



Department of Energy



We have the **E**nergy Ability.

# Energy Efficiency POLICY

**"E - POWER MO"**

GrandXing Hotel, Iloilo  
10.09.2018

Art P. Habitan  
Division Chief,  
Energy Efficiency & Conservation Division,  
Energy Utilization Management Bureau



# CONTENTS

Energy  
Efficiency  
POLICY

- 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

- **Administrative Order 110** as amended

---

Government Energy  
Management Program  
(GEMP)

**Government  
Building Sector**



**Directing the Institutionalization of the Government Energy Management Program (GEMP).**

**Goal:**

To **reduce Electricity and Fuel Consumption by 10%** in reference to its average consumption in FY 2004 and FY 2005, respectively.

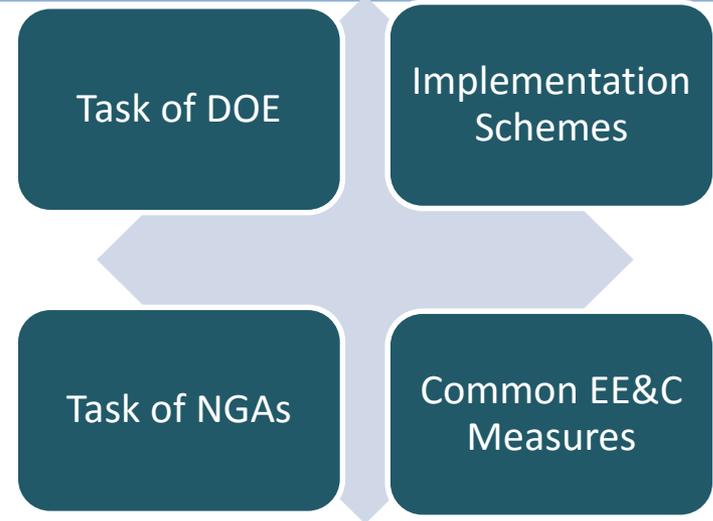


# 1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

- **Administrative Order 110** as amended

Government Energy Management Program (GEMP)

**Government Building Sector**

