

ACE's Energy Data Collection

**16th APEC Workshop on Energy Statistics
10-12 July 2018
Minato-ku, Tokyo, JAPAN**

Presented by:

Visal Veng

Senior Officer Energy Research Analyst

Policy Research and Analytics Programme

ASEAN Centre for Energy



**One Community
for Sustainable
Energy**



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About ACE



Think Tank

- Identifying and surfacing innovative solutions



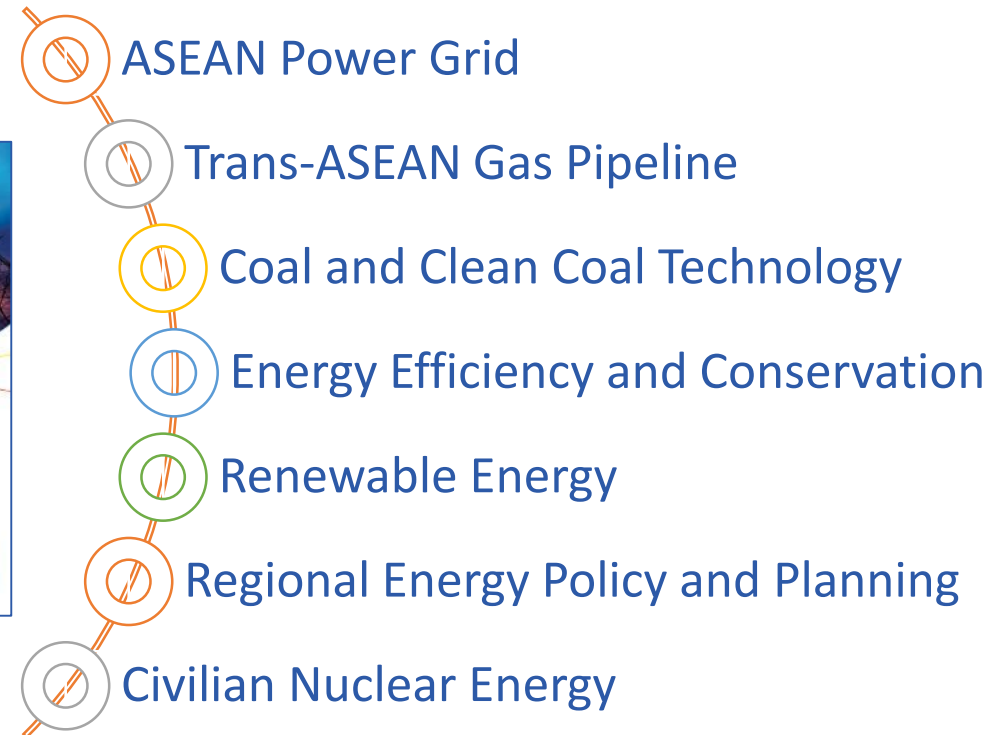
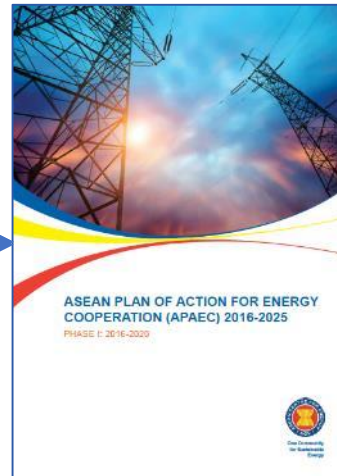
Catalyst

