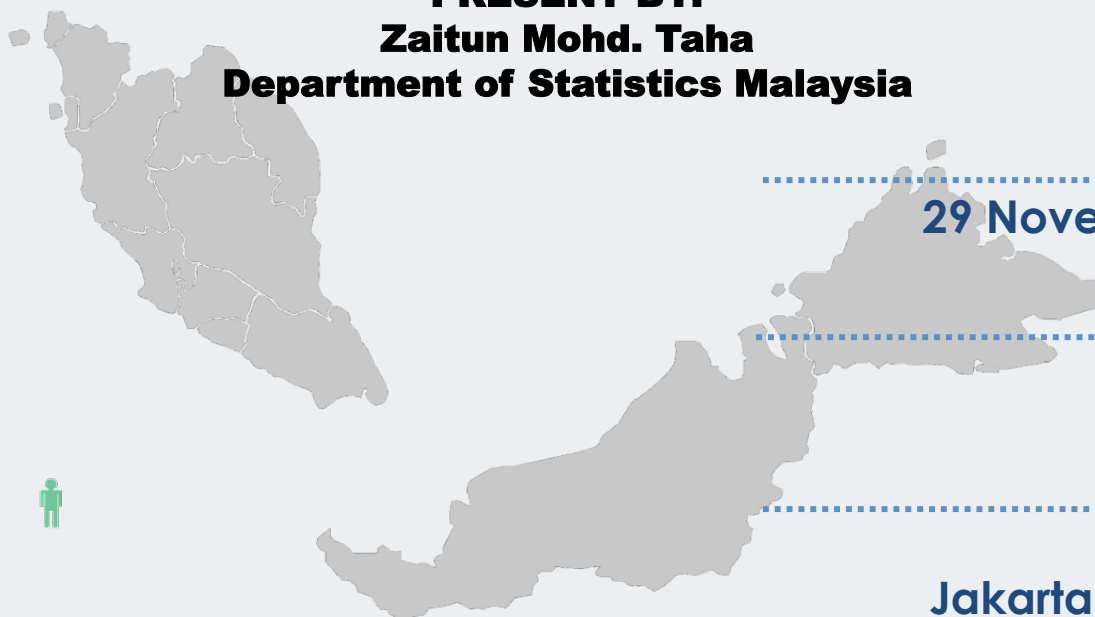


## REGIONAL CLOSING WORKSHOP SEEA



# MALAYSIA'S EXPERIENCE IN THE DEVELOPMENT OF SEEA – ENERGY

**PRESENT BY:**  
**Zaitun Mohd. Taha**  
**Department of Statistics Malaysia**



**Date :**

29 November 2017

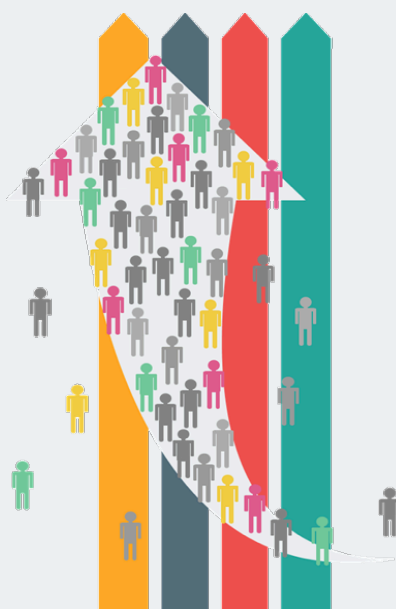


10.30 a.m



**Venue :**

Hotel Alilia  
Jakarta, Indonesia



# PRESENTATION OUTLINE



1

