

# ONLINE DATA COLLECTION AND DISSEMINATION

International Workshop on Energy Statistics and Energy Balances

23 – 25 May 2016

Beijing, China

# OUTLINE

- Introduction
- Objectives
- How to Access MEIH
- Online Data Collection
- Online Data Dissemination
- Benefits
- Page Views

# INTRODUCTION

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 a portal undertaken and managed by the Energy Commission (EC) of Malaysia.

# INTRODUCTION

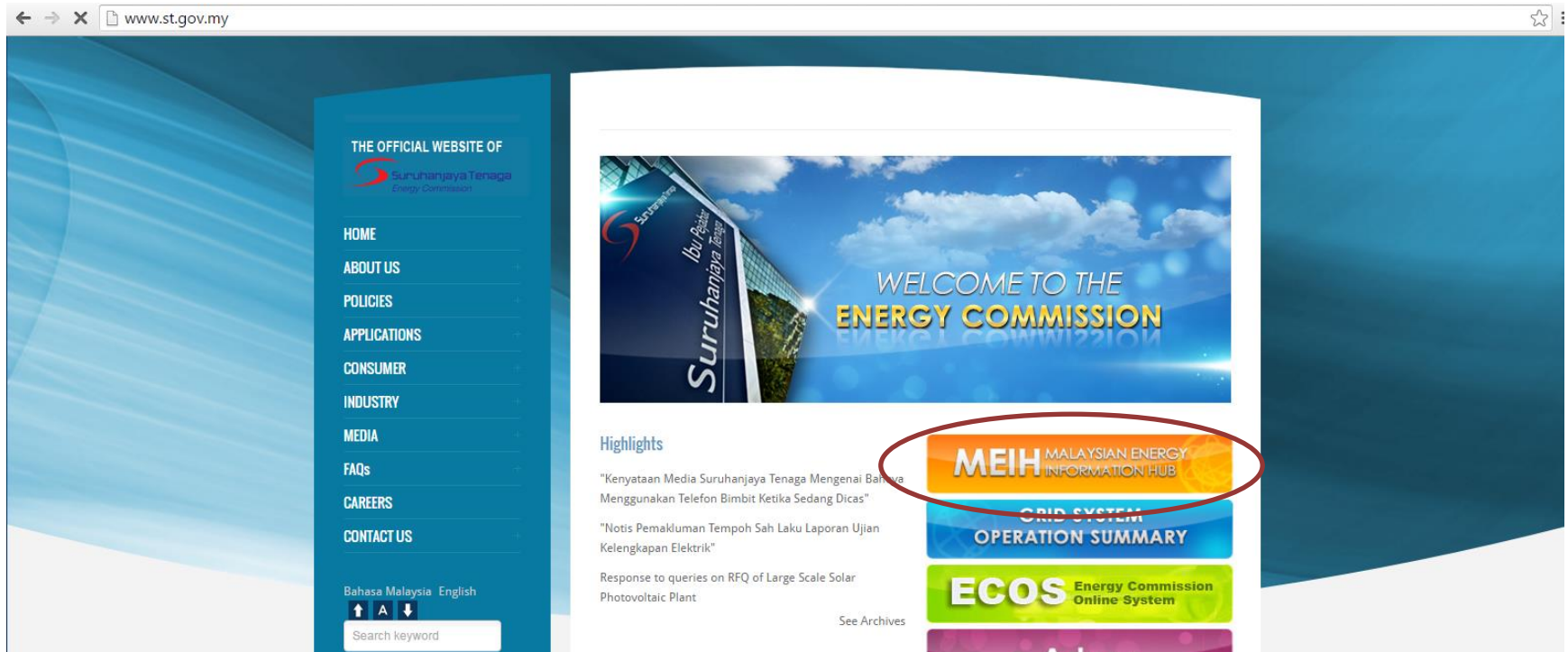


It was officially launched by Y.B Dato' Sri Peter Chin Fah Kui, Minister of Energy, Green Technology and Water of Malaysia on 28 February 2012 at Sime Darby Convention Centre, Kuala Lumpur, Malaysia

