	26.33	22.87	26.51	26.67	27.64		26.32	22.50		10.27	10.27	10.27
Apr	27.18	26.71	26.67	26.07	21.32	26.42	26.36	27.38		25.97	22.22		10.26	10.26	10.26
May	25.16	24.66	24.86	24.48	21.15	24.60	24.90	25.87		24.46	21.13		10.33	10.33	10.33
Jun	22.03	21.53	22.02	21.93	20.44	21.75	22.50	23.53		22.10	18.87		10.47	10.47	10.47
Jul	23.28	22.82	23.20	23.03	21.03	22.96	23.67	24.69		23.28	19.38		10.58	10.58	10.58
Aug	26.01	25.57	25.63	25.17	21.28	25.41	25.86	26.64		25.51	20.78		10.58	10.58	10.58
Sep	25.37	24.93	25.09	24.72	21.46	24.87	26.29	26.65		25.59	20.92		10.51	10.51	10.51
Oct	24.84	24.40	24.52	24.13	20.70	24.31	25.55	25.68		24.74	19.73		10.36	10.36	10.36
Nov	23.91	23.48	23.69	23.38	20.54	23.47	24.61	25.04		24.02	18.69		10.26	10.26	10.26
Dec	23.80	23.36	23.63	23.37	20.86	23.41	24.47	24.82		23.93	18.55		10.26	10.26	10.26

Table 8.1-2M (Cont.)
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Year/ Month	EX-REFINERY PRICE														
	ULG 95	UGR 91	Gasohol 95			Gasohol 91	KERO	HSD	HSD B5	LSD	FO 1500 (2%S)	LPG (B/Kg)			
			(E10)	(E20)	(E85)							Low Income Household	Cooking	Industry	Automobile
2013	**23.91**	**20.70**	**24.24**	**24.48**	**25.19**	**24.02**	**24.17**	**24.81**		**23.77**	**18.80**	**10.54**	**10.40**	**10.40**	**10.40**
Jan	24.01	23.58	23.92	23.74	21.78	23.71	24.60	24.86		24.08	18.79		10.24	10.24	10.24
Feb	25.83	25.41	25.78	25.64	23.93	25.57	25.58	25.81		24.93	19.21		12.12	12.12	12.12
Mar	23.97	13.12	24.08	24.10	23.45	23.87	23.42	24.04		22.96	18.58		9.97	9.97	9.97
Apr	21.79		22.09	22.31	22.92	21.89	21.70	22.46		21.34	17.77		9.87	9.87	9.87
May	22.25		22.82	23.30	25.60	22.61	21.92	22.70		21.68	18.01		9.72	9.72	9.72
Jun	23.68		23.85	23.93	23.61	23.63	22.97	24.05		22.96	18.90		9.96	9.96	9.96
Jul	24.77		25.09	25.33	26.02	24.87	24.09	25.01		24.01	18.64		10.30	10.30	10.30
Aug	24.08		24.77	25.37	28.41	24.55	25.05	25.41		24.48	18.90		10.40	10.40	10.40
Sep	24.41		24.84	25.17	26.48	24.61	25.21	25.64		24.62	19.16	10.56	10.56	10.56	10.56
Oct	23.40		23.93	24.38	26.42	23.71	24.55	25.27		24.25	19.03	10.60	10.60	10.60	10.60
Nov	23.71		24.25	24.71	26.80	24.03	24.73	25.50		24.36	18.94	10.43	10.43	10.43	10.43
Dec	25.06		25.45	25.76	26.85	25.23	26.18	26.96		25.62	19.64	10.57	10.57	10.57	10.57
2014	**23.93**		**24.44**	**24.85**	**26.69**	**24.21**	**23.68**	**24.60**		**23.28**	**18.40**	**10.84**	**10.84**	**10.84**	**10.84**
Jan	25.46		25.87	26.19	27.37	25.64	25.70	26.79		25.17	19.98	10.81	10.81	10.81	10.81
Feb	25.46		25.78	26.01	26.61	25.55	25.64	26.79		25.26	19.83	11.01	11.01	11.01	11.01
Mar	25.27		25.65	25.94	26.93	25.42	24.89	26.00		24.87	19.38	10.91	10.91	10.91	10.91
Apr	25.59		26.08	26.48	28.20	25.86	24.93	25.99		24.90	19.10	10.83	10.83	10.83	10.83
May	25.70		26.09	26.40	27.53	25.87	24.93	26.10		24.92	19.40	10.80	10.80	10.80	10.80
Jun	26.21		26.46	26.61	26.75	26.23	25.09	25.89		24.71	19.86	10.87	10.87	10.87	10.87
Jul	25.71		26.01	26.22	26.70	25.79	24.45	25.22		23.99	19.14	10.87	10.87	10.87	10.87
Aug	23.44		23.89	24.25	25.69	23.66	23.93	24.67		23.47	18.88	10.73	10.73	10.73	10.73
Sep	23.36		23.81	24.16	25.58	23.58	23.20	23.78		22.63	18.47	10.70	10.70	10.70	10.70
Oct	24.93		25.29	25.56	26.43	25.06	24.35	25.16		23.97	19.18	10.80	10.80	10.80	10.80
Nov	19.88		20.91	21.86	27.09	20.69	20.36	20.92		19.40	15.09	10.84	10.84	10.84	10.84
Dec	16.09		17.37	18.56	25.41	17.14	16.71	17.93		16.04	12.46	10.96	10.96	10.96	10.96

Remark: UGR 91 was cancled since 18 March 2014

Table 8.1-3M
Oil Fund Levied (Ex-Refinery) on Petroleum Products in Thailand

Unit: Baht/Litre

Year/ Month	ULG 95	UGR 91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)			
			(E10)	(E20)	(E85)								LOW INCOME HOUSEHOLD	Cooking	Industry	Automobile
2010	**7.50**	**6.65**	**2.74**	**-0.41**	**-10.93**	**1.43**	**0.10**		**0.66**	**-0.65**	**1.20**	**0.06**		**0.61**		
Jan	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06		0.19		
Feb	7.50	6.56	2.65	-0.42	-10.80	1.48	0.10		0.85	-0.80	1.20	0.06		0.26		
Mar	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06		0.22		
Apr	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06		0.43		
May	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06		0.51		
Jun	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		0.47		
Jul	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		0.45		
Aug	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		0.50		
Sep	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		0.69		
Oct	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		0.99		
Nov	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06		1.28		
Dec	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.04	-0.74	1.20	0.06		1.31		
2011	**4.90**	**4.38**	**1.87**	**-1.80**	**-13.50**	**-0.40**	**0.10**	**0.10**	**-0.60**	**-3.01**	**1.20**	**0.06**		**1.14**		
Jan	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-1.30	-2.00	1.20	0.06		1.23		
Feb	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-3.29	-3.77	1.20	0.06		1.08		
Mar	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-4.92	-4.05	1.20	0.06		1.03		
Apr	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-3.97	-2.20	1.20	0.06		1.15		
May	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.27		1.20	0.06		1.25		
Jun	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.38		1.20	0.06		1.19		
Jul	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.55		1.20	0.06		1.10	2.37	
Aug	6.29	5.62	2.37	-1.35	-13.50	0.05	0.10	0.10	2.06		1.20	0.06		1.24	4.05	
Sep	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06		1.31	4.11	
Oct	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06		1.13	6.74	
Nov	0.00	0.00	0.32	-2.80	-13.50	-1.40	0.10		0.00		1.20	0.06		0.98	6.58	
Dec	0.00	0.00	0.20	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06		0.95	6.56	
2012	**5.23**	**4.73**	**2.03**	**-1.30**	**-12.40**	**0.16**	**0.10**	**0.10**	**0.69**		**1.20**	**0.06**		**0.89**	**10.55**	**3.34**
Jan	0.52	0.52	0.77	-2.28	-13.55	-0.88	0.10		0.31		1.20	0.06		0.87	9.28	1.23
Feb	1.48	1.48	1.68	-1.32	-13.12	0.08	0.10		0.60		1.20	0.06		0.75	9.16	1.79
Mar	2.52	2.52	2.20	-0.80	-12.60	0.60	0.10		0.60		1.20	0.06		1.03	9.44	2.79
Apr	3.53	3.53	2.20	-0.80	-12.60	0.60	0.10		0.60		1.20	0.06		1.04	9.45	3.52
May	4.11	4.03	2.20	-0.80	-12.60	0.60	0.10		0.67		1.20	0.06		0.97	12.19	3.78
Jun	6.21	6.21	2.82	-0.46	-12.26	1.22	0.10	0.10	2.03		1.20	0.06		0.83	9.95	3.63
Jul	7.10	7.10	3.03	-0.20	-12.00	1.43	0.10	0.10	1.46		1.20	0.06		0.72	7.01	3.52
Aug	6.55	5.77	1.50	-1.48	-12.50	-0.48	0.10		-0.12		1.20	0.06		0.72	11.40	3.64
Sep	6.99	5.69	1.29	-1.31	-12.21	-1.01	0.10		-0.42		1.20	0.06		0.79	12.01	3.83
Oct	7.46	6.16	1.76	-1.84	-11.80	-0.54	0.10		0.25		1.20	0.06		0.94	12.16	4.19
Nov	8.00	6.70	2.30	-2.30	-11.80	0.00	0.10		1.07		1.20	0.06		1.04	12.26	4.08
Dec	8.32	7.02	2.62	-1.98	-11.80	0.32	0.10	0.10	1.22		1.20	0.06		1.03	12.25	4.07

Table 8.1-3M (Cont.)
Oil Fund Levied (Ex-Refinery) on Petroleum Products in Thailand

Unit: Baht/Litre

Year/ Month	ULG 95	UGR 91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)			
			(E10)	(E20)	(E85)								LOW INCOME HOUSEHOLD	Cooking	Industry	Automobile
2013	**9.57**	**6.42**	**3.41**	**-1.08**	**-11.43**	**1.27**	**0.10**	**0.10**	**1.49**		**1.20**	**0.06**	**0.76**	**1.47**	**11.92**	**4.11**
Jan	8.50	7.20	2.80	-1.80	-11.80	0.50	0.10		1.20		1.20	0.06		1.06	12.28	4.10
Feb	8.81	7.51	3.11	-1.48	-11.49	0.81	0.10	0.10	0.58		1.20	0.06		1.25	12.47	4.29
Mar	9.33	4.54	3.94	-0.34	-10.93	1.76	0.10		1.94		1.20	0.06		1.33	12.55	4.37
Apr	9.42		4.19	-0.01	-10.90	2.09	0.10		3.69		1.20	0.06		1.43	12.14	4.47
May	9.70		3.77	-0.40	-10.95	1.67	0.10		3.56		1.20	0.06		1.58	10.78	4.62
Jun	9.70		3.50	-0.90	-11.40	1.40	0.10		2.34		1.20	0.06		1.34	10.94	4.38
Jul	9.70		3.50	-0.90	-11.40	1.40	0.10	0.10	1.43		1.20	0.06		0.99	11.82	4.03
Aug	9.90		3.42	-1.31	-11.48	1.32	0.10		1.02		1.20	0.06		0.90	12.12	3.93
Sep	9.81		2.81	-1.88	-11.98	0.71	0.10	0.10	0.54		1.20	0.06	0.74	1.21	11.96	3.78
Oct	10.00		3.23	-1.35	-11.60	1.13	0.10		1.03		1.20	0.06	0.70	1.64	11.92	3.74
Nov	10.00		3.30	-1.30	-11.60	1.20	0.10		0.97		1.20	0.06	0.87	2.27	12.09	3.90
Dec	10.00		3.30	-1.30	-11.60	1.20	0.10		(0.47)		1.20	0.06	0.73	2.60	11.95	3.77
2014	**10.00**		**3.69**	**-0.40**	**-10.34**	**1.73**	**0.10**	**0.10**	**1.16**		**1.20**	**0.06**	**0.46**	**4.07**	**10.69**	**3.86**
Jan	10.00		3.30	-1.30	-11.60	1.20	0.10		(0.45)		1.20	0.06	0.49	2.83	11.71	3.53
Feb	10.00		3.30	-1.30	-11.60	1.20	0.10		(0.47)		1.20	0.06	0.29	3.10	11.51	3.33
Mar	10.00		3.30	-1.14	-11.60	1.20	0.10	0.10	0.22		1.20	0.06	0.39	3.43	11.61	3.43
Apr	10.00		3.30	-1.05	-11.60	1.20	0.10		0.33		1.20	0.06	0.47	4.21	11.69	3.51
May	10.00		3.30	-1.05	-11.60	1.20	0.10		0.28		1.20	0.06	0.50	4.70	11.72	3.54
Jun	10.00		3.30	-1.05	-11.60	1.20	0.10	0.10	0.40		1.20	0.06	0.43	4.64	11.65	3.47
Jul	10.02		3.32	-1.03	-11.58	1.22	0.10		0.49		1.20	0.06	0.43	4.64	11.65	3.47
Aug	11.28		4.49	0.22	-9.97	2.43	0.10	0.10	1.33		1.20	0.06	0.57	4.78	11.73	3.61
Sep	9.75		4.25	0.80	-8.23	2.55	0.10		1.42		1.20	0.06	0.60	4.81	11.07	3.64
Oct	9.68		4.18	0.73	-8.23	2.48	0.10		2.96		1.20	0.06	0.54	4.75	10.72	4.37
Nov	9.65		4.15	0.70	-8.23	2.45	0.10		3.96		1.20	0.06	0.45	1.41	7.22	4.86
DEC	9.60		4.10	0.65	-8.23	2.48	0.10		3.46		1.20	0.06	0.34	5.55	5.98	5.55

Remark: URG91 was cancled since 18 March 2014

Table 8.1-4M
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Year/Month	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2010														
Jan														
WT.AVG	36.72	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.99	17.68	17.68	13.69
TRADER COST	36.73	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.92	17.68	17.68	13.69
Feb														
WT.AVG	36.48	34.84	30.88	26.91	29.18	22.14	26.20	24.88	23.05	17.74	17.30	16.86	16.93	13.69
TRADER COST	36.48	34.83	30.88	26.91	29.18	22.14	26.19	24.88	23.05	17.74	17.23	16.86	16.93	13.69
Mar														
WT.AVG	37.10	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.22	16.87	16.80	13.69
TRADER COST	37.11	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.15	16.87	16.80	13.69
Apr														
WT.AVG	37.61	36.01	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.81	17.33	17.35	13.69
TRADER COST	37.61	36.00	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.74	17.33	17.35	13.69
May														
WT.AVG	35.76	34.35	30.39	26.36	28.43	23.09	26.99	25.62	24.06	17.43	16.82	16.54	16.51	13.69
TRADER COST	35.78	34.36	30.39	26.36	28.43	23.09	27.00	25.62	24.06	17.43	16.78	16.54	16.51	13.69
Jun														
WT.AVG	35.44	33.98	30.10	26.09	28.15	22.78	26.30	25.35	23.52	16.86	16.25	15.83	15.89	13.69
TRADER COST	35.44	33.97	30.10	26.09	28.15	22.78	26.29	25.35	23.52	16.86	16.18	15.83	15.89	13.69
Jul														
WT.AVG	35.15	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.26	15.86	15.85	13.69
TRADER COST	35.16	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.20	15.86	15.85	13.69
Aug														
WT.AVG	34.92	33.44	29.64	25.68	27.62	22.51	26.26	25.38	23.52	16.92	16.32	15.98	15.93	13.69
TRADER COST	34.93	33.44	29.64	25.68	27.62	22.51	26.27	25.38	23.52	16.92	16.26	15.98	15.93	13.69
Sep														
WT.AVG	34.39	32.90	29.16	25.23	27.15	22.04	25.84	24.82	22.81	16.19	15.62	15.23	15.25	13.69
TRADER COST	34.39	32.90	29.16	25.23	27.15	22.04	25.83	24.82	22.81	16.19	15.56	15.23	15.25	13.69
Oct														
WT.AVG	35.27	33.81	29.94	25.87	27.98	22.82	26.50	25.48	23.50	16.63	16.04	15.67	15.65	13.69
TRADER COST	35.27	33.80	29.94	25.87	27.98	22.82	26.49	25.48	23.50	16.63	15.97	15.67	15.65	13.69
Nov														
WT.AVG	35.98	34.33	30.58	26.50	28.59	23.48	27.32	26.38	24.15	17.28	16.66	16.29	16.23	13.69
TRADER COST	35.98	34.32	30.58	26.50	28.59	23.48	27.31	26.38	24.15	17.28	16.59	16.29	16.23	13.69
Dec														
WT.AVG	37.92	35.92	31.92	27.14	29.03	24.78	28.14	27.93	25.50	18.04	17.34	16.94	16.88	13.69
TRADER COST	37.91	35.92	31.92	27.14	29.03	24.78	28.12	27.93	25.50	18.04	17.27	16.94	16.88	13.69
2010 AVG														
WT.AVG	36.06	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.80	16.42	16.41	13.69
TRADER COST	36.07	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.74	16.42	16.41	13.69

Table 8.1-4M (Cont.)
Wholesale Prices of Petroleum Product at Refinery in Thailand

Unit : Baht/Litre

Year/Month	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95 (E10)	Gasohol 95 (E20)	Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
2011														
Jan														
WT.AVG	39.09	37.59	32.95	28.00	30.01	26.28	28.27	28.79	26.85	19.15	18.38	17.84	17.88	13.69
TRADER COST	39.05	37.55	32.95	28.00	30.01	26.28	28.23	28.79	26.85	19.15	18.24	17.84	17.88	13.69
Feb														
WT.AVG	40.33	38.86	34.07	29.00	31.12	28.57	28.30	29.58	28.92	21.55	20.79	20.31	20.25	13.69
TRADER COST	40.32	38.84	34.07	29.00	31.12	28.57	28.29	29.58	28.92	21.55	20.69	20.31	20.25	13.69
Mar														
WT.AVG	41.97	40.47	35.54	30.30	32.60	30.74	28.56	30.31	31.33	22.98	21.95	21.47	21.35	13.69
TRADER COST	41.97	40.47	35.54	30.30	32.60	30.74	28.55	30.31	31.33	22.98	21.86	21.47	21.35	13.69
Apr														
WT.AVG	43.50	41.98	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.98	22.48	22.38	13.69
TRADER COST	43.49	41.97	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.88	22.48	22.38	13.69
May														
WT.AVG	42.69	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	22.07	21.80	21.62	13.69
TRADER COST	42.70	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	21.98	21.80	21.62	13.69
Jun														
WT.AVG	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.49	22.07	21.98	13.69
TRADER COST	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.40	22.07	21.98	13.69
Jul														
WT.AVG	42.77	41.27	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.70	22.16	22.17	13.69
TRADER COST	42.77	41.26	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.60	22.16	22.17	13.69
Aug														
WT.AVG	40.56	39.20	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.96	21.48	21.47	13.69
TRADER COST	40.57	39.19	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.87	21.48	21.47	13.69
Sep														
WT.AVG	34.66	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.41	21.93	21.90	13.69
TRADER COST	34.67	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.32	21.93	21.90	13.69
Oct														
WT.AVG	34.49	33.88	34.97	29.15	31.48	29.41	26.77		29.94	23.49	22.78	22.33	22.26	13.69
TRADER COST	34.50	33.88	34.97	29.15	31.48	29.41	26.75		29.94	23.49	22.68	22.33	22.26	13.69
Nov														
WT.AVG	32.76	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.86	23.39	23.24	13.69
TRADER COST	32.77	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.76	23.39	23.24	13.69
Dec														
WT.AVG	33.12	32.24	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.38	23.00	22.81	13.69
TRADER COST	33.12	32.23	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.28	23.00	22.81	13.69
2011 AVG														
WT.AVG	38.99	37.76	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.15	21.69	21.61	13.69
TRADER COST	38.99	37.75	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.05	21.69	21.61	13.69

Table 8.1-4M (Cont.)
Wholesale Prices of Petroleum Product at Refinery in Thailand

Unit : Baht/Litre

Year/Month	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2012														
Jan														
WT.AVG	36.40	35.46	35.46	30.74	33.35	30.64	28.74		31.90	25.85	25.08	24.86	22.81	13.69
TRADER COST	36.39	35.45	35.46	30.74	33.35	30.64	28.73		31.90	25.85	24.97	24.86	22.81	13.69
Feb														
WT.AVG	38.25	37.24	37.22	32.36	35.06	31.13	29.32		32.16	25.78	24.91	24.70	24.55	13.69
TRADER COST	38.23	37.24	37.22	32.36	35.06	31.13	29.32		32.16	25.78	24.81	24.70	24.55	13.69
Mar														
WT.AVG	40.51	39.55	38.82	33.84	36.65	31.89	30.04		32.77	26.20	25.36	25.11	24.94	13.69
TRADER COST	40.50	39.55	38.82	33.84	36.65	31.89	30.03		32.77	26.20	25.26	25.11	24.94	13.69
Apr														
WT.AVG	41.45	40.53	38.71	33.76	36.54	31.54	29.67		32.40	25.89	24.98	24.82	24.70	13.69
TRADER COST	41.45	40.54	38.71	33.76	36.54	31.54	29.67		32.40	25.89	24.88	24.82	24.70	13.69
May														
WT.AVG	39.74	38.88	36.61	31.91	34.42	29.92	28.02		30.76	24.39	23.70	23.40	23.26	13.69
TRADER COST	39.75	38.90	36.61	31.91	34.42	29.92	28.02		30.76	24.39	23.63	23.40	23.26	13.69
Jun														
WT.AVG	38.64	37.83	34.35	29.67	32.16	27.41	27.13		28.26	22.05	21.48	21.07	20.93	13.69
TRADER COST	38.66	37.85	34.35	29.67	32.16	27.41	27.13		28.26	22.05	21.40	21.07	20.93	13.69
Jul														
WT.AVG	41.32	40.32	36.41	31.48	34.28	28.76	27.97		29.53	22.72	22.01	21.51	21.45	13.69
TRADER COST	41.30	40.31	36.41	31.48	34.28	28.76	27.95		29.53	22.72	21.90	21.51	21.45	13.69
Aug														
WT.AVG	43.58	41.92	36.96	32.45	34.36	31.11	28.49		31.95	24.36	23.56	23.08	22.97	13.69
TRADER COST	43.57	41.92	36.96	32.45	34.36	31.11	28.48		31.95	24.36	23.46	23.08	22.97	13.69
Sep														
WT.AVG	43.36	41.03	36.10	31.78	33.17	31.43	27.96		31.96	24.48	23.70	23.27	23.12	13.69
TRADER COST	43.35	41.04	36.10	31.78	33.17	31.43	27.96		31.96	24.48	23.61	23.27	23.12	13.69
Oct														
WT.AVG	43.14	40.97	35.87	30.48	32.93	30.66	27.59		31.08	23.28	22.43	22.02	21.90	13.69
TRADER COST	43.14	40.98	35.87	30.48	32.93	30.66	27.60		31.08	23.28	22.34	22.02	21.90	13.69
Nov														
WT.AVG	42.87	40.68	35.68	29.30	32.75	29.67	27.77		30.31	22.19	21.40	20.82	20.74	13.69
TRADER COST	42.86	40.68	35.68	29.30	32.75	29.67	27.77		30.31	22.19	21.31	20.82	20.74	13.69
Dec														
WT.AVG	43.08	40.91	35.95	29.62	33.02	29.54	27.67		30.22	21.99	21.10	20.62	20.57	13.69
TRADER COST	43.08	40.92	35.95	29.62	33.02	29.54	27.68		30.22	21.99	21.02	20.62	20.57	13.69
2012 AVG														
WT.AVG	41.03	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.31	22.94	22.66	13.69
TRADER COST	41.02	39.61	36.51	31.45	34.06	30.31	28.36		31.11	24.10	23.22	22.94	22.66	13.69

Table 8.1-4M (Cont.)
Wholesale Prices of Petroleum Product at Refinery in Thailand