## BACKGROUND

2

## METHODOLOGY

- DATA SOURCES
- BASIC ACCOUNT STRUCTURE
- METHODOLOGY

3

## FINDINGS

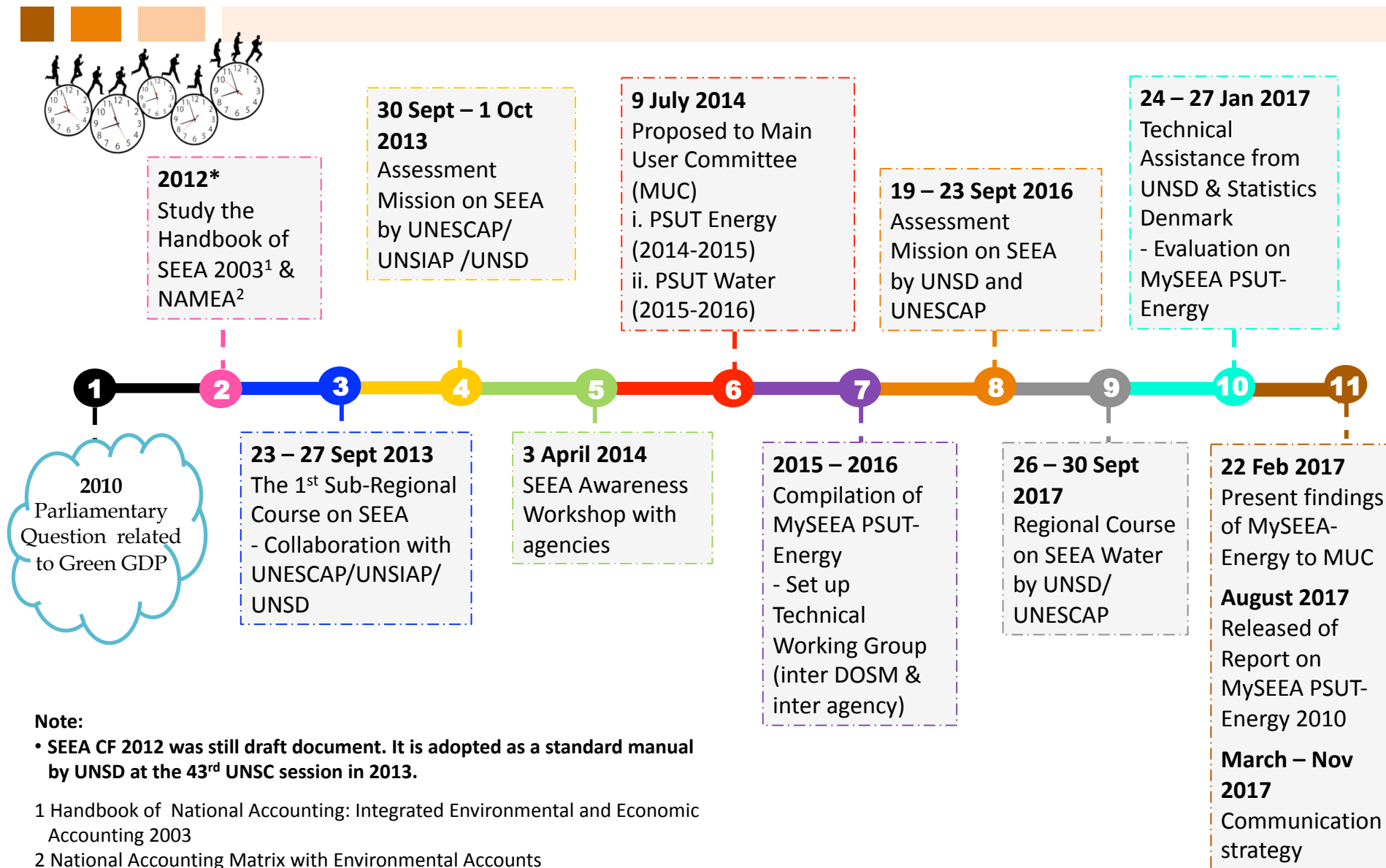
4

## ISSUES & CHALLENGES

5

## MILESTONE & WAY FORWARD

# JOURNEY OF SEEA MALAYSIA



## Note:

- SEEA CF 2012 was still draft document. It is adopted as a standard manual by UNSD at the 43<sup>rd</sup> UNSC session in 2013.