# OBJECTIVES

- To establish a comprehensive national energy database to provide timely energy statistics and support for National Energy Planning
- To help EC achieve its organisational objectives and to assist EC in building the necessary capabilities as to become a "one-stop energy statistics centre" responding to enquiries and requests from the public and private sectors regarding the country's energy data
- To develop, maintain and update a computerised information system including an energy databank
- To establish a mechanism which ensures all data and information relevant to energy planning and energy indicators are deposited in the energy database system
- To co-ordinate, compile and assist in the publication of energy statistics and to undertake appropriate studies on its own or in collaboration with other energy centres
- To develop in-house capabilities/expertise in energy forecast and modelling system for the short and long-term energy outlook
- To undertake energy end-use forecasting, energy demand/supply planning and development and feasibility studies to assist both public and private sector organisations in formulating effective energy strategies and project implementation.

# HOW TO ACCESS MEIH



- 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](http://www.meih.st.gov.my)
- Another option is to go to the official website of Energy Commission, [www.st.gov.my](http://www.st.gov.my). Click on the MEIH icon located in the main page.

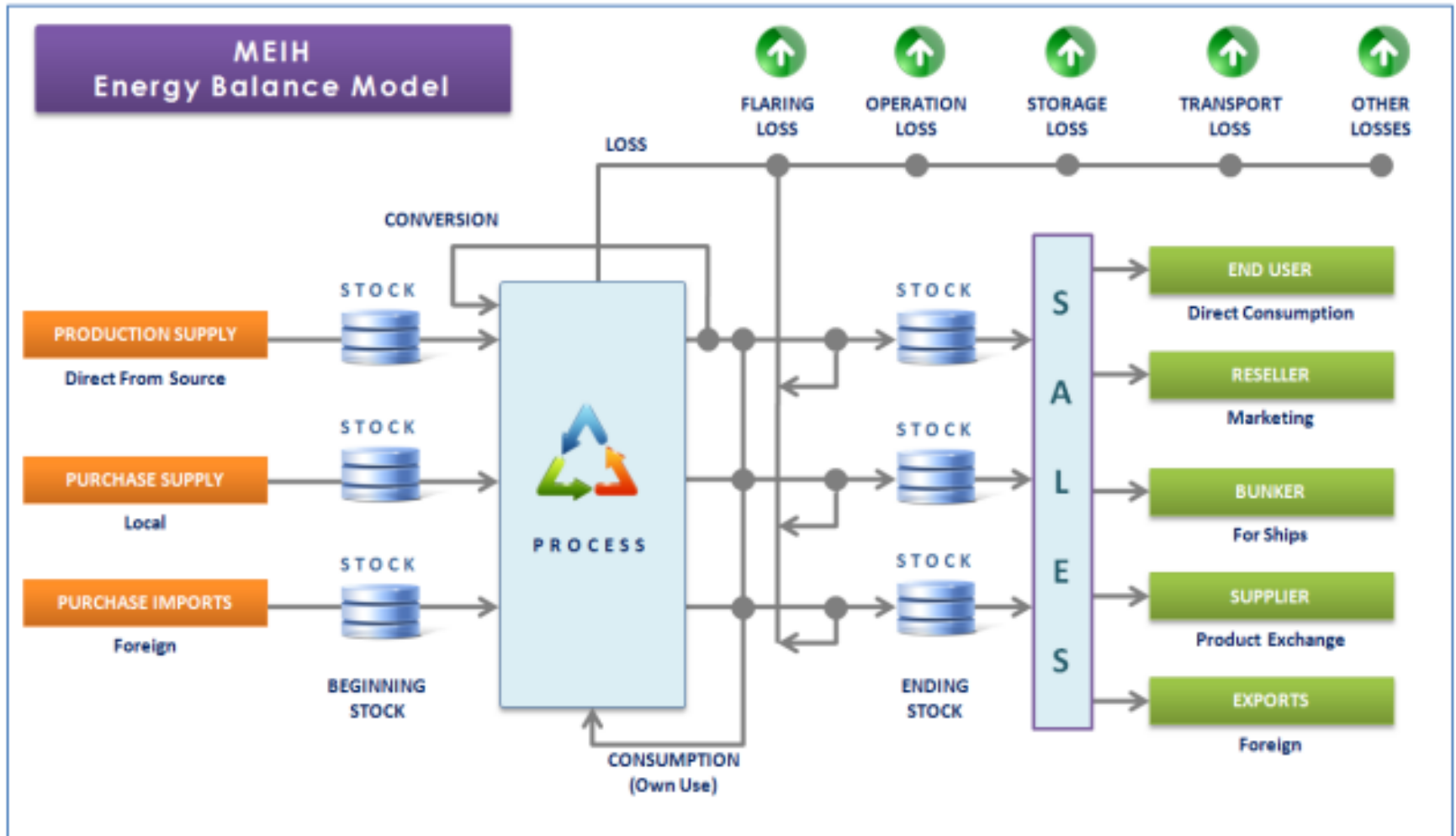
# HOW TO ACCESS MEIH

The screenshot shows the MEIH website interface. At the top left, the browser address bar displays 'meih.st.gov.my'. The website header features the Suruhanjaya Tenaga Energy Commission logo on the left and the MEIH Malaysia Energy Information Hub logo on the right. Below the header is a navigation menu with links for Home, Statistics, Publications, and Helpdesk.

The main content area is divided into two columns. The left column contains a featured article titled 'Electricity Production' with a background image of power lines. Below this is an 'Introduction to Malaysia Energy Information Hub' section, which includes a brief description of the MEIH's purpose and a 'Read more...' link. An 'Announcement' section follows, featuring a 'Tender Notice: Consultancy Services To Conduct Survey On The Energy Consumption Of The Commercial Sector In Peninsular Malaysia'.

