

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 VALUE185

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 ECONOMICS201

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 PRICES223

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