Unit : Baht/Litre

Year/Month	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2013														
Jan														
WT.AVG	43.54	39.91	36.49	30.24	33.56	29.71	27.80		30.38	22.17	21.35	20.87	20.85	13.69
TRADER COST	43.53	39.93	36.49	30.24	33.56	29.71	27.80		30.38	22.17	21.26	20.87	20.85	13.69
Feb														
WT.AVG	45.79	42.16	38.78	32.57	35.86	30.72	28.08		31.38	22.68	21.80	21.35	21.34	13.69
TRADER COST	45.78	42.19	38.78	32.57	35.86	30.72	28.08		31.38	22.68	21.71	21.35	21.34	13.69
Mar														
WT.AVG	44.24	41.13	37.75	32.08	35.10	28.39	27.43		29.37	21.83	21.10	20.70	20.64	13.69
TRADER COST	44.25	41.16	37.75	32.08	35.10	28.39	27.44		29.37	21.83	21.02	20.70	20.64	13.69
Apr														
WT.AVG	41.92	39.26	35.82	30.46	34.08	26.56	27.53		27.61	20.85	20.16	19.75	19.76	13.69
TRADER COST	41.93	39.32	35.82	30.46	34.08	26.56	27.54		27.61	20.85	20.08	19.75	19.76	13.69
May														
WT.AVG	42.91	33.81	36.32	31.17	34.87	26.86	27.86		27.96	21.15	20.48	19.98	19.97	13.69
TRADER COST	42.90	33.18	36.32	31.17	34.87	26.86	27.86		27.96	21.15	20.39	19.98	19.97	13.69
Jun														
WT.AVG	44.41	35.03	37.11	31.34	35.66	27.98	28.00		29.38	22.16	21.41	20.94	20.76	13.69
TRADER COST	44.41	34.38	37.11	31.34	35.66	27.98	28.00		29.38	22.16	21.32	20.94	20.76	13.69
Jul														
WT.AVG	45.53	35.97	38.12	32.25	36.65	29.17	28.07		30.48	22.10	21.22	20.69	20.63	13.69
TRADER COST	45.52	35.31	38.12	32.25	36.65	29.17	28.07		30.48	22.10	21.13	20.69	20.63	13.69
Aug														
WT.AVG	45.06	35.48	38.03	32.48	36.75	30.20	28.10		31.03	22.53	21.57	20.97	21.01	13.69
TRADER COST	45.06	34.83	38.03	32.48	36.75	30.20	28.10		31.03	22.53	21.47	20.97	21.01	13.69
Sep														
WT.AVG	45.17	35.65	37.31	31.54	35.94	30.26	27.73		31.15	22.68	21.79	21.26	21.25	13.69
TRADER COST	45.18	34.99	37.31	31.54	35.94	30.26	27.74		31.15	22.68	21.70	21.26	21.25	13.69
Oct														
WT.AVG	44.43	34.89	36.91	31.45	35.68	29.67	27.90		30.80	22.71	21.75	21.86	21.37	13.69
TRADER COST	44.43	34.25	36.91	31.45	35.68	29.67	27.91		30.80	22.71	21.66	21.86	21.37	13.69
Nov														
WT.AVG	44.86	35.18	37.42	31.96	36.17	29.85	28.17		30.88	22.71	21.70	22.94	21.70	13.69
TRADER COST	44.85	34.54	37.42	31.96	36.17	29.85	28.17		30.88	22.71	21.61	22.94	21.70	13.69
Dec														
WT.AVG	46.35	36.37	38.74	33.11	37.48	31.35	28.17		32.23	23.32	22.38	22.75	22.18	13.69
TRADER COST	46.33	35.70	38.74	33.11	37.48	31.35	28.16		32.23	23.32	22.28	22.75	22.18	13.69
2013 AVG														
WT.AVG	44.52	37.07	37.40	31.72	35.65	29.23	27.90		30.22	22.24	21.39	21.17	20.95	13.69
TRADER COST	44.51	36.65	37.40	31.72	35.65	29.23	27.90		30.22	22.24	21.30	21.17	20.95	13.69

Table 8.1-4M (Cont.)
Wholesale Prices of Petroleum Product at Refinery in Thailand

Unit : Baht/Litre

Year/Month	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG 95	UGR 91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2014														
Jan														
WT.AVG	46.62		39.05	33.48	37.77	30.80	27.73		31.76	23.53	22.67	23.14	22.53	13.69
TRADER COST	46.62		39.05	33.48	37.77	30.80	27.73		31.76	23.53	22.58	23.14	22.53	13.69
Feb														
WT.AVG	46.74		39.06	33.51	37.81	30.76	27.90		31.85	23.40	22.52	23.05	22.39	13.69
TRADER COST	46.73		39.06	33.51	37.81	30.76	27.89		31.85	23.40	22.43	23.05	22.39	13.69
Mar														
WT.AVG	47.27		39.58	33.80	37.67	29.98	28.00		31.26	22.92	22.04	22.48	21.88	13.69
TRADER COST	47.26		39.58	33.80	37.67	29.98	28.00		31.26	22.92	21.95	22.48	21.88	13.69
Apr														
WT.AVG	46.89		39.39	34.12	38.14	30.02	28.07		31.45	22.67	21.75	22.04	21.55	13.69
TRADER COST	46.88		39.39	34.12	38.14	30.02	28.07		31.45	22.67	21.66	22.04	21.55	13.69
May														
WT.AVG	47.83		40.15	34.36	38.18	30.01	28.03		31.47	23.00	22.11	22.33	21.87	13.69
TRADER COST	47.81		40.15	34.36	38.18	30.01	28.03		31.47	23.00	22.01	22.33	21.87	13.69
Jun														
WT.AVG	47.55		39.79	34.28	38.52	30.20	27.87		31.26	23.37	22.55	22.92	22.38	13.69
TRADER COST	47.54		39.79	34.28	38.52	30.20	27.87		31.26	23.37	22.45	22.92	22.38	13.69
Jul														
WT.AVG	46.79		39.11	33.72	37.84	29.46	27.20		30.46	22.57	21.76	22.33	21.67	13.69
TRADER COST	46.80		39.11	33.72	37.84	29.46	27.20		30.46	22.57	21.67	22.33	21.67	13.69
Aug														
WT.AVG	45.73		37.97	32.81	38.08	28.93	27.57		29.94	22.22	21.44	21.91	21.33	13.69
TRADER COST	45.73		37.97	32.81	38.08	28.93	27.58		29.94	22.22	21.35	21.91	21.33	13.69
Sep														
WT.AVG	42.50		36.41	32.28	35.32	28.14	27.44		29.02	21.69	20.95	21.38	20.84	13.69
TRADER COST	42.50		36.41	32.28	35.32	28.14	27.45		29.02	21.69	20.87	21.38	20.84	13.69
Oct														
WT.AVG	40.58		34.81	30.92	33.71	25.99	26.94		26.64	19.35	18.64	18.86	18.47	13.69
TRADER COST	40.59		34.81	30.92	33.71	25.99	26.95		26.64	19.35	18.58	18.86	18.47	13.69
Nov														
WT.AVG	38.47		33.03	29.57	31.82	25.11	26.89		25.58	17.86	17.10	17.38	16.99	13.69
TRADER COST	38.48		33.03	29.57	31.82	25.11	26.89		25.58	17.86	17.04	17.38	16.99	13.69
Dec														
WT.AVG	34.36		29.19	26.02	26.51	21.23	24.47		22.01	14.30	13.57	13.78	13.47	13.69
TRADER COST	34.37		29.19	26.02	26.51	21.23	24.48		22.01	14.30	13.53	13.78	13.47	13.69
2014 AVG														
WT.AVG	44.28		37.29	32.41	35.95	28.39	27.34		29.39	21.41	20.59	20.97	20.45	13.69
TRADER COST	44.28		37.29	32.41	35.95	28.39	27.35		29.39	21.41	20.51	20.97	20.45	13.69

Table 8.1-5M
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2010 (MIN)	41.12	36.08	32.30	29.96	19.21	30.84	28.68	28.64	27.50	27.04	21.06	19.35		18.13		18.13	9.79
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85	37.51	28.69	27.55	27.04	23.59	22.04		18.13		18.13	9.79
(MAX)	41.90	36.13	32.40	29.96	19.21	30.90	39.88	28.72	27.58	27.04	27.28	25.90		18.13		18.13	9.79
Jan (MIN)	40.92	35.92	32.32	30.02	18.72	31.52	27.16	28.09	26.75	27.04	21.86	20.15		18.13		18.13	9.79
(WT.AVG)	41.06	35.92	32.32	30.02	18.72	31.52	37.33	28.09	26.76	27.04	24.16	22.58		18.13		18.13	9.79
(MAX)	41.72	35.92	32.34	30.02	18.72	31.54	39.88	28.09	26.78	27.04	27.28	25.90		18.13		18.13	9.79
Feb (MIN)	41.38	36.38	32.78	30.48	18.72	31.44	27.59	27.93	26.73	27.04	21.12	19.41		18.13		18.13	9.79
(WT.AVG)	41.51	36.38	32.78	30.48	18.72	31.47	37.38	27.93	26.73	27.04	23.57	22.04		18.13		18.13	9.79
(MAX)	42.14	36.38	32.78	30.48	18.72	31.48	39.88	27.93	26.73	27.04	27.28	25.90		18.13		18.13	9.79
Mar (MIN)	42.15	37.15	33.55	31.25	19.07	32.05	28.01	28.94	27.74	27.04	21.21	19.50		18.13		18.13	9.79
(WT.AVG)	42.29	37.15	33.55	31.25	19.07	32.05	37.43	28.94	27.74	27.04	23.64	22.10		18.13		18.13	9.79
(MAX)	42.89	37.15	33.55	31.25	19.07	32.05	39.88	28.94	27.74	27.04	27.28	25.90		18.13		18.13	9.79
Apr (MIN)	42.59	37.53	33.87	31.57	20.07	32.37	29.01	29.64	28.44	27.04	21.47	19.76		18.13		18.13	9.79
(WT.AVG)	42.72	37.56	33.90	31.57	20.07	32.39	37.55	29.67	28.47	27.04	23.85	22.29		18.13		18.13	9.79
(MAX)	43.37	37.61	33.95	31.57	20.07	32.45	39.88	29.72	28.52	27.04	27.28	25.90		18.13		18.13	9.79
May (MIN)	41.40	36.40	32.60	30.30	20.06	31.10	28.73	29.20	28.00	27.04	21.32	19.60		18.13		18.13	9.79
(WT.AVG)	41.51	36.40	32.60	30.30	20.06	31.10	37.51	29.20	28.00	27.04	23.77	22.21		18.13		18.13	9.79
(MAX)	42.20	36.40	32.60	30.30	20.06	31.10	39.88	29.20	28.00	27.04	27.28	25.90		18.13		18.13	9.79
Jun (MIN)	40.46	35.42	31.24	29.32	19.42	30.12	28.24	27.69	26.79	27.04	20.34	18.63		18.13		18.13	9.79
(WT.AVG)	40.57	35.44	31.58	29.34	19.42	30.14	37.46	28.06	27.12	27.04	23.07	21.54		18.13		18.13	9.79
(MAX)	41.26	35.46	31.66	29.36	19.42	30.16	39.88	28.11	27.21	27.04	27.28	25.90		18.13		18.13	9.79

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
Jul (MIN)	40.37	35.37	31.49	29.27	19.11	30.07	28.19	28.16	27.04	27.04	20.51	18.80		18.13		18.13	9.79
(WT.AVG)	40.52	35.37	31.56	29.27	19.11	30.07	37.45	28.24	27.11	27.04	23.20	21.67		18.13		18.13	9.79
(MAX)	41.17	35.37	31.59	29.27	19.11	30.09	39.88	28.24	27.14	27.04	27.28	25.90		18.13		18.13	9.79
Aug (MIN)	40.52	35.52	31.72	29.42	19.01	30.22	28.65	28.58	27.38	27.04	20.86	19.14		18.13		18.13	9.79
(WT.AVG)	40.68	35.52	31.72	29.42	19.01	30.22	37.51	28.58	27.38	27.04	23.48	21.92		18.13		18.13	9.79
(MAX)	41.32	35.52	31.72	29.42	19.01	30.22	39.88	28.58	27.38	27.04	27.28	25.90		18.13		18.13	9.79
Sep (MIN)	39.44	34.44	30.64	28.34	18.42	29.14	28.46	27.79	26.59	27.04	20.22	18.51		18.13		18.13	9.79
(WT.AVG)	39.60	34.44	30.64	28.34	18.42	29.14	37.48	27.79	26.59	27.04	22.97	21.46		18.13		18.13	9.79
(MAX)	40.24	34.44	30.64	28.34	18.42	29.14	39.88	27.79	26.59	27.04	27.28	25.90		18.13		18.13	9.79
Oct (MIN)	40.38	35.33	31.53	29.23	18.87	30.03	29.23	28.56	27.36	27.04	20.68	18.96		18.13		18.13	9.79
(WT.AVG)	40.54	35.35	31.57	29.23	18.87	30.05	37.57	28.58	27.38	27.04	23.34	21.79		18.13		18.13	9.79
(MAX)	41.19	35.40	31.64	29.23	18.87	30.14	39.88	28.62	27.42	27.04	27.28	25.90		18.13		18.13	9.79
Nov (MIN)	41.21	36.06	32.26	29.96	19.23	30.76	29.93	29.26	28.06	27.04	21.25	19.54		18.13		18.13	9.79
(WT.AVG)	41.34	36.08	32.31	29.96	19.23	30.79	37.66	29.28	28.07	27.04	23.78	22.20		18.13		18.13	9.79
(MAX)	41.89	36.21	32.47	29.96	19.23	30.97	39.88	29.34	28.14	27.04	27.28	25.90		18.13		18.13	9.79
Dec (MIN)	42.60	37.45	33.63	30.30	19.82	31.20	30.98	29.89	29.14	27.04	21.85	20.14		18.13		18.13	9.79
(WT.AVG)	42.75	37.55	33.70	30.30	19.82	31.23	37.78	29.93	29.21	27.04	24.26	22.64		18.13		18.13	9.79
(MAX)	43.39	37.68	33.84	30.30	19.82	31.50	39.88	30.10	29.35	27.04	27.28	25.90		18.13		18.13	9.79

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/kg)	Cooking (Baht/Kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2011 (MIN)	44.51	39.68	36.48	32.94	21.75	33.94	32.11	29.40	29.65	27.04	26.69	25.19		18.13	20.38	18.13	9.79
(WT.AVG)	44.64	39.72	36.52	32.94	21.75	33.96	38.21	29.45	29.95	27.04	28.58	26.68		18.13	20.38	18.13	9.79
(MAX)	45.31	39.80	36.65	32.94	21.75	34.12	39.88	29.54	30.17	27.04	30.98	29.76		18.13	20.38	18.13	9.79
Jan (MIN)	43.88	39.05	34.75	31.36	20.54	32.25	31.59	29.99	29.57	27.04	22.80	21.09		18.13	18.13	18.13	9.79
(WT.AVG)	44.04	39.06	34.79	31.36	20.54	32.28	37.86	30.01	29.61	27.04	25.02	23.34		18.13	18.13	18.13	9.79
(MAX)	44.88	39.08	34.91	31.36	20.54	32.42	39.88	30.10	29.72	27.04	27.28	25.90		18.13	18.13	18.13	9.79
Feb (MIN)	44.92	40.13	35.77	32.37	21.11	33.27	31.76	29.99	29.99	27.04	25.26	23.55		18.13	18.13	18.13	9.79
(WT.AVG)	45.10	40.16	35.80	32.38	21.11	33.29	37.88	30.10	30.10	27.04	26.97	25.30		18.13	18.13	18.13	9.79
(MAX)	45.97	40.20	35.84	32.39	21.12	33.34	39.88	30.38	30.38	27.04	28.91	28.29		18.13	18.13	18.13	9.79
Mar (MIN)	47.19	42.11	37.30	33.91	22.02	34.80	32.16	29.96	29.55	27.04	26.85	25.14		18.13	18.13	18.13	9.79
(WT.AVG)	47.29	42.15	37.34	33.91	22.02	34.82	38.03	30.00	30.05	27.04	28.24	26.30		18.13	18.13	18.13	9.79
(MAX)	47.96	42.29	37.47	33.91	22.02	34.95	39.88	30.12	30.30	27.04	30.50	29.17		18.13	18.13	18.13	9.79
Apr (MIN)	48.62	43.41	38.51	35.11	22.68	36.01	32.20	29.99	29.49	27.04	27.25	25.81		18.13	18.13	18.13	9.79
(WT.AVG)	48.71	43.44	38.54	35.12	22.68	36.03	38.24	30.03	30.04	27.04	28.97	26.98		18.13	18.13	18.13	9.79
(MAX)	49.22	43.51	38.62	35.12	22.69	36.12	39.88	30.22	30.29	27.04	31.43	30.09		18.13	18.13	18.13	9.79
May (MIN)	48.48	43.09	38.19	34.79	22.47	35.69	32.20	29.99		27.04	27.20	25.64		18.13	18.13	18.13	9.79
(WT.AVG)	48.61	43.12	38.21	34.79	22.47	35.70	38.37	29.99		27.04	28.70	26.73		18.13	18.13	18.13	9.79
(MAX)	49.22	43.29	38.33	34.79	22.47	35.83	39.88	30.00		27.04	31.09	29.76		18.13	18.13	18.13	9.79
Jun (MIN)	47.81	42.41	37.51	34.11	22.22	35.01	32.20	29.99		27.04	27.27	25.84		18.13	18.13	18.13	9.79
(WT.AVG)	47.97	42.41	37.51	34.11	22.22	35.01	38.37	30.01		27.04	28.92	26.92		18.13	18.13	18.13	9.79
(MAX)	48.61	42.41	37.53	34.11	22.22	35.03	39.88	30.10		27.04	31.39	30.06		18.13	18.13	18.13	9.79

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/kg)	Cooking (Baht/Kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
Jul (MIN)	48.43	43.02	38.12	34.68	22.52	35.62	32.20	29.99		27.04	27.27	25.90		18.13	21.13	18.13	9.79
(WT.AVG)	48.59	43.03	38.12	34.68	22.52	35.62	38.35	30.02		27.04	28.91	27.39		18.13	21.13	18.13	9.79
(MAX)	49.22	43.06	38.16	34.68	22.52	35.66	39.88	30.08		27.04	31.38	30.67		18.13	21.13	18.13	9.79
Aug (MIN)	46.16	40.90	37.07	33.05	21.95	34.55	32.20	29.51		27.04	27.22	25.68		18.13	21.13	18.13	9.79
(WT.AVG)	46.33	40.92	37.09	33.05	21.95	34.56	38.29	29.52		27.04	28.76	26.79		18.13	21.13	18.13	9.79
(MAX)	46.90	40.94	37.16	33.05	21.95	34.66	39.88	29.58		27.04	31.16	29.83		18.13	21.13	18.13	9.79
Sep (MIN)	40.24	36.18	36.23	32.06	21.81	33.24	32.20	27.96		27.04	27.28	25.90		18.13	21.13	18.13	9.79
(WT.AVG)	40.39	36.28	36.35	32.06	21.81	33.30	38.30	28.00		27.04	29.22	27.21		18.13	21.13	18.13	9.79
(MAX)	41.06	36.34	36.50	32.06	21.81	33.47	39.88	28.05		27.04	31.75	30.41		18.13	21.13	18.13	9.79
Oct (MIN)	40.00	35.97	35.97	31.95	21.69	32.94	32.20	27.57		27.04	27.28	25.90		18.13	24.13	18.13	9.79
(WT.AVG)	40.14	36.01	36.08	31.95	21.69	33.00	38.19	27.79		27.04	29.44	27.41		18.13	24.13	18.13	9.79
(MAX)	40.90	36.06	36.30	31.95	21.69	33.27	39.88	27.83		27.04	32.00	30.66		18.13	24.13	18.13	9.79
Nov (MIN)	39.40	35.25	34.09	31.23	21.18	32.22	32.20	28.70		27.04	27.28	25.90		18.13	24.13	18.13	9.79
(WT.AVG)	39.51	35.29	34.13	31.23	21.18	32.24	38.29	28.86		27.04	29.99	27.97		18.13	24.13	18.13	9.79
(MAX)	40.21	35.49	34.43	31.23	21.18	32.63	39.88	28.95		27.04	32.38	31.04		18.13	24.13	18.13	9.79
Dec (MIN)	38.93	34.69	34.20	30.66	20.78	31.66	32.20	29.12		27.04	27.28	25.90		18.13	24.13	18.13	9.79
(WT.AVG)	39.02	34.73	34.23	30.66	20.78	31.67	38.33	29.12		27.04	29.86	27.80		18.13	24.13	18.13	9.79
(MAX)	39.61	34.98	34.52	30.66	20.78	32.03	39.88	29.12		27.04	32.52	31.19		18.13	24.13	18.13	9.79

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2012 (MIN)	46.27	41.94	37.94	34.34	22.22	35.88	36.15	30.41		27.04	29.72	28.12		18.13	28.71	20.65	11.15
(WT.AVG)	46.42	41.96	37.96	34.35	22.23	35.94	36.15	30.42		27.04	31.33	29.41		18.13	28.71	20.76	11.21
(MAX)	47.19	42.01	38.01	34.36	22.23	36.00	36.15	30.51		27.04	33.33	32.10		18.13	28.71	20.86	11.26
Jan (MIN)	41.65	37.62	36.34	33.59	22.02	34.59	36.39	30.45		27.04	30.53	28.81		18.13	27.13	18.88	10.20
(WT.AVG)	41.79	37.65	36.36	33.59	22.02	34.60	36.39	30.46		27.04	32.00	30.01		18.13	27.13	18.88	10.20
(MAX)	42.54	37.72	36.44	33.59	22.02	34.74	36.39	30.51		27.04	33.83	32.50		18.13	27.13	18.88	10.20
Feb (MIN)	43.79	39.80	38.52	35.77	22.85	36.77	36.94	31.31		27.04	31.04	29.33		18.13	27.13	18.88	10.20
(WT.AVG)	43.94	39.81	38.53	35.77	22.85	36.78	36.94	31.31		27.04	32.67	30.63		18.13	27.13	19.26	10.40
(MAX)	44.72	39.84	38.56	35.77	22.85	36.81	36.94	31.31		27.04	34.69	33.35		18.13	27.13	19.63	10.60
Mar (MIN)	45.82	41.85	40.02	37.27	23.87	38.27	37.75	32.12		27.04	31.45	29.73		18.13	27.13	19.63	10.60
(WT.AVG)	45.97	41.85	40.02	37.27	23.87	38.27	37.75	32.12		27.04	33.08	31.04		18.13	27.13	20.00	10.80
(MAX)	46.77	41.87	40.04	37.27	23.87	38.29	37.75	32.14		27.04	35.09	33.76		18.13	27.13	20.38	11.00
Apr (MIN)	47.16	43.21	40.33	37.58	23.98	38.14	37.62	31.99		27.04	31.44	29.72		18.13	30.13	20.38	11.01
(WT.AVG)	47.31	43.21	40.33	37.58	23.98	38.56	37.62	32.06		27.04	33.07	31.03		18.13	30.13	20.76	11.21
(MAX)	48.13	43.21	40.33	37.58	23.98	38.58	37.62	32.43		27.04	35.08	33.75		18.13	30.13	21.13	11.41
May (MIN)	45.85	41.90	38.40	35.49	22.73	36.47	36.49	30.51		27.04	30.38	28.67		18.13	30.13	21.13	11.41
(WT.AVG)	46.00	41.90	38.40	35.49	22.73	36.64	36.49	30.54		27.04	32.01	29.97		18.13	30.13	21.13	11.41
(MAX)	46.82	41.96	38.47	35.49	22.73	36.72	36.49	30.70		27.04	34.03	32.70		18.13	30.13	21.13	11.41
Jun (MIN)	44.34	40.39	36.32	32.95	20.72	34.63	35.80	29.58		27.04	28.52	26.88		18.13	27.89	21.13	11.41
(WT.AVG)	44.50	40.39	36.37	32.95	20.72	34.63	35.80	29.58		27.04	30.15	28.16		18.13	27.89	21.13	11.41
(MAX)	45.31	40.39	36.38	32.95	20.72	34.63	35.80	29.75		27.04	32.18	30.85		18.13	27.89	21.13	11.41