1 Handbook of National Accounting: Integrated Environmental and Economic Accounting 2003

2 National Accounting Matrix with Environmental Accounts

# INTERNATIONAL MANUAL AND REFERENCE

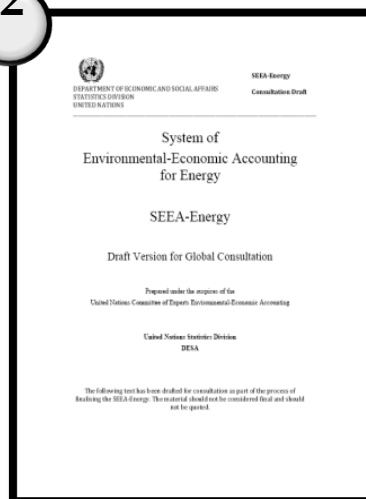


1



SEEA - Central Framework

2



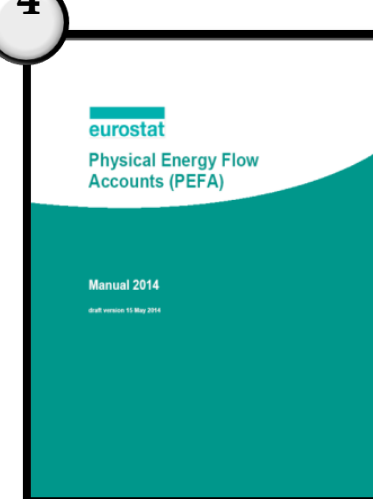
SEEA - Energy

3



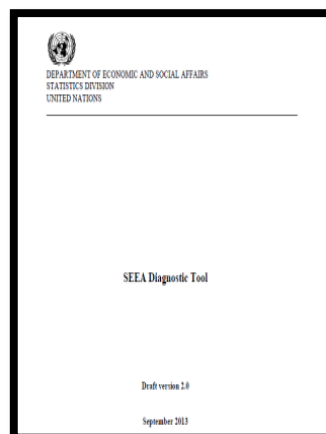
SEEA - Applications & Extensions

4

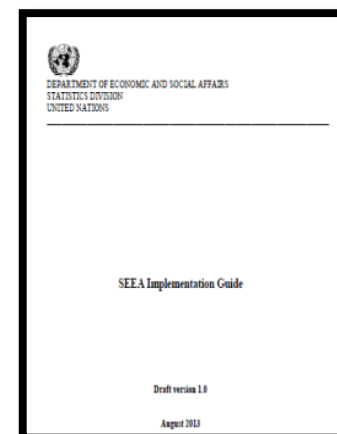


PEFA manual, Eurostats

## Supporting Document



SEEA-Diagnostic Tool

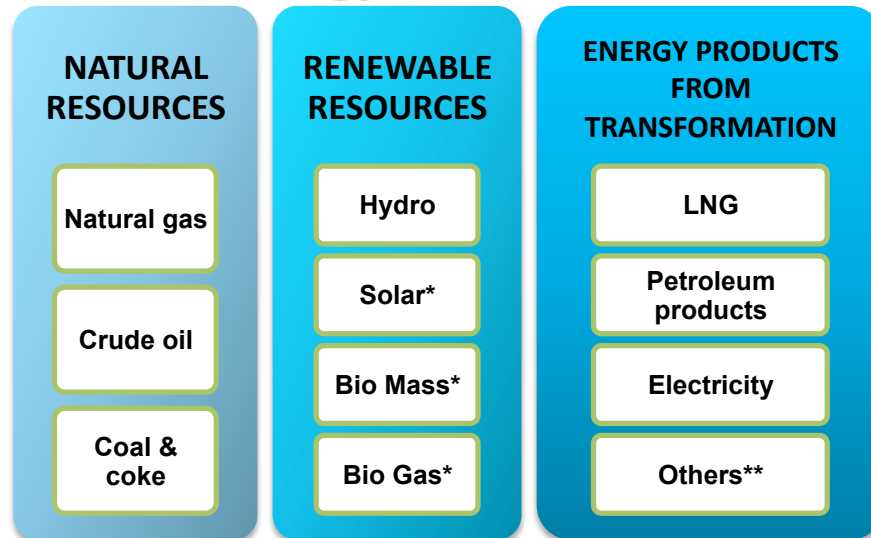


SEEA-Implementation Guide

# MySEEA PSUT-ENERGY

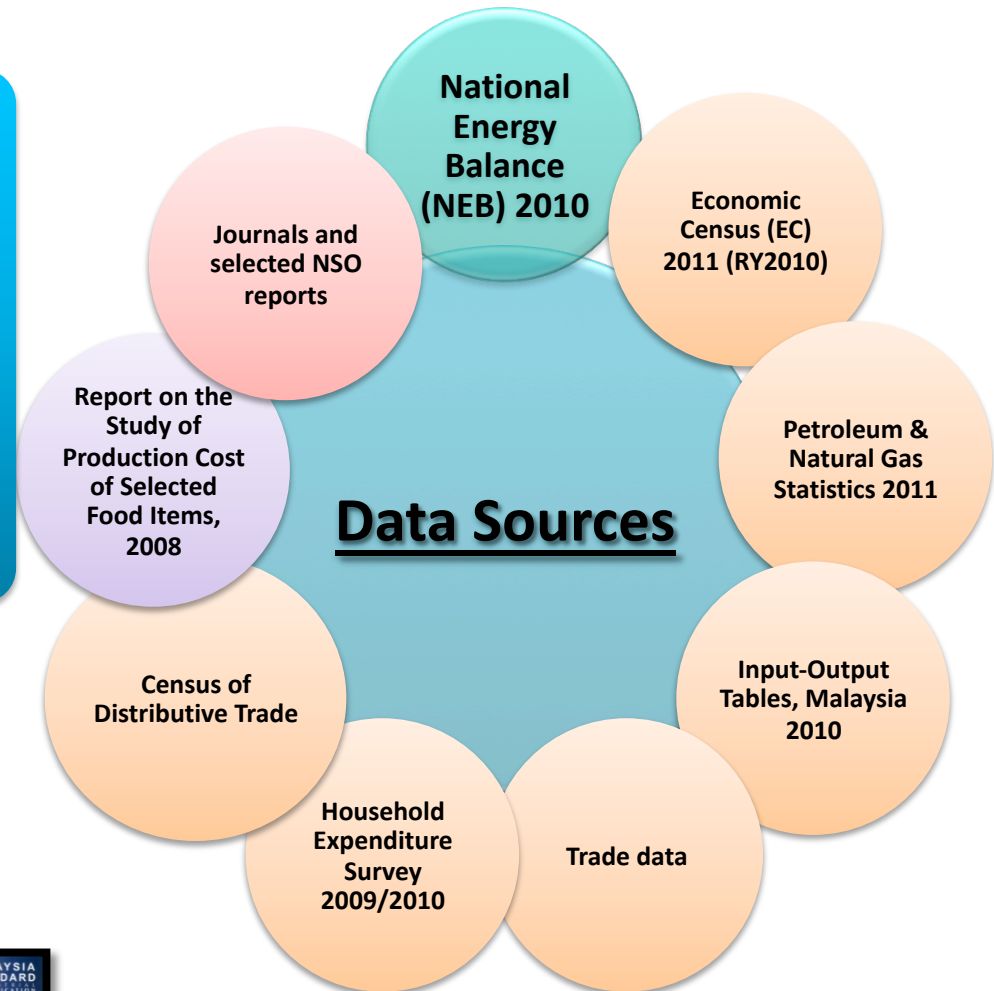


## Energy Resources

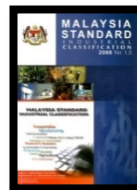


**Note:** \* will be covered on MySEEA PSUT-Energy 2015  
 \*\*Others refer to additive (which are used as refinery intake)  
 e.g. imported Light Diesel, Crude Residuum & Middle East Residue.

## Data Sources



## Classification



# BASIC STRUCTURE



## Energy Balance

Item code	Flows	Energy products					of which: Renewables
		E1	E2	E3	...	Total	
1.1	Primary production						
1.2	Imports						
1.3	Exports						
1.4	International Bunkers						
1.5	Stock change (closing-opening)						
1	Total energy supply						
2	Statistical difference						
3	Transfers						
4	Transformation processes						
5	Energy Industries own use						
6	Losses						
7	Final consumption						
7.1	Final energy consumption						
7.1.1	Manufacturing, const. and non-fuel mining industries, Total						
	Iron and steel						
	Chemical and petrochemical						
	Other Industries						
7.1.2	Transport, total						
	Road						
	Rail						
	Domestic aviation						
	Domestic navigation						
	Other Transport						
7.1.3	Other, total						
	Of which: Agriculture, forestry and fishing						
	Households						
7.2	Non energy use						

Supply      Use      Losses

## SEEA PSUT-Energy Account

Supply	Industries	Households	Accumulation	Rest of the World	Environment	Total
Energy from natural input					Energy inputs from the environment	Total supply of energy from natural inputs
Energy product	Output			Imports		Total supply of energy products
*Conversion losses	Conversion losses generated by industry	Conversion losses generated by household consumption	Conversion losses from accumulation	Conversion losses received from the rest of the world	Conversion losses recovered from the environment	Total supply of conversion losses