The right sidebar contains a 'Login' section with a form for Email Address and Password, a 'Sign In' button, and links for 'Create Account' and 'Forgot Password'. Below the login section is a 'Polls - Alternative Energy' section with the question: 'Would you prefer the government to increase, decrease, or not change the financial support and incentives it gives for producing energy from alternative sources such as wind and solar?'. The poll options are 'a. Increase' and 'b. Not Change'.

# ONLINE DATA COLLECTION





# ONLINE DATA COLLECTION

**Suruhanjaya Tenaga**  
Energy Commission

**MEIH**  
Malaysia Energy Information Hub

Home Statistics Publications Dashboard **Data Submission** Helpdesk Change Password

## User Manual

 [User Manual - National Energy Balance Data Submission Module](#)

## Data Submission

Term of submission :

Region :

Data Type :

**Energy, Supply, Production and Generation**

- F1 : Stock of Energy Products (Opening Stock & Closing Stock)
- F2 : Energy Intake Into Plant / Process / Operation
- F3 : Energy Own Consumption & Conversions / Operation
- F4 : Sales of Energy Products by Distribution Channels
- F5 : Losses of Energy Products

**Energy Consumption Sectors**

- C1 : Final Energy Consumption Sectors

# ONLINE DATA COLLECTION



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### Energy Consumption Sectors

- C1 : Final Energy Consumption Sectors

Sectors :

#### Industry

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Chemical and Petrochemical | <input type="checkbox"/> Construction                     | <input type="checkbox"/> Food and tobacco                    |
| <input type="checkbox"/> Iron and steel             | <input type="checkbox"/> Machinery                        | <input type="checkbox"/> Mining and quarrying                |
| <input type="checkbox"/> Non-ferrous metals         | <input checked="" type="checkbox"/> Non-metallic minerals | <input checked="" type="checkbox"/> Non-specified (industry) |
| <input type="checkbox"/> Paper, pulp and print      | <input type="checkbox"/> Textile and leather              | <input type="checkbox"/> Transport equipment                 |
| <input type="checkbox"/> Wood and wood products     |   |  |

#### Non-energy Use

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Non-energy use in other | <input type="checkbox"/> Non-energy use in transport | <input type="checkbox"/> Non-energy use industry/transformation/energy |
|--|--|--|

#### Other

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Agriculture/forestry | <input type="checkbox"/> Commercial and public services | <input type="checkbox"/> Fishing                |
| <input type="checkbox"/> Non-specified (other)           | <input checked="" type="checkbox"/> Public Lighting     | <input checked="" type="checkbox"/> Residential |