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
Jul (MIN)	45.90	41.81	37.11	33.46	21.36	35.36	35.46	29.74		27.04	28.48	26.77		18.13	24.86	21.13	11.41
(WT.AVG)	46.03	41.86	37.14	33.46	21.36	35.38	35.46	29.74		27.04	30.11	28.07		18.13	24.86	21.13	11.41
(MAX)	46.75	41.99	37.25	33.46	21.36	35.50	35.46	29.86		27.04	32.12	30.79		18.13	24.86	21.13	11.41
Aug (MIN)	48.08	43.45	38.25	34.71	22.47	36.11	35.46	29.89		27.04	29.81	28.06		18.13	29.56	21.13	11.41
(WT.AVG)	48.22	43.53	38.31	34.74	22.50	36.16	35.46	29.89		27.04	31.44	29.37		18.13	29.56	21.26	11.48
(MAX)	48.95	43.67	38.40	34.77	22.53	36.27	35.46	30.07		27.04	33.47	32.10		18.13	29.56	21.38	11.55
Sep (MIN)	47.94	43.07	37.63	34.20	21.99	35.18	35.46	29.93		27.04	30.27	28.56		18.13	30.13	21.38	11.55
(WT.AVG)	48.09	43.08	37.67	34.21	21.99	35.21	35.46	29.95		27.04	31.90	29.86		18.13	30.13	21.38	11.55
(MAX)	48.89	43.14	37.72	34.22	21.99	35.27	35.46	29.99		27.04	33.92	32.59		18.13	30.13	21.38	11.55
Oct (MIN)	48.22	43.35	37.71	33.27	21.88	35.26	35.46	29.79		27.04	29.15	27.44		18.13	30.13	21.38	11.55
(WT.AVG)	48.37	43.36	37.71	33.35	21.89	35.26	35.46	29.79		27.04	30.75	28.72		18.13	30.13	21.38	11.55
(MAX)	49.19	43.37	37.72	33.43	21.89	35.27	35.46	29.81		27.04	32.72	31.39		18.13	30.13	21.38	11.55
Nov (MIN)	47.96	43.37	37.14	31.69	21.30	34.69	35.46	29.79		27.04	27.80	27.46		18.13	30.13	21.38	11.55
(WT.AVG)	48.11	43.38	37.16	31.69	21.30	34.70	35.46	29.79		27.04	29.42	28.75		18.13	30.13	21.38	11.55
(MAX)	48.91	43.39	37.19	31.69	21.30	34.74	35.46	29.79		27.04	31.44	31.43		18.13	30.13	21.38	11.55
Dec (MIN)	48.48	43.46	37.54	32.09	21.51	35.09	35.46	29.79		27.04	27.71	26.00		18.13	30.13	21.38	11.55
(WT.AVG)	48.67	43.47	37.55	32.09	21.51	35.10	35.46	29.79		27.04	29.34	27.31		18.13	30.13	21.38	11.55
(MAX)	49.32	43.51	37.59	32.09	21.51	35.14	35.46	29.79		27.04	31.36	30.03		18.13	30.13	21.38	11.55

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2013 (MIN)	46.41	45.07	38.80	33.79	22.73	36.33	35.46	29.97		27.04	27.62	25.94	18.13	18.40	29.70	21.38	11.55
(WT.AVG)	46.66	45.19	38.89	33.82	22.74	36.43	35.46	29.97		27.04	29.25	27.24	18.13	18.40	29.70	21.38	11.55
(MAX)	46.91	45.66	38.95	33.87	22.74	36.50	35.46	30.01		27.04	31.27	29.95	18.13	18.40	29.70	21.38	11.55
Jan (MIN)	46.27	43.99	38.07	32.62	21.83	35.62	35.46	29.79		27.04	27.72	26.01		18.13	30.13	21.38	11.55
(WT.AVG)	47.03	44.06	38.10	32.62	21.83	35.64	35.46	29.79		27.04	29.38	27.34		18.13	30.13	21.38	11.55
(MAX)	48.27	44.25	38.18	32.62	21.83	35.73	35.46	29.82		27.04	31.44	30.10		18.13	30.13	21.38	11.55
Feb (MIN)	48.20	45.70	39.78	34.33	22.76	37.07	35.46	29.95		27.04	28.14	26.43		18.13	30.13	21.38	11.55
(WT.AVG)	48.41	45.76	39.83	34.33	22.84	37.34	35.46	29.95		27.04	29.76	27.73		18.13	30.13	21.38	11.55
(MAX)	48.64	46.23	39.96	34.33	22.89	37.51	35.46	29.98		27.04	31.77	30.43		18.13	30.13	21.38	11.55
Mar (MIN)	47.33	45.53	39.61	34.46	22.91	37.16	35.46	29.99		27.04	27.52	25.79		18.13	30.13	21.38	11.55
(WT.AVG)	47.33	45.74	39.61	34.46	22.91	37.16	35.46	29.99		27.04	29.14	27.09		18.13	30.13	21.38	11.55
(MAX)	47.33	46.49	39.61	34.46	22.91	37.16	35.46	29.99		27.04	31.15	29.81		18.13	30.13	21.38	11.55
Apr (MIN)	45.03		37.81	32.86	21.88	35.36	35.46	29.99		27.04	26.90	25.19		18.13	29.59	21.38	11.55
(WT.AVG)	45.05		37.83	32.86	21.88	35.37	35.46	29.99		27.04	28.49	26.47		18.13	29.59	21.38	11.55
(MAX)	45.16		37.94	32.86	21.88	35.45	35.46	30.06		27.04	30.46	29.13		18.13	29.59	21.38	11.55
May (MIN)	44.79		37.57	32.62	21.82	35.12	35.46	29.99		27.04	26.69	24.98		18.13	28.07	21.38	11.55
(WT.AVG)	44.82		37.58	32.62	21.82	35.13	35.46	29.99		27.04	28.32	26.28		18.13	28.07	21.38	11.55
(MAX)	44.88		37.63	32.68	21.82	35.18	35.46	30.07		27.04	30.34	29.00		18.13	28.07	21.38	11.55
Jun (MIN)	45.91		38.65	33.70	22.66	36.20	35.46	29.99		27.04	27.71	26.00		18.13	28.40	21.38	11.55
(WT.AVG)	46.02		38.67	33.71	22.66	36.21	35.46	29.99		27.04	29.34	27.31		18.13	28.40	21.38	11.55
(MAX)	46.14		38.75	33.82	22.66	36.30	35.46	30.10		27.04	31.36	30.03		18.13	28.40	21.38	11.55

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
Jul (MIN)	47.40		39.88	35.12	23.57	37.43	35.46	29.99		27.04	27.53	25.82		18.13	29.72	21.38	11.55
(WT.AVG)	47.62		40.09	35.12	23.57	37.63	35.46	29.99		27.04	29.16	27.12		18.13	29.72	21.38	11.55
(MAX)	47.68		40.16	35.21	23.57	37.71	35.46	30.02		27.04	31.18	29.84		18.13	29.72	21.38	11.55
Aug (MIN)	46.94		39.42	34.47	23.19	36.97	35.46	29.99		27.04	27.49	25.78		18.13	30.13	21.38	11.55
(WT.AVG)	46.98		39.45	34.50	23.19	36.99	35.46	29.99		27.04	29.11	27.08		18.13	30.13	21.38	11.55
(MAX)	47.05		39.58	34.73	23.19	37.13	35.46	30.04		27.04	31.12	29.78		18.13	30.13	21.38	11.55
Sep (MIN)	46.58		39.06	34.11	23.27	36.61	35.46	29.99		27.04	28.14	26.43	18.13	18.63	30.13	21.38	11.55
(WT.AVG)	47.06		39.25	34.34	23.27	36.84	35.46	29.99		27.04	29.77	27.74	18.13	18.63	30.13	21.38	11.55
(MAX)	47.38		39.30	34.35	23.27	36.85	35.46	30.03		27.04	31.79	30.46	18.13	18.63	30.13	21.38	11.55
Oct (MIN)	46.09		38.57	33.62	22.98	36.12	35.46	29.99		27.04	28.14	26.43	18.13	19.13	30.13	21.38	11.55
(WT.AVG)	46.40		38.57	33.62	22.98	36.12	35.46	29.99		27.04	29.77	27.74	18.13	19.13	30.13	21.38	11.55
(MAX)	46.60		38.58	33.63	22.98	36.13	35.46	29.99		27.04	31.79	30.46	18.13	19.13	30.13	21.38	11.55
Nov (MIN)	45.95		38.43	33.83	23.19	35.98	35.46	29.99		27.04	27.89	26.43	18.13	19.63	30.13	21.38	11.54
(WT.AVG)	46.55		38.78	33.83	23.19	36.33	35.46	29.99		27.04	29.53	27.74	18.13	19.63	30.13	21.38	11.55
(MAX)	46.83		38.81	33.86	23.19	36.36	35.46	30.06		27.04	31.54	30.46	18.13	19.63	30.13	21.38	11.55
Dec (MIN)	47.26		39.74	34.79	23.78	37.29	35.46	29.99		27.04	28.28	26.57	18.13	20.13	30.13	21.38	11.54
(WT.AVG)	47.65		39.76	34.80	23.78	37.30	35.46	29.99		27.04	29.91	27.87	18.13	20.13	30.13	21.38	11.55
(MAX)	47.83		39.81	34.86	23.78	37.36	35.46	30.04		27.04	31.93	30.60	18.13	20.13	30.13	21.38	11.55

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
2014 (MIN)	46.43		38.83	34.37	24.11	36.53	35.26	29.69		27.04	28.03	26.32	18.13	22.25	29.07	21.68	11.71
(WT.AVG)	46.73		38.85	34.35	24.11	36.55	35.26	29.69		27.04	29.64	27.61	18.13	22.35	29.07	21.80	11.77
(MAX)	46.92		38.94	34.43	24.11	36.60	35.26	29.73		27.04	31.64	30.31	18.13	22.38	29.07	21.86	11.81
Jan (MIN)	48.22		40.53	35.58	24.45	38.08	35.46	29.99		27.04	28.82	27.09	18.13	20.63	30.13	21.38	11.55
(WT.AVG)	48.54		40.66	35.74	24.45	38.23	35.46	29.99		27.04	30.44	28.40	18.13	20.63	30.13	21.38	11.55
(MAX)	48.73		40.71	35.76	24.45	38.26	35.46	29.99		27.04	32.46	31.12	18.13	20.63	30.13	21.38	11.55
Feb (MIN)	48.05		40.53	35.58	24.38	38.08	35.46	29.99		27.04	28.76	27.04	18.13	21.13	30.13	21.38	11.55
(WT.AVG)	48.42		40.53	35.22	24.38	38.08	35.46	29.99		27.04	30.39	28.35	18.13	21.13	30.13	21.38	11.55
(MAX)	48.55		40.53	35.58	24.38	38.08	35.46	29.99		27.04	32.40	31.07	18.13	21.13	30.13	21.38	11.55
Mar (MIN)	48.28		40.76	35.81	24.52	38.31	35.46	29.99		27.04	28.75	27.03	18.13	21.63	30.13	21.38	11.54
(WT.AVG)	48.67		40.76	35.81	24.52	38.31	35.46	29.99		27.04	30.38	28.34	18.13	21.63	30.13	21.38	11.55
(MAX)	48.78		40.76	35.81	24.52	38.31	35.46	29.99		27.04	32.39	31.06	18.13	21.63	30.13	21.38	11.55
Apr (MIN)	48.41		40.89	35.94	24.57	38.44	35.46	29.99		27.04	28.68	26.96	18.13	22.13	30.13	21.38	11.55
(WT.AVG)	48.78		40.89	35.94	24.56	38.44	35.46	29.99		27.04	30.31	28.27	18.13	22.13	30.13	21.38	11.55
(MAX)	48.91		40.89	35.94	24.57	38.44	35.46	29.99		27.04	32.32	30.99	18.13	22.13	30.13	21.38	11.55
May (MIN)	48.99		40.97	36.07	24.70	38.52	35.46	29.99		27.04	28.83	27.12	18.13	22.63	30.13	21.38	11.55
(WT.AVG)	49.24		41.04	36.07	24.67	38.58	35.46	29.99		27.04	30.46	28.42	18.13	22.63	30.13	21.38	11.55
(MAX)	49.50		41.16	36.15	24.70	38.71	35.46	30.05		27.04	32.48	31.14	18.13	22.63	30.13	21.38	11.55
Jun (MIN)	48.80		40.78	35.85	24.61	38.33	35.46	29.91		27.04	29.39	27.72	18.13	22.63	30.13	21.38	11.55
(WT.AVG)	49.18		40.86	35.87	24.61	38.38	35.46	29.91		27.04	31.04	29.02	18.13	22.63	30.13	21.38	11.55
(MAX)	49.52		41.03	36.08	24.61	38.58	35.46	30.01		27.04	33.08	31.74	18.13	22.63	30.13	21.38	11.55

Table 8.1-5M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Year/Month	1. Gasoline						2. Kerosene	3. Diesel			4. Fuel Oil		5. LPG				
	ULG 95	UGR 91	Gasohol 95			Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Low income household (Baht/Kg)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)	(E85)											(Baht/kg)	(Baht/L)
Jul (MIN)	48.75		40.62	35.67	24.51	38.17	35.46	29.85		27.04	29.18	27.51	18.13	22.63	30.13	21.38	11.55
(WT.AVG)	49.18		40.66	35.68	24.51	38.19	35.46	29.85		27.04	30.83	28.82	18.13	22.63	30.13	21.38	11.55
(MAX)	49.41		40.76	35.81	24.51	38.31	35.46	29.85		27.04	32.87	31.54	18.13	22.63	30.13	21.38	11.55
Aug (MIN)	48.37		39.78	34.94	24.28	37.37	35.46	29.86		27.04	28.95	27.24	18.13	22.63	30.07	21.38	11.55
(WT.AVG)	48.67		39.78	34.94	24.28	37.37	35.46	29.86		27.04	30.50	28.48	18.13	22.63	30.07	21.38	11.55
(MAX)	48.85		39.78	34.94	24.28	37.37	35.46	29.86		27.04	32.42	31.08	18.13	22.63	30.07	21.38	11.55
Sep (MIN)	44.86		37.80	33.98	24.28	35.78	35.46	29.99		27.04	28.59	26.88	18.13	22.63	29.33	21.38	11.55
(WT.AVG)	44.87		37.80	33.98	24.28	35.78	35.46	29.99		27.04	30.17	28.15	18.13	22.63	29.33	21.38	11.55
(MAX)	44.97		37.80	33.98	24.28	35.78	35.46	29.99		27.04	32.12	30.79	18.13	22.63	29.33	21.38	11.55
Oct (MIN)	43.81		36.75	33.11	23.48	34.73	35.13	29.66		27.04	27.29	25.58	18.13	22.63	29.02	22.00	11.88
(WT.AVG)	43.98		36.75	33.11	23.48	34.73	35.13	29.66		27.04	28.92	26.88	18.13	22.63	29.02	22.22	12.00
(MAX)	44.12		36.75	33.11	23.48	34.73	35.13	29.66		27.04	30.94	29.61	18.13	22.63	29.02	22.63	12.22
Nov (MIN)	42.05		34.99	31.67	22.88	32.97	34.86	29.41		27.04	25.97	24.26	18.13	22.63	25.37	22.63	12.22
(WT.AVG)	42.39		35.00	31.67	22.88	32.97	34.86	29.42		27.04	27.55	25.53	18.13	22.85	25.37	22.85	12.34
(MAX)	42.70		35.05	31.73	22.88	32.97	34.86	29.42		27.04	29.50	28.16	18.13	23.13	25.37	23.13	12.49
Dec (MIN)	38.58		31.52	28.20	22.65	29.57	33.96	27.60		27.04	23.09	21.38	18.13	23.13	24.16	23.13	12.49
(WT.AVG)	38.85		31.52	28.20	22.65	29.57	33.96	27.64		27.04	24.73	22.70	18.13	24.09	24.16	24.09	13.01
(MAX)	39.03		32.10	28.23	22.65	29.61	33.96	27.91		27.04	26.75	25.43	18.13	24.16	24.16	24.16	13.05

Table 8.1-6M
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Year/Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2010		**6,147**	**153,561**
Jan	20,794	-500	12,514
Feb	20,705	-89	12,443
Mar	21,764	1,059	14,603
Apr	22,705	941	13,852
May	22,670	-35	11,939
Jun	23,820	1,150	12,564
Jul	25,441	1,621	12,605
Aug	26,901	1,460	12,664
Sep	27,525	624	12,007
Oct	28,171	646	12,023
Nov	28,768	597	12,431
Dec	27,441	-1,327	13,916
2011		**-41,441**	**92,766**
Jan	25,183	-2,258	12,514
Feb	21,684	-3,499	14,068
Mar	14,258	-7,426	13,536
Apr	1,003	-13,255	13,246
May	550	-453	4,915
Jun	-1,253	-1,803	5,122
Jul	-524	729	4,861
Aug	1,317	1,841	5,322
Sep	-317	-1,634	4,751
Oct	-3,296	-2,979	4,804
Nov	-11,380	-8,084	4,701
Dec	-14,000	-2,620	4,926
2012		**-4,079**	**56,699**
Jan	-15,774	-1,774	5,514
Feb	-18,699	-2,925	5,245
Mar	-21,304	-2,605	5,151
Apr	-22,820	-1,516	4,897
May	-21,864	956	5,128
Jun	-18,623	3,241	4,997
Jul	-14,213	4,410	5,327
Aug	-15,325	-1,112	5,338
Sep	-18,423	-3,098	5,036
Oct	-19,500	-1,077	4,945
Nov	-18,079	1,421	5,121
Dec	-16,800	1,279	5,485

Table 8.1-6M (Cont.)
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Year/Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2013		**18,506**	**63,092**
Jan	-15,114	1,686	5,856
Feb	-15,492	-378	4,882
Mar	-13,098	2,394	5,211
Apr	-8,023	5,075	5,501
May	-2,024	5,999	5,501
Jun	3,256	5,280	5,028
Jul	5,738	2,482	5,562
Aug	7,032	1,294	5,191
Sep	5,444	-1,587	5,249
Oct	5,440	-4	5,204
Nov	5,360	-80	5,014
Dec	1,706	-3,653	4,891
2014		**14,154**	**66,787**
Jan	-2,795	-4,501	5,671
Feb	-5,849	-3,055	5,312
Mar	-7,235	-1,385	5,208
Apr	-7,301	-66	5,124
May	-7,335	-34	5,140
Jun	-7,986	-651	4,757
Jul	-8,940	-954	5,560
Aug	-6,130	2,810	5,380
Sep	-4,196	1,934	6,099
Oct	-638	3,558	5,852
Nov	7,923	8,561	5,130
Dec	15,860	7,937	7,554

Table 8.1-7M
Retail Prices of Premium Gasoline and High Speed Diesel

Unit : Baht/Litre

2012	Retail Price of Premium Gasoline															
	Thailand	Vietnam	Cambodia	Laos	Philippines	Malaysia	Singapore	Indonesia	Hong Kong	Belgium	France	Germany	Italy	Netherlands	U.K.	U.S.A.
Jan	37.26	N/A	43.29	39.98	41.89	19.60	53.04	34.12	72.21	68.35	67.12	64.65	70.00	71.64	67.53	27.02
Feb	39.63	31.95	44.66	41.00	41.79	19.55	53.20	33.04	72.02	68.13	63.80	66.25	73.57	72.91	70.87	31.44
Mar	40.23	35.10	44.66	42.90	41.81	19.53	54.08	32.11	71.88	70.21	67.65	67.25	73.94	73.94	67.61	33.11
Apr	40.03	36.45	44.28	42.90	42.64	19.48	55.01	37.52	72.93	72.99	72.21	69.91	77.87	75.86	71.38	34.34
May	37.23	34.80	44.07	44.00	40.13	19.42	52.71	36.65	72.70	67.45	68.13	65.69	72.40	71.72	67.77	30.98
Jun	35.43	32.55	41.34	42.24	37.76	19.26	49.56	34.19	64.80	66.21	67.82	63.28	70.28	70.88	66.30	29.80
Jul	37.73	32.25	40.95	44.00	38.92	19.32	52.36	33.07	72.34	65.68	65.92	65.45	68.90	69.83	66.54	31.08
Aug	38.13	36.23	42.35	42.74	42.01	19.35	54.48	35.83	74.56	69.82	68.36	68.48	72.58	72.89	68.48	32.52
Sep	37.63	36.23	42.94	41.77	41.66	19.42	53.92	36.74	69.41	70.95	66.28	70.27	76.03	75.67	71.28	34.02
Oct	37.13	36.23	43.51	41.30	41.41	19.40	52.81	35.72	68.36	68.29	68.45	66.16	74.85	74.29	68.65	33.73
Nov	37.13	35.48	42.74	41.11	39.98	19.34	52.85	32.94	66.83	65.92	64.85	64.53	70.07	72.21	66.55	31.05
Dec	37.83	35.48	41.97	40.56	39.49	19.27	52.89	33.60	66.91	66.85	67.34	64.36	72.08	72.94	66.52	29.79
2012	Retail Price of High Speed Diesel															
Jan	31.13	N/A	39.00	36.54	34.60	18.57	40.78	36.78	49.55	61.35	60.53	60.12	68.35	60.12	71.23	32.03
Feb	31.73	30.60	40.04	36.18	34.23	18.52	41.13	35.61	48.21	62.50	56.74	62.70	70.87	60.50	71.61	32.21
Mar	32.33	32.10	40.04	37.95	35.04	18.50	42.04	34.60	49.71	62.70	60.27	61.69	70.33	60.92	71.47	33.48
Apr	32.03	32.85	39.66	41.26	35.03	18.45	42.76	38.06	49.73	63.17	64.28	63.09	72.70	61.44	74.14	33.88
May	29.83	31.80	39.39	40.00	32.91	18.40	40.41	37.55	48.97	60.05	61.81	58.74	68.85	58.74	70.64	32.90
Jun	29.53	30.15	37.44	37.64	30.97	18.25	37.24	36.35	46.50	58.37	60.38	56.43	65.81	56.84	69.68	31.49
Jul	29.83	30.45	37.44	43.32	31.91	18.30	40.16	34.33	48.68	59.01	59.79	57.15	64.36	57.58	69.29	31.17
Aug	29.83	32.78	38.50	35.57	34.64	18.34	41.61	36.18	50.31	61.39	63.04	61.15	68.32	60.09	70.77	32.02
Sep	29.99	32.78	39.14	37.83	34.32	18.40	40.95	37.79	49.39	61.85	60.40	63.34	70.91	61.57	72.85	33.94
Oct	29.79	32.78	39.66	37.36	33.25	18.38	39.86	36.74	49.77	63.34	60.97	61.41	70.06	62.01	71.23	33.40
Nov	29.79	32.78	39.66	36.74	31.22	18.33	37.93	35.35	48.68	60.66	57.45	59.78	61.33	60.18	69.95	32.68
Dec	29.79	32.85	39.27	36.19	31.25	18.26	39.99	34.96	48.74	60.97	60.84	59.90	69.67	60.97	70.57	32.47

2013	Retail Price of Premium Gasoline																
	Thailand	Vietnam	Cambodia	Laos	Philippines	Malaysia	Singapore	Indonesia	Japan	Korea	Hong Kong	Belgium	France	Germany	Italy	Netherlands	U.K.	U.S.A.
Jan	37.83	33.11	42.18	39.52	39.00	18.98	53.15	33.06	N/A	N/A	69.75	67.89	68.46	64.80	71.58	73.25	63.02	26.55
Feb	40.53	33.11	42.00	41.08	40.38	18.58	54.50	33.55	50.70	55.02	71.64	67.64	67.95	64.26	72.63	72.55	62.25	29.99
Mar	39.53	33.11	41.44	40.33	37.56	18.22	51.81	34.47	48.80	52.18	67.66	62.48	64.21	60.71	64.21	68.32	60.82	28.57
Apr	37.13	33.80	41.81	42.62	35.20	18.68	49.73	33.79	46.08	51.01	66.68	62.50	65.76	62.00	67.11	68.26	61.42	27.49
May	37.93	33.36	40.66	43.91	35.92	19.01	50.67	33.31	45.06	50.83	68.17	62.50	64.69	63.83	67.11	69.78	60.99	28.96
Jun	38.83	36.38	40.66	44.64	38.19	18.83	52.95	34.38	48.74	51.59	71.46	67.00	65.90	66.55	71.24	73.20	64.51	29.53
Jul	39.93	37.61	41.73	45.68	38.91	18.68	54.74	34.70	50.45	54.80	72.73	70.62	70.95	70.03	75.41	76.49	66.45	30.15
Aug	39.33	37.16	42.27	45.84	37.93	18.67	54.08	34.95	53.20	56.35	70.10	72.30	71.70	72.00	78.82	79.34	69.59	30.32
Sep	38.63	37.16	41.34	44.72	38.46	20.59	52.69	34.41	52.10	56.27	68.05	68.52	71.21	69.20	76.84	76.54	70.44	28.53
Oct	38.43	36.57	41.34	44.28	40.79	21.13	54.99	35.77	51.50	55.66	66.78	69.62	63.62	68.88	76.17	75.48	66.29	27.17
Nov	39.43	36.20	42.93	43.60	39.79	21.20	55.89	34.87	50.08	56.66	68.58	70.08	64.12	69.39	75.31	76.22	67.51	27.89
Dec	40.53	39.54	43.99	46.17	40.96	21.24	57.46	36.03	49.94	58.61	71.29	72.06	66.85	68.66	80.04	79.50	70.52	28.47
2013	Retail Price of High Speed Diesel																
Jan	29.79	30.17	38.76	35.26	30.87	17.98	40.66	33.39	N/A	N/A	48.16	60.63	61.96	59.08	68.62	61.27	66.71	31.01
Feb	29.99	30.17	38.25	36.52	31.89	17.60	42.09	33.55	43.95	49.58	49.19	60.13	60.72	57.58	69.13	60.13	65.32	32.96
Mar	29.99	30.17	37.00	34.78	29.09	17.26	39.69	35.11	42.34	46.79	46.45	56.27	58.68	54.27	64.59	55.93	64.02	31.11
Apr	29.99	29.89	38.11	33.34	27.42	17.69	37.54	32.84	40.01	45.66	45.55	55.04	57.46	54.23	62.84	55.89	63.27	30.22
May	29.99	29.75	33.44	34.13	28.76	18.01	38.48	32.03	39.18	45.45	47.54	56.09	56.64	55.74	63.25	57.49	63.17	30.83
Jun	29.99	32.21	33.44	34.64	30.64	17.84	40.83	33.40	42.36	46.15	50.23	59.41	59.33	57.82	66.39	59.37	67.04	31.68
Jul	29.99	33.47	34.32	35.64	31.57	17.70	41.55	33.75	43.64	49.00	50.73	61.95	61.65	61.15	70.28	61.95	68.49	32.38
Aug	29.99	33.47	34.76	36.53	32.32	17.69	41.29	34.79	45.83	50.47	52.35	64.50	64.75	63.42	72.99	64.71	71.83	33.41
Sep	29.99	33.47	38.22	35.64	31.97	19.61	40.01	34.99	44.91	50.46	51.33	63.10	63.91	62.50	71.68	62.97	73.04	32.65
Oct	29.99	33.47	38.22	35.24	31.82	20.12	41.56	36.07	44.58	50.01	50.83	61.89	58.66	59.00	72.38	62.80	70.00	31.92
Nov	29.99	33.47	39.69	35.64	32.45	20.19	42.24	36.05	43.67	51.04	51.79	62.90	57.89	59.94	71.39	62.81	71.17	32.56
Dec	29.99	36.74	40.67	37.72	33.77	20.23	44.66	36.60	43.84	52.97	54.17	66.71	59.60	61.64	75.78	66.22	74.51	33.72