- Unify and strengthen ASEAN Energy Cooperation and Integration

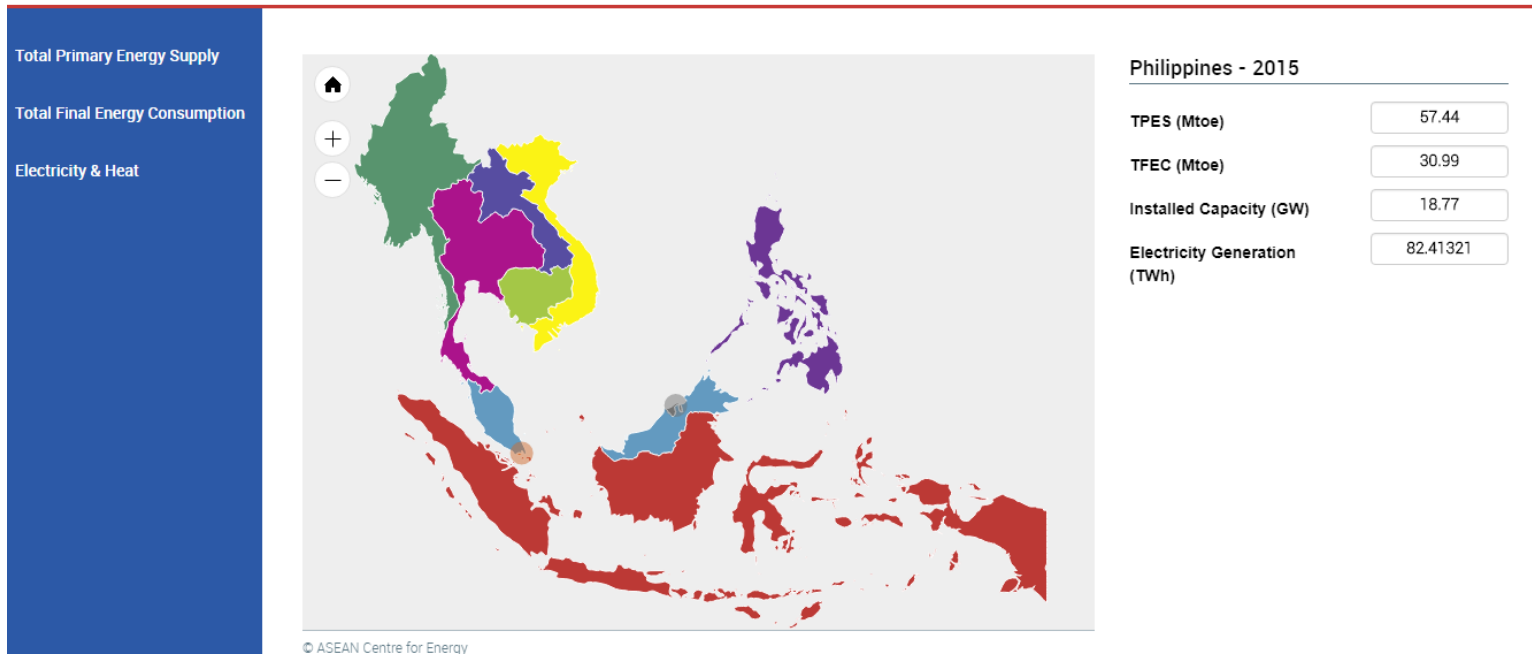


Data and Knowledge Hub

- Provide a knowledge depository for AMS



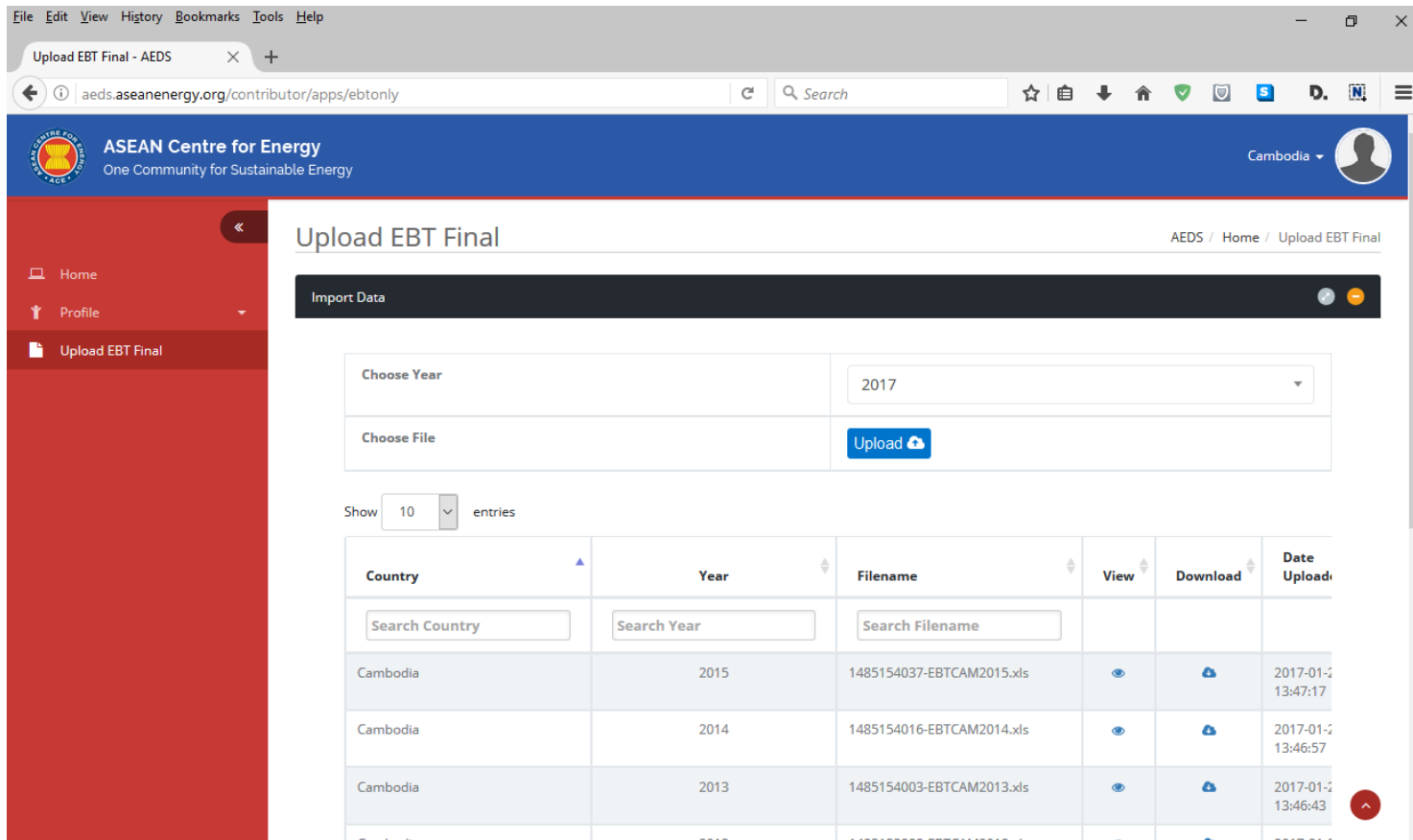
ASEAN Energy Database



<http://aeds.aseanenergy.org>

- ASEAN energy data hub.
- 3 layers of users: public, registered, contributors.
- Updated 2004-2015* data of 10 AMS on TPES, TFEC and Electricity.
- Enhancement process for more verified and comprehensive data with robust system.

ASEAN Energy Database - Contributor



The screenshot shows the 'Upload EBT Final' page on the ASEAN Energy Database Contributor interface. The page has a red sidebar with navigation options: Home, Profile, and Upload EBT Final. The main content area is titled 'Upload EBT Final' and includes an 'Import Data' section with a 'Choose Year' dropdown set to 2017 and a 'Choose File' section with an 'Upload' button. Below this is a table listing uploaded files with columns for Country, Year, Filename, View, Download, and Date Upload.

Country	Year	Filename	View	Download	Date Upload
<input type="text" value="Search Country"/>	<input type="text" value="Search Year"/>	<input type="text" value="Search Filename"/>			
Cambodia	2015	1485154037-EBTCAM2015.xls			2017-01-2 13:47:17
Cambodia	2014	1485154016-EBTCAM2014.xls			2017-01-2 13:46:57
Cambodia	2013	1485154003-EBTCAM2013.xls			2017-01-2 13:46:43

- As contributors, the AMS experts would upload the all the questionnaires to generate the EBT inside.
- The five questionnaires are Coal, Oil, Gas, Renewable and Electricity. The separated one is oil price which is not a part of materials to generate electricity.
- The contributor would upload them annually.