#### Transport

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Domestic aviation  | <input type="checkbox"/> Domestic navigation | <input type="checkbox"/> Non-specified (transport) |
| <input type="checkbox"/> Pipeline transport | <input type="checkbox"/> Rail                | <input type="checkbox"/> Road                      |

# ONLINE DATA COLLECTION

Products:

## Aviation Turbine Fuel (ATF) & Aviation Gasoline (AV GAS)

- Aviation Gasoline (AV GAS)  Aviation Turbine Fuel (ATF)  Dual Purpose Kerosene (DPK)

## Biofuel

- Biodiesel  Biogasoline

## Coal Products

- Anthracite  BKB/PB (Braunkohlenbriketts/Peat Briquettes)  Blast furnace Gas  
 Coal - Thermal - Electricity  Coal Tar  Coke  
 Coke Oven Gas  Coking Coal  Gas Works Gas  
 Lignite  Other bituminous Coal  Oxygen Steel furnace Gas  
 Patent Fuel  Peat  Sub-bituminous Coal

## Crude Oil

- Crude Residum  Foreign Condensate  Local Condensate  
 Local Crude Oil  Other Foreign Crude Oil  West Asian Crude Oil

## Diesel

- Diesel  Diesel - Cogen - Electricity  Diesel - Selfgen - Electricity  
 Diesel - Thermal - Electricity

## Electricity

- Electricity

## Electricity Co-Generation

- Electricity - Cogen - Agriculture Waste  Electricity - Cogen - Diesel  Electricity - Cogen - Fuel Oil  
 Electricity - Cogen - Geothermal  Electricity - Cogen - Livestock Waste  Electricity - Cogen - Municipal Solid Waste  
 Electricity - Cogen - Natural Gas  Electricity - Cogen - Palm Oil Waste  Electricity - Cogen - Wood Waste

## Electricity Hydro

- Electricity - Major Hydro  Electricity - Mini Hydro

## Electricity Thermal

- Electricity - Thermal - Agriculture Waste  Electricity - Thermal - Coal  Electricity - Thermal - Diesel  
 Electricity - Thermal - Fuel Oil  Electricity - Thermal - Geothermal  Electricity - Thermal - Livestock Waste  
 Electricity - Thermal - Municipal Solid Waste  Electricity - Thermal - Natural Gas  Electricity - Thermal - Palm Oil Waste  
 Electricity - Thermal - Wood Waste

## Electricity Wind

- Electricity Wind

## Fuel Oil

- Fuel Oil  Fuel Oil - Cogen - Electricity  Fuel Oil - Selfgen - Electricity  
 Fuel Oil - Thermal - Electricity

## Kerosene

- Kerosene

## LPG

- Liquefied Petroleum Gas (LPG)

## Natural Gas

- Butane  Ethane  Liquefied Natural Gas (LNG)  
 Methane  Natural Gas  Natural Gas - Cogen - Electricity  
 Natural Gas - Selfgen - Electricity  Natural Gas - Thermal - Electricity  Propane

## Non-Energy

- Bitumen /Asphalt/Mexphalte  Bitumen /Mastics  Flatformate / Reformate  
 Heavy Detergen Feedstock  Light Detergen Feedstock  Liquid Lubricants  
 Lubes/Grease  MTBE  Naphtha  
 Oil Slops  Other Lubes  Other Waxes  
 Petroleum Jelly  Petroleum Solvent (Others)  Petroleum Waxes  
 Solid Lubricans  Waxy Refinates  White Industrial Spirits

## Petrol

- Petrol (RON 95)  Petrol (RON 97)



## Refinery Gas

- Refinery Gas


## Renewable

- Agriculture Waste  Agriculture Waste - Cogen - Electricity  Agriculture Waste - Selfgen - Electricity  
 Agriculture Waste - Thermal - Electricity  Geothermal  Geothermal - Cogen - Electricity  
 Geothermal - Selfgen - Electricity  Geothermal - Thermal - Electricity  Livestock Waste

# ONLINE DATA COLLECTION



[Home](#) [Statistics](#) [Publications](#) [Dashboard](#) **[Data Submission](#)** [Helpdesk](#) [Change Password](#)