Table 8.1-7M (Cont.)
Retail Prices of Premium Gasoline and High Speed Diesel

2014	Retail Price of Premium Gasoline																		
	Thailand	Vietnam	Cambodia	Laos	Philippines	Malaysia	Singapore	Indonesia	Japan	Korea	Hong Kong	Belgium	France	Germany	Italy	Netherlands	U.K.	U.S.A.	Myanmar
Jan	40.53	39.54	43.99	46.17	40.90	21.12	57.38	37.71	51.05	57.43	71.85	72.28	67.71	72.05	80.20	79.74	70.97	28.76	N/A
Feb	40.53	40.02	43.46	46.62	39.91	21.22	57.21	38.51	51.04	57.54	71.87	72.60	67.21	71.52	79.85	79.67	70.94	29.56	N/A
Mar	41.03	37.79	43.74	45.68	39.04	21.26	57.94	38.48	50.35	57.48	71.23	71.93	66.90	72.24	79.21	79.52	70.00	30.92	N/A
Apr	41.43	38.10	43.20	45.68	39.91	21.09	58.31	37.10	52.33	58.25	71.87	73.72	67.26	72.96	80.37	81.04	70.67	31.52	31.34
May	41.13	38.10	43.74	47.27	40.03	21.70	59.06	37.65	53.44	59.55	73.14	73.38	67.84	72.67	79.86	81.34	71.68	31.70	31.43
Jun	40.73	38.60	43.74	47.89	42.32	21.53	59.81	37.49	53.88	59.49	73.31	74.87	67.74	73.94	80.79	82.62	72.73	31.90	31.06
Jul	40.23	38.72	43.85	46.72	40.26	21.40	58.19	39.48	53.50	57.64	70.94	70.25	64.82	70.25	78.17	77.82	71.15	29.87	30.60
Aug	37.80	37.22	43.85	45.72	37.90	21.61	57.08	37.29	52.55	57.88	69.52	68.49	63.02	68.62	76.81	76.04	68.15	29.29	31.11
Sep	37.80	36.47	43.60	44.64	37.17	21.13	56.12	35.32	49.74	56.04	70.30	67.36	60.99	66.41	73.97	74.30	68.02	28.78	30.50
Oct	35.80	34.41	42.80	45.26	36.25	23.14	54.13	35.13	48.99	54.41	68.99	62.47	58.10	61.44	71.95	70.92	65.19	26.37	29.16
Nov	34.30	31.28	40.10	44.85	35.10	22.77	52.14	32.87	44.41	51.11	68.19	62.48	57.29	59.68	70.38	70.01	63.67	24.56	28.39
Dec	30.00	29.57	40.59	44.24	31.55	21.61	46.99	32.27	41.23	48.11	63.35	55.25	48.87	53.35	64.00	63.64	58.23	20.11	24.40
2014	Retail Price of High Speed Diesel																		
Jan	29.99	36.22	40.67	37.27	32.96	20.11	44.60	37.27	44.81	51.89	53.84	65.81	59.66	63.82	76.03	67.58	74.99	34.07	N/A
Feb	29.99	36.43	40.18	37.31	33.73	20.21	44.46	38.21	44.77	51.93	53.81	65.32	59.42	64.15	76.07	67.52	74.81	34.47	N/A
Mar	29.99	33.90	40.50	36.28	32.63	20.25	44.43	39.10	44.05	51.78	54.12	64.38	58.45	64.25	74.58	66.45	73.77	34.17	N/A
Apr	29.99	34.02	40.00	36.28	33.26	20.09	44.32	38.16	45.44	52.40	54.32	65.15	58.01	63.94	75.43	67.17	74.08	33.98	32.02
May	29.99	34.02	40.50	37.15	33.68	20.66	44.89	38.71	46.47	53.50	54.48	58.10	58.05	63.91	74.36	66.86	74.95	34.02	32.11
Jun	29.85	33.80	40.50	37.19	33.19	20.50	44.86	37.49	46.80	53.33	54.84	65.38	57.90	64.58	75.41	67.57	75.54	33.75	31.73
Jul	29.85	33.50	39.90	35.88	31.63	20.38	43.45	38.74	46.47	51.50	53.29	61.59	55.91	61.59	72.44	63.96	73.52	32.56	31.26
Aug	29.99	33.14	39.90	35.48	31.00	20.58	43.39	37.59	45.68	51.63	53.03	60.86	54.80	60.61	70.91	62.94	70.45	32.40	31.45
Sep	29.99	32.25	40.40	34.96	29.91	20.13	42.28	36.48	43.27	49.93	53.00	59.01	52.85	58.60	68.93	60.79	70.29	32.43	30.83
Oct	29.39	29.64	41.20	35.42	27.49	22.14	40.02	35.70	42.59	48.30	51.60	56.57	50.43	54.10	67.00	58.63	67.54	31.36	29.48
Nov	29.39	27.98	36.45	34.93	27.25	21.78	38.15	33.15	38.60	45.28	50.62	55.52	49.59	52.72	65.52	58.07	65.93	31.59	28.71
Dec	26.89	27.18	36.90	34.52	23.59	21.32	33.67	31.28	35.75	42.46	47.42	49.72	44.31	47.09	60.61	51.86	61.58	28.11	26.32

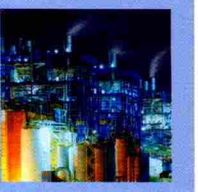
Compiled by : Energy Policy and Planning Office (EPPO)

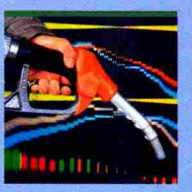


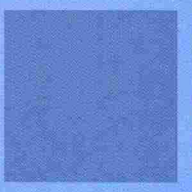








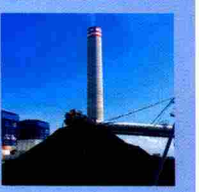




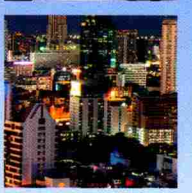






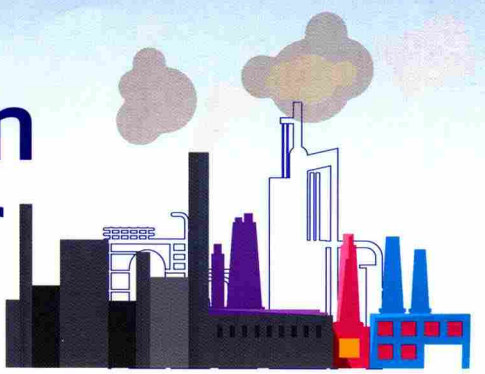






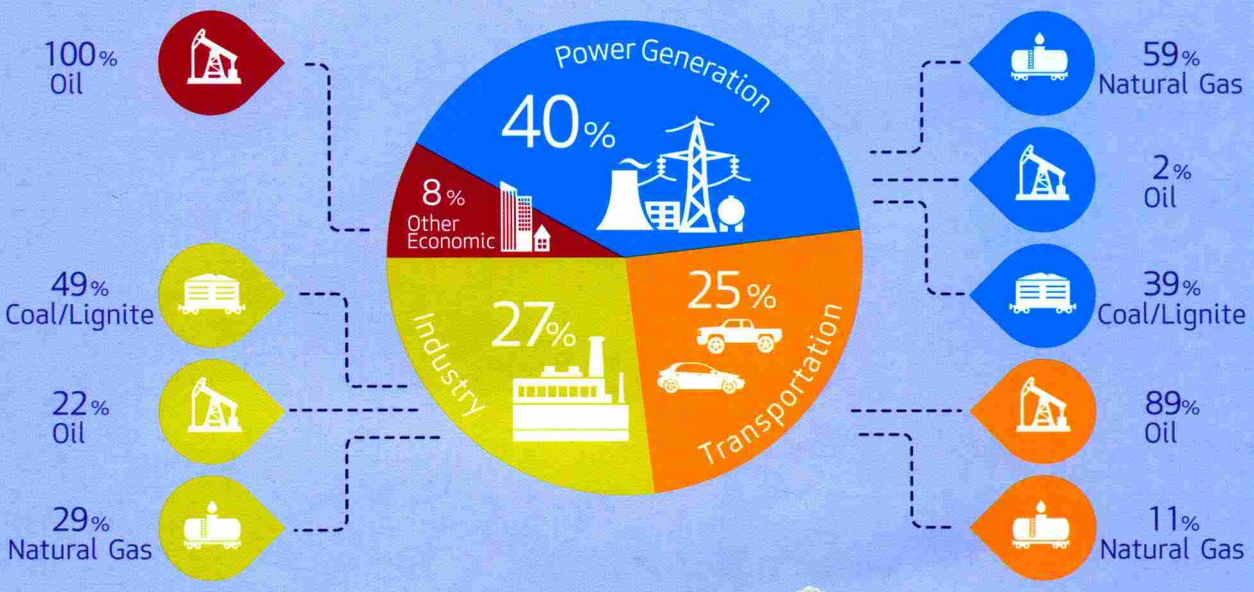
Chapter 9

Air Pollution Emission in The Energy Sector



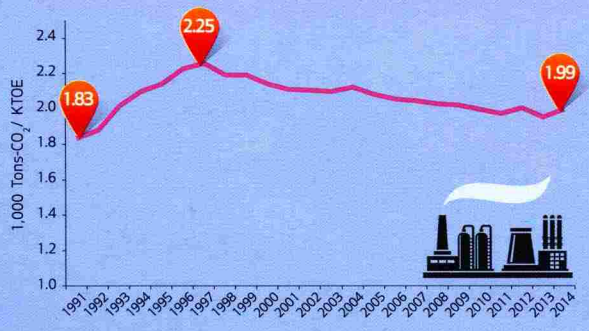
Air Pollution Emission in The Energy Sector

CO_2 Emission by Sector in 2014

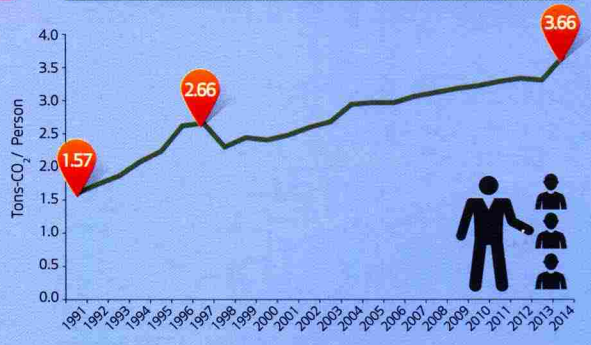


CO_2 Emission Indicators

CO_2 Emission per Primary Energy Consumption



CO_2 Emission per Capita



CO_2 Emission per GDP



CO_2 Emission per kWh



บทที่ 9

การปล่อยมลพิษทางอากาศในภาคพลังงาน

การคำนวณปริมาณการปลดปล่อยมลพิษทางอากาศ เป็นการประมาณปริมาณก๊าซคาร์บอนไดออกไซด์ (CO_2) ที่เกิดจากการใช้พลังงานของประเทศ ซึ่งคำนวณจากปริมาณการใช้พลังงาน (Energy Consumption) และค่าสัมประสิทธิ์การปล่อยก๊าซ CO_2 (Emission Factor) ตามชนิดเชื้อเพลิง โดยอ้างอิงระเบียบวิธีประมาณการและค่าสัมประสิทธิ์การปล่อยก๊าซ CO_2 ตามหลักเกณฑ์ของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006 โดยมีสูตรคำนวณดังนี้

$$CO_2 \text{ Emission} = \sum (EF_{Fuel} \times FC_{Fuel})$$

CO_2 Emission หมายถึง ปริมาณการปล่อยก๊าซ CO_2 จากการใช้พลังงาน

EF_{Fuel} (Emission Factor)[1] หมายถึง ค่าสัมประสิทธิ์การปล่อยก๊าซ CO_2 ตามชนิดเชื้อเพลิง

FC_{Fuel} (Fuel Consumption)[2] หมายถึง ปริมาณการใช้เชื้อเพลิงแต่ละชนิด

ขอบเขตการคำนวณปริมาณก๊าซ CO_2 ข้างต้น คำนวณจากการใช้พลังงานของ 4 ภาคเศรษฐกิจ ได้แก่ ภาคการผลิตไฟฟ้า (Power Generation) ภาคการขนส่ง (Transportation) ภาคอุตสาหกรรม (Industry) และภาคเศรษฐกิจอื่นๆ (Other Sectors) ซึ่งหมายถึงภาคครัวเรือน เกษตรกรรม และพาณิชยกรรม ด้านชนิดเชื้อเพลิง ได้แบ่งเชื้อเพลิงในการคำนวณออกเป็น 3 ชนิด ได้แก่ น้ำมันสำเร็จรูป (คำนวณจากการใช้น้ำมันเบนซิน ดีเซล น้ำมันเตา ก๊าซปิโตรเลียมเหลว (LPG) น้ำมันเครื่องบิน และน้ำมันก๊าด) ก๊าซธรรมชาติ และถ่านหิน/ลิกไนต์ โดยในการคำนวณจะไม่รวมเชื้อเพลิงบางชนิด ได้แก่ น้ำมันเตาสำหรับเรือเดินสมุทรระหว่างประเทศ (Bunker Oil) น้ำมันเครื่องบินสำหรับเที่ยวบินระหว่างประเทศ และเชื้อเพลิงหมุนเวียน เช่น ชีวมวล ก๊าซชีวภาพ เอทานอล ไบโอดีเซล พลังน้ำ เป็นต้น เพื่อให้สอดคล้องกับข้อยกเว้นในการคำนวณและป้องกันการนับซ้ำของ IPCC

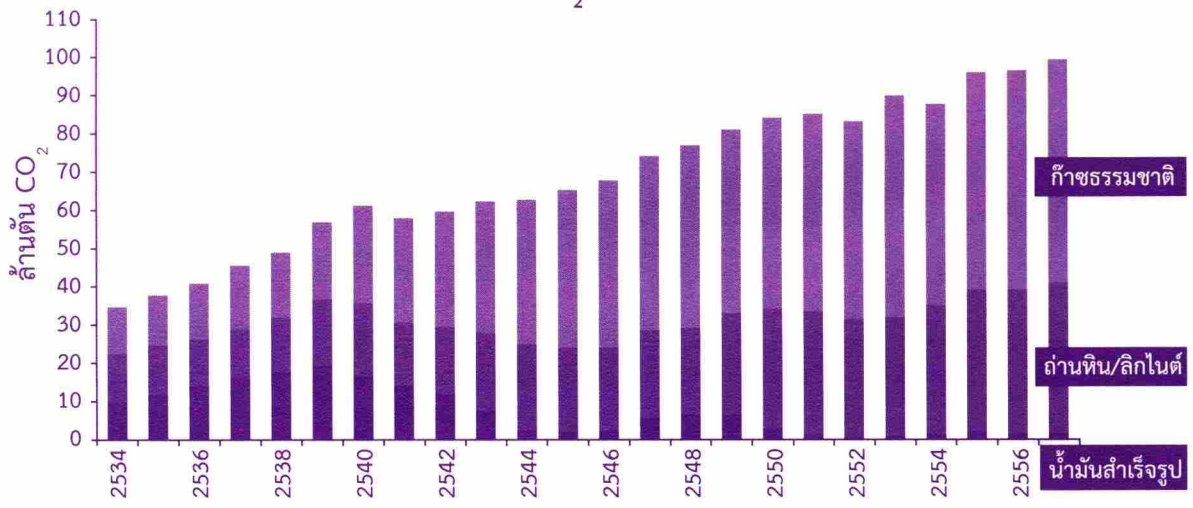
[1] อ้างอิงจากคู่มือการคำนวณการปล่อยมลพิษทางอากาศของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006

[2] อ้างอิงจากฐานข้อมูลสถิติพลังงานของสำนักงานนโยบายและแผนพลังงาน

การปล่อยก๊าซ CO_2 รายภาคเศรษฐกิจ

• **ภาคการผลิตไฟฟ้า** ในปี 2557 มีการปล่อยก๊าซ CO_2 รวมทั้งสิ้น 99.2 ล้านตัน โดยกว่า 25 ปีที่ผ่านมามีการปล่อยก๊าซ CO_2 จากการใช้น้ำมันสำเร็จรูป (น้ำมันดีเซล และน้ำมันเตา) ลดลงจาก 8.1 ล้านตันในปี 2533 เหลือ 1.5 ล้านตันในปี 2557 ในขณะที่การใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติยังคงมีแนวโน้มการปล่อยก๊าซ CO_2 สูงขึ้นตามปริมาณการใช้พลังงานที่เพิ่มขึ้น โดยถ่านหิน/ลิกไนต์ปล่อยก๊าซ CO_2 เพิ่มขึ้นจาก 10.4 ล้านตันในปี 2533 เป็น 39.5 ล้านตันในปี 2557 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO_2 เพิ่มขึ้นจาก 9.6 ล้านตัน ในปี 2533 เป็น 58.2 ล้านตันในปี 2557 โดยก๊าซธรรมชาตินับเป็นเชื้อเพลิงที่มีการปล่อยก๊าซ CO_2 ในภาคการผลิตไฟฟ้ามากที่สุด

การปล่อยก๊าซ CO_2 ภาคการผลิตไฟฟ้า

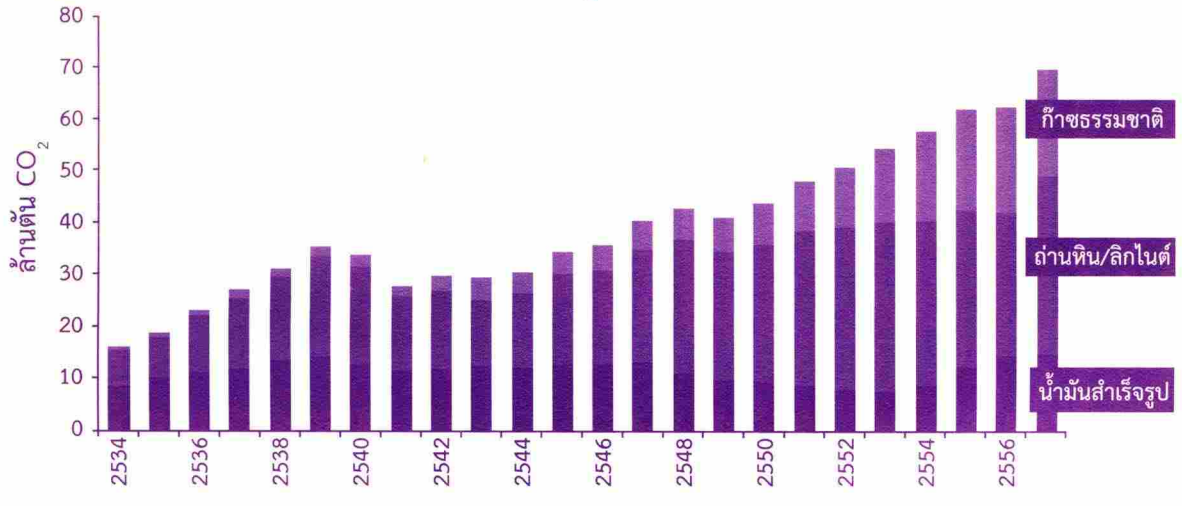


หน่วย : ล้านตัน CO_2

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
น้ำมันสำเร็จรูป	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.04	12.05	7.59	2.38	2.14
ถ่านหิน/ลิกไนต์	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40	20.32	22.57	21.98
ก๊าซธรรมชาติ	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45	30.24	34.53	37.80	41.15
ปี พ.ศ.	**2546**	**2547**	**2548**	**2549**	**2550**	**2551**	**2552**	**2553**	**2554**	**2555**	**2556**	**2557**
น้ำมันสำเร็จรูป	2.31	5.60	6.51	6.36	2.97	1.22	0.55	0.84	1.43	1.68	1.54	1.49
ถ่านหิน/ลิกไนต์	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.68	37.42	37.60	39.53
ก๊าซธรรมชาติ	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62	56.91	57.28	58.22

- **ภาคอุตสาหกรรม** มีการปล่อยก๊าซ CO_2 จากการใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติเพิ่มขึ้น ในขณะที่มีแนวโน้มการปล่อยก๊าซ CO_2 จากน้ำมันสำเร็จรูป (น้ำมันดีเซล น้ำมันเตา น้ำมันก๊าด และ LPG) ไม่เปลี่ยนแปลงมากนัก ในปี 2557 ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงที่มีสัดส่วนการปล่อยก๊าซ CO_2 มากที่สุดในภาคอุตสาหกรรม โดยเพิ่มขึ้นจาก 6.2 ล้านตันในปี 2533 เป็น 34.1 ล้านตันในปี 2557 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO_2 ในช่วงดังกล่าวเพิ่มขึ้น ในขณะที่น้ำมันสำเร็จรูปมีแนวโน้มการปล่อยก๊าซ CO_2 ไม่เปลี่ยนแปลงมากนัก โดยในปี 2557อยู่ที่ระดับ 15.1 ล้านตัน

การปล่อยก๊าซ CO_2 ภาคอุตสาหกรรม



หน่วย : ล้านตัน CO_2

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
น้ำมันสำเร็จรูป	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.71	11.90	12.67	12.38	12.92
ถ่านหิน/ลิกไนต์	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97	12.78	14.24	17.27
ก๊าซธรรมชาติ	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61	3.86	3.76	4.22
ปี พ.ศ.	**2546**	**2547**	**2548**	**2549**	**2550**	**2551**	**2552**	**2553**	**2554**	**2555**	**2556**	**2557**
น้ำมันสำเร็จรูป	12.92	13.28	11.44	10.09	9.57	8.92	8.00	7.50	8.92	12.55	14.55	15.11
ถ่านหิน/ลิกไนต์	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	31.65	30.20	27.77	34.14
ก๊าซธรรมชาติ	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00	17.00	19.30	20.03	20.60

• **ภาคการขนส่ง** เชื้อเพลิงสำคัญที่ก่อให้เกิดการปล่อยก๊าซ CO_2 ในภาคเศรษฐกิจนี้ คือ น้ำมันสำเร็จรูป (น้ำมันเบนซิน ดีเซล น้ำมันเตา น้ำมันเครื่องบิน และ LPG) โดยมีการปล่อยก๊าซ CO_2 เพิ่มขึ้นจาก 28.4 ล้านตัน ในปี 2533 เป็น 55.2 ล้านตัน ในปี 2540 ก่อนจะลดลงในปี 2541 ซึ่งเป็นช่วงที่ประเทศเกิดภาวะวิกฤติเศรษฐกิจ อันส่งผลให้มีการใช้พลังงานลดลง จากนั้น การปล่อยก๊าซ CO_2 เริ่มมีแนวโน้มเพิ่มขึ้น ก่อนจะลดลงอีกครั้งในปี 2551 จากภาวะวิกฤติเศรษฐกิจของสหรัฐอเมริกาซึ่งส่งผลกระทบต่อประเทศไทย อย่างไรก็ดีปัจจุบันการปล่อยก๊าซ CO_2 เริ่มกลับมามีแนวโน้มเพิ่มขึ้น โดยในปี 2557 มีการปล่อยก๊าซ CO_2 จากน้ำมันสำเร็จรูปที่ระดับ 56.3 ล้านตัน ในส่วนของก๊าซธรรมชาติเริ่มมีการใช้เป็นเชื้อเพลิงภาคขนส่งในปี 2544 โดยมีแนวโน้มการปล่อยก๊าซ CO_2 เพิ่มขึ้นอย่างต่อเนื่อง จาก 0.01 ล้านตันในปี 2544 เป็น 6.7 ล้านตันในปี 2557