ASEAN Energy Database - Users

Total Primary Energy Supply

Total Final Energy Consumption

Electricity & Heat

Graph

Table

Search Parameters

Country

ASEAN

Year

2004

to

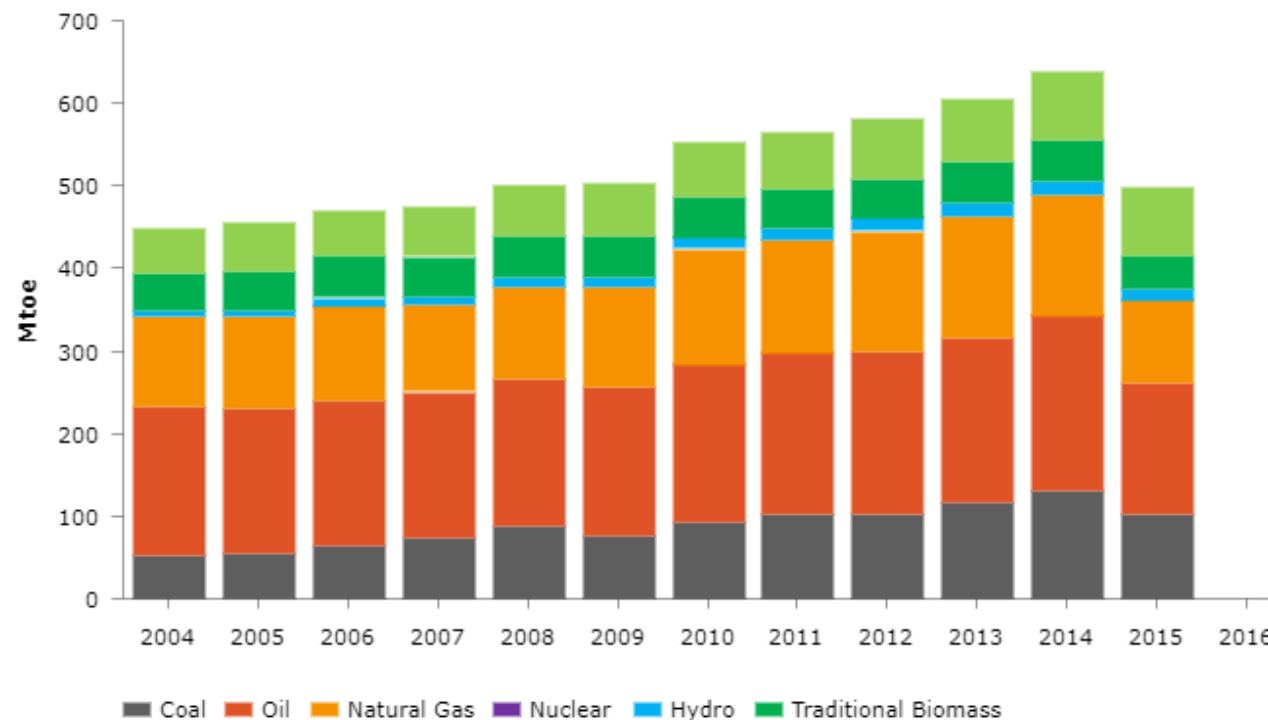
2016

By/Category

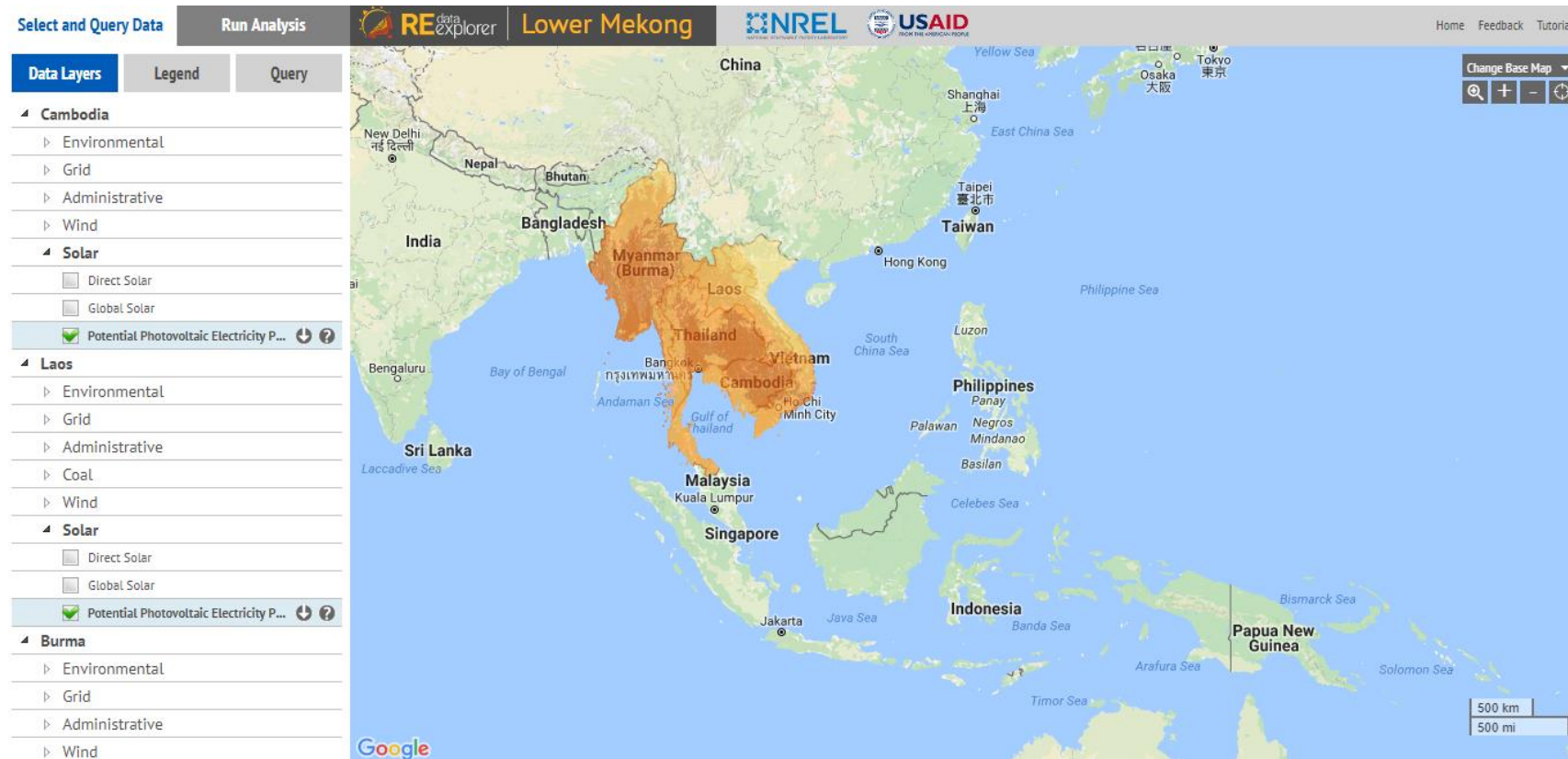