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

Term of submission : **Quarter 4, 2016**  
Region : **Peninsular Malaysia**

	Product	Opening Stock Quantity		Closing Stock Quantity	
1.	Agriculture Waste	<input type="text"/>	MT ▼	<input type="text"/>	MT ▼
2.	Aviation Gasoline (AV GAS)	<input type="text"/>	MT ▼	<input type="text"/>	MT ▼
3.	Biodiesel	<input type="text"/>	MT ▼	<input type="text"/>	MT ▼
4.	Coal - Thermal - Electricity	<input type="text"/>	MT ▼	<input type="text"/>	MT ▼
5.	Electricity - Thermal - Coal	<input type="text"/>	GWh ▼	<input type="text"/>	GWh ▼

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# ONLINE DATA COLLECTION

## Fuel Balance For Oil & Gas / Marketing / Coal & Steel By Quarter

Report title : Raw Balance Quarterly Input Form Summary  
 Organization name : SEGARI ENERGY VENTURES SDN BHD  
 Report date : 21/12/2015  
 Region : Peninsular Malaysia  
 Report period : 2015  
 Quarter : 1  
 Input by : MUHAMAD SHARFIZ SHAFIE

		F1	F1	F2	F2	F2	F3	F3	F4	F4	F4	F4	F4	F5	F5	F5	F5	F5			
		+	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-			
		Stock		Intake into Plant/Process/Operations			Consumption/Conversions		Sales of Energy Product by Distribution Channels					Losses of Energy Product							
	Product	Unit Quantity	Opening Stock	Closing Stock	Local Purchase	Production Supply / Elect Gen	Foreign Imports	Own Consumption	Conversions	Sales - End User	Sales - Reseller	Sales - Bunker	Sales - Intercompany	Sales - Foreign Exports	Loss - Flaring	Loss - Storage	Loss - Operations	Loss - Transportation	Loss - Others	BALANCE CHECK	
1.	Diesel - Thermal - Electricity	Litres	14,080,000.0000	13,800,000.0000	0	0	0	0	280,000.0000	0	0	0	0	0	0	0	0	0	0	0	0.0000
2.	Electricity	GWh	0	0	0.3600	1,989.2100	0	27.9000	0	0	1,961.6700	0	0	0	0	0	0	0	0	0	0.0000
3.	Electricity - Thermal - Diesel		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
4.	Electricity - Thermal - Natural Gas	GWh	0	0	0	1,984.3200	0	27.5300	0	0	1,956.7900	0	0	0	0	0	0	0	0	0	0.0000
5.	Natural Gas - Thermal - Electricity	mmbtu	0	0	15,297,400.0000	0	0	0	15,297,400.0000	0	0	0	0	0	0	0	0	0	0	0	0.0000

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		F1	F1	F2	F2	F2	F3	F3	F4	F4	F4	F4	F4	F5	F5	F5	F5	F5			
		+	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-			
		Stock		Intake into Plant/Process/Operations			Consumption/Conversions		Sales of Energy Product by Distribution Channels					Losses of Energy Product							
	Product	Unit Quantity	Opening Stock	Closing Stock	Local Purchase	Production Supply / Elect Gen	Foreign Imports	Own Consumption	Conversions	Sales - End User	Sales - Reseller	Sales - Bunker	Sales - Intercompany	Sales - Foreign Exports	Loss - Flaring	Loss - Storage	Loss - Operations	Loss - Transportation	Loss - Others	BALANCE CHECK	
1.	Diesel - Thermal - Electricity	KTOE	11.9922	11.7538	0	0	0	0	0.2385	0	0	0	0	0	0	0	0	0	0	0	-0.0001
2.	Electricity	KTOE	0	0	0.0310	171.1557	0	2.4006	0	0	168.7861	0	0	0	0	0	0	0	0	0	0.0000
3.	Electricity - Thermal - Diesel	KTOE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
4.	Electricity - Thermal - Natural Gas	KTOE	0	0	0	170.7350	0	2.3687	0	0	168.3663	0	0	0	0	0	0	0	0	0	0.0000
5.	Natural Gas - Thermal - Electricity	KTOE	0	0	347.1437	0	0	0	347.1437	0	0	0	0	0	0	0	0	0	0	0	0.0000
<b>Total</b>			<b>11.9922</b>	<b>11.7538</b>	<b>347.1747</b>	<b>341.8907</b>	<b>0.0000</b>	<b>4.7693</b>	<b>347.3822</b>	<b>0.0000</b>	<b>337.1524</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-0.0001</b>

