Energy Efficiency Policy

"E-Power Mo"

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I. GOVERNMENT ENERGY MANAGEMENT PROGRAM (GEMP)

II. ENERGY SERVICE COMPANY (ESCO)

III. PHILIPPINE ENERGY STANDARD & LABELING (PESLP)

IV. PHILIPPINE MINIMUM ENERGY PERFORMANCE PROGRAM (PMEPP)
The Many Benefits of Energy Efficiency & Conservation

Impacts of Energy Efficiency Improvements

- Energy
  - Energy Savings
  - Energy Delivery
  - Energy Security

- Economic
  - Energy Prices
  - Public Budgets
  - Employment
  - Disposable Income
  - Poverty Alleviation
  - Industrial Productivity
  - Asset Values
  - Resource Management
  - Health and Well-being

- Environmental
  - GHG Emission
  - Local Air Pollution
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM


Goal:
To reduce Electricity and Fuel Consumption by 10% in reference to its average consumption in FY 2004 and FY 2005, respectively.
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

- Administrative Order 110 as amended

Government Energy Management Program (GEMP)

Task of DOE

Implementation Schemes

Task of NGAs

Common EE&C Measures

AGENCIES OF THE GOVERNMENT

- NGAs
- SUCs
- GFIs
- GOCCs
- GOV’T. HOSPITALS
- MILITARY FACILITIES
- GOV’T INSTRUMENTALITIES
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

Tasks of DOE

- Organize the Energy Audit Team
- Conduct spot checks and energy audit
- Monitor compliance of NGAs
- Post Agency Ratings
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

Task of DOE

IMPLEMENTATION SCHEMES

Task of NGAs

Common EE&C Measures

Implementation Schemes

- Information, Education and Communication Campaign
- Energy Audit/Survey
- Spot Checks
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

**Tasks of NGAs**

- Formulate Annual Energy Efficiency and Conservation Programs
  - Reduce electricity use by 10%
  - Reduce fuel use by 10%
- Submit Monthly Report of Consumption and Savings
- Designate Energy Conservation Officer
1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

Common EE&C Measures Implemented

- Set aircon at 25°C
- Shift to more efficient aircon technologies & inverter type
- Turn off office equipment when not in use
- Shift IBs and CFL to LED lamp
- Maximize natural lighting

Task of DOE

Implementation Schemes

Task of NGAs

COMMON EE&C MEASURES
POTENTIAL ENERGY SAVING OF 161 Government Buildings based on the Feasibility Study Conducted by the EUMB-EECD

PROPOSED PROJECT: Retrofitting of Lighting and A/C of 161 Government Buildings using LED and Inverter Type Aircon units, respectively.

- **161 Govt. Buildings**
  - Energy: 74.7 GWH
  - Deferred Cap.: 70 MW
  - Php 821.3 Million/Yr.
  - **SAVING**
  - Php 2.7 B
  - **ESTIMATED INVESTMENT**
  - 3.4 years
  - **PAYBACK PERIOD**

Equivalent to **14 Mall Of Asia MOA**
(Reference: 5 MW S/S cap. of MOA)

**ECONOMIC IMPACT**
- 1 x 70 MW unit VIRTUAL Power Plant
- Amount: $140 Million
- GHG Reduction: 38,226 MtCO₂
2. ENERGY SERVICE COMPANY (ESCO)

- DC 2008-09-0004

ESCO Accreditation Program

An Energy Service Company (ESCO) is a commercial business providing a broad range of energy solutions including designs and implementation of energy savings projects, retrofitting, energy conservation, energy infrastructure outsourcing, power generation and energy supply, and risk management.
2. ENERGY SERVICE COMPANY (ESCO)

ESCO Accreditation Program

- DC 2008-09-0004

Common Energy Efficiency Projects in Buildings:
1. Retrofitting of Lighting System
2. Retrofitting of Airconditioning system
3. Installation of Solar Rooftop PV

Performance Guarantee Contract:
1. Warranty and Maintenance throughout the Project Period
2. Energy Savings + Money

www.doe.gov.ph/peslp-ig?q=escos-accreditation
3. PHILIPPINE ENERGY STANDARD & LABELING

• **DC 2016-004-0005**

Philippine Energy Standard and labelling Program [Home Appliances and Motorized Vehicles]

Declaring compliance of Importers, Manufacturers, Distributors and Dealers of Electrical Appliances and other Energy Consuming Products with the Philippine Energy Standard and Labeling Program (PESLP) as a policy of the Government.
"It ensures that consumers have the right information they need to make the right choices when they purchase household appliances, lighting products, electric devices and motor vehicles"
To empower the consumer to choose the most fuel efficient vehicle in the market
4. MINIMUM ENERGY PERFORMANCE PROGRAM (MEP)

Proposed Department Circular

 Philippine Minimum Energy Performance (MEP)

Commercial, Industrial, & Transport Sectors

Directing the compliance of Commercial, Industrial and Transport establishments with the Philippine Minimum Energy Performance (MEP) Program as a Policy of the Government

Energy Saving Indicators:
- Building: kWhr/ Sqm
- Industrial: KTOE/Mt Products
- Transport: Liters/Km
4. MINIMUM ENERGY PERFORMANCE PROGRAM (MEP)

Proposed Department Circular

Philippine Minimum Energy Performance (MEP)

Commercial, Industrial, & Transport Sectors

To serve as:
- Reference Energy Consumption Benchmark or Energy Performance of a Building, Industrial, and Transport Sector

Users:
- Building / Plant Facility Engineers
- Architects
- Building Facility Administrators

Goal:
To save on Energy Consumption and Energy Cost
“As we are all consumers of energy, we have the power to lessen down our energy consumption without necessarily sacrificing the comfort, the productivity and the services it brought to our home, and workplaces”
Thank you

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