Total Supply (by fuel)

GENERATE

Total Primary Energy Supply
ASEAN 2004 - 2016
Total Supply (by fuel)



REDE – A tools for Enhancement of AEDS



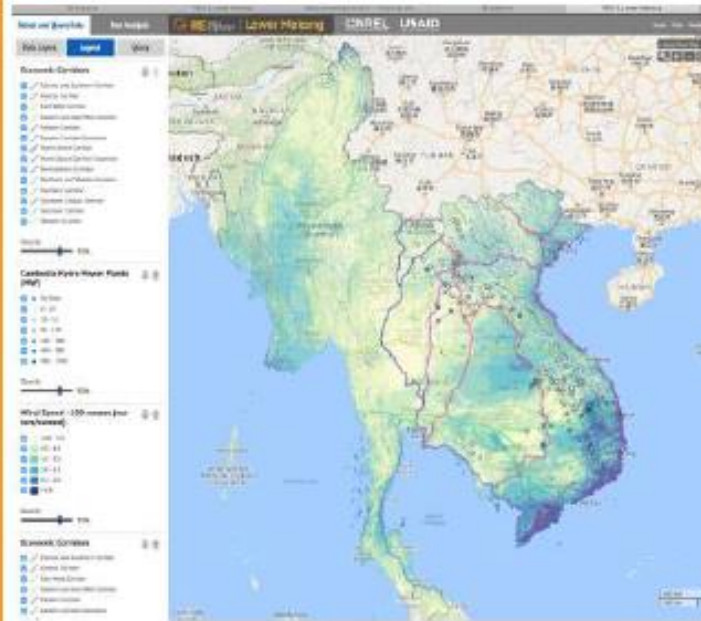
USAID Workshop – March, USAID team introduced REDE to AMS, where