# ONLINE DATA DISSEMINATION



## 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

# ONLINE DATA DISSEMINATION

The screenshot displays the MEIH website interface. At the top left is the logo for Suruhanjaya Tenaga Energy Commission. At the top right is the MEIH logo and the text 'Malaysia Energy Information Hub'. Below the logos is a navigation bar with 'Home', 'Statistics', 'Publications', and 'Helpdesk' links. The main content area is titled 'Energy Balance' and includes a sub-section 'Summary - Primary Energy Supply'. Underneath, there is a 'Search parameters' section with two dropdown menus for 'Year From' (set to 1978) and 'Year To' (set to 2014). A 'Fuel Types' list includes 'Select All', 'Crude Oil', 'Petroleum Products', 'Natural Gas', 'Coal and Coke', 'Hydropower', 'Biodiesel', 'Solar', 'Biomass', and 'Biogas', all with checked checkboxes. A 'Search' button is located below the fuel types list. At the bottom right of the page, there are two buttons: 'Download Excel' and 'Download PDF'.

# ONLINE DATA DISSEMINATION

Malaysia Energy Information Hub ▶ Publications

-  [Draft - National Energy Balance 2014 \(Password Protected\)](#) New
-  [Performance and Statistical Information on Electricity Supply Industry in Malaysia 2014](#) New
-  [Malaysia Energy Statistics Handbook 2015](#) New
-  [National Energy Balance 2013](#) New
-  [Industri Pembekalan Elektrik di Malaysia - Maklumat Prestasi dan Statistik 2013](#) New
-  [Malaysia Energy Statistics Handbook 2014](#) New
-  [Piped Gas Distribution Industry Statistics 2013](#) New
-  [Statistik Industri Pengagihan Gas Berpaip 2012](#)
-  [Industri Pembekalan Elektrik di Malaysia - Maklumat Prestasi dan Statistik 2012](#)
-  [National Energy Balance 2012](#)
-  [Statistik Industri Pengagihan Gas Berpaip 2011](#)
-  [Industri Pembekalan Elektrik di Malaysia - Maklumat Prestasi dan Statistik 2011](#)
-  [National Energy Balance 2011](#)
-  [National Energy Balance 2010](#)
-  [Electricity Supply Industry in Malaysia - Performance and Statistical Information 2010](#)
-  [Industri Pembekalan Elektrik di Malaysia - Maklumat Prestasi dan Statistik 2010](#)
-  [Electricity Supply Industry in Malaysia - Performance and Statistical Information 2009](#)
-  [Electricity Supply Industry in Malaysia - Performance and Statistical Information 2008](#)
-  [Electricity Supply Industry in Malaysia - Performance and Statistical Information 2007](#)
-  [Electricity Supply Industry in Malaysia - Performance and Statistical Information 2006](#)
-  [Interim Report on the Performance of the Electricity Supply Services in Malaysia \(for the first half year of 2010\)](#)
-  [Report on Performance of the Electricity Supply Services in Malaysia 2005](#)