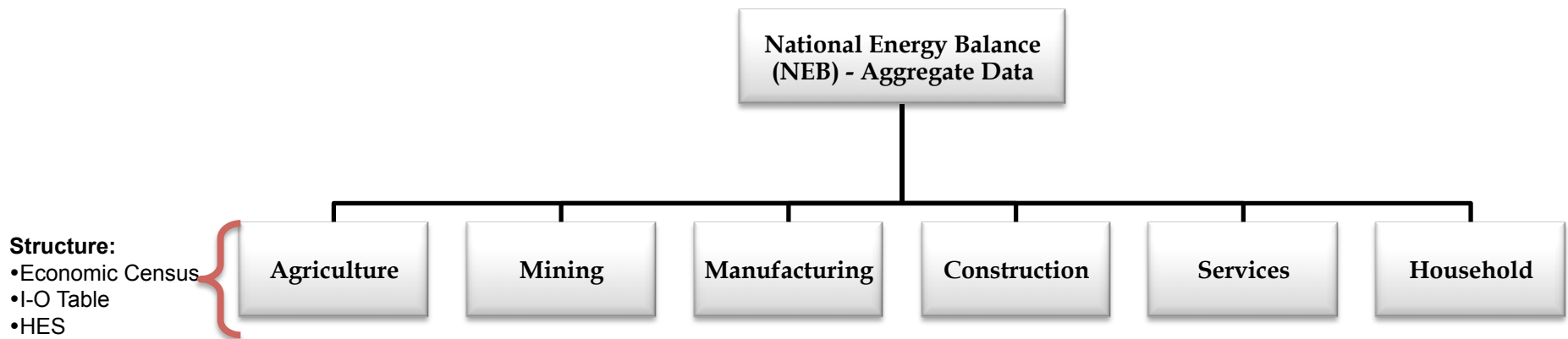
Use	Industries	Households	Accumulation	Rest of the World	Environment	Total
Energy from natural input	Extraction of energy from natural input					Total use of energy from natural inputs
Energy product	Intermediate consumption	Household consumption	Changes in inventories	Exports		Total use of energy products
*Conversion losses	Collection & treatment of conversion losses		Accumulation of conversion losses	Conversion losses sent to the rest of the world	Conversion losses flows direct to environment	Total use of conversion losses

\*Conversion losses: i) Natural resource losses are natural resource inputs that do not subsequently become incorporated into production processes and, instead, immediately return to the environment.(SEEA CF-3.98) ii) 4 types of losses i.e. losses during extraction, losses during distribution, losses during storage and losses during transformation. (SEEA CF-3.100)

