

Energy Statistics in Malaysia

Workshop on Energy Statistics for ASEAN Countries

21 – 23 November 2017

Kuala Lumpur, Malaysia

Outline

- Background
- Energy in Malaysia
- Standard Operating Procedures
- Data Collection
- Data Dissemination
- Way Forward

Background

- In 2010, Energy Commission of Malaysia (EC) has been mandated by Ministry of Energy, Green Technology and Water (MEGTW) to be the focal point for energy data and statistics in the country.
- EC are responsible to prepare and publish National Energy Balance publication
- EC are responsible to give feedback by local and international parties related to energy data and statistics

Energy in Malaysia

Production and Reserves of Oil as of 1st January 2015

| REGION | RESERVES (BILLION BARRELS) | | | PRODUCTION (THOUSAND BARRELS PER DAY) | | |
|---------------------|----------------------------|--------------|--------------|---------------------------------------|---------------|---------------|
| | CRUDE OIL | CONDENSATES | TOTAL | CRUDE OIL | CONDENSATES | TOTAL |
| Peninsular Malaysia | 1.843 | 0.362 | 2.205 | 220.02 | 34.21 | 254.23 |
| Sabah | 1.897 | 0.112 | 2.009 | 210.15 | 2.63 | 212.79 |
| Sarawak | 1.239 | 0.454 | 1.693 | 125.54 | 69.07 | 194.60 |
| TOTAL | 4.979 | 0.928 | 5.907 | 555.70 | 105.91 | 661.62 |

Source: PETRONAS

Reserves and Production of Natural Gas as of 1st January 2015

| REGION | RESERVES | | | PRODUCTION |
|---------------------|-------------------------------------|----------------|----------------|---|
| | TRILLION STANDARD CUBIC FEET (TSCF) | | | MILLION STANDARD CUBIC FEET PER DAY (MMscf/d) |
| | ASSOCIATED | NON-ASSOCIATED | TOTAL | |
| Peninsular Malaysia | 8.471 | 24.022 | 32.493 | 1,949.69 |
| Sabah | 3.149 | 11.884 | 15.032 | 376.02 |
| Sarawak | 2.853 | 50.034 | 52.888 | 4,147.00 |
| TOTAL | 14.473 | 85.940 | 100.413 | 6,472.71 |

Notes (*): Refers to the amount of gas produced/generated from associated fields
 1 cubic feet = 0.028317 cubic metre
 Associated Gas: Natural gas produced in association with oil
 Non-Associated Gas: Natural gas produced from a gas reservoir not associated with oil

Source: PETRONAS

Energy in Malaysia

Production and Reserves of Coal as of 31st December 2015

| LOCATION | RESERVES (MILLION TONNES) | | | COAL TYPE | PRODUCTION (METRIC TONNES) |
|-------------------------------|---------------------------|---------------|-----------------|---|-------------------------------|
| | MEASURED | INDICATED | INFERRED | | |
| SARAWAK | | | | | |
| 1. Abok & Stantek, Sri Aman | 7.25 | 10.60 | 32.40 | Coking Coal, Semi-Anthracite and Anthracite | 25,842 |
| 2. Ment-Pia, Kapit | 170.26 | 107.02 | 107.84 | Sub-Bituminous | 693,457 |
| 3. Bintulu | 6.00 | 0.00 | 14.00 | Bituminous (partly coking coal) | - |
| 4. Mukah - Balingian | 86.95 | 170.75 | 646.53 | Lignite, Hydrous Lignite and Sub-Bituminous | 1,840,145 |
| 5. Tutoh Area | 5.58 | 34.66 | 162.33 | Sub-Bituminous | - |
| SUBTOTAL | 276.04 | 323.01 | 963.10 | | 2,559,444 |
| SABAH | | | | | |
| 1. Saimpopon | 4.80 | 14.09 | 7.70 | Sub-Bituminous | - |
| 2. Labuan | - | - | 8.90 | Sub-Bituminous | - |
| 3. Maliau | - | - | 25.00 | Bituminous | - |
| 4. Malibau | - | 17.90 | 25.00 | | - |
| 5. SW Malibau | - | 23.23 | - | | - |
| 6. Pinangan West Middle Block | - | - | 42.60 | Bituminous | - |
| SUBTOTAL | 4.80 | 55.22 | 209.20 | | |
| SELANGOR | | | | | |
| 1. Batu Arang | - | - | 17.00 | Sub-Bituminous | - |
| Subtotal | 0.00 | 0.00 | 17.00 | | |
| TOTAL | 280.84 | 378.23 | 1,279.30 | | |
| GRAND TOTAL | | | 1,938.37 | | 2,559,444 |

Source: Department of Mineral and Geosciences, Malaysia

Table 9: Consumption of Coal in metric tonnes

| SECTORS | PENINSULAR MALAYSIA | SABAH | SARAWAK | MALAYSIA |
|----------------|---------------------|----------|------------------|-------------------|
| Industry | 2,684,838 | - | 136,149 | 2,820,987 |
| Power Stations | 22,858,325 | - | 1,930,132 | 24,788,457 |
| TOTAL | 25,543,163 | 0 | 2,066,281 | 27,609,444 |