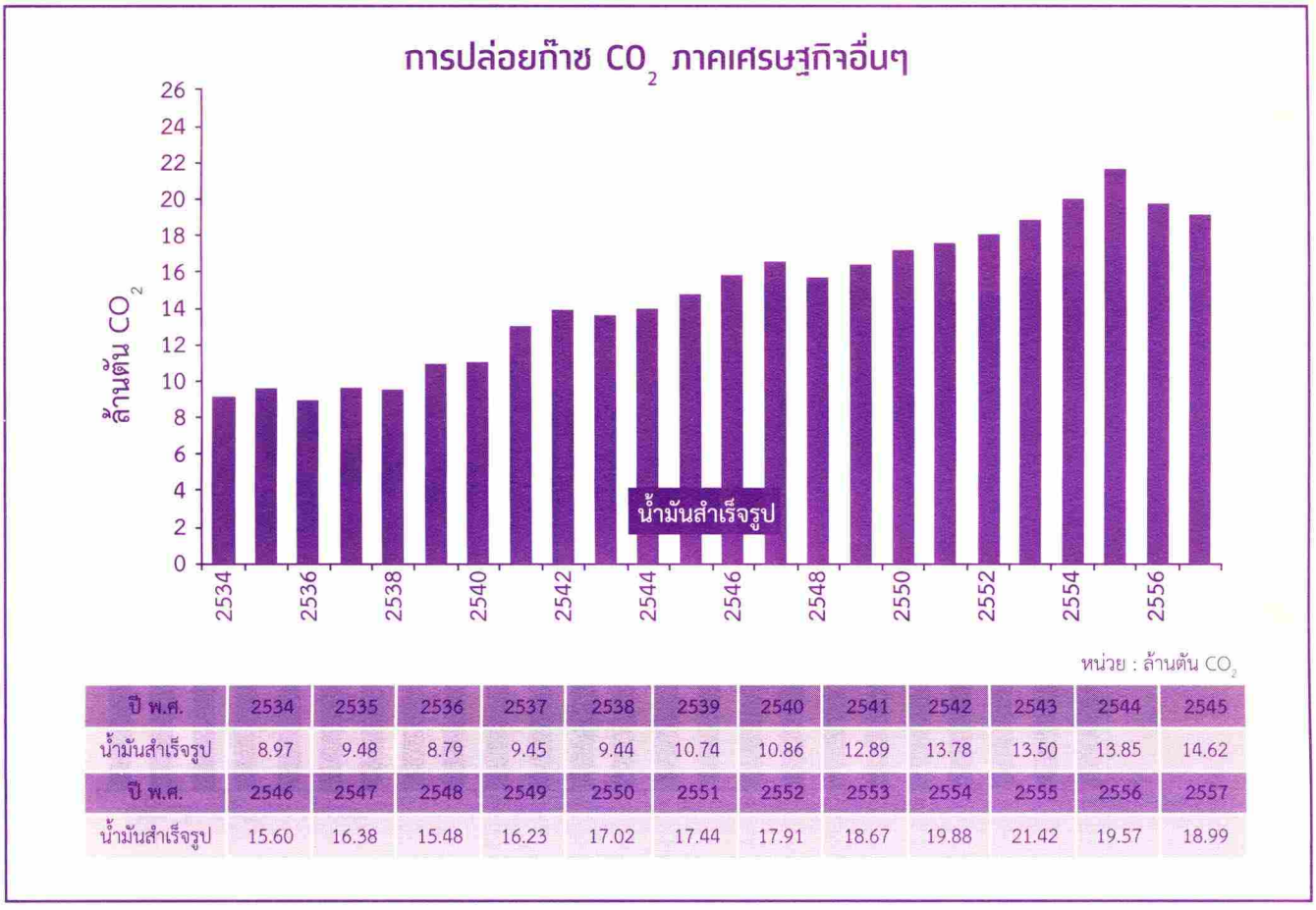
การปล่อยก๊าซ CO_2 ภาคการขนส่ง



หน่วย : ล้านตัน CO_2

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
น้ำมันสำเร็จรูป	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.77	46.92	45.58	46.55	49.25
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	0.01	0.01
ปี พ.ศ.	**2546**	**2547**	**2548**	**2549**	**2550**	**2551**	**2552**	**2553**	**2554**	**2555**	**2556**	**2557**
น้ำมันสำเร็จรูป	53.02	56.50	57.41	54.63	55.07	50.90	53.36	53.77	54.37	55.18	55.94	56.33
ก๊าซธรรมชาติ	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90	5.92	6.52	6.73

- **ภาคเศรษฐกิจอื่นๆ** มีแนวโน้มการปล่อยก๊าซ CO_2 จากการใช้น้ำมันสำเร็จรูปเพิ่มสูงขึ้นจาก 8.8 ล้านตันในปี 2533 เป็น 21.4 ล้านตันในปี 2555 ก่อนจะเริ่มลดลงจนอยู่ที่ระดับ 19.0 ล้านตันในปี 2557



หน่วย : ล้านตัน CO_2

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
น้ำมันสำเร็จรูป	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.89	13.78	13.50	13.85	14.62
ปี พ.ศ.	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
น้ำมันสำเร็จรูป	15.60	16.38	15.48	16.23	17.02	17.44	17.91	18.67	19.88	21.42	19.57	18.99

ดัชนีชี้วัดการปล่อยก๊าซ CO_2

- **การปล่อยก๊าซ CO_2 ต่อการใช้พลังงานขั้นต้น** มีแนวโน้มเพิ่มสูงขึ้นในช่วงปี 2534-2540 จาก 1.83 พันตัน เป็น 2.25 พันตัน ต่อการใช้พลังงานขั้นต้น 1 KTOE หรือเพิ่มขึ้นเฉลี่ยร้อยละ 3.5 ต่อปี จากนั้นจึงลดลงอย่างชัดเจนตั้งแต่ปี 2541 ต่อเนื่องจนถึงปี 2557 ซึ่งมีการปล่อยก๊าซ CO_2 ที่ระดับ 1.99 พันตันต่อการใช้พลังงานขั้นต้น 1 KTOE เฉลี่ยลดลงร้อยละ 0.6 ต่อปี

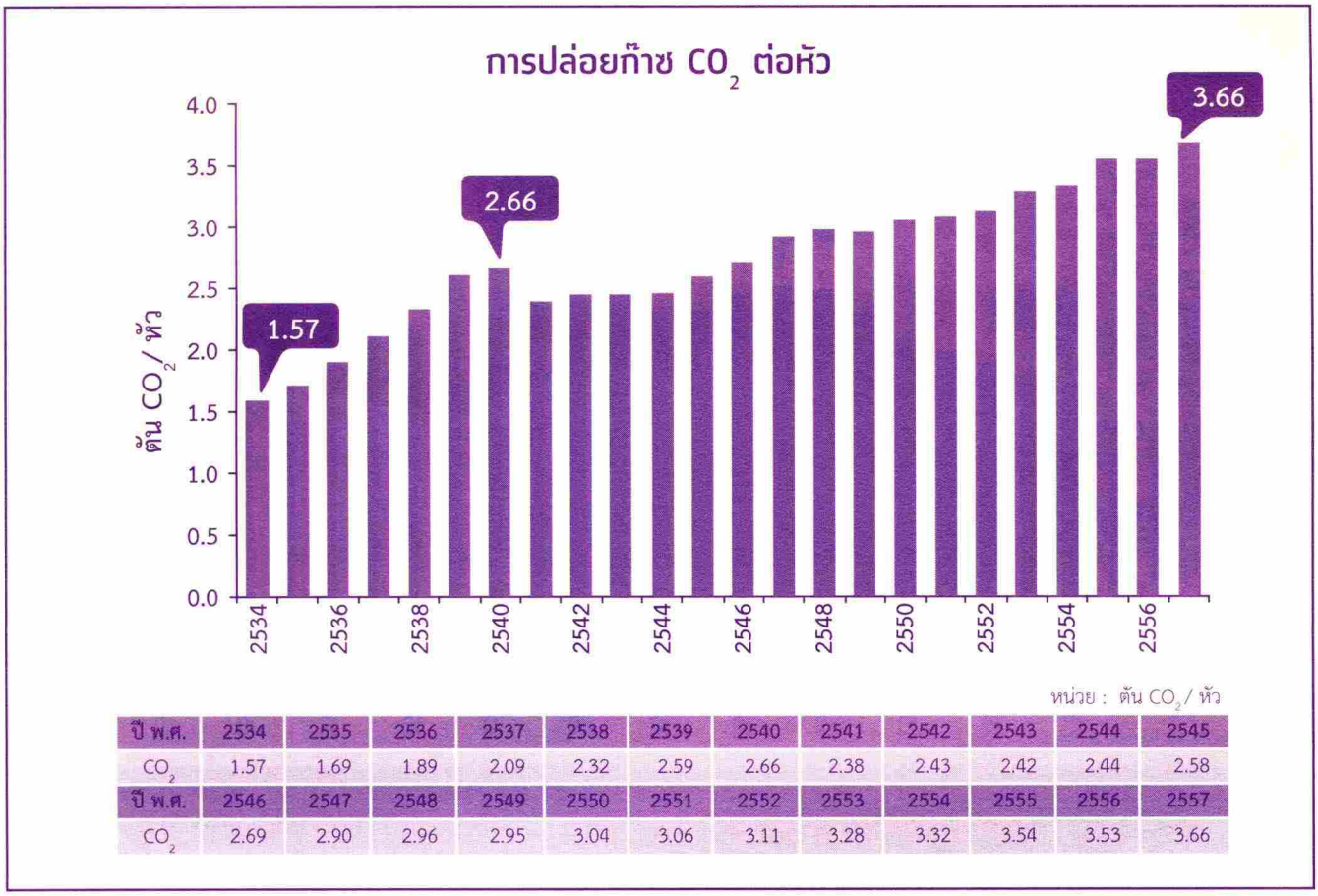
การปล่อยก๊าซ CO_2 ต่อการใช้พลังงาน



หน่วย : พันตัน CO_2 / KTOE

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
CO_2	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.19	2.14	2.11	2.10
ปี พ.ศ.	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
CO_2	2.09	2.11	2.08	2.05	2.04	2.03	2.02	1.99	1.97	2.01	1.95	1.99

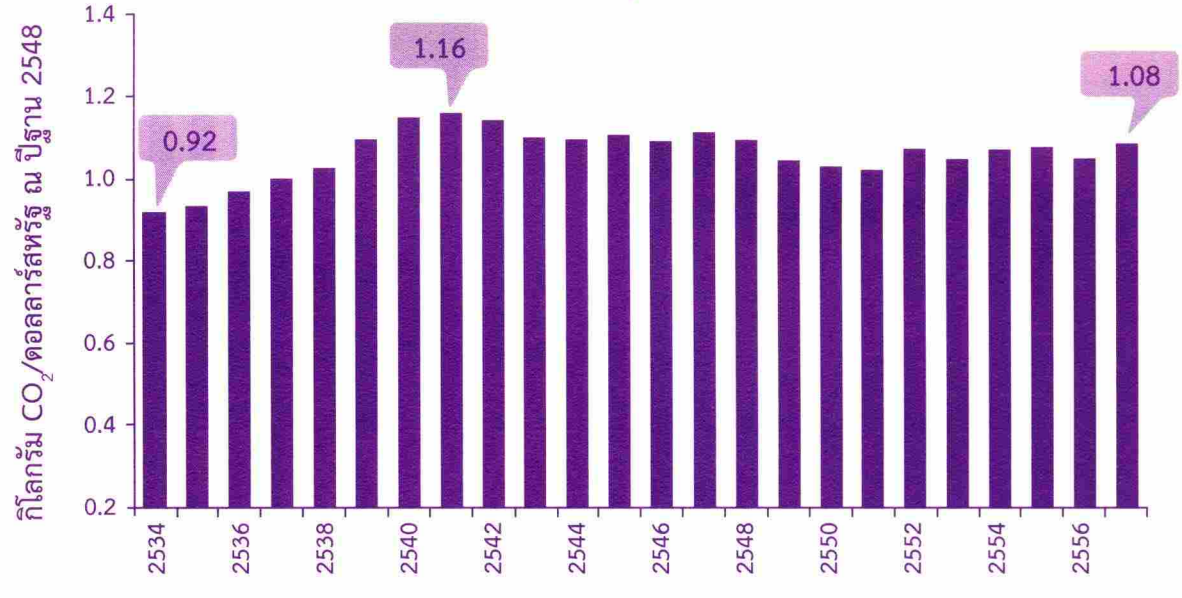
- **การปล่อยก๊าซ CO_2 ต่อหัว** มีอัตราการเติบโตค่อนข้างสูงในช่วงปี 2534-2540 โดยเฉลี่ยเพิ่มขึ้นร้อยละ 9.2 ต่อปี ก่อนจะลดต่ำลงในปี 2541 ตามการใช้พลังงานที่ลดลงจากภาวะเศรษฐกิจ และมีแนวโน้มเพิ่มขึ้นในปีต่อมาต่อเนื่องจนถึงปี 2557 ซึ่งมีการปล่อยก๊าซ CO_2 ที่ระดับ 3.66 ตันต่อหัว เฉลี่ยเพิ่มขึ้นร้อยละ 2.7 ต่อปี



หน่วย : ตัน CO_2 / หัว

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
CO_2	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.38	2.43	2.42	2.44	2.58
ปี พ.ศ.	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
CO_2	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.28	3.32	3.54	3.53	3.66

- **การปล่อยก๊าซ CO_2 ต่อ GDP** มีแนวโน้มเพิ่มขึ้นจาก 0.92 กิโลกรัม ต่อ GDP 1 ดอลลาร์สหรัฐ ในปี 2534 มาอยู่ที่ 1.15 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ ในปี 2540 เฉลี่ยเพิ่มขึ้นร้อยละ 3.8 ต่อปี โดยในปี 2541 มีการปล่อยก๊าซ CO_2 เพิ่มขึ้นเป็น 1.16 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ ซึ่งเป็นอัตราสูงสุดของประเทศในรอบกว่า 25 ปีที่ผ่านมา จากนั้นจึงมีแนวโน้มลดลงจนถึงปี 2557 มีการปล่อยก๊าซ CO_2 ที่ระดับ 1.08 กิโลกรัม ต่อ 1 ดอลลาร์สหรัฐ เฉลี่ยลดลงร้อยละ 0.4 ต่อปี

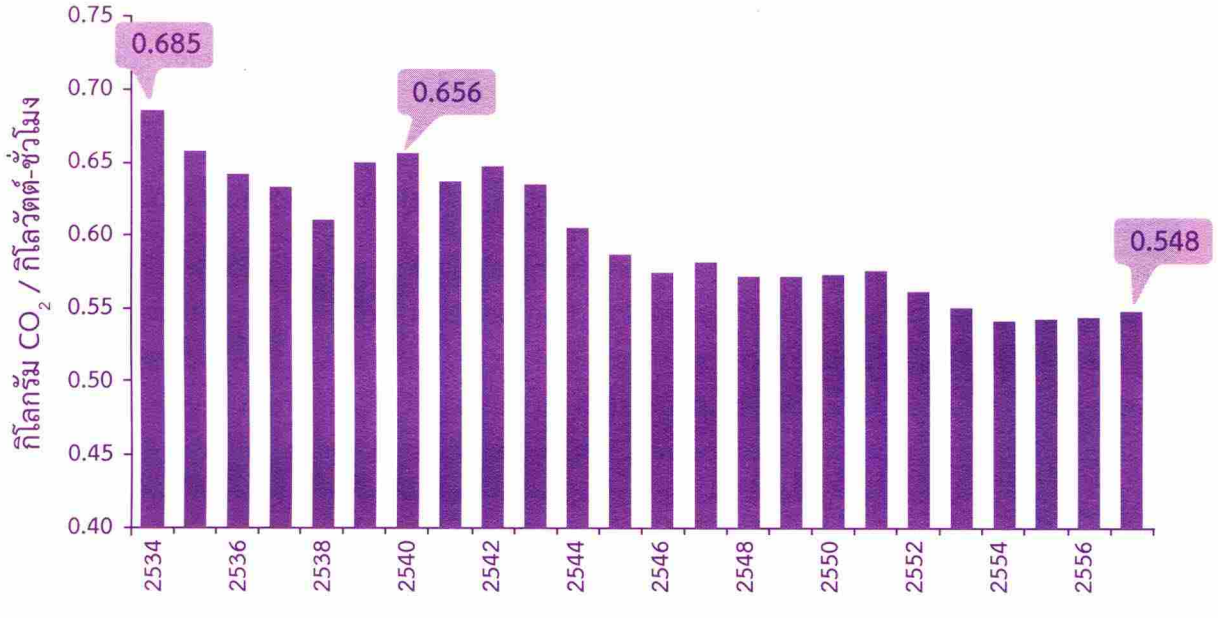


หน่วย : กิโลกรัม CO_2/ดอลลาร์สหรัฐ ณ ปีฐาน 2548

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
CO_2	0.92	0.93	0.97	1.00	1.02	1.09	1.15	1.16	1.14	1.10	1.09	1.11
ปี พ.ศ.	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
CO_2	1.09	1.11	1.09	1.04	1.03	1.02	1.07	1.05	1.07	1.07	1.05	1.08

- **การปล่อยก๊าซ CO_2 ต่อหน่วยการผลิตไฟฟ้า (kWh)** มีการเปลี่ยนแปลงเป็นช่วงตามสัดส่วนเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้า จาก 0.685 กิโลกรัม ต่อ 1 kWh ในปี 2534 ลดลงเหลือ 0.609 กิโลกรัม ต่อ 1 kWh ในปี 2538 ก่อนจะเพิ่มขึ้นเป็น 0.656 กิโลกรัม ต่อ 1 kWh ในปี 2540 และเริ่มมีแนวโน้มลดลงตามสัดส่วนของก๊าซธรรมชาติที่นำมาใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าที่เพิ่มขึ้น โดยปี 2557 มีการปล่อยก๊าซ CO_2 ที่ระดับ 0.548 กิโลกรัม ต่อ 1 kWh เฉลี่ยลดลงร้อยละ 1.0 ต่อปี

การปล่อยก๊าซ CO_2 ต่อหน่วยการผลิตไฟฟ้า (kWh)



หน่วย : กิโลกรัม CO_2/กิโลวัตต์-ชั่วโมง

ปี พ.ศ.	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545
CO_2	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.646	0.634	0.604	0.587
ปี พ.ศ.	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557
CO_2	0.573	0.581	0.571	0.571	0.572	0.575	0.561	0.550	0.540	0.543	0.544	0.548

Chapter 9 : Air Pollution Emission in the Energy Sector

The calculation of the amount of air pollution emissions herein is the estimation of CO_2 emission stemming from energy use in Thailand, calculated from the amount of energy consumption and the CO_2 emission factor by fuel type, with reference to the estimation methodologies and CO_2 emission factors prescribed in the 2006 Guidelines of the Intergovernmental Panel on Climate Change (IPCC), using the following calculation formula:

$$CO_2 \text{ Emission} = \sum (EF_{Fuel} \times FC_{Fuel})$$

Where:

CO_2 Emission	means	the amount of CO_2 emission from energy consumption
EF_{Fuel} (Emission Factor)[1]	means	the CO_2 emission coefficient of each fuel type
FC_{Fuel} (Fuel Consumption)[2]	means	the amount of utilization of each fuel type

The scope of the above-mentioned CO_2 emission calculation covers energy consumption in four major economic sectors, namely: power generation, transportation, industry and other economic sectors (covering the residential, agricultural and commercial sectors). As for the fuel types used in the calculation, they are divided into three types, namely: petroleum products (calculated from consumption of gasoline, diesel, fuel oil, LPG, jet petroleum and kerosene), natural gas and coal/lignite. Certain types of fuel are not included in the calculation, i.e. bunker oil for international ocean liners, jet petroleum for international flights, and renewable fuels, such as biomass, biogas, ethanol, biodiesel and hydropower, to be in line with the exceptions to the calculation and to avoid the possibilities of double counting prescribed by the IPCC.

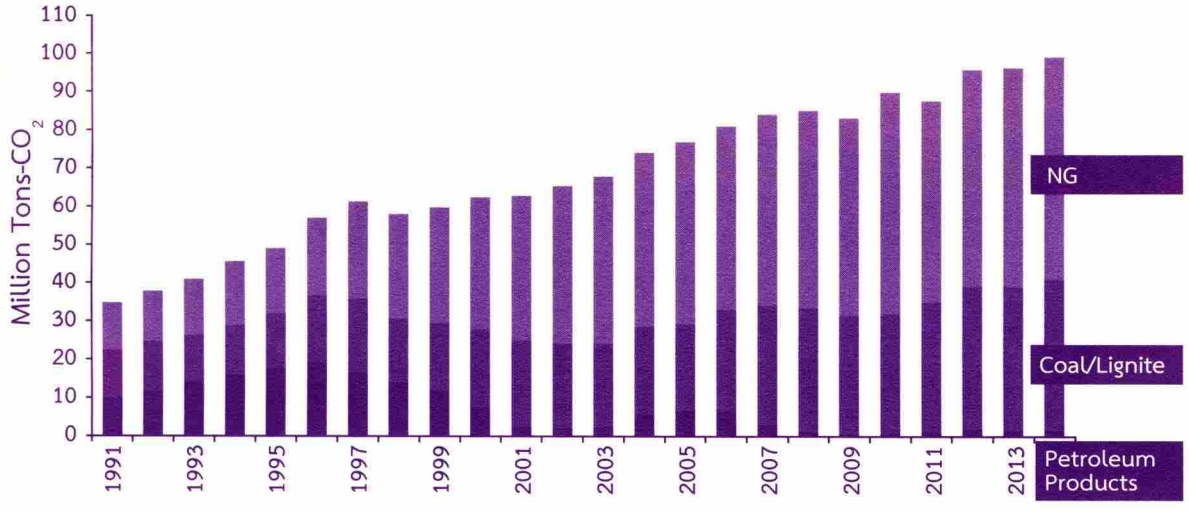
[1] Based on the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories

[2] Based on the energy statistics database of the Energy Policy and Planning Office

CO_2 Emission by Economic Sector

- **Power Generation Sector.** In 2014, CO_2 emissions in this sector totaled 99.2 million tons. Over the past 25 years, CO_2 emissions from the use of petroleum products (diesel and fuel oil) had decreased since 1990 from 8.1 million tons to 1.5 million tons in 2014. However, CO_2 emissions from burning of coal/lignite and natural gas had been rising in accordance with increased volume of energy use. CO_2 emission from coal/lignite consumption increased from 10.4 million tons in 1990 to 39.5 million tons in 2014. Similarly, CO_2 emission from natural gas consumption increased from 9.6 million tons in 1990 to 58.2 million tons in 2014, accounted for the largest CO_2 emission source in the power generation sector.

CO_2 Emission in the Power Generation Sector

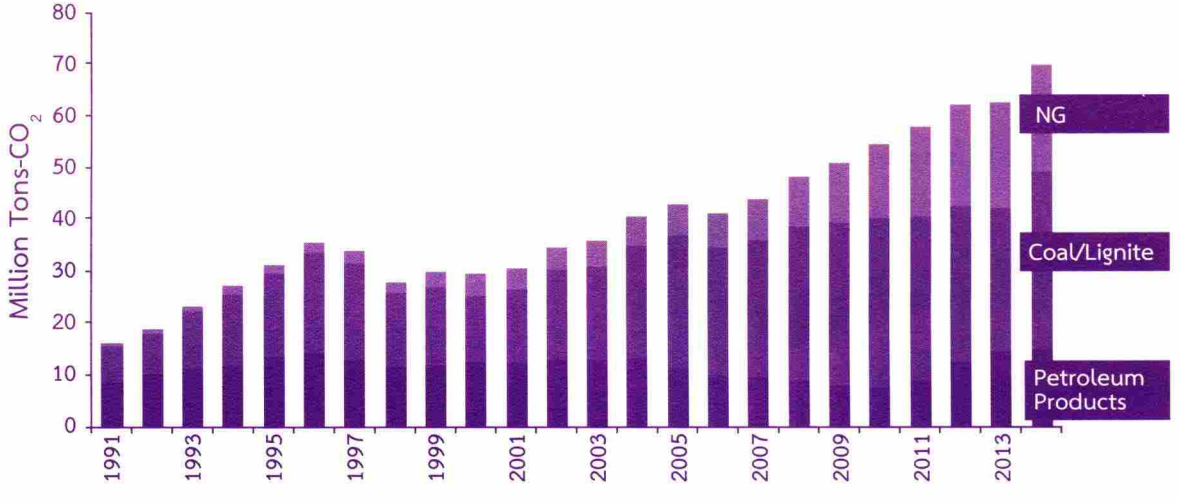


Unit: Million Tons-CO_2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Petroleum Products	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.04	12.05	7.59	2.38	2.14
Coal/Lignite	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40	20.32	22.57	21.98
NG	12.32	13.04	14.73	16.65	17.03	20.20	25.54	27.45	30.24	34.53	37.80	41.15
Year	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**
Petroleum Products	2.31	5.60	6.51	6.36	2.97	1.22	0.55	0.84	1.43	1.68	1.54	1.49
Coal/Lignite	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.68	37.42	37.60	39.53
NG	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62	56.91	57.28	58.22

- **Industrial Sector.** CO_2 emissions from coal/lignite and natural gas consumption in this sector increased while a decrease in emissions had been observed in the use of petroleum products (diesel, fuel oil, kerosene and LPG). In 2014, coal/lignite accounted for the largest CO_2 emission source in the industrial sector, with the emission increasing from 6.2 million tons in 1990 to 34.1 million tons in 2014. CO_2 emission from natural gas consumption also increased over the same period, whereas the CO_2 emission from petroleum product consumption decreased to only 15.1 million tons in 2014.

