Collection/Estimation of Energy and Activity Indicators for Energy Efficiency

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June 28-29, 2021

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Energy Policy and Planning Bureau
Department of Energy, Philippines
2019 Reference Energy System, in MTOE
Energy Indicators in Supply Sectors

Other indicators to establish and monitor

How much energy is consumed
a. To produce a unit of each Primary Energy?
b. To process and store each Primary Energy?
c. To transport/deliver each unit of Primary Energy?
## Energy Indicators in Demand Sectors

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Energy Indicators in Buildings and Services

What is the breakdown of energy use in buildings?
What is the energy use per type of building?
How to handle multiple-use buildings?
Energy Indicators in Buildings and Services
## Energy Indicators in Industry

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Energy Indicators in Industry

- Industries have different levels of energy use.
- Specific energy consumption can be reported in total and per fuel basis.
- Challenges exist in reporting specific energy consumption for industries with multiple products e.g. mining that is able to produce copper, gold, etc.
Energy in all modes of transport is not just to move people but also to deliver goods and services.
Programs & Initiatives on EE&C

R.A. No. 11285: Energy Efficiency and Conservation Act

What indicators can be used to measure the success of policies and programs?

Professional Competency and Services
- Certified Energy Conservation Officer (CECO)
- Certified Energy Manager (CEM)
- Certified Energy Auditor (CEA)
- Energy Service Company (ESCO)

Designated Establishments
- Mainstreaming of energy efficient technologies in energy intensive industries to reduce energy consumption
- Engagement of Professional Competency and Services in Designated Establishments

Government Energy Management Program
- Inter-Agency Energy Efficiency and Conservation Committee (IAE ECC)
- Introduction of energy efficient systems for electrical and mechanical equipment
- Government Vehicle Re-fleeting Using Next Generation Vehicles

Energy Performance Rating
- PESLP
- Minimum Energy Performance for Products (MEPP)

Demand Side Management
- Effective load management
- Peak to off-peak migration
- Use of Energy Efficiency (EE) technologies and systems
Programs & Initiatives on EE&C

Promoting Local Energy Planning

OBJECTIVE:

- Incorporate Energy Policies and Projects in the Local Legislative and Executive Agenda
- Facilitate implementation of Joint memo Circular of DILG-DOE No. 2020-01
- Supports RA 7160 Local Government Code for self-reliance in the delivery of basic services, ranging from agriculture, health, hygiene, education and other social services.

Existing LREP Areas with DOE

<table>
<thead>
<tr>
<th>Area</th>
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<tbody>
<tr>
<td>Palawan</td>
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<tr>
<td>Iloilo</td>
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<td>Lanao del Sur (preparatory stage)</td>
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MEMORANDUM OF UNDERSTANDING BETWEEN THE DEPARTMENT OF ENERGY AND THE PROVINCIAL GOVERNMENT OF PALAWAN FOR THE “LOCALIZED RENEWABLE ENERGY PLANNING PROJECT” IN THE PROVINCE OF PALAWAN

This MEMORANDUM OF UNDERSTANDING (MoU) entered into by and between:

The DEPARTMENT OF ENERGY, a government agency of the Government of the Republic of the Philippines, created and organized under and by virtue of Republic Act 7638, as amended, with principal address at Energy Center, Rizal Drive, Bonifacio, represented by its Secretary, ALFONSO G. CUSI, hereinafter referred to as “DOE”;

and

The PROVINCIAL GOVERNMENT OF PALAWAN, with offices at Puerto Princesa Palawan, herein represented by its Governor, ELIANE LOZANO, hereinafter referred to as “PGP”.

In the implementation of this Agreement, the DOE and the Palawan Governor collectively as “Parties” and individually as “Party”.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter, the “Memorandum”), entered into by and between:

The DEPARTMENT OF ENERGY, an agency of the Government of the Republic of the Philippines, as amended, with principal place of office at the Energy Center, Rizal Drive corner 34th Street, Bonifacio Global City, Taguig City; and

The PROVINCIAL GOVERNMENT OF ILOILO, a local government unit with principal place of office at the New Iloilo Provincial Capitol Building, Iloilo City, Province of Iloilo, both having signature authority, who are duly authorized by Provincial Board Resolution No. 2019-533 to represent the said local government unit in this Memorandum, hereinafter referred to as “PGI”;

In the implementation of this Memorandum, DOE and PGI are hereinafter collectively referred to as “Parties” and individually as “Party”.

Department of Energy
Empowering the Filipinos
Programs & Initiatives on EE&C

Media Campaign for Consumer Participation

#EPowerMo disseminates timely information on safety, security and consumer choice

#EnergyAbility to make EE and the utilization of RE and other advance technologies a way of life for Filipinos

#EnergyhiyangAtin to increase awareness towards achieving self-sufficiency, sustainable development and resiliency of infrastructures
Challenges in EE&C

- Conduct of Periodic Sectoral Surveys
- Conduct of Energy Audits
- Identification of Appropriate Energy Indicators
Collection/Estimation of Energy and Activity Indicators for Energy Efficiency

19th APEC Workshop on Energy Statistics
June 28-29, 2021

Director Jesus T. Tamang
Energy Policy and Planning Bureau
Department of Energy, Philippines