Source: Power Utilities, IPPs, cement, iron and steel manufacturers

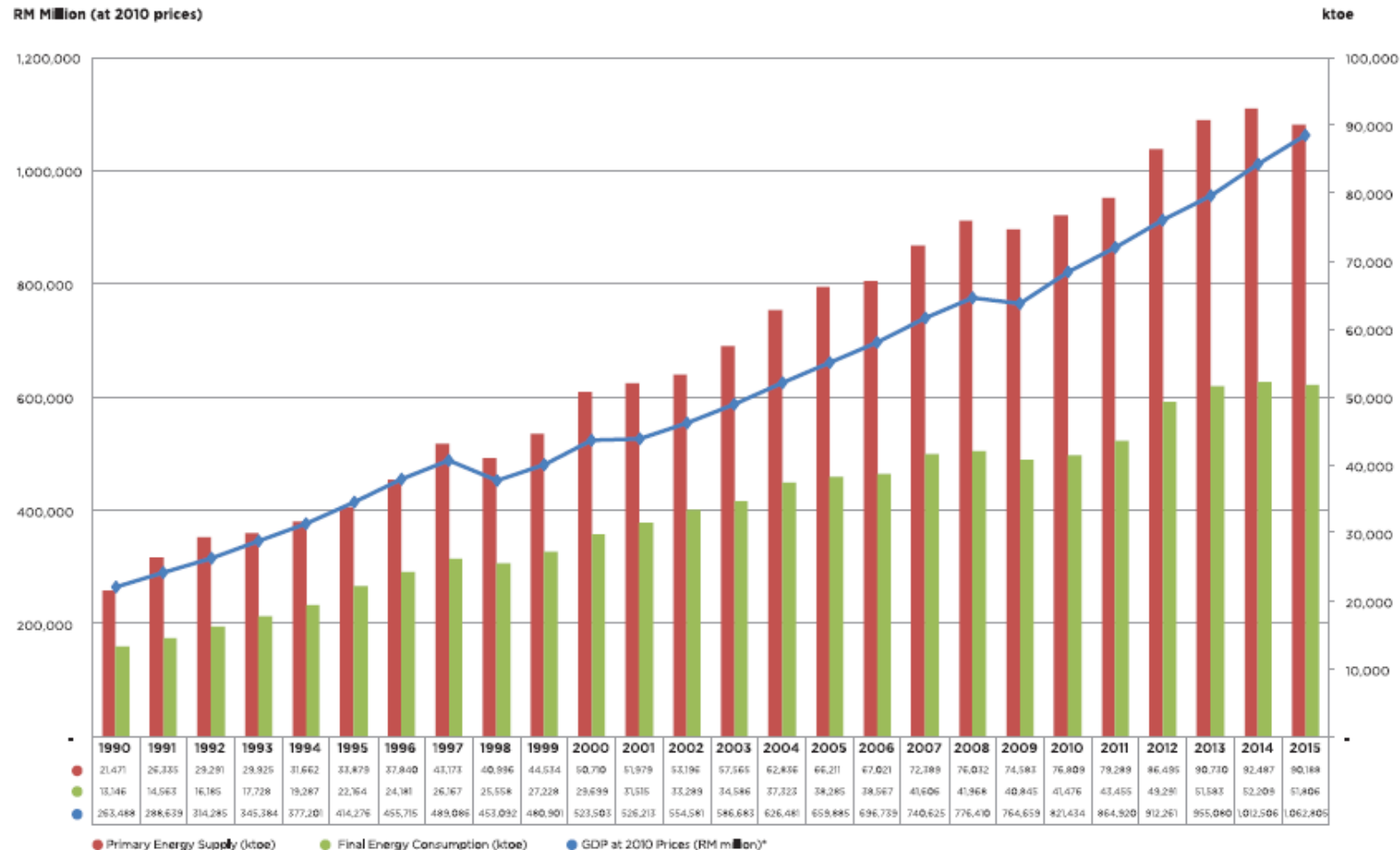
Installed Capacity as of 31st December 2015 In MW

| | | HYDRO | NATURAL GAS | COAL | DIESEL / MFO | BIOMASS | SOLAR | BIOGAS | OTHERS | TOTAL |
|---------------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|--------------|-----------------|-----------------|
| PENINSULAR MALAYSIA | TNB | 2,149.1 | 4,150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6,299.1 |
| | IPPs | 0.0 | 6,344.5 | 8,066.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14,410.5 |
| | Co-Generation | 0.0 | 876.1 | 0.0 | 0.0 | 90.7 | 0.0 | 69.5 | 0.0 | 1,036.2 |
| | Self-Generation | 2.1 | 0.0 | 0.0 | 399.0 | 351.8 | 1.0 | 4.9 | 0.0 | 758.8 |
| | FIT | 23.6 | 0.0 | 0.0 | 0.0 | 44.4 | 206.7 | 30.4 | 0.0 | 305.1 |
| | Subtotal | 2,174.8 | 11,370.6 | 8,066.0 | 399.0 | 486.9 | 207.7 | 104.7 | 0.0 | 22,809.8 |
| SABAH | SESB | 76.0 | 112.0 | 0.0 | 180.9 | 0.0 | 0.0 | 0.0 | 0.0 | 368.9 |
| | IPPs | 0.0 | 1,012.6 | 0.0 | 189.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1,202.5 |
| | Co-Generation | 0.0 | 106.8 | 0.0 | 0.0 | 122.7 | 0.0 | 0.0 | 0.0 | 229.5 |
| | Self-Generation | 0.0 | 0.0 | 0.0 | 526.8 | 135.8 | 0.1 | 3.4 | 0.0 | 666.1 |
| | FIT | 6.5 | 0.0 | 0.0 | 0.0 | 43.0 | 18.1 | 2.7 | 0.0 | 70.3 |
| | Subtotal | 82.5 | 1,231.4 | 0.0 | 897.6 | 301.5 | 18.3 | 6.1 | 0.0 | 2,537.3 |
| SARAWAK | SEB | 1,058.8 | 614.6 | 480.0 | 158.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2,311.7 |
| | IPPs | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,400.0 |
| | Co-Generation | 0.0 | 289.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 289.0 |
| | Self-Generation | 0.0 | 0.0 | 0.0 | 11.6 | 74.1 | 0.3 | 0.5 | 5.1 | 91.5 |
| | FIT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Subtotal | 3,458.8 | 903.6 | 480.0 | 169.9 | 74.1 | 0.3 | 0.5 | 5.1 | 5,092.2 |
| Total | 5,716.1 | 13,505.6 | 8,546.0 | 1,466.5 | 862.5 | 226.3 | 111.3 | 5.1 | 30,439.3 | |
| Share (%) | 18.8% | 44.4% | 28.3% | 4.8% | 2.8% | 0.7% | 0.4% | 0.0% | 100.0% | |

Source: Power Utilities, IPPs and SEDA, Malaysia
Note: Excluding plants that not in operation