# METHODOLOGY



## Top-down approach

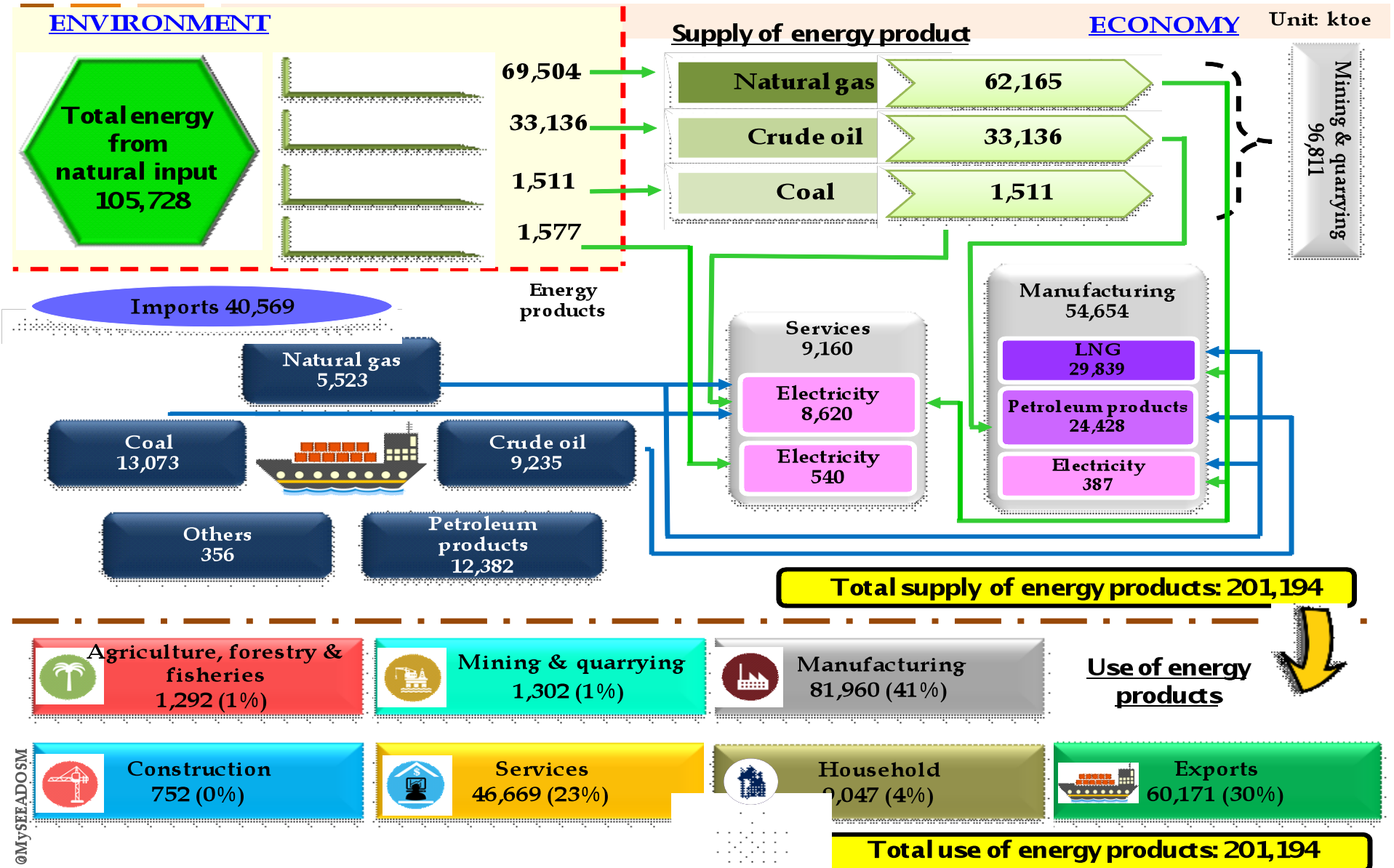


### Note:

Industry is based on Malaysia Standard Industrial Classification 2008 adopted from ISIC Ver.4.