# BENEFITS

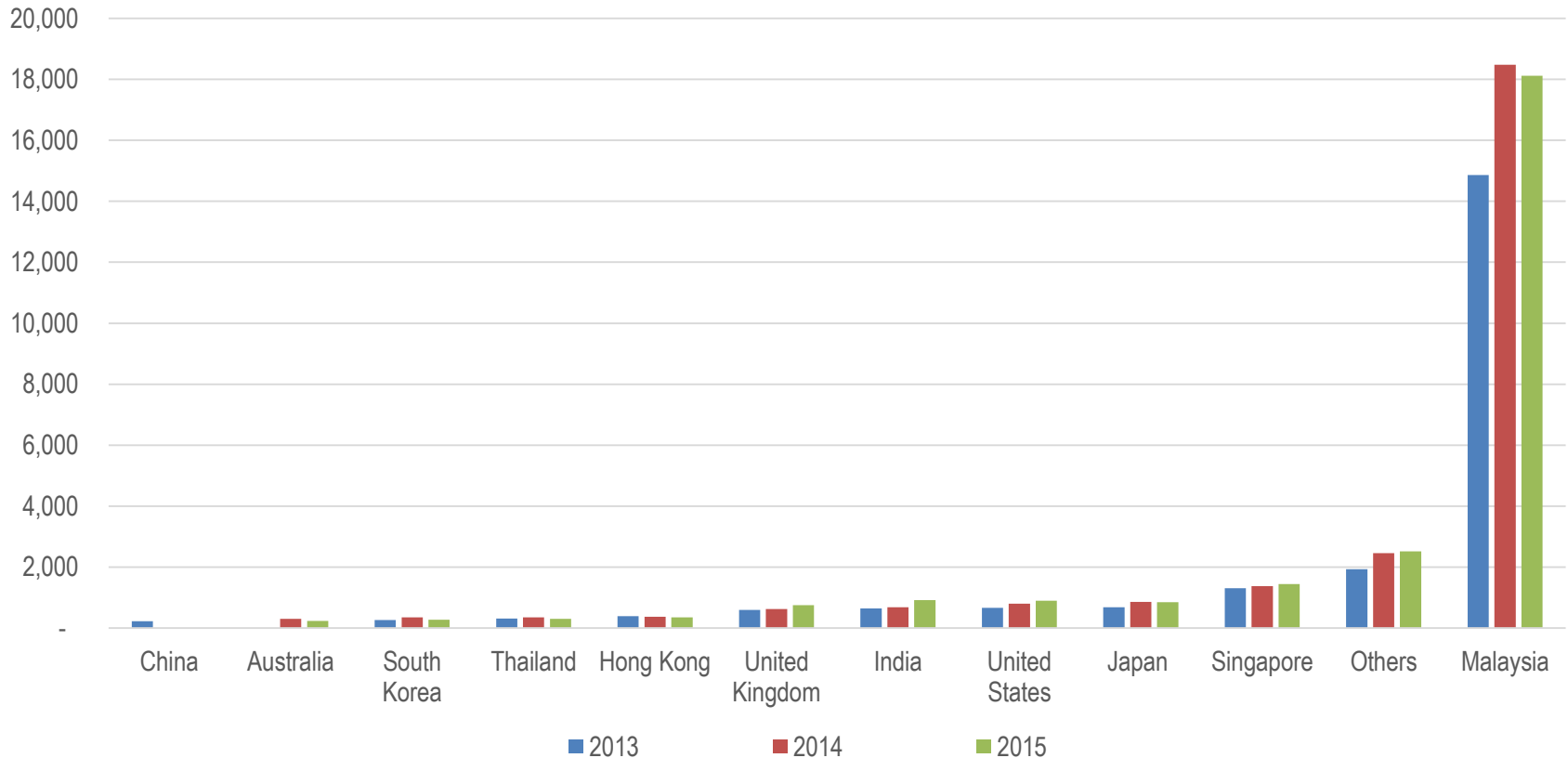
<b>Users of MEIH</b>	<b>Uses of MEIH</b>
Regulators	Energy policy development
Energy Professionals	Energy industry planning and development
Planners	Energy security risk management
Investor Analyst	Energy standards development
Industry Players	Environmental policy development
NGOs	Energy industry performance monitoring
General Public	Energy investment analysis
Researchers	General knowledge on energy sector
Energy Data Centre	Energy efficiency and conservation

# BENEFITS

ITEM	BEFORE	AFTER
1. Data collection	Through manual (email, fax and letters)	Through online
2. Data Quality	Manual checking	Automatic checking
3. Dissemination of Data	Publication	Online and interactive
4. Data Download	Need to be copy	Can be downloaded by excel and pdf
5. Report Preparation	Taking longer time	Saving time

# PAGE VIEWS

MEIH Visitors from 2013 until 2015 by Countries



- Total visitors from 1<sup>st</sup> January 2013 until 31<sup>st</sup> December 2013 was 21,842
- Total visitors from 1<sup>st</sup> January 2014 until 31<sup>st</sup> December 2014 was 26,617
- Total visitors from 1<sup>st</sup> January 2015 until 31<sup>st</sup> December 2015 was 26,620

**THANK YOU**