Energy in Malaysia

Trends in GDP, Primary Energy Supply and Final Energy Consumption



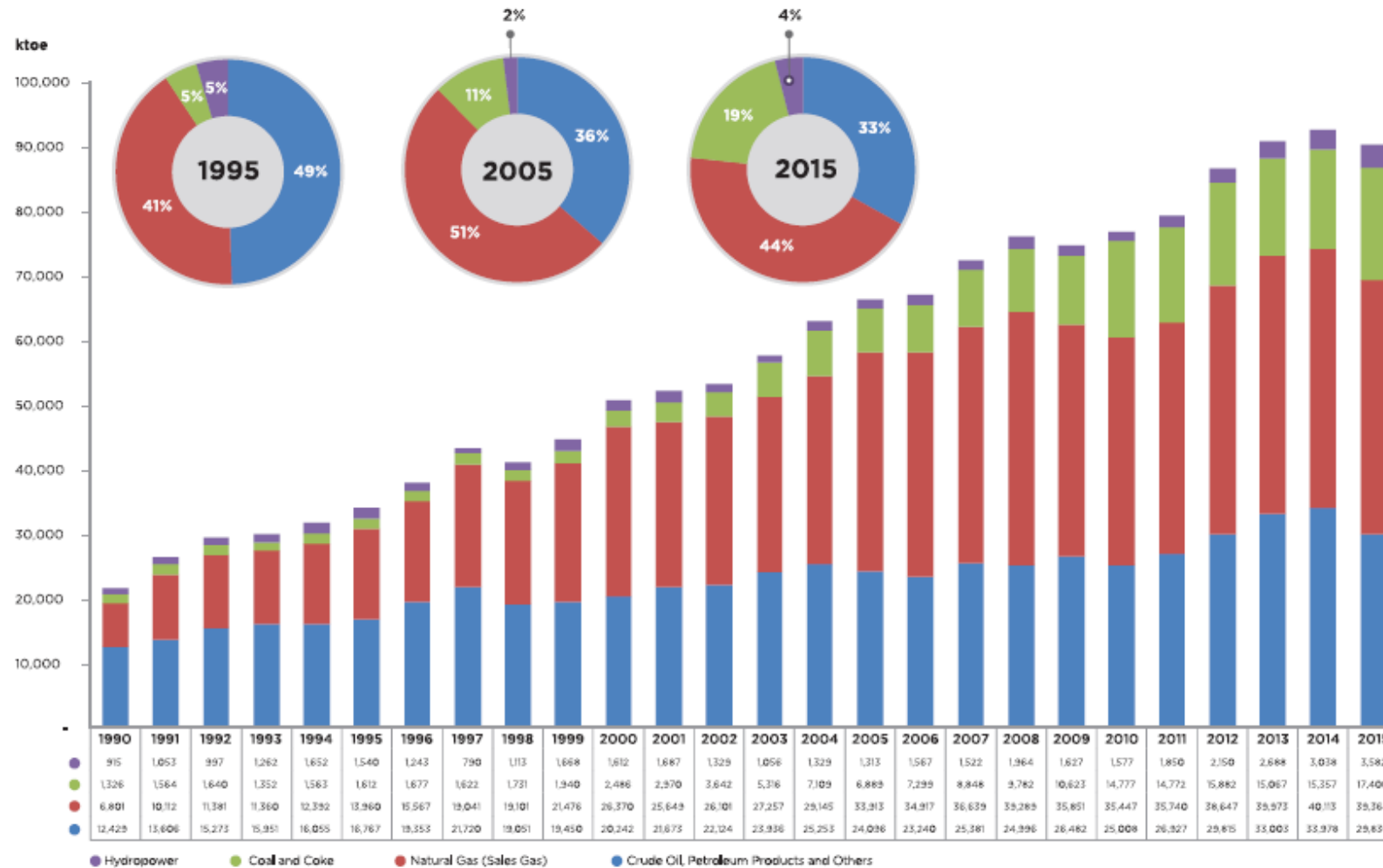
Source: GDP data by Department of Statistics Malaysia
 Note: GDP at 2010 Prices (RM Million) for 1990 until 2009 was calculated by Energy Commission

Average Annual Growth Rate per year from 1990 until 2015:

- a. GDP at 5.7%
- b. Primary Energy Supply at 5.9%
- c. Final Energy Consumption at 5.6%

Energy in Malaysia

Primary Energy Supply



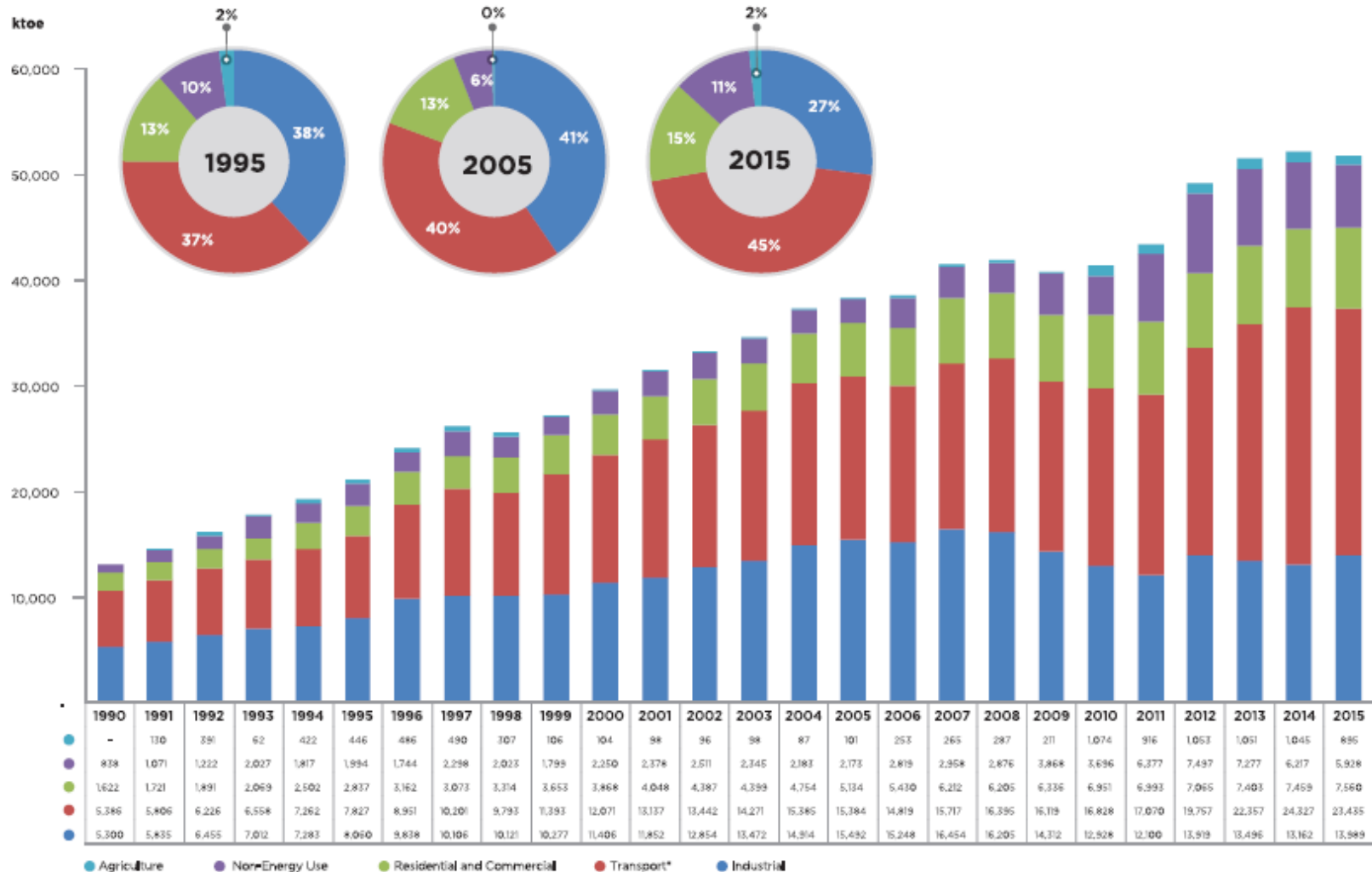
Average Annual Growth Rate per year from 1990 until 2015:

- a. Coal and Coke at 10.8%
- b. Natural Gas at 7.3%
- c. Hydropower at 5.6%
- d. Crude Oil, Petroleum Products and Others at 3.6%

Source: Oil and gas companies, power utilities, IPPs, cement, iron and steel manufacturers

Energy in Malaysia

Final Energy Consumption by Sectors



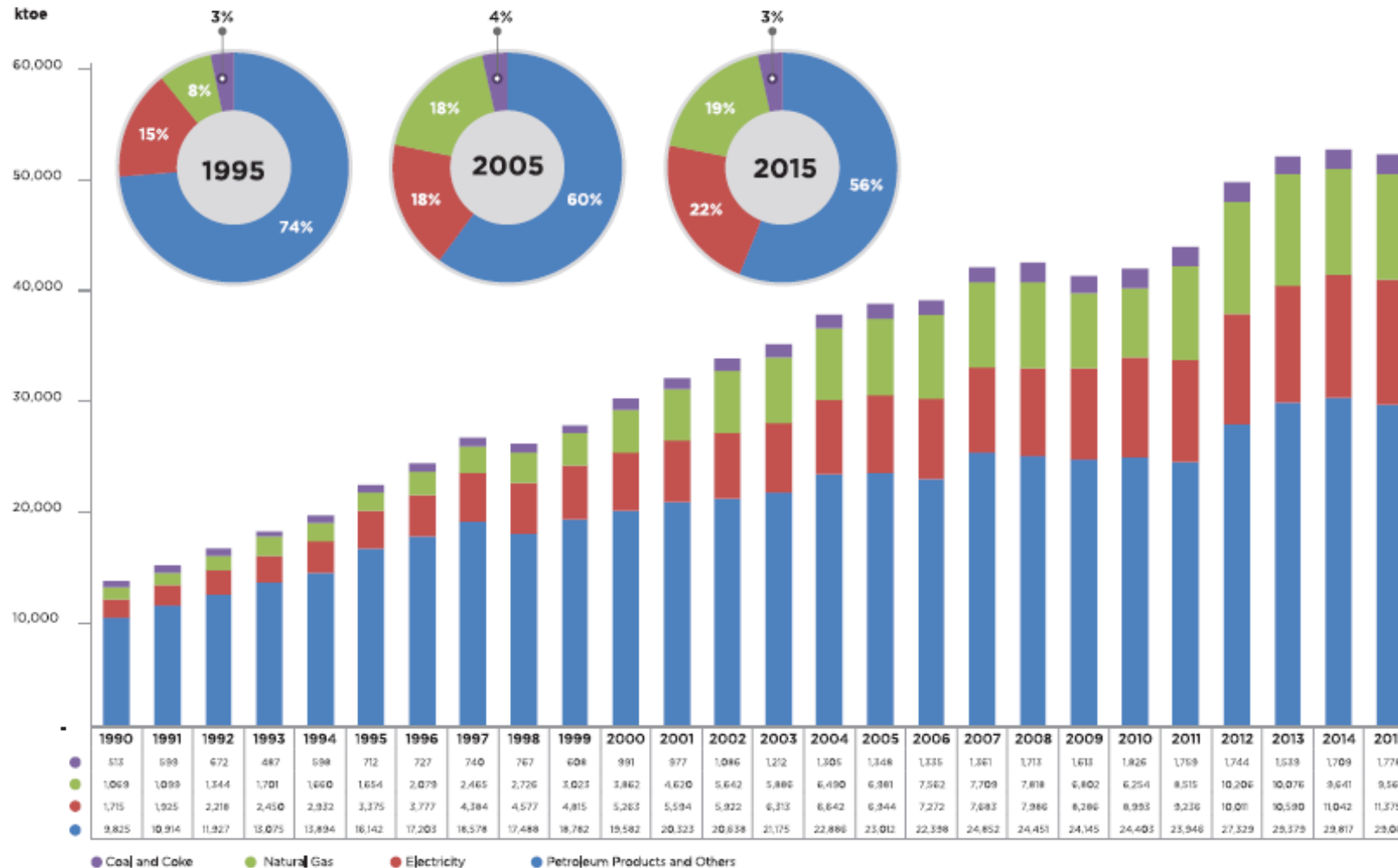
Average Annual Growth Rate per year from 1990 until 2015:

- a. Non-Energy Use at 8.1%
- b. Residential and Commercial at 6.4%
- c. Transport at 6.1%
- d. Industrial at 4.0%

Source: Oil and gas companies, TNE, SESB, SEB, IPPs, cement, iron and steel manufacturers
 Note (*): Transport including international aviation

Energy in Malaysia

Final Energy Consumption by Type of Fuels



Source: Oil and gas companies, TNB, SESB, SEB, IPPs, cement, iron and steel manufacturers