# ENERGY PHYSICAL FLOW



©MySEADOSM



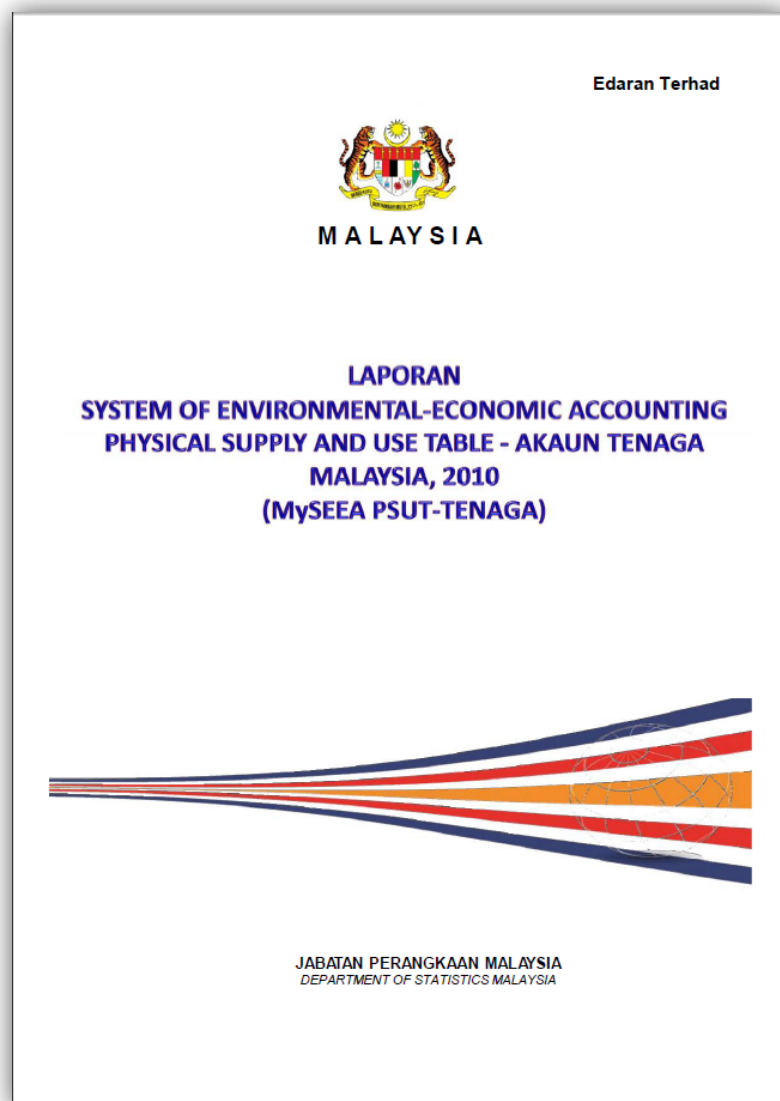
# TABLE OF MySEEA PSUT – ENERGY 2010



KTOE

Item	Total Supply	Domestic Supply	Imports	Total Use	Industry	Household	Change in inventory (Accumulation)	Exports
<b>Total</b>	<b>201,194</b>	<b>160,625</b>	<b>40,569</b>	<b>201,194</b>	<b>132,333</b>	<b>9,047</b>	<b>(359)</b>	<b>60,171</b>
<b>Crude Oil</b>	<b>42,370</b>	<b>33,136</b>	<b>9,235</b>	<b>42,370</b>	<b>25,358</b>	<b>-</b>	<b>337</b>	<b>16,676</b>
<b>Natural Gas</b>	<b>67,688</b>	<b>62,165</b>	<b>5,523</b>	<b>67,688</b>	<b>66,266</b>	<b>82</b>	<b>-</b>	<b>1,340</b>
<b>Coal &amp; coke</b>	<b>14,584</b>	<b>1,511</b>	<b>13,073</b>	<b>14,584</b>	<b>14,777</b>	<b>-</b>	<b>(255)</b>	<b>62</b>
<b>Liquified Natural Gas</b>	<b>29,839</b>	<b>29,839</b>	<b>-</b>	<b>29,839</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>29,839</b>
<b>Petroleum Product</b>	<b>36,810</b>	<b>24,428</b>	<b>12,382</b>	<b>36,810</b>	<b>18,115</b>	<b>7,028</b>	<b>(441)</b>	<b>12,108</b>
<b>Hydropower</b>	<b>540</b>	<b>540</b>	<b>-</b>	<b>540</b>	<b>540</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Electricity</b>	<b>9,007</b>	<b>9,007</b>	<b>-</b>	<b>9,007</b>	<b>7,056</b>	<b>1,937</b>	<b>-</b>	<b>13</b>
<b>Others</b>	<b>356</b>	<b>-</b>	<b>356</b>	<b>356</b>	<b>222</b>	<b>-</b>	<b>-</b>	<b>133</b>

# REPORT OF MySEEA PSUT-ENERGY



## Main contents:

1.

- Methodology

2.

- Strategic Plan for the Development of SEEA Malaysia

3.

- Issues & Challenges

4.

- Findings

### Purpose:

To document experience as a reference & guideline for the future reference



# POLICIES RELATED TO ENVIRONMENT



Pursuing green growth for sustainability and resilience

Green growth refers to growth that is **resource-efficient, clean, and resilient**. It is a commitment to pursue development in a more sustainable manner from the start



Strengthening infrastructure to support economic expansion

Infrastructure development ensures that the *rakyat* **have access to essential amenities and services such as transport, communications, electricity and clean water.** Better integration.....

# ISSUES & CHALLENGES



## Issues & challenges

### Knowledge

- SNA and IO concept
- Biophysical/environmental subject & term
- NEB concept, compilation methods & coverage

### Data

- Data scattered at the various agencies
- Different scope, coverage & classification

### Technical matters

To identified best estimation methods and techniques on:

- Losses
- Balancing
- Rearrange of supply & use data from NEB to SEEA

### Exchange of focal person in agencies

### Communication Strategy

- Convincing the policy makers on the relevance of SEEA for development planning in Malaysia
- How to present SEEA in a simple and informative way to the public/user