- 1) Resource map that shows RE potential in each country/region to be further utilised as reference for power planning
- 2) Provides sets of data to balance the supply and demand systems, as response to the existing RE system's inability to control voltage and frequency

Data Availability for AEDS and REDE

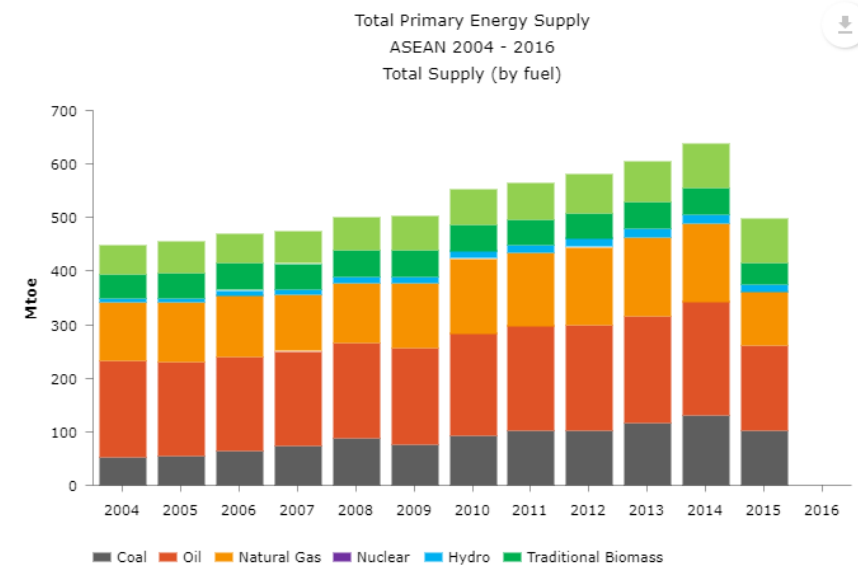
The RE Data Explorer includes:

- Renewable resource data
 - Gridded solar and wind resource data
 - Biomass, geothermal, hydro, and conventional resources can also be added
- Base data
 - Elevation and slope
 - Land use/land cover
 - Protected areas
 - Political boundaries
 - Cities/towns
 - Rivers and lakes
- Infrastructure data
 - Transmission lines
 - Roads and railroads
 - Power plants
- Other data of interest, for example,
 - Meteorological stations
 - Rural development priorities (schools, electrification, etc.)



- Total Primary Energy Supply
- Total Final Energy Consumption
- Electricity & Heat

Graph Table



ASEAN interest to use REDE does not only come from its member states, but also from HAPUA, in attempt to green the grid (RE).

ASEAN Energy Database System (AEDS)

ASEAN Questionnaires



5 + 1 Q Concepts

Adopted from APEC's Questionnaires

5 Questionnaires

+ 1 Questionnaire



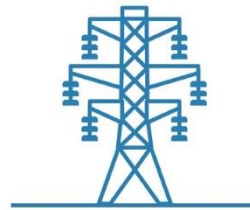
Oil



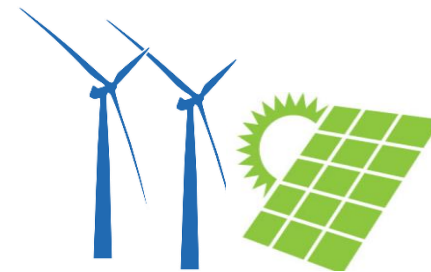
Natural Gas



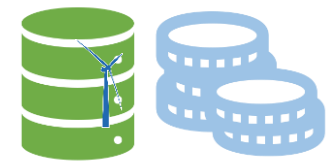
Coal



Electricity



Renewable Energy



Energy Prices

Each Q has:

Primary Supply

Transformation

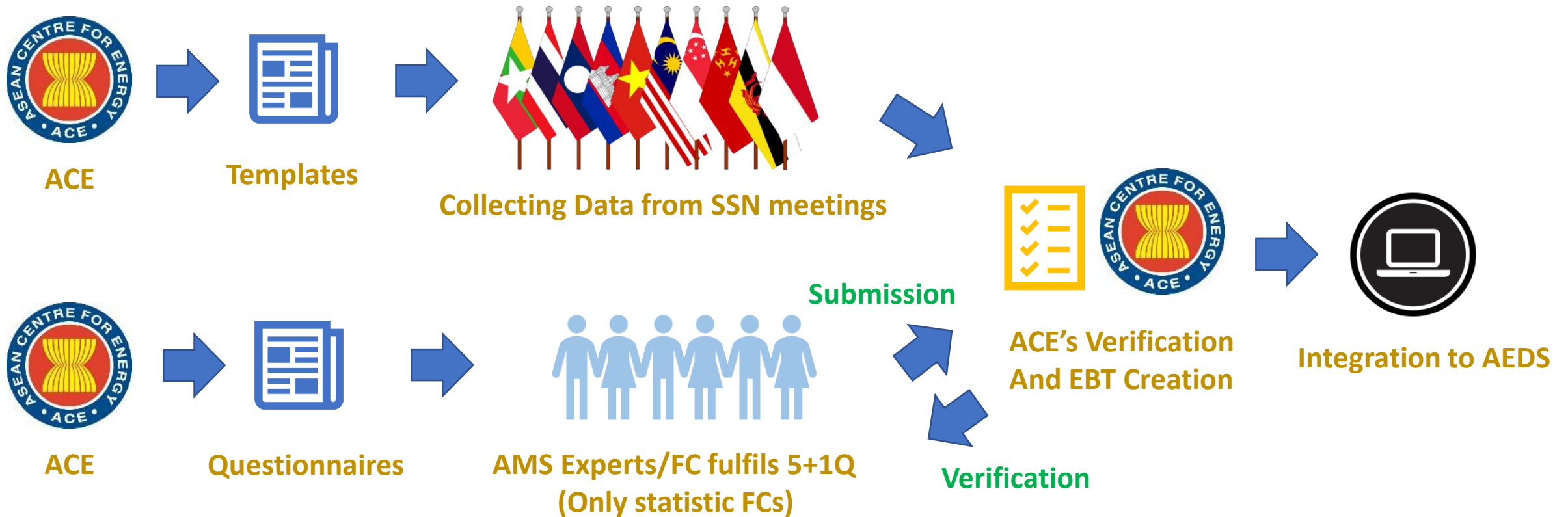
Import Export

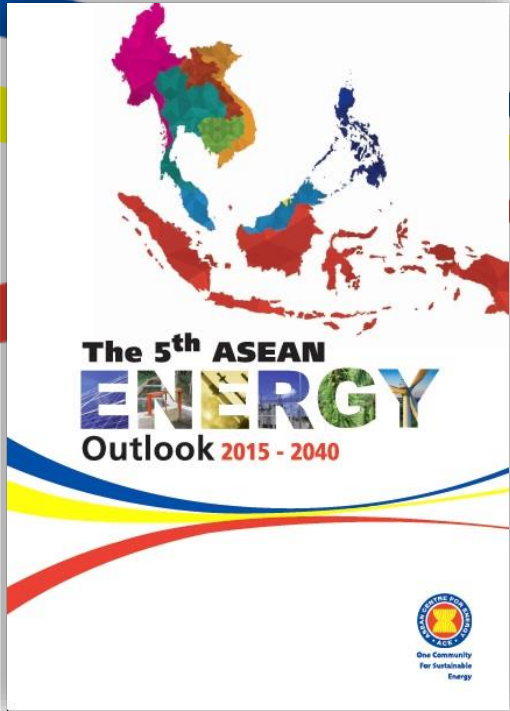
Final
Consumption

Specific Sheets: Conversion
for RE or Gas Process

ASEAN Energy Database System (AEDS)

How ACE Updates the Data and Verify Our Data





ACE (2017). *The 5th ASEAN Energy Outlook (AEO5)*. ASEAN Centre for Energy (ACE), Jakarta.

This report is available for download from www.aseanenergy.org/publications

For further information or to provide feedback, please contact ACE at secretariat@aseanenergy.org



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