Average Annual Growth Rate per year from 1990 until 2015:

- a. Natural Gas at 9.2%
- b. Electricity at 7.9%
- c. Coal and Coke at 5.1%
- d. Petroleum Products and Others at 4.4%

Standard Operating Procedures

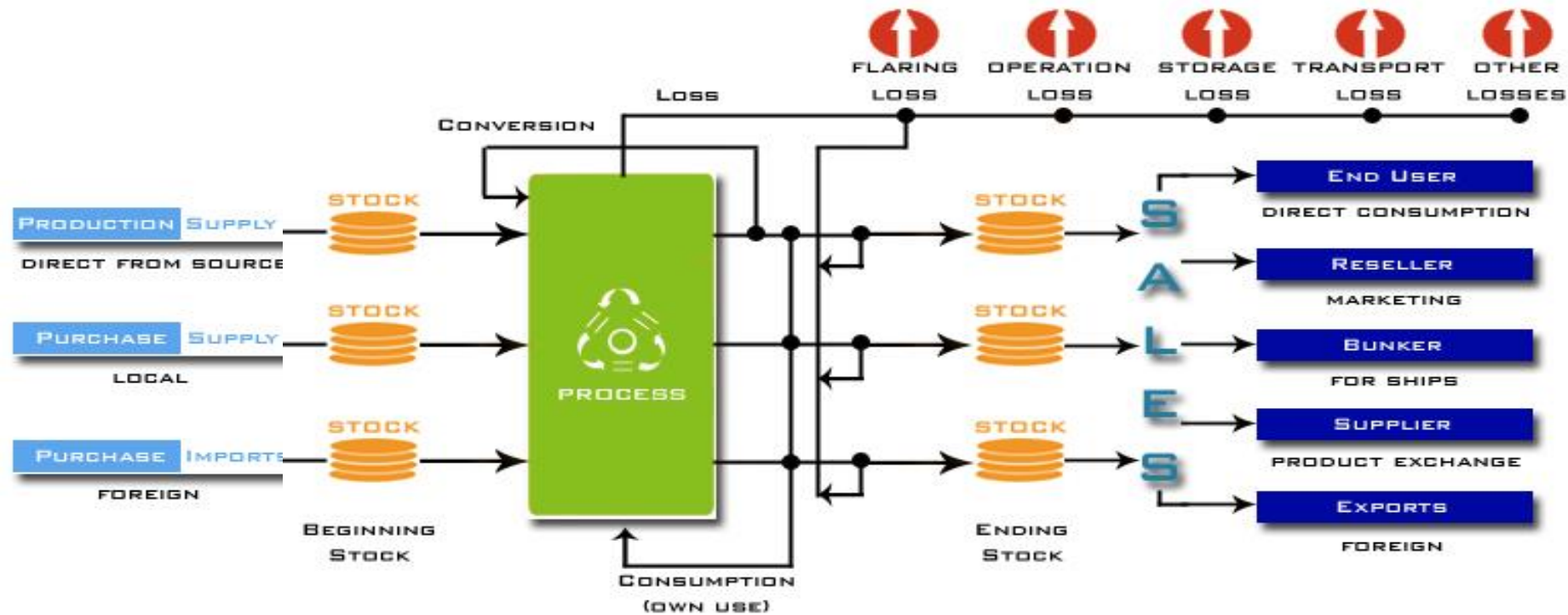
Overall procedures for producing the National Energy Balance

| SOP ID | SOP Type | SOP Title |
|--------------------|-------------------|--|
| SOP-MEIH-NEB-001 | General Procedure | Preparation of National Energy Balance |
| SOP-MEIH-NEB-P1 | Process Control | Project Initialization SOP for NEB |
| SOP-MEIH-NEB-P2 | Process Control | Data Collection SOP for NEB |
| SOP-MEIH-NEB-P2(A) | Process Control | Procedure for Managing Late Data Submissions |
| SOP-MEIH-NEB-P2(B) | Process Control | Procedure for Managing Requests for Training |
| SOP-MEIH-NEB-P3 | Process Control | Data Compilation SOP for NEB |
| SOP-MEIH-NEB-P4 | Process Control | Report Preparation SOP for NEB |
| SOP-MEIH-NEB-P5 | Process Control | Report Publication SOP for NEB |
| SOP-MEIH-NEB-P6 | Process Control | Report Dissemination SOP for NEB |

Data Collection

- Currently, about 70 data providers
- Divided into fuel types ; oil, gas, electricity and coal
- In quarterly basis based on region
- Questionnaire based on energy balance format
- Collected via online, email, fax and postage
- Primary and secondary sources
- Common unit of measurement based on fuel types

Data Collection



Data Collection: Online

www.st.gov.my/index.php/en/

www.kettha.gov.my/portal/index.php

- Type in the URL for MEIH Portal in the address bar of the internet Browser (Internet Explorer / Mozilla Firefox / Chrome), www.meih.st.gov.my
- Another option is to go to the official website of Suruhanjaya Tenaga, www.st.gov.my. Click on the MEIH icon located in the main page.
- Or go to official website of Ministry of Energy, Green Technology and Water, www.kettha.gov.my. Click on the Malaysia Energy Information Hub link at the main page.

Data Collection: Online

| Forms | Form Description | Parameters/Fields |
|-------|---|---|
| F1 | Stock of Energy Products | <ul style="list-style-type: none"> Open Stock Closing Stock |
| F2 | Energy Intake into Plant/Process/Operation | <ul style="list-style-type: none"> Local Purchase Production Supply/Electricity Generation Foreign Imports |
| F3 | Energy Own Consumption and Conversion/Operations | <ul style="list-style-type: none"> Own Use/Electricity Own Use Conversion Process |
| F4 | Sales of Energy Products by Distribution Channels | <ul style="list-style-type: none"> Sales End User Sales Reseller Sales Bunker Sales Intercompany Sales Exports |
| F5 | Losses of Energy Products | <ul style="list-style-type: none"> Loss Flaring Loss Storage Loss Operations Loss Others Loss Transportation |

1. Residential/Domestic

Retail - Residential
Public Lighting

2. Commercial

Retail - Commercial
Wholesale & Retail (Hotel / Complexes)
Real Estate & Services
Government & Military