# MILESTONE



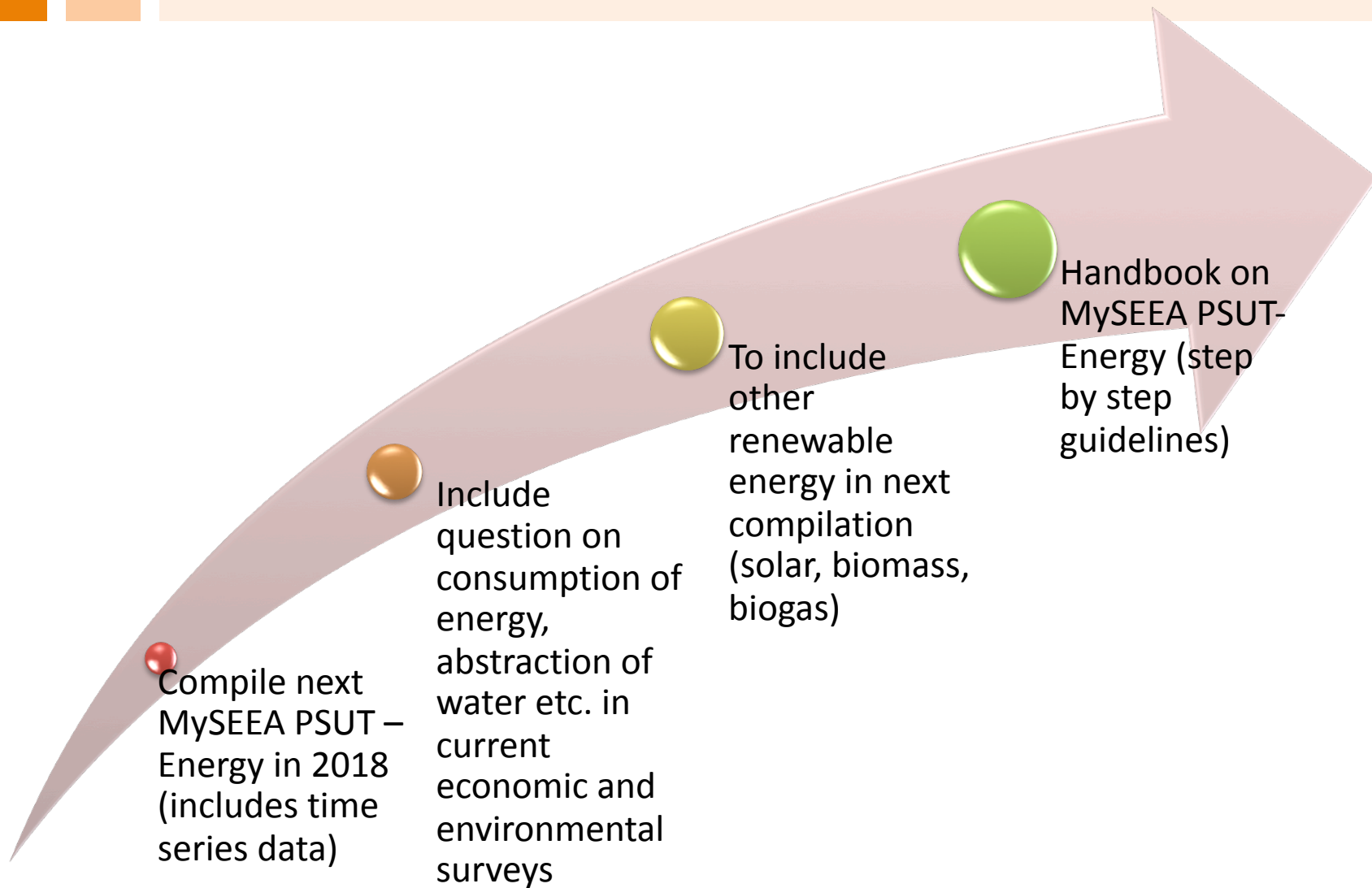
Publication on  
MySEEA PSUT-  
Energy was  
released in August  
2017

Additional officers  
to compile SEEA  
account in DOSM  
has been approved  
by government

Recognition by international  
by inviting DOSM to share  
experience in compiling the  
account

- 2<sup>nd</sup> APES Week in Bangkok Thailand, May 2017
- Inter-regional Workshop in Latin America, the Caribbean & Asia-Pacific Countries, Santiago, Chile, July 2017

# WAY FORWARD







**Welcoming 62<sup>nd</sup>  
ISI WORLD STATISTICS  
CONGRESS 2019**

**18 - 23 OGOS 2019 | KUALA LUMPUR**

“Statistics are the barometer that reflects  
the pulse of the country”

Dr. Mohd Uzir Bin Mahidin, The Star, 14<sup>th</sup>  
July 2016

**DEPARTMENT OF STATISTICS MALAYSIA**  
Blok C6, Kompleks C,  
Pusat Pentadbiran Kerajaan Persekutuan,  
62514 Putrajaya  
Tel : 03-8885 7000  
Faks : 03-8888 9248  
E-mel : [jpbkcp@stats.gov.my](mailto:jpbkcp@stats.gov.my)