CO_2 Emission in the Industrial Sector

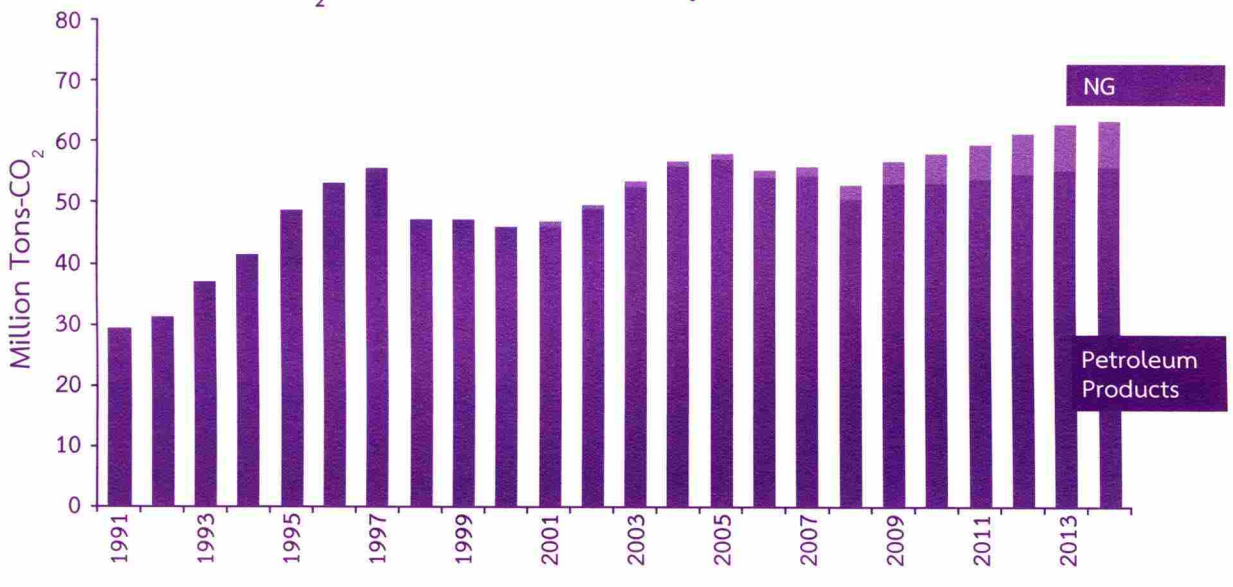


Unit : Million Tons-CO_2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Petroleum Products	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.71	11.90	12.67	12.38	12.92
Coal/Lignite	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97	12.78	14.24	17.27
NG	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61	3.86	3.76	4.22
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Petroleum Products	12.92	13.28	11.44	10.09	9.57	8.92	8.00	7.50	8.92	12.55	14.55	15.11
Coal/Lignite	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	31.65	30.20	27.77	34.14
NG	4.62	5.35	5.62	6.41	7.88	9.34	11.26	14.00	17.00	19.30	20.03	20.60

- **Transportation Sector.** The major fuel that constituted the largest CO_2 emission source in this economic sector was petroleum products (gasoline, diesel, fuel oil, jet petroleum and LPG). CO_2 emission increased from 28.4 million tons in 1990 to 55.2 million tons in 1997 before declining in 1998 when the economic crisis hit the country. After that the trend of CO_2 emission was continuously on the rise again. In 2008, CO_2 emission dropped at a coincident time of the US economic crisis. In 2014, CO_2 emission was at 56.3 million tons. For CO_2 emission from natural gas in transport, natural gas was used as a fuel in transport for the first time in 2001 in case of Thailand. Since then, CO_2 from natural gas in transport had a rising trend the same as CO_2 trend of oil in transport. In 2014 CO_2 emission was 6.7 million tons, compared to only 0.01 million ton in 2001.

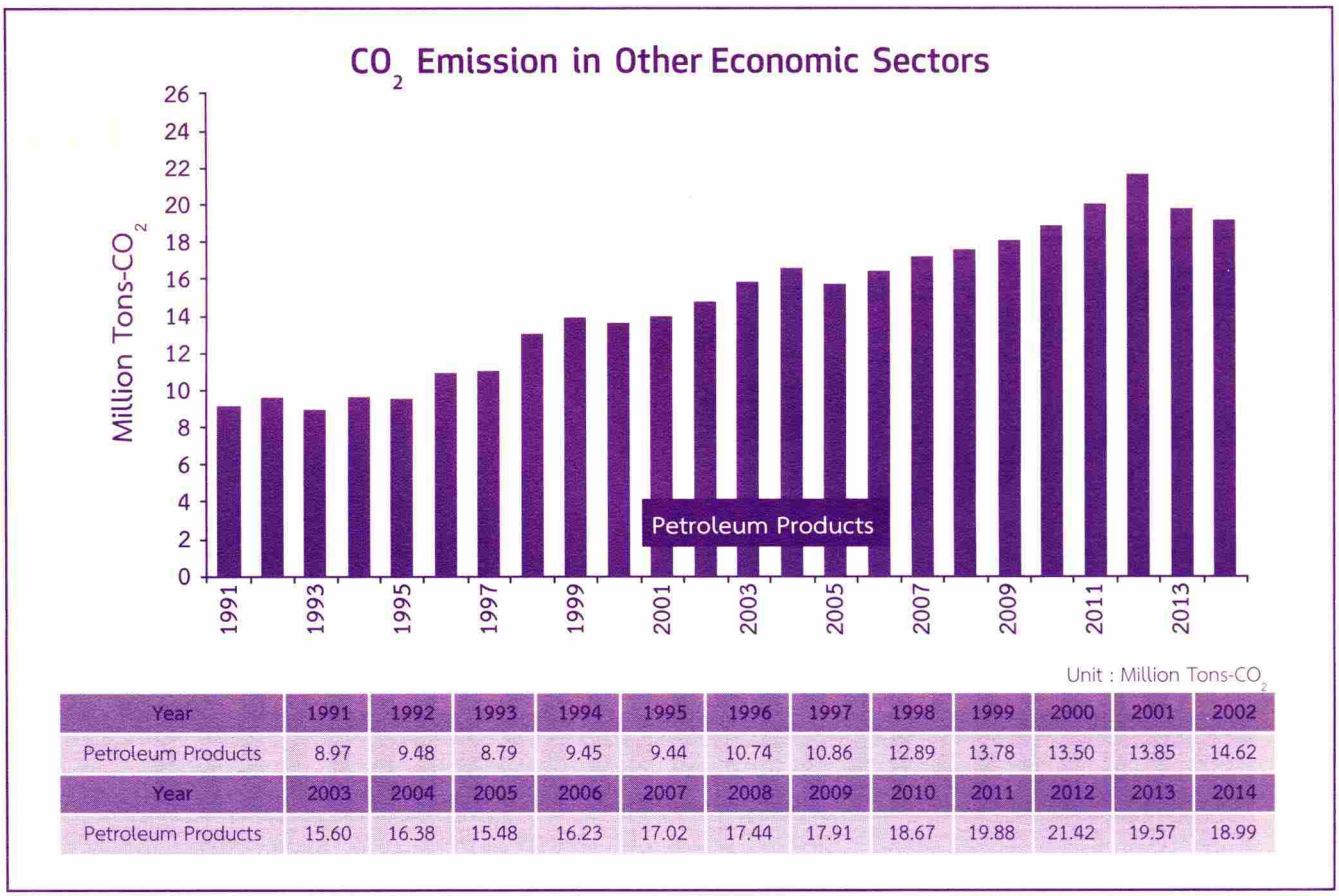
CO_2 Emission in the Transportation Sector



Unit : Million Tons-CO_2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Petroleum Products	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.77	46.92	45.58	46.55	49.25
NG	-	-	-	-	-	-	-	-	-	-	0.01	0.01
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Petroleum Products	53.02	56.50	57.41	54.63	55.07	50.90	53.36	53.77	54.37	55.18	55.94	56.33
NG	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90	5.92	6.52	6.73

- **Other Economic Sectors.** The trend still showed increasing CO_2 emissions stemming from petroleum product consumption, rising from 8.8 million tons in 1990 to 21.4 million tons in 2012, but declined some to 19.0 million tons in 2014.



Unit : Million Tons-CO_2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Petroleum Products	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.89	13.78	13.50	13.85	14.62
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Petroleum Products	15.60	16.38	15.48	16.23	17.02	17.44	17.91	18.67	19.88	21.42	19.57	18.99

CO_2 Emission Indicators

- **CO_2 Emission per Primary Energy Consumption.** This indicator reflects an increasing trend of emission during the period 1991-1997, i.e. from 1.83 thousand tons to 2.25 thousand tons per 1 KTOE of primary energy consumption, or at an average annual growth rate of 3.5%. Since 1998, the emission had continuously and distinctly declined. In 2014 the level of CO_2 emission was at 1.99 thousand tons per 1 KTOE of primary energy consumption, or a decrease at an average annual rate of 0.6%.

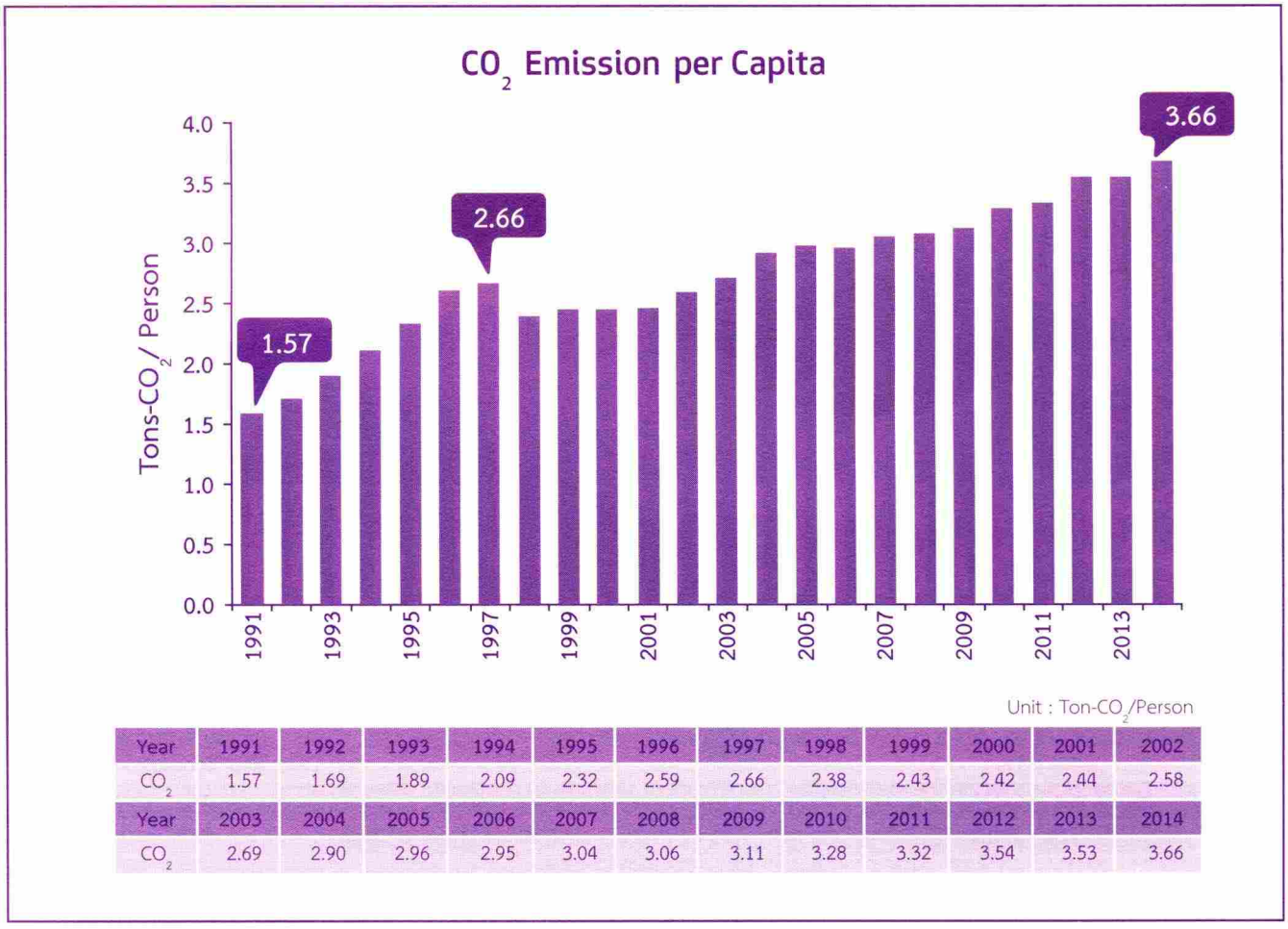
CO_2 Emission per Primary Energy Consumption



Unit : 1,000 Tons-CO_2/KTOE

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
CO_2	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.19	2.14	2.11	2.10
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
CO_2	2.09	2.11	2.08	2.05	2.04	2.03	2.02	1.99	1.97	2.01	1.95	1.99

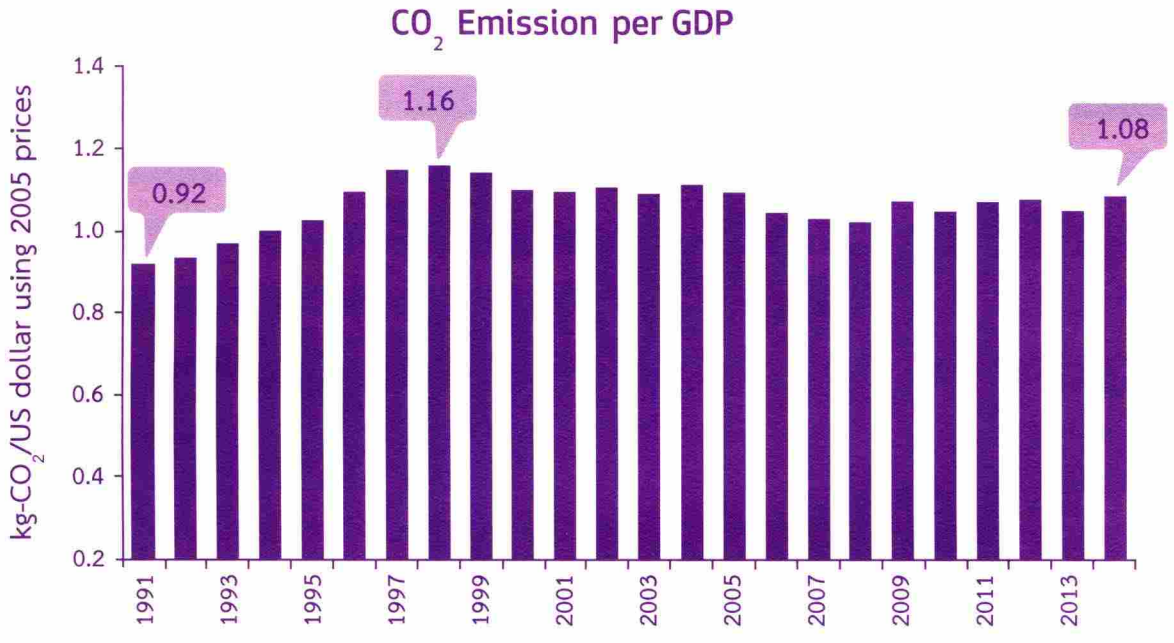
- **CO_2 Emission per Capita.** This indicator illustrates a rather high growth rate during 1991-1997, with an average annual growth rate of 9.2%, before decreasing slightly in 1998 due to the shrinkage in energy consumption caused by the economic crisis. In 1999, the rising trend resumed and continued in following years. In 2014, the CO_2 emission per capita stood at 3.66 tons, accounting for an average annual growth rate of 2.7%.



Unit : Ton-CO_2/Person

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
CO_2	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.38	2.43	2.42	2.44	2.58
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
CO_2	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.28	3.32	3.54	3.53	3.66

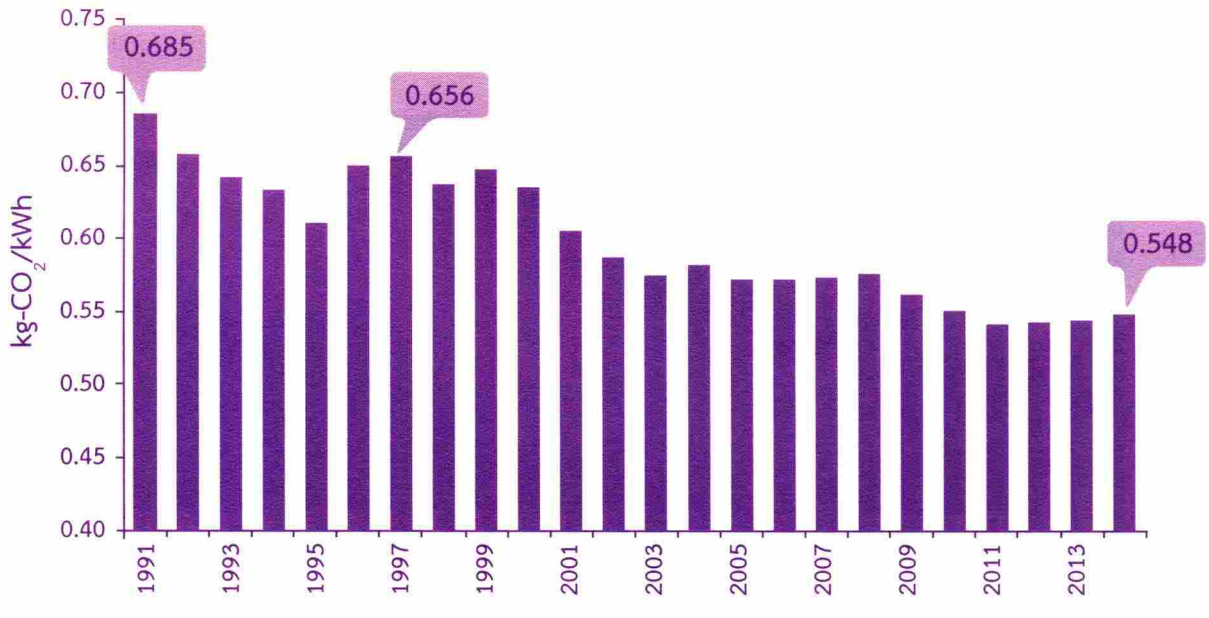
- **CO_2 Emission per GDP.** Between 1991 and 1997, CO_2 emission per GDP used to have a rising trend, from 0.92 kilogram to 1.15 kilograms per a US Dollar with an average growth rate of 3.8% per annum. In 1998, it reached the highest rate ever in the past 25 years at 1.16 kilograms per a US Dollar. After then, the rate declined around 0.4% per annum until 2014 at 1.08 kilograms per a US Dollar.



Unit : kg-CO_2/US dollar using 2005 prices

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
CO_2	0.92	0.93	0.97	1.00	1.02	1.09	1.15	1.16	1.14	1.10	1.09	1.11
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
CO_2	1.09	1.11	1.09	1.04	1.03	1.02	1.07	1.05	1.07	1.07	1.05	1.08

- **CO_2 Emission per Unit of Power Generation (kWh).** The emission varied periodically in accordance with the shares of fuel used in power generation, i.e. the emission decreased from 0.685 kg/kWh in 1991 to 0.609 kg/kWh in 1995 and gain back in some period of time during 1996 to 1999, maximum at 0.656 kg/kWh in 1997. After that the emission decreased due to greater use of natural gas as fuel in power generation. In 2014, CO_2 emission stood at 0.548 kg/kWh, or a decrease at an average annual rate of 1.0%.



Unit : kg-CO_2/kWh

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
CO_2	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.646	0.634	0.604	0.587
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
CO_2	0.573	0.581	0.571	0.571	0.572	0.575	0.561	0.550	0.540	0.543	0.544	0.548

Table 9.1-1Y
CO_2 Emission by Energy Type

Unit : 1,000 Tons

Year	Oil	Coal/Lignite	Natural Gas	Total
1990	53,221	16,594	9,987	79,802
1991	56,495	19,425	12,835	88,756
1992	62,417	20,790	13,754	96,962
1993	70,672	23,109	15,601	109,382
1994	78,419	26,664	17,793	122,876
1995	88,777	30,339	18,576	137,692
1996	96,916	36,777	21,860	155,553
1997	95,440	38,024	27,593	161,058
1998	85,415	30,637	29,400	145,452
1999	84,654	32,373	32,855	149,882
2000	79,347	33,100	38,385	150,832
2001	75,165	36,810	41,570	153,545
2002	78,938	39,244	45,377	163,558
2003	83,860	39,903	48,291	172,054
2004	91,753	44,763	50,902	187,418
2005	90,839	48,333	53,404	192,575
2006	87,308	51,313	54,613	193,234
2007	84,633	57,629	58,232	200,494
2008	78,484	62,154	62,624	203,262
2009	79,822	62,401	66,045	208,268
2010	80,779	63,856	75,833	220,467
2011	84,611	65,334	74,520	224,465
2012	90,828	67,623	82,132	240,584
2013	91,598	65,369	83,835	240,802
2014	91,918	73,662	85,556	251,137
Growth Rate (%)				
1990	21.2	38.7	-0.6	21.1
1991	6.2	17.1	28.5	11.2
1992	10.5	7.0	7.2	9.3
1993	13.2	11.2	13.4	12.8
1994	11.0	15.4	14.1	12.3
1995	13.2	13.8	4.4	12.1
1996	9.2	21.2	17.7	13.0
1997	-1.5	3.4	26.2	3.5
1998	-10.5	-19.4	6.6	-9.7
1999	-0.9	5.7	11.8	3.1
2000	-6.3	2.2	16.8	0.6
2001	-5.3	11.2	8.3	1.8
2002	5.0	6.6	9.2	6.5
2003	6.2	1.7	6.4	5.2
2004	9.4	12.2	5.4	8.9
2005	-1.0	8.0	4.9	2.8
2006	-3.9	6.2	2.3	0.3
2007	-3.1	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	1.7	0.4	5.5	2.5
2010	1.2	2.3	14.8	5.9
2011	4.7	2.3	-1.7	1.8
2012	7.4	3.5	10.2	7.2
2013	0.9	-3.3	2.1	0.1
2014	0.4	12.7	2.1	4.3

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-2Y
CO_2 Emission from Energy Consumption by Sector

Unit : 1,000 Tons

Year	Power Generation	Transport	Industry	Other	Total
1990	28,149	28,354	14,460	8,838	79,802
1991	34,750	28,978	16,062	8,966	88,756
1992	37,799	30,912	18,775	9,476	96,962
1993	40,967	36,534	23,092	8,789	109,382
1994	45,559	40,939	26,929	9,450	122,876
1995	49,014	48,211	31,031	9,436	137,692
1996	56,887	52,711	35,211	10,744	155,553
1997	61,242	55,235	33,718	10,863	161,058
1998	58,012	46,771	27,774	12,894	145,452
1999	59,695	46,917	29,487	13,783	149,882
2000	62,437	45,582	29,310	13,502	150,832
2001	62,759	46,557	30,384	13,846	153,545
2002	65,269	49,259	34,407	14,623	163,558
2003	67,895	53,030	35,528	15,600	172,054
2004	74,119	56,564	40,357	16,377	187,418
2005	76,915	57,549	42,629	15,482	192,575
2006	81,057	54,861	41,088	16,229	193,234
2007	84,099	55,575	43,802	17,019	200,494
2008	85,170	52,551	48,098	17,443	203,262
2009	83,237	56,398	50,721	17,912	208,268
2010	89,974	57,617	54,208	18,668	220,467
2011	87,733	59,271	57,579	19,882	224,465
2012	96,012	61,095	62,053	21,423	240,584
2013	96,427	62,460	62,344	19,570	240,802
2014	99,242	63,062	69,847	18,985	251,137
Growth Rate (%)					
1990	35.5	12.5	22.5	8.5	21.1
1991	23.5	2.2	11.1	1.4	11.2
1992	8.8	6.7	16.9	5.7	9.3
1993	8.4	18.2	23.0	-7.2	12.8
1994	11.2	12.1	16.6	7.5	12.3
1995	7.6	17.8	15.2	-0.1	12.1
1996	16.1	9.3	13.5	13.9	13.0
1997	7.7	4.8	-4.2	1.1	3.5
1998	-5.3	-15.3	-17.6	18.7	-9.7
1999	2.9	0.3	6.2	6.9	3.1
2000	4.6	-2.8	-0.6	-2.0	0.6
2001	0.5	2.1	3.7	2.5	1.8
2002	4.0	5.8	13.2	5.6	6.5
2003	4.0	7.7	3.3	6.7	5.2
2004	9.2	6.7	13.6	5.0	8.9
2005	3.8	1.7	5.6	-5.5	2.8
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.3	6.6	4.9	3.8
2008	1.3	-5.4	9.8	2.5	1.4
2009	-2.3	7.3	5.5	2.7	2.5
2010	8.1	2.2	6.9	4.2	5.9
2011	-2.5	2.9	6.2	6.5	1.8
2012	9.4	3.1	7.8	7.8	7.2
2013	0.4	2.2	0.5	-8.7	0.1
2014	2.9	1.0	12.0	-3.0	4.3

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-3Y
CO_2 Emission in Power Generation by Energy Type

Unit : 1,000 Tons

Year	Oil	Coal/Lignite	Natural Gas	Total
1990	8,097	10,437	9,615	28,149
1991	9,901	12,529	12,320	34,750
1992	11,630	13,129	13,039	37,799
1993	14,092	12,143	14,731	40,967
1994	16,061	12,847	16,651	45,559
1995	17,619	14,368	17,027	49,014
1996	19,185	17,506	20,196	56,887
1997	16,429	19,268	25,544	61,242
1998	14,035	16,529	27,448	58,012
1999	12,052	17,402	30,240	59,695
2000	7,590	20,321	34,526	62,437
2001	2,384	22,574	37,801	62,759
2002	2,144	21,977	41,147	65,269
2003	2,312	21,921	43,661	67,895
2004	5,597	23,037	45,486	74,119
2005	6,507	22,766	47,642	76,915
2006	6,359	26,723	47,975	81,057
2007	2,971	31,276	49,852	84,099
2008	1,222	32,310	51,639	85,170
2009	549	30,932	51,757	83,237
2010	842	31,143	57,989	89,974
2011	1,434	33,683	52,616	87,733
2012	1,681	37,419	56,912	96,012
2013	1,545	37,598	57,284	96,427
2014	1,492	39,526	58,224	99,242
Growth Rate (%)				
1990	114.3	46.0	-2.3	35.5
1991	22.3	20.1	28.1	23.5
1992	17.5	4.8	5.8	8.8
1993	21.2	-7.5	13.0	8.4
1994	14.0	5.8	13.0	11.2
1995	9.7	11.8	2.3	7.6
1996	8.9	21.8	18.6	16.1
1997	-14.4	10.1	26.5	7.7
1998	-14.6	-14.2	7.5	-5.3
1999	-14.1	5.3	10.2	2.9
2000	-37.0	16.8	14.2	4.6
2001	-68.6	11.1	9.5	0.5
2002	-10.1	-2.6	8.9	4.0
2003	7.9	-0.3	6.1	4.0
2004	142.0	5.1	4.2	9.2
2005	16.3	-1.2	4.7	3.8
2006	-2.3	17.4	0.7	5.4
2007	-53.3	17.0	3.9	3.8
2008	-58.9	3.3	3.6	1.3
2009	-55.1	-4.3	0.2	-2.3
2010	53.4	0.7	12.0	8.1
2011	70.4	8.2	-9.3	-2.5
2012	17.2	11.1	8.2	9.4
2013	-8.1	0.5	0.7	0.4
2014	-3.4	5.1	1.6	2.9

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-4Y
CO_2 Emission in Transport by Energy Type

Unit : 1,000 Tons

Year	Oil	Natural Gas	Total
1990	28,354		28,354
1991	28,978		28,978
1992	30,912		30,912
1993	36,534		36,534
1994	40,939		40,939
1995	48,211		48,211
1996	52,711		52,711
1997	55,235		55,235
1998	46,771		46,771
1999	46,917		46,917
2000	45,582		45,582
2001	46,551	6	46,557
2002	49,254	6	49,259
2003	53,024	7	53,030
2004	56,502	63	56,564
2005	57,412	137	57,549
2006	54,631	230	54,861
2007	55,075	500	55,575
2008	50,904	1,647	52,551
2009	53,365	3,033	56,398
2010	53,772	3,845	57,617
2011	54,370	4,901	59,271
2012	55,176	5,919	61,095
2013	55,936	6,524	62,460
2014	56,333	6,729	63,062
Growth Rate (%)			
1990	12.5		12.5
1991	2.2		2.2
1992	6.7		6.7
1993	18.2		18.2
1994	12.1		12.1
1995	17.8		17.8
1996	9.3		9.3
1997	4.8		4.8
1998	-15.3		-15.3
1999	0.3		0.3
2000	-2.8		-2.8
2001	2.1		2.1
2002	5.8	-0.6	5.8
2003	7.7	19.6	7.7
2004	6.6	849.3	6.7
2005	1.6	118.1	1.7
2006	-4.8	67.8	-4.7
2007	0.8	117.6	1.3
2008	-7.6	229.4	-5.4
2009	4.8	84.2	7.3
2010	0.8	26.8	2.2
2011	1.1	27.5	2.9
2012	1.5	20.8	3.1
2013	1.4	10.2	2.2
2014	0.7	3.1	1.0

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-5Y
CO_2 Emission in Industry by Energy Type

Unit : 1,000 Tons

Year	Oil	Coal/Lignite	Natural Gas	Total
1990	7,932	6,157	371	14,460
1991	8,651	6,896	516	16,062
1992	10,399	7,661	715	18,775
1993	11,256	10,966	870	23,092
1994	11,970	13,817	1,142	26,929
1995	13,512	15,970	1,549	31,031
1996	14,276	19,271	1,664	35,211
1997	12,913	18,756	2,049	33,718
1998	11,715	14,108	1,951	27,774
1999	11,902	14,971	2,614	29,487
2000	12,672	12,779	3,859	29,310
2001	12,385	14,236	3,763	30,384
2002	12,917	17,266	4,224	34,407
2003	12,923	17,982	4,623	35,528
2004	13,277	21,726	5,354	40,357
2005	11,438	25,567	5,624	42,629
2006	10,089	24,590	6,408	41,088
2007	9,568	26,353	7,881	43,802
2008	8,915	29,844	9,338	48,098
2009	7,996	31,469	11,256	50,721
2010	7,497	32,713	13,998	54,208
2011	8,924	31,652	17,003	57,579
2012	12,548	30,204	19,301	62,053
2013	14,547	27,771	20,026	62,344
2014	15,107	34,137	20,603	69,847
Growth Rate (%)				
1990	16.9	27.9	81.6	22.5
1991	9.1	12.0	38.9	11.1
1992	20.2	11.1	38.7	16.9
1993	8.2	43.1	21.7	23.0
1994	6.3	26.0	31.3	16.6
1995	12.9	15.6	35.6	15.2
1996	5.7	20.7	7.5	13.5
1997	-9.6	-2.7	23.1	-4.2
1998	-9.3	-24.8	-4.8	-17.6
1999	1.6	6.1	34.0	6.2
2000	6.5	-14.6	47.6	-0.6
2001	-2.3	11.4	-2.5	3.7
2002	4.3	21.3	12.2	13.2
2003	0.1	4.1	9.5	3.3
2004	2.7	20.8	15.8	13.6
2005	-13.9	17.7	5.1	5.6
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.8	13.3	18.5	9.8
2009	-10.3	5.4	20.5	5.5
2010	-6.2	4.0	24.4	6.9
2011	19.0	-3.2	21.5	6.2
2012	40.6	-4.6	13.5	7.8
2013	15.9	-8.1	3.8	0.5
2014	3.9	22.9	2.9	12.0

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-6Y
CO_2 Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

Year	Oil	Total
1990	8,838	8,838
1991	8,966	8,966
1992	9,476	9,476
1993	8,789	8,789
1994	9,450	9,450
1995	9,436	9,436
1996	10,744	10,744
1997	10,863	10,863
1998	12,894	12,894
1999	13,783	13,783
2000	13,502	13,502
2001	13,846	13,846
2002	14,623	14,623
2003	15,600	15,600
2004	16,377	16,377
2005	15,482	15,482
2006	16,229	16,229
2007	17,019	17,019
2008	17,443	17,443
2009	17,912	17,912
2010	18,668	18,668
2011	19,882	19,882
2012	21,423	21,423
2013	19,570	19,570
2014	18,985	18,985
Growth Rate (%)		
1990	8.5	8.5
1991	1.4	1.4
1992	5.7	5.7
1993	-7.2	-7.2
1994	7.5	7.5
1995	-0.1	-0.1
1996	13.9	13.9
1997	1.1	1.1
1998	18.7	18.7
1999	6.9	6.9
2000	-2.0	-2.0
2001	2.5	2.5
2002	5.6	5.6
2003	6.7	6.7
2004	5.0	5.0
2005	-5.5	-5.5
2006	4.8	4.8
2007	4.9	4.9
2008	2.5	2.5
2009	2.7	2.7
2010	4.2	4.2
2011	6.5	6.5
2012	7.8	7.8
2013	-8.7	-8.7
2014	-3.0	-3.0

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy
3. Other Economic Sectors Cover the Residential, Agricultural and Commercial Sector

Table 9.1-7Y
CO_2 Emission by Sector and Energy Type

Unit : 1,000 Tons

1990				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	8,097	10,437	9,615	28,149
Transport	28,354			28,354
Industry	7,932	6,157	371	14,460
Other	8,838			8,838
Total	**53,221**	**16,594**	**9,987**	**79,802**

1991				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	9,901	12,529	12,320	34,750
Transport	28,978			28,978
Industry	8,651	6,896	516	16,062
Other	8,966			8,966
Total	**56,495**	**19,425**	**12,835**	**88,756**

1992				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	11,630	13,129	13,039	37,799
Transport	30,912			30,912
Industry	10,399	7,661	715	18,775
Other	9,476			9,476
Total	**62,417**	**20,790**	**13,754**	**96,962**

1993				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,092	12,143	14,731	40,967
Transport	36,534			36,534
Industry	11,256	10,966	870	23,092
Other	8,789			8,789
Total	**70,672**	**23,109**	**15,601**	**109,382**

1994				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,061	12,847	16,651	45,559
Transport	40,939			40,939
Industry	11,970	13,817	1,142	26,929
Other	9,450			9,450
Total	**78,419**	**26,664**	**17,793**	**122,876**

1995				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	17,619	14,368	17,027	49,014
Transport	48,211			48,211
Industry	13,512	15,970	1,549	31,031
Other	9,436			9,436
Total	**88,777**	**30,339**	**18,576**	**137,692**

1996				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	19,185	17,506	20,196	56,887
Transport	52,711			52,711
Industry	14,276	19,271	1,664	35,211
Other	10,744			10,744
Total	**96,916**	**36,777**	**21,860**	**155,553**

Table 9.1-7Y (Cont.)
CO_2 Emission by Sector and Energy Type

Unit : 1,000 Tons

1997				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,429	19,268	25,544	61,242
Transport	55,235			55,235
Industry	12,913	18,756	2,049	33,718
Other	10,863			10,863
Total	**95,440**	**38,024**	**27,593**	**161,058**

1998				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,035	16,529	27,448	58,012
Transport	46,771			46,771
Industry	11,715	14,108	1,951	27,774
Other	12,894			12,894
Total	**85,415**	**30,637**	**29,400**	**145,452**

1999				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	12,052	17,402	30,240	59,695
Transport	46,917			46,917
Industry	11,902	14,971	2,614	29,487
Other	13,783			13,783
Total	**84,654**	**32,373**	**32,855**	**149,882**

2000				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	7,590	20,321	34,526	62,437
Transport	45,582			45,582
Industry	12,672	12,779	3,859	29,310
Other	13,502			13,502
Total	**79,347**	**33,100**	**38,385**	**150,832**

2001				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,384	22,574	37,801	62,759
Transport	46,551		6	46,557
Industry	12,385	14,236	3,763	30,384
Other	13,846			13,846
Total	**75,165**	**36,810**	**41,570**	**153,545**

2002				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,144	21,977	41,147	65,269
Transport	49,254		6	49,259
Industry	12,917	17,266	4,224	34,407
Other	14,623			14,623
Total	**78,938**	**39,244**	**45,377**	**163,558**

2003				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,312	21,921	43,661	67,895
Transport	53,024		7	53,030
Industry	12,923	17,982	4,623	35,528
Other	15,600			15,600
Total	**83,860**	**39,903**	**48,291**	**172,054**

Table 9.1-7Y (Cont.)
CO_2 Emission by Sector and Energy Type

Unit : 1,000 Tons

2004				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	5,597	23,037	45,486	74,119
Transport	56,502		63	56,564
Industry	13,277	21,726	5,354	40,357
Other	16,377			16,377
Total	**91,753**	**44,763**	**50,902**	**187,418**

2005				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,507	22,766	47,642	76,915
Transport	57,412		137	57,549
Industry	11,438	25,567	5,624	42,629
Other	15,482			15,482
Total	**90,839**	**48,333**	**53,404**	**192,575**

2006				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,359	26,723	47,975	81,057
Transport	54,631		230	54,861
Industry	10,089	24,590	6,408	41,088
Other	16,229			16,229
Total	**87,308**	**51,313**	**54,613**	**193,234**

2007				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,971	31,276	49,852	84,099
Transport	55,075		500	55,575
Industry	9,568	26,353	7,881	43,802
Other	17,019			17,019
Total	**84,633**	**57,629**	**58,232**	**200,494**

2008				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,222	32,310	51,639	85,170
Transport	50,904		1,647	52,551
Industry	8,915	29,844	9,338	48,098
Other	17,443			17,443
Total	**78,484**	**62,154**	**62,624**	**203,262**

2009				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	549	30,932	51,757	83,237
Transport	53,365		3,033	56,398
Industry	7,996	31,469	11,256	50,721
Other	17,912			17,912
Total	**79,822**	**62,401**	**66,045**	**208,268**

2010				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	842	31,143	57,989	89,974
Transport	53,772		3,845	57,617
Industry	7,497	32,713	13,998	54,208
Other	18,668			18,668
Total	**80,779**	**63,856**	**75,833**	**220,467**

Table 9.1-7Y (Cont.)
CO_2 Emission by Sector and Energy Type

Unit : 1,000 Tons

2011				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,434	33,683	52,616	87,733
Transport	54,370		4,901	59,271
Industry	8,924	31,652	17,003	57,579
Other	19,882			19,882
Total	**84,611**	**65,334**	**74,520**	**224,465**

2012				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,681	37,419	56,912	96,012
Transport	55,176		5,919	61,095
Industry	12,548	30,204	19,301	62,053
Other	21,423			21,423
Total	**90,828**	**67,623**	**82,132**	**240,584**

2013				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,545	37,598	57,284	96,427
Transport	55,936		6,524	62,460
Industry	14,547	27,771	20,026	62,344
Other	19,570			19,570
Total	**91,598**	**65,369**	**83,835**	**240,802**

2014				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,492	39,526	58,224	99,242
Transport	56,333		6,729	63,062
Industry	15,107	34,137	20,603	69,847
Other	18,985			18,985
Total	**91,918**	**73,662**	**85,556**	**251,137**

Notes : 1. CO_2 emission factors reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-1M
CO_2 Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	6,754	5,122	5,655	17,532
Feb	6,626	4,652	5,764	17,042
Mar	7,246	5,776	6,382	19,404
Apr	6,672	5,680	6,139	18,490
May	6,785	5,728	6,659	19,172
Jun	6,600	5,495	6,629	18,724
Jul	6,773	5,345	6,494	18,612
Aug	6,477	5,397	6,437	18,311
Sep	6,328	5,245	6,458	18,032
Oct	6,444	5,250	6,560	18,255
Nov	6,875	5,378	6,284	18,537
Dec	7,198	4,788	6,372	18,357
YTD	**80,779**	**63,856**	**75,833**	**220,467**
2011				
Jan	7,077	5,652	5,846	18,575
Feb	6,624	5,248	5,747	17,619
Mar	7,377	5,887	6,532	19,796
Apr	7,152	5,615	6,046	18,812
May	7,248	5,761	6,755	19,764
Jun	7,137	5,553	6,597	19,287
Jul	7,030	5,664	6,479	19,172
Aug	7,037	5,704	6,731	19,472
Sep	6,855	5,526	6,291	18,671
Oct	6,711	5,469	5,878	18,058
Nov	6,663	4,684	5,715	17,061
Dec	7,701	4,573	5,903	18,178
YTD	**84,611**	**65,334**	**74,520**	**224,465**
2012				
Jan	7,475	5,168	6,165	18,808
Feb	7,332	4,785	6,311	18,428
Mar	7,851	5,422	6,987	20,261
Apr	7,567	5,862	6,261	19,690
May	8,073	5,842	7,008	20,924
Jun	7,531	5,363	7,000	19,894
Jul	7,416	5,612	7,229	20,257
Aug	7,427	5,941	6,930	20,298
Sep	6,987	5,863	6,794	19,644
Oct	7,480	6,166	7,216	20,861
Nov	7,671	5,806	7,250	20,727
Dec	8,019	5,793	6,981	20,792
YTD	**90,828**	**67,623**	**82,132**	**240,584**

Table 9.1-1M (Cont.)
CO_2 Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2013				
Jan	7,952	5,334	6,694	19,981
Feb	7,315	4,807	6,591	18,713
Mar	8,181	5,304	7,634	21,120
Apr	7,832	5,583	6,648	20,064
May	8,071	5,818	7,499	21,388
Jun	7,366	5,275	7,147	19,788
Jul	7,592	5,768	7,159	20,519
Aug	7,466	5,805	7,000	20,270
Sep	6,915	5,533	6,828	19,276
Oct	7,394	5,416	7,079	19,889
Nov	7,582	5,346	7,046	19,974
Dec	7,932	5,380	6,509	19,821
YTD	**91,598**	**65,369**	**83,835**	**240,802**
2014				
Jan	8,001	5,607	6,273	19,881
Feb	7,277	5,355	6,398	19,030
Mar	8,040	5,826	7,405	21,271
Apr	7,770	6,325	6,917	21,013
May	8,044	6,828	7,663	22,535
Jun	7,384	6,339	7,206	20,929
Jul	7,541	6,563	7,259	21,364
Aug	7,415	6,047	7,364	20,826
Sep	7,225	6,282	7,262	20,769
Oct	7,475	6,224	7,565	21,264
Nov	7,501	5,936	7,289	20,726
Dec	8,245	6,330	6,954	21,529
YTD	**91,918**	**73,662**	**85,556**	**251,137**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-2M
CO_2 Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2010					
Jan	7,191	4,789	3,995	1,558	17,532
Feb	6,912	4,711	3,910	1,509	17,042
Mar	7,797	5,105	4,854	1,648	19,404
Apr	7,639	4,745	4,580	1,526	18,490
May	8,130	4,827	4,655	1,560	19,172
Jun	7,740	4,727	4,733	1,524	18,724
Jul	7,522	4,792	4,733	1,564	18,612
Aug	7,658	4,612	4,531	1,509	18,311
Sep	7,373	4,538	4,645	1,477	18,032
Oct	7,698	4,632	4,413	1,511	18,255
Nov	7,262	4,945	4,730	1,599	18,537
Dec	7,052	5,195	4,429	1,682	18,357
YTD	**89,974**	**57,617**	**54,208**	**18,668**	**220,467**
2011					
Jan	7,295	4,995	4,630	1,654	18,575
Feb	6,856	4,668	4,573	1,522	17,619
Mar	7,756	5,212	5,109	1,719	19,796
Apr	7,302	5,037	4,807	1,667	18,812
May	8,019	5,149	4,900	1,695	19,764
Jun	7,623	5,011	5,006	1,647	19,287
Jul	7,786	4,822	4,938	1,626	19,172
Aug	7,689	4,904	5,207	1,671	19,472
Sep	7,238	4,753	5,059	1,621	18,671
Oct	7,065	4,646	4,738	1,608	18,058
Nov	6,668	4,665	4,122	1,606	17,061
Dec	6,435	5,408	4,490	1,845	18,178
YTD	**87,733**	**59,271**	**57,579**	**19,882**	**224,465**
2012					
Jan	7,332	5,053	4,693	1,730	18,808
Feb	7,064	4,984	4,686	1,693	18,428
Mar	8,140	5,338	4,934	1,849	20,261
Apr	7,893	5,002	5,032	1,764	19,690
May	8,398	5,253	5,423	1,850	20,924
Jun	8,064	5,041	5,022	1,767	19,894
Jul	8,020	4,960	5,518	1,759	20,257
Aug	8,088	5,002	5,417	1,792	20,298
Sep	8,035	4,726	5,189	1,693	19,644
Oct	8,526	5,043	5,493	1,800	20,861
Nov	8,310	5,224	5,374	1,820	20,727
Dec	8,143	5,470	5,271	1,908	20,792
YTD	**96,012**	**61,095**	**62,053**	**21,423**	**240,584**

Table 9.1-2M (Cont.)
CO_2 Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2013					
Jan	8,023	5,403	4,715	1,839	19,981
Feb	7,592	4,959	4,570	1,593	18,713
Mar	8,784	5,583	5,042	1,711	21,120
Apr	8,120	5,234	5,095	1,614	20,064
May	8,840	5,572	5,268	1,708	21,388
Jun	7,964	5,077	5,196	1,551	19,788
Jul	8,208	5,178	5,526	1,607	20,519
Aug	8,166	5,082	5,428	1,594	20,270
Sep	7,848	4,723	5,229	1,476	19,276
Oct	7,744	5,063	5,499	1,582	19,889
Nov	7,841	5,197	5,325	1,611	19,974
Dec	7,297	5,390	5,450	1,684	19,821
YTD	**96,427**	**62,460**	**62,344**	**19,570**	**240,802**
2014					
Jan	7,452	5,353	5,360	1,716	19,881
Feb	7,276	4,977	5,225	1,552	19,030
Mar	8,688	5,510	5,405	1,668	21,271
Apr	8,390	5,299	5,736	1,588	21,013
May	9,181	5,524	6,179	1,651	22,535
Jun	8,622	5,068	5,740	1,500	20,929
Jul	8,551	5,198	6,073	1,542	21,364
Aug	8,326	5,128	5,855	1,517	20,826
Sep	8,142	4,980	6,162	1,485	20,769
Oct	8,330	5,143	6,254	1,537	21,264
Nov	8,274	5,193	5,718	1,541	20,726
Dec	8,010	5,690	6,143	1,687	21,529
YTD	**99,242**	**63,062**	**69,847**	**18,985**	**251,137**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-3M
CO_2 Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	69	2,796	4,326	7,191
Feb	71	2,407	4,433	6,912
Mar	92	2,857	4,848	7,797
Apr	70	2,792	4,777	7,639
May	72	2,840	5,218	8,130
Jun	66	2,527	5,146	7,740
Jul	80	2,447	4,995	7,522
Aug	69	2,692	4,897	7,658
Sep	64	2,398	4,911	7,373
Oct	63	2,624	5,012	7,698
Nov	65	2,486	4,711	7,262
Dec	62	2,275	4,714	7,052
YTD	**842**	**31,143**	**57,989**	**89,974**
2011				
Jan	109	2,965	4,221	7,295
Feb	123	2,553	4,181	6,856
Mar	121	2,976	4,659	7,756
Apr	110	2,879	4,312	7,302
May	104	3,046	4,869	8,019
Jun	132	2,809	4,682	7,623
Jul	163	3,085	4,538	7,786
Aug	123	2,813	4,753	7,689
Sep	131	2,778	4,329	7,238
Oct	123	2,913	4,029	7,065
Nov	88	2,537	4,043	6,668
Dec	105	2,329	4,000	6,435
YTD	**1,434**	**33,683**	**52,616**	**87,733**
2012				
Jan	133	3,053	4,147	7,332
Feb	121	2,622	4,321	7,064
Mar	123	3,120	4,897	8,140
Apr	165	3,476	4,251	7,893
May	226	3,314	4,858	8,398
Jun	152	2,993	4,919	8,064
Jul	145	2,780	5,095	8,020
Aug	130	3,206	4,752	8,088
Sep	118	3,260	4,658	8,035
Oct	133	3,370	5,023	8,526
Nov	122	3,088	5,100	8,310
Dec	112	3,138	4,892	8,143
YTD	**1,681**	**37,419**	**56,912**	**96,012**

Table 9.1-3M (Cont.)
CO_2 Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2013				
Jan	127	3,377	4,520	8,023
Feb	131	2,900	4,561	7,592
Mar	141	3,252	5,391	8,784
Apr	170	3,393	4,558	8,120
May	112	3,460	5,267	8,840
Jun	113	2,835	5,015	7,964
Jul	129	3,246	4,832	8,208
Aug	134	3,337	4,695	8,166
Sep	119	3,153	4,577	7,848
Oct	118	2,854	4,772	7,744
Nov	119	2,890	4,832	7,841
Dec	132	2,901	4,264	7,297
YTD	**1,545**	**37,598**	**57,284**	**96,427**
2014				
Jan	159	3,270	4,023	7,452
Feb	118	2,896	4,262	7,276
Mar	134	3,415	5,139	8,688
Apr	126	3,502	4,762	8,390
May	126	3,672	5,382	9,181
Jun	126	3,524	4,972	8,622
Jul	119	3,529	4,903	8,551
Aug	112	3,238	4,976	8,326
Sep	114	3,137	4,890	8,142
Oct	123	3,024	5,183	8,330
Nov	111	3,143	5,020	8,274
Dec	124	3,176	4,710	8,010
YTD	**1,492**	**39,526**	**58,224**	**99,242**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-4M
CO_2 Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Natural Gas	Total
2010			
Jan	4,510	278	4,789
Feb	4,431	279	4,711
Mar	4,788	317	5,105
Apr	4,457	288	4,745
May	4,525	302	4,827
Jun	4,412	316	4,727
Jul	4,468	324	4,792
Aug	4,287	326	4,612
Sep	4,206	332	4,538
Oct	4,284	348	4,632
Nov	4,588	357	4,945
Dec	4,816	379	5,195
YTD	**53,772**	**3,845**	**57,617**
2011			
Jan	4,621	374	4,995
Feb	4,293	375	4,668
Mar	4,795	417	5,212
Apr	4,661	376	5,037
May	4,720	429	5,149
Jun	4,582	430	5,011
Jul	4,385	437	4,822
Aug	4,458	447	4,904
Sep	4,319	434	4,753
Oct	4,246	400	4,646
Nov	4,321	344	4,665
Dec	4,969	439	5,408
YTD	**54,370**	**4,901**	**59,271**
2012			
Jan	4,571	482	5,053
Feb	4,518	466	4,984
Mar	4,834	503	5,338
Apr	4,548	454	5,002
May	4,750	502	5,253
Jun	4,552	489	5,041
Jul	4,470	490	4,960
Aug	4,492	510	5,002
Sep	4,230	496	4,726
Oct	4,529	514	5,043
Nov	4,714	510	5,224
Dec	4,968	503	5,470
YTD	**55,176**	**5,919**	**61,095**

Table 9.1-4M (Cont.)
CO_2 Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Natural Gas	Total
2013			
Jan	4,880	523	5,403
Feb	4,454	505	4,959
Mar	5,024	559	5,583
Apr	4,726	508	5,234
May	5,004	567	5,572
Jun	4,536	541	5,077
Jul	4,624	554	5,178
Aug	4,509	573	5,082
Sep	4,180	542	4,723
Oct	4,506	557	5,063
Nov	4,649	548	5,197
Dec	4,843	547	5,390
YTD	**55,936**	**6,524**	**62,460**
2014			
Jan	4,804	548	5,353
Feb	4,446	531	4,977
Mar	4,920	590	5,510
Apr	4,771	528	5,299
May	4,949	575	5,524
Jun	4,515	554	5,068
Jul	4,622	576	5,198
Aug	4,552	575	5,128
Sep	4,421	559	4,980
Oct	4,571	571	5,143
Nov	4,637	556	5,193
Dec	5,125	565	5,690
YTD	**56,333**	**6,729**	**63,062**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-5M
CO_2 Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	618	2,326	1,051	3,995
Feb	615	2,245	1,051	3,910
Mar	719	2,919	1,217	4,854
Apr	618	2,888	1,074	4,580
May	628	2,888	1,139	4,655
Jun	598	2,968	1,167	4,733
Jul	661	2,897	1,175	4,733
Aug	612	2,705	1,214	4,531
Sep	582	2,847	1,216	4,645
Oct	587	2,627	1,200	4,413
Nov	623	2,892	1,215	4,730
Dec	638	2,512	1,278	4,429
YTD	**7,497**	**32,713**	**13,998**	**54,208**
2011				
Jan	693	2,687	1,251	4,630
Feb	687	2,695	1,192	4,573
Mar	741	2,911	1,456	5,109
Apr	713	2,736	1,357	4,807
May	729	2,715	1,457	4,900
Jun	776	2,744	1,486	5,006
Jul	855	2,579	1,504	4,938
Aug	785	2,891	1,532	5,207
Sep	783	2,748	1,528	5,059
Oct	733	2,556	1,449	4,738
Nov	648	2,147	1,327	4,122
Dec	782	2,244	1,464	4,490
YTD	**8,924**	**31,652**	**17,003**	**57,579**
2012				
Jan	1,042	2,115	1,536	4,693
Feb	999	2,163	1,524	4,686
Mar	1,044	2,303	1,587	4,934
Apr	1,090	2,385	1,557	5,032
May	1,247	2,528	1,648	5,423
Jun	1,060	2,371	1,592	5,022
Jul	1,042	2,832	1,644	5,518
Aug	1,013	2,735	1,668	5,417
Sep	946	2,604	1,640	5,189
Oct	1,018	2,796	1,679	5,493
Nov	1,015	2,718	1,641	5,374
Dec	1,031	2,654	1,586	5,271
YTD	**12,548**	**30,204**	**19,301**	**62,053**

Table 9.1-5M (Cont.)
CO_2 Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2013				
Jan	1,106	1,957	1,651	4,715
Feb	1,138	1,907	1,525	4,570
Mar	1,305	2,052	1,685	5,042
Apr	1,322	2,191	1,582	5,095
May	1,246	2,358	1,665	5,268
Jun	1,166	2,439	1,591	5,196
Jul	1,232	2,522	1,773	5,526
Aug	1,229	2,468	1,732	5,428
Sep	1,140	2,380	1,710	5,229
Oct	1,188	2,562	1,749	5,499
Nov	1,203	2,456	1,666	5,325
Dec	1,273	2,479	1,698	5,450
YTD	**14,547**	**27,771**	**20,026**	**62,344**
2014				
Jan	1,321	2,337	1,702	5,360
Feb	1,161	2,459	1,605	5,225
Mar	1,318	2,412	1,675	5,405
Apr	1,285	2,823	1,627	5,736
May	1,317	3,156	1,706	6,179
Jun	1,244	2,815	1,680	5,740
Jul	1,257	3,035	1,781	6,073
Aug	1,234	2,809	1,813	5,855
Sep	1,205	3,145	1,812	6,162
Oct	1,244	3,200	1,810	6,254
Nov	1,212	2,793	1,713	5,718
Dec	1,310	3,153	1,679	6,143
YTD	**15,107**	**34,137**	**20,603**	**69,847**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-6M

CO_2 Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Total
2010		
Jan	1,558	1,558
Feb	1,509	1,509
Mar	1,648	1,648
Apr	1,526	1,526
May	1,560	1,560
Jun	1,524	1,524
Jul	1,564	1,564
Aug	1,509	1,509
Sep	1,477	1,477
Oct	1,511	1,511
Nov	1,599	1,599
Dec	1,682	1,682
YTD	**18,668**	**18,668**
2011		
Jan	1,654	1,654
Feb	1,522	1,522
Mar	1,719	1,719
Apr	1,667	1,667
May	1,695	1,695
Jun	1,647	1,647
Jul	1,626	1,626
Aug	1,671	1,671
Sep	1,621	1,621
Oct	1,608	1,608
Nov	1,606	1,606
Dec	1,845	1,845
YTD	**19,882**	**19,882**
2012		
Jan	1,730	1,730
Feb	1,693	1,693
Mar	1,849	1,849
Apr	1,764	1,764
May	1,850	1,850
Jun	1,767	1,767
Jul	1,759	1,759
Aug	1,792	1,792
Sep	1,693	1,693
Oct	1,800	1,800
Nov	1,820	1,820
Dec	1,908	1,908
YTD	**21,423**	**21,423**

Table 9.1-6M (Cont.)
CO_2 Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Total
2013		
Jan	1,839	1,839
Feb	1,593	1,593
Mar	1,711	1,711
Apr	1,614	1,614
May	1,708	1,708
Jun	1,551	1,551
Jul	1,607	1,607
Aug	1,594	1,594
Sep	1,476	1,476
Oct	1,582	1,582
Nov	1,611	1,611
Dec	1,684	1,684
YTD	**19,570**	**19,570**
2014		
Jan	1,716	1,716
Feb	1,552	1,552
Mar	1,668	1,668
Apr	1,588	1,588
May	1,651	1,651
Jun	1,500	1,500
Jul	1,542	1,542
Aug	1,517	1,517
Sep	1,485	1,485
Oct	1,537	1,537
Nov	1,541	1,541
Dec	1,687	1,687
YTD	**18,985**	**18,985**

Notes : 1. CO_2 Emission Factors Reference from IPCC 2006
2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy
3. Other Economic Sectors cover the residential, agricultural and commercial sector

Appendix








AIR POLLUTION
PETROLEUM
ELECTRICITY
COAL/LIGNITE
NATURAL GAS
OIL





ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/หน่วย kcal/UNIT	ตันเทียบเท่าน้ำมันดิบ/ล้านหน่วย toe/10^6 UNIT	เมกะจูล/หน่วย MJ/UNIT	พันบีทียู/หน่วย 10^3Btu/UNIT	TYPE (UNIT)
พลังงานเชิงพาณิชย์					**COMMERCIAL ENERGY**
1. น้ำมันดิบ (ลิตร)	8680	860.00	36.33	34.44	1. CRUDE OIL (litre)
2. คอนเดนเสท (ลิตร)	7900	782.72	33.07	31.35	2. CONDENSATE (litre)
3. ก๊าซธรรมชาติ					3. NATURAL GAS
3.1 ชื้น (ลูกบาศก์ฟุต)	248	24.57	1.04	0.98	3.1 WET (scf.)
3.2 แห้ง (ลูกบาศก์ฟุต)	244	24.18	1.02	0.97	3.2 DRY (scf.)
4. ผลิตภัณฑ์ปิโตรเลียม					4. PETROLEUM PRODUCTS
4.1 ก๊าซปิโตรเลียมเหลว (ลิตร)	6360	630.14	26.62	25.24	4.1 LPG (litre)
4.2 น้ำมันเบนซิน (ลิตร)	7520	745.07	31.48	29.84	4.2 GASOLINE (litre)
4.3 น้ำมันเครื่องบิน (ลิตร)	8250	817.40	34.53	32.74	4.3 JET FUEL (litre)
4.4 น้ำมันก๊าด (ลิตร)	8250	817.40	34.53	32.74	4.4 KEROSENE (litre)
4.5 น้ำมันดีเซล (ลิตร)	8700	861.98	36.42	34.52	4.5 DIESEL (litre)
4.6 น้ำมันเตา (ลิตร)	9500	941.24	39.77	37.70	4.6 FUEL OIL (litre)
4.7 ยางมะตอย (ลิตร)	9840	974.93	41.19	39.05	4.7 BITUMEN (litre)
4.8 ปิโตรเลียมโค้ก (กก.)	8400	832.26	35.16	33.33	4.8 PETROLEUM COKE (kg.)
5. ไฟฟ้า (กิโลวัตต์ชั่วโมง)	860	85.21	3.60	3.41	5. ELECTRICITY (kWh)
6. ไฟฟ้าพลังน้ำ (กิโลวัตต์ชั่วโมง)	2236	221.54	9.36	8.87	6. HYDROELECTRIC (kWh)
7. พลังงานความร้อนใต้พิภพ (กิโลวัตต์ชั่วโมง)	9500	941.24	39.77	37.70	7. GEOTHERMAL (kWh)
8. ถ่านหินนำเข้า (กก.)	6300	624.19	26.37	25.00	8. COAL IMPORT (kg.)
9. ถ่านโค้ก (กก.)	6600	653.92	27.63	26.19	9. COKE (kg.)
10. แอนทราไซต์ (กก.)	7500	743.09	31.40	29.76	10. ANTHRACITE (kg.)
11. อีเทน (กก.)	11203	1110.05	46.89	44.45	11. ETHANE (kg.)
12. โปรเพน (กก.)	11256	1115.34	47.11	44.67	12. PROPANE (kg.)
13. ลิกไนต์					13. LIGNITE
13.1 ลี้ (กก.)	4400	435.94	18.42	17.46	13.1 LI (kg.)
13.2 กระบี่ (กก.)	2600	257.60	10.88	10.32	13.2 KRABI (kg.)
13.3 แม่เมาะ (กก.)	2500	247.70	10.47	9.92	13.3 MAE MOH (kg.)
13.4 แจ้คอน (กก.)	3610	357.67	15.11	14.32	13.4 CHAE KHON (kg.)

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/หน่วย kcal/UNIT	ตันเทียบเท่าน้ำมันดิบ/ล้านหน่วย toe/10^6 UNIT	เมกะจูล/หน่วย MJ/UNIT	พันบีทียู/หน่วย 10^3Btu/UNIT	TYPE (UNIT)
พลังงานใหม่และหมุนเวียน					NEW & RENEWABLE ENERGY
1. ฟืน (กก.)	3820	378.48	15.99	15.16	1. FUEL WOOD (kg.)
2. ถ่าน (กก.)	6900	683.64	28.88	27.38	2. CHARCOAL (kg.)
3. แกลบ (กก.)	3440	340.83	14.40	13.65	3. PADDY HUSK (kg.)
4. กากอ้อย (กก.)	1800	178.34	7.53	7.14	4. BAGASSE (kg.)
5. ขยะ (กก.)	1160	114.93	4.86	4.60	5. GARBAGE (kg.)
6. ขี้เลื่อย (กก.)	2600	257.60	10.88	10.32	6. SAW DUST (kg.)
7. วัสดุเหลือใช้ทางการเกษตร (กก.)	3030	300.21	12.68	12.02	7. AGRICULTURAL WASTE (kg.)
8. ก๊าซชีวภาพ (ลูกบาศก์เมตร)	5000	495.39	20.93	19.84	8. BIOGAS (m^3)

หน่วยทั่วไป GENERAL		
1 กิโลแคลอรี (kcal)	= 4186 = 3.968	จูล (joules) บีทียู (Btu)
1 ตันเทียบเท่าน้ำมันดิบ (toe)	= 10.093 = 42.244 = 40.047 x 10^6	จิกะแคลอรี (Gcal) จิกะจูล (GJ) บีทียู (Btu)
1 บาร์เรล (barrel)	= 158.99	ลิตร (litres)
1 ลูกบาศก์เมตรของไม้ (cu.m. of solid wood)	= 600	กิโลกรัม (kg.)
1 ลูกบาศก์เมตรของถ่าน (kg. of charcoal)	= 250	กิโลกรัม (kg.)
5 กิโลกรัมของฟืน (kg. of fuel wood)	= 1	กิโลกรัมของถ่าน (kg. of charcoal product)
1 ลิตรของก๊าซปิโตรเลียมเหลว (litre of LPG)	= 0.54	กิโลกรัม (kg.)

ที่มา : รายงานพลังงานของประเทศไทยรายปี กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน

Abbreviations of _____

Abbreviation	Full Name	ชื่อไทย
%S	Percentage of Sulphur Contain	ร้อยละของกำมะถัน
AVG	Average	เฉลี่ย
BBL/D	Barrels per Day	บาร์เรลต่อวัน
BCP	Bangchak Petroleum Public Company Limited	บริษัทบางจากปิโตรเลียม จำกัด (มหาชน)
CNG	Compressed Natural Gas	ก๊าซธรรมชาติที่ใช้เป็นเชื้อเพลิงสำหรับยานยนต์
DEDP	Small Hydro From Kere Tan	โรงไฟฟ้าพลังน้ำคีรีธาร
DEDE	Department of Alternative Energy Development and Efficiency	กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน
DMF	Department of Mineral Fuels	กรมเชื้อเพลิงธรรมชาติ
DOEB	Department of Energy Business	กรมธุรกิจพลังงาน
EGAT	Electricity Generating Authority of Thailand	การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
ELEC.	Electricity	ไฟฟ้า
EPPO	Energy Policy and Planning Office	สำนักงานนโยบายและแผนพลังงาน
ESSO	Esso (Thailand) Public Company Limited	บริษัทเอสโซ่ (ประเทศไทย) จำกัด (มหาชน)
FO	Fuel Oil	น้ำมันเตา
GSP	Gas Separation Plant	โรงแยกก๊าซ
GWh	Gigawatt-hours	ล้านกิโลวัตต์ชั่วโมง
HSD	High Speed Diesel	ดีเซลหมุนเร็ว
IPP	Independent Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายใหญ่
IRPC	Integrated Refinery & Petrochemical Complex Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
J.P.	Jet Fuel	น้ำมันเครื่องบิน
JDA	Joint Development Area	พื้นที่พัฒนาร่วมระหว่างไทยกับมาเลเซีย
KBD	1,000 Barrels/Day	พันบาร์เรลต่อวัน
KTOE	1,000 Tons of Crude Oil Equivalent	พันตันเทียบเท่าน้ำมันดิบ
kWh	Kilowatt-hours	กิโลวัตต์ชั่วโมง
LPG	Liquefied Petroleum Gas	ก๊าซปิโตรเลียมเหลว
LPG (Car)	Liquefied Petroleum Gas for Automobiles	ก๊าซปิโตรเลียมเหลวที่ใช้ในรถยนต์
LSD	Low Speed Diesel	ดีเซลหมุนช้า
M.Litres	Million litres	ล้านลิตร
MEA	Metropolitan Electricity Authority	การไฟฟ้านครหลวง
MMscf	Million Standard Cubic Feet	ล้านลูกบาศก์ฟุต
MMscfd	Million Standard Cubic Feet per Day	ล้านลูกบาศก์ฟุตต่อวัน
MW	Mega Watt	เมกะวัตต์
NAP	Naptha	แนฟทา
Nap.& Oths	Naphtha and Others	แนฟทาและอื่นๆ
NG	Natural Gas	ก๊าซธรรมชาติ
NGL	Natural Gas Liquid	ก๊าซโซลีนธรรมชาติ
NGV	Natural Gas for Vehicles	ก๊าซธรรมชาติสำหรับยานยนต์
PEA	Provincial Electricity Authority	การไฟฟ้าส่วนภูมิภาค
Pet.	Petroleum	น้ำมันสำเร็จรูป
PTTAR	PTT Aromatics and Refining Public Company Limited	บริษัท ปตท. อะโรเมติกส์และการกลั่น จำกัด (มหาชน)
PTTGC	PTT Global Chemical Public Company Limited	บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)
REGCO	Rayong Electricity Generating Company Limited	บริษัท ผลิตไฟฟ้าระยอง จำกัด
RPC	Rayong Purifier Public Company Limited	บริษัทระยองเพียวริฟายเออร์ จำกัด (มหาชน)
SPP	Small Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายเล็ก
SPRC	Star Petroleum Refining Company Limited	บริษัทสตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด
TOC	Thai Oil Public Company Limited	บริษัทไทยออยล์ จำกัด (มหาชน)
IRPC	IRPC Public Company Limited	บริษัทไออาร์พีซี จำกัด (มหาชน)
UGR91	Regular Gasoline 91	เบนซินธรรมดา 91
ULG95	Premium Gasoline 95	เบนซินพิเศษ 95
VAT	Value Added Tax	ภาษีมูลค่าเพิ่ม
WT.AVG	Weighted Average	ค่าเฉลี่ยถ่วงน้ำหนัก
YTD	Year to Date	ข้อมูลตั้งแต่วันที่ 1 มกราคมปีนั้นๆ ถึงวันที่ออกรายงาน

รายชื่อผู้จัดทำรายงานสถิติพลังงานปี 2558
Energy Statistics of Thailand 2015
Prepared by Energy Policy and Planning Office (EPPO), Ministry of Energy

ที่ปรึกษา

นายทวารัฐ สูตะบุตร	ผู้อำนวยการสำนักงานนโยบายและแผนพลังงาน
นายประเสริฐ สินสุขประเสริฐ	รองผู้อำนวยการสำนักงานนโยบายและแผนพลังงาน

คณะผู้จัดทำ

นางสาวจิระภาพร ไหลมา	ประธานคณะทำงาน
นางสุพิตร พัดเปรม	คณะทำงาน
นางสาวสุกัลยา ตรีวิทยานุรักษ์	คณะทำงาน
นางสาวกรกช ภู่ไพบูลย์	คณะทำงาน
นางเพทาย ภักดีโชติ	คณะทำงาน
นางสาวธัญญารัตน์ ปัทมพงศา	คณะทำงาน
นางสาววชิรา จิตต์ปราณี	คณะทำงาน
นางสาววชิราภรณ์ จตุรวิธวงศ์	คณะทำงาน
นางสาวณัฐพัชร บุตรเต	คณะทำงาน
นายธเนศร์ ศรีมงคล	คณะทำงาน
นางสาวตันติมา จงเฮงสกุล	คณะทำงาน
นางสาวมาลัย ผึ้งหลวง	คณะทำงาน
นางสาวศรินธร หอมสุวรรณ	คณะทำงาน
นางสาวบุบผา คุณาไท	คณะทำงานและเลขานุการ
นายวิเชียร ตันติวิศาล	ผู้แปล

Honorary Advisors:

Mr. Twarath Sutabutr	Director General of EPPO
Mr. Prasert Sinsukprasert	Deputy Director General of EPPO

Editorial Team:

Ms. Chirapaporn Laima	Editor in Chief
Mrs. Supit Padprem	Editorial Staff
Ms. Sukanlaya Treewitthayanurak	Editorial Staff
Ms. Korakot Phupaiboon	Editorial Staff
Mrs. Peytai Pakdeechote	Editorial Staff
Ms. Thanyarat Pattamapongsa	Editorial Staff
Ms. Wachira Jitpranee	Editorial Staff
Ms. Wachiraporn Chaturawittawong	Editorial Staff
Ms. Natthapach Boottae	Editorial Staff
Mr. Taned Srimongkol	Editorial Staff
Ms. Tantima Jongheagsakul	Editorial Staff
Ms. Malai Phungluang	Editorial Staff
Ms. Sarintorn Homsuwan	Editorial Staff
Ms. Bubpha Kunathai	Editorial Staff and Secretary
Mr. Vichien Tantiwisarn	English Translation

จัดพิมพ์โดย

สำนักงานนโยบายและแผนพลังงาน กระทรวงพลังงาน
เลขที่ 121/1-2 ถนนเพชรบุรี แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ 10400
โทรศัพท์ 0 2612 1555
โทรสาร 0 2612 1364

พิมพ์ที่

บริษัทอมรินทร์พริ้นติ้งแอนด์พับลิชชิ่ง จำกัด (มหาชน)
376 ถนนชัยพฤกษ์ (บรมราชชนนี) เขตตลิ่งชัน กรุงเทพฯ 10170
โทรศัพท์ 0 2422 9000, 0 2882 1010
โทรสาร 0 2433 2742, 0 2434 1385

Published by

Energy Policy and Planning Office, Ministry of Energy
121/1-2 Phetchaburi Road, Ratchathewi,
Bangkok 10400, Thailand
Tel. +66 2612 1555
Fax. +66 2612 1364
www.eppo.go.th

Printed by

Amarin Printing and Publishing Public Co., Ltd.
376 Chaiyaphruk Road, Taling Chan, Bangkok 10170
Tel. +66 2422 9000, +66 2822 1010
Fax. +66 2433 2742, +66 2434 1385
www.amarin.com

สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

เลขที่ 121/1-2 ถนนเพชรบุรี แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10400
โทร. 0 2612 1555 โทรสาร 0 2612 1364

ENERGY POLICY AND PLANNING OFFICE, MINISTRY OF ENERGY
121/1-2 Phetchaburi Road, Ratchathewi, Bangkok 10400, Thailand
Tel. +66 2612 1555 Fax. +66 2612 1364

www.eppo.go.th

ISBN 978-974-9822-98-2

www.eppo.go.th