3. Agriculture

Agriculture & Livestock

4. Non Energy

Non Energy Use

5. Industrial

Retail - Industry
Forestry & Logging
Fishing
Mining & Quarry
Construction
Refining
Ceramic
Food, Beverage & Tobacco
Glass & Glass Products
Rubber, Plastic & Non Metallic
Wood & Furniture
Textile Apparel & Leather
Power Generation
Brick
Cement
Iron, Steel & Metal
Pulp, Paper Products & Printing
Chemical & Petrochemical
Other Oil Companies
General Manufacturing (Others)

6. Transportation

Retail - Transportation
Road
Rail
Air
Inland Water

7. Utility

Utility Generation - TNB
Utility Generation - SESCO
Utility Generation - SEB
Utility Generation - Others

8. Bunker

International Shipping

Data Collection: Online

| No | Product Name | Product Description | No | Product Name | Product Description | No | Product Name | Product Description | |
|----|-------------------------|---------------------------------|-----------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|---|---|
| 1 | ATF & Av Gas | ATF (Aviation Turbine Fuel) | 38 | Electricity | Electricity | 75 | | Light Detergent Feedstock | |
| 2 | | Aviation Gas (AV Gas) | 39 | Fuel Oil | Fuel Oil Bunker | 76 | | Liquid Lubricants | |
| 3 | | DPK (Dual Purpose Kerosene) | 40 | | Fuel Oil | 77 | | MTBE | |
| 4 | Coal & Coke | Brown Coal Coke | 41 | | Fuel Oil - Cogen | 78 | | Naptha | |
| 5 | | Bituminous Coal | 42 | | Fuel Oil - Thermal - Steam | 79 | | Oil Slops | |
| 6 | | Charcoal | 43 | | Fuel Oil - Thermal - Utility sets | 80 | | Other Lubes | |
| 7 | | Coal - Thermal - Steam | 44 | | Fuel Oil (other than Residual) | 81 | | Petroleum Solvent (Others) | |
| 8 | | Coke (Semi Coke) | 45 | | Residual Fuel Oil | 82 | | Platformate / Reformate | |
| 9 | | Fuel Wood | 46 | | Fuel Oil (LSWR) | 83 | | Petroleum Jelly | |
| 10 | | Graphite | 47 | | Hydro Power | Elect - Hydro - Major | 84 | | Solid Lubricants |
| 11 | | Gas Coke | 48 | | | Elect - Hydro - Mini | 85 | | Other Waxes |
| 12 | | Lignite (Brown Coal) | 49 | Kerosene | Regular Kerosene | 86 | | Petroleum Waxes | |
| 13 | Lignite Briquettes | 50 | Liquified Natural Gas | LNG Liquified Natural Gas | 87 | | Waxy Raffinates | | |
| 14 | Other Coal | 51 | LPG | LPG Liquified Petroleum Gas | 88 | Others | Local Condensate | | |
| 15 | Peat | 52 | Motor Petrol | Mogas (Others) | 89 | | | Crude Residuum | |
| 16 | Pattern Fuel Briquettes | 53 | | Mogas (w Naptha L 92 RON) | 90 | | | Foreign Condensates | |
| 17 | Petroleum Coke | 54 | | Mogas (w Naptha UL 92 RON) | 91 | | | Residuee (FE) | |
| 18 | Retort Carbon | 55 | | Mogas (w Naptha UL 97 RON) | 92 | | | Slops Reprocessed | |
| 19 | Semi Coke | 56 | | Mogas (wout Naptha L 92 RON) | 93 | | Private Licencee Fossil | Elect - Private Licencee - Diesel | |
| 20 | Co-Generation Fossil | Elect - Cogen - Diesel | | 57 | Mogas (wout Naptha UL 92 RON) | | 94 | | Elect - Private Licencee - Natgas |
| 21 | | Elect - Cogen - Fuel Oil | | 58 | Mogas (wout Naptha UL 97 RON) | | 95 | Private Licencee Renewable | Elect - Private Licencee - Biomass |
| 22 | | Elect - Cogen - Natgas | | 59 | Natural Gas | | Butane | 96 | Refinery Gas |
| 23 | Co-Generation Renewable | Elect - Cogen - Biomass | | 60 | | | Ethane | 97 | |
| 24 | | Elect - Cogen - Palm Oil | | 61 | | Methane | 98 | Solar | Elect - Solar |
| 25 | Crude Oil | Local Crude Oil | 62 | Natural Gas Fuel | | 99 | Thermal | Elect - Thermal - Combined Cycle - Diesel | |
| 26 | | Other Foreign Crude Oil | 63 | Natural Gas | | 100 | | | Elect - Thermal - Combined Cycle - Natgas |
| 27 | | West Asian Crude Oil | 64 | NatGas - Thermal - Combined Cycle | | 101 | | | Elect - Thermal - Geothermal |
| 28 | Diesel | Diesel Oil Bunker | 65 | NatGas - Cogen | | 102 | | | Elect - Thermal - Steam - Biomass |
| 29 | | Diesel Oil | 66 | NatGas - Thermal - Open Cycle | | 103 | | | Elect - Thermal - OpenCycle - Diesel |
| 30 | | Diesel - Cogen | 67 | NatGas - Private Licencee | | 104 | | | Elect - Thermal - OpenCycle - Natgas |
| 31 | | Diesel - Thermal - Open Cycle | 68 | NatGas - Thermal - Steam | | 105 | | | Elect - Thermal - Steam - Coal |
| 32 | | Diesel - Private Licencee | 69 | Propane | 106 | | | Elect - Thermal - Steam - Diesel | |
| 33 | | Diesel - Thermal - Steam | 70 | Non Energy | Bitumen / Asphalt / Mexphalte | 107 | | | Elect - Thermal - Steam - Fuel Oil |
| 34 | | Diesel - Thermal - Utility Sets | 71 | | Bitumen Mastics | 108 | | | Elect - Thermal - Steam - Natgas |
| 35 | | Gas Oil | 72 | | Heavy Detergent Feedstock | 109 | | Elect - Thermal - Utility Sets - Diesel | |
| 36 | | High Speed Diesel Fuel | | | 73 | White/Industrial Spirit | 110 | Wind Turbine | Elect - Wind Turbine |
| 37 | | | | | 74 | Lubes / Grease | | | |

Data Collection: Online

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Data Submission » F1 : Stock of Energy Products (Opening Stock & Closing Stock)

Term of submission : **Quarter 1, 2014**
 Region : **Peninsular Malaysia**

| Product | Opening Stock Quantity | | Closing Stock Quantity | |
|----------------------------------|------------------------|---------|------------------------|---------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 3. Local Crude Oil | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 4. Natural Gas | <input type="text"/> | mmbtu ▼ | <input type="text"/> | mmbtu ▼ |
| 5. Petrol (RON 97) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |

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Data Submission » F2 : Energy Intake Into Plant / Process / Operation

Term of submission : **Quarter 1, 2014**
 Region : **Peninsular Malaysia**

| Product | Local Purchases Quantity | | Production Supply/ Elect Gen Quantity | | Foreign Imports Quantity | |
|----------------------------------|--------------------------|---------|---------------------------------------|---------|--------------------------|---------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 3. Local Crude Oil | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |
| 4. Natural Gas | <input type="text"/> | mmbtu ▼ | <input type="text"/> | mmbtu ▼ | <input type="text"/> | mmbtu ▼ |
| 5. Petrol (RON 97) | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ | <input type="text"/> | MT ▼ |

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Data Submission » **F3 : Energy Own Consumption & Conversions / Operation**

Term of submission : **Quarter 1, 2014**
Region : **Peninsular Malaysia**

| Product | Own Consumption Quantity | Conversion Process Quantity |
|----------------------------------|------------------------------|------------------------------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 3. Local Crude Oil | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 4. Natural Gas | <input type="text"/> mmbtu ▼ | <input type="text"/> mmbtu ▼ |
| 5. Petrol (RON 97) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |

Save Balancing Grid Balancing Grid (KTOE)

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Data Submission » **F4 : Sales of Energy Products by Distribution Channels**

Term of submission : **Quarter 1, 2014**
Region : **Peninsular Malaysia**

| Product | Sales - End User Quantity | Sales - Resellers Quantity | Sales - Bunker Fuel Quantity | Sales - Intercompany Quantity | Sales - Exports Quantity |
|----------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 3. Local Crude Oil | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |
| 4. Natural Gas | <input type="text"/> mmbtu ▼ | <input type="text"/> mmbtu ▼ | <input type="text"/> mmbtu ▼ | <input type="text"/> mmbtu ▼ | <input type="text"/> mmbtu ▼ |
| 5. Petrol (RON 97) | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ | <input type="text"/> MT ▼ |

Save Balancing Grid Balancing Grid (KTOE)

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Data Submission » F5 : Losses of Energy Products

Term of submission : **Quarter 1, 2014**
 Region : **Peninsular Malaysia**

| Product | Loss - Flaring Quantity | Loss - Storage Quantity | Loss - Operation Quantity | Loss - Transportation Quantity | Loss - Others Quantity |
|----------------------------------|----------------------------|----------------------------|----------------------------|--------------------------------|----------------------------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT |
| 3. Local Crude Oil | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT |
| 4. Natural Gas | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> mmbtu |
| 5. Petrol (RON 97) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT |

Save Balancing Grid Balancing Grid (KTOE)

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Data Submission » C1 : Final Energy Consumption Sectors

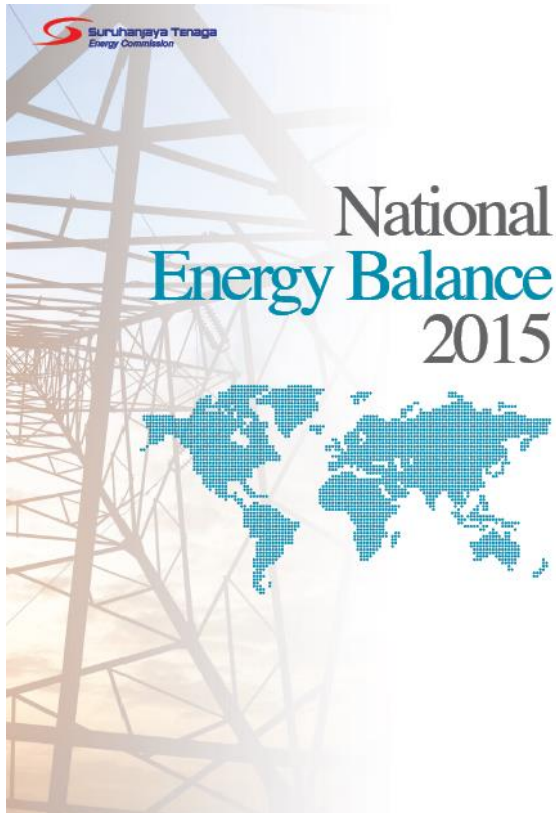
Term of submission : **Quarter 1, 2014**
 Region : **Peninsular Malaysia**

| Product | Cement | Chemical and Petrochemical | Food, Beverage and Tobacco | Non Energy Use | Ret... |
|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------|
| 1. Aviation Turbine Fuel (ATF) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> |
| 2. Liquefied Petroleum Gas (LPG) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> |
| 3. Local Crude Oil | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> |
| 4. Natural Gas | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> mmbtu | <input type="text"/> |
| 5. Petrol (RON 97) | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> MT | <input type="text"/> |

Save Balancing Grid Balancing Grid (KTOE)

Data Dissemination

Publication



Online



Summary

- Primary Energy Supply
- Transformation Process
- Final Energy Demand

Crude Oil & Petroleum Products

- Reserves
- Production
- Import & Export
- Final Consumption

Natural Gas

- Reserves
- Production
- Import & Export
- Final Consumption

Coal & Coke

- Reserves
- Production
- Import & Export
- Final Consumption

Electricity

- Installed Capacity
- Electricity Generation
- Final Electricity Consumption



Economic Indicator

- GDP
- Population
- GDP per Capita

Energy Indicator

- Energy Intensity per Capita
- Energy Intensity per unit GDP



- Performance of Electricity Supply Industry
- Information on Electricity Supply Industry
- Independent Power Producers (IPPs)
- Electricity Distributors
- Co-Generators
- Renewable Energy Projects
- Electrical Competency Certificates Issued



Energy Prices

- Petroleum Products
- LPG
- Natural Gas
- Retail Petroleum
- Tariff



Gas Distribution Statistics

- Performance of Gas Distribution System
- Natural Gas Consumption
- Natural Gas Consumers
- Length of Natural Gas Distribution Pipeline
- Gas Competency Certificates Issued

Mobile Apps



MyEnergyStats

This mobile application is to access data from the Malaysia Energy Information Hub (MEIH). It can fetch new up-to-date data and filter according to the user needs.

These are the categories provided:

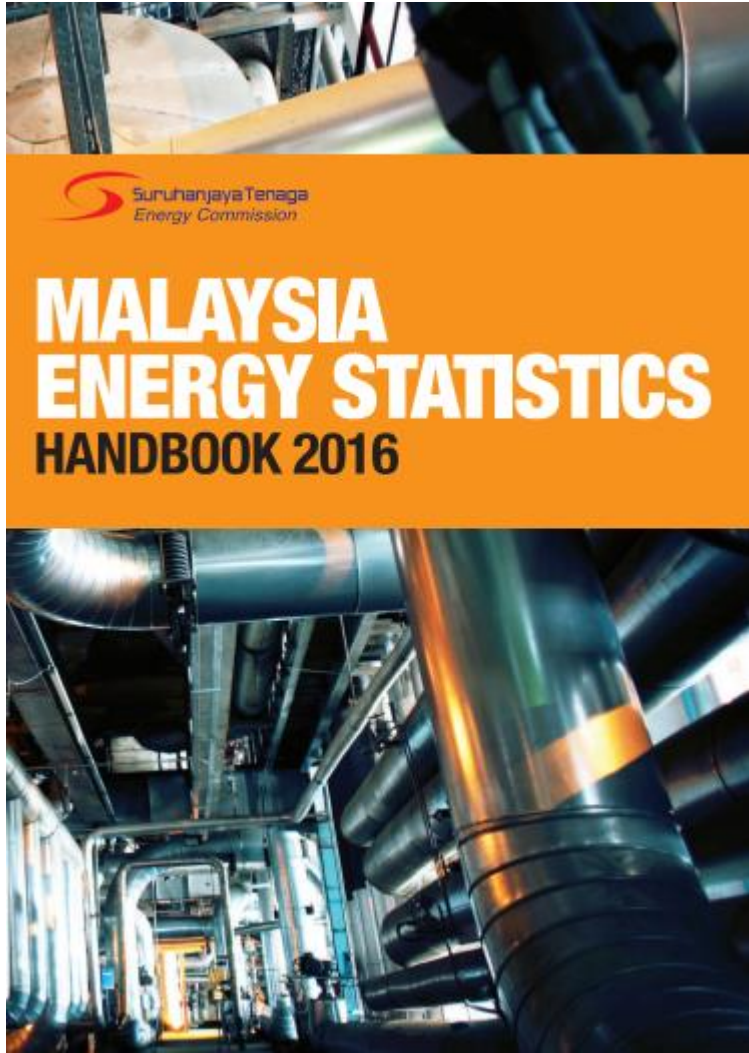
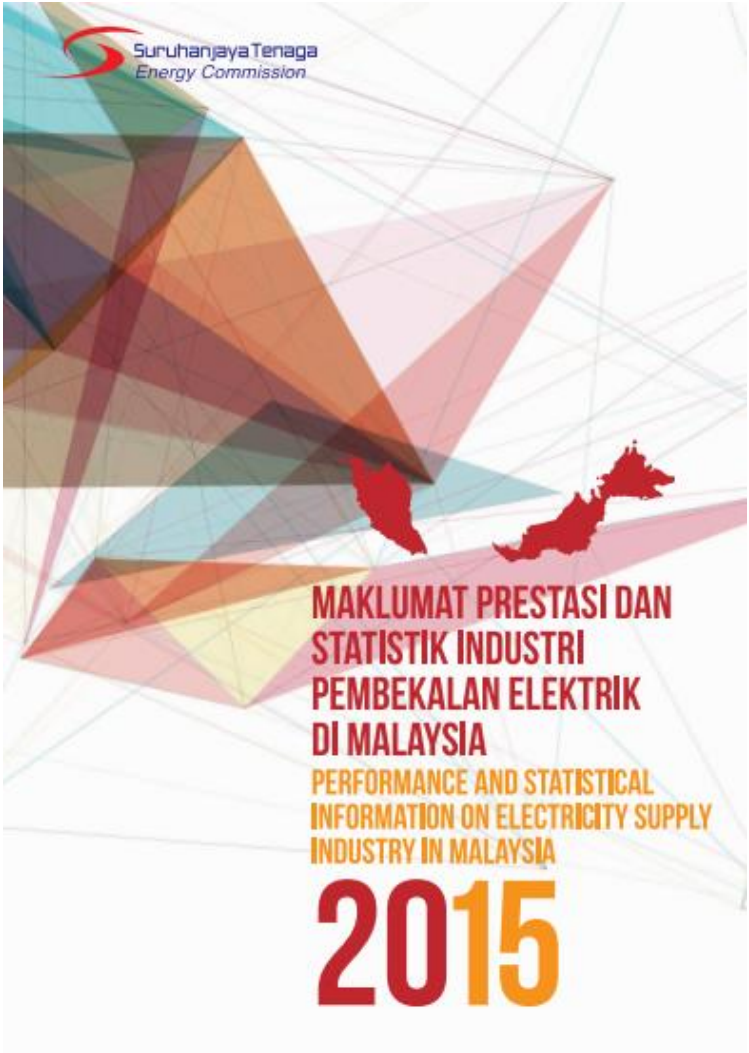
- Energy Reserves
- Energy Supply
- Energy Transformation
- Energy Consumption
- Energy Indicators
- Energy Prices
- Electricity
- Gas Distribution Statistics

Features including filtering according to years and type, pdf generation and bookmarking.

The Malaysia Energy Information Hub (MEIH) serves to establish a comprehensive national energy database to support the dissemination and distribution of energy statistics in Malaysia to local and international stakeholders and the public. MEIH is managed by the Energy Commission (EC) of Malaysia.



Other Publications



Way Forward

Energy Survey

- We already conducted energy survey for Manufacturing, Residential and Commercial sectors
- We will conducting energy survey for Transportation sector in 2018

New Data in National Energy Balance (Proposal)

- GHG Inventory Data for Energy Sector
- Final Energy Consumption data by States in Malaysia
- Energy Outlook

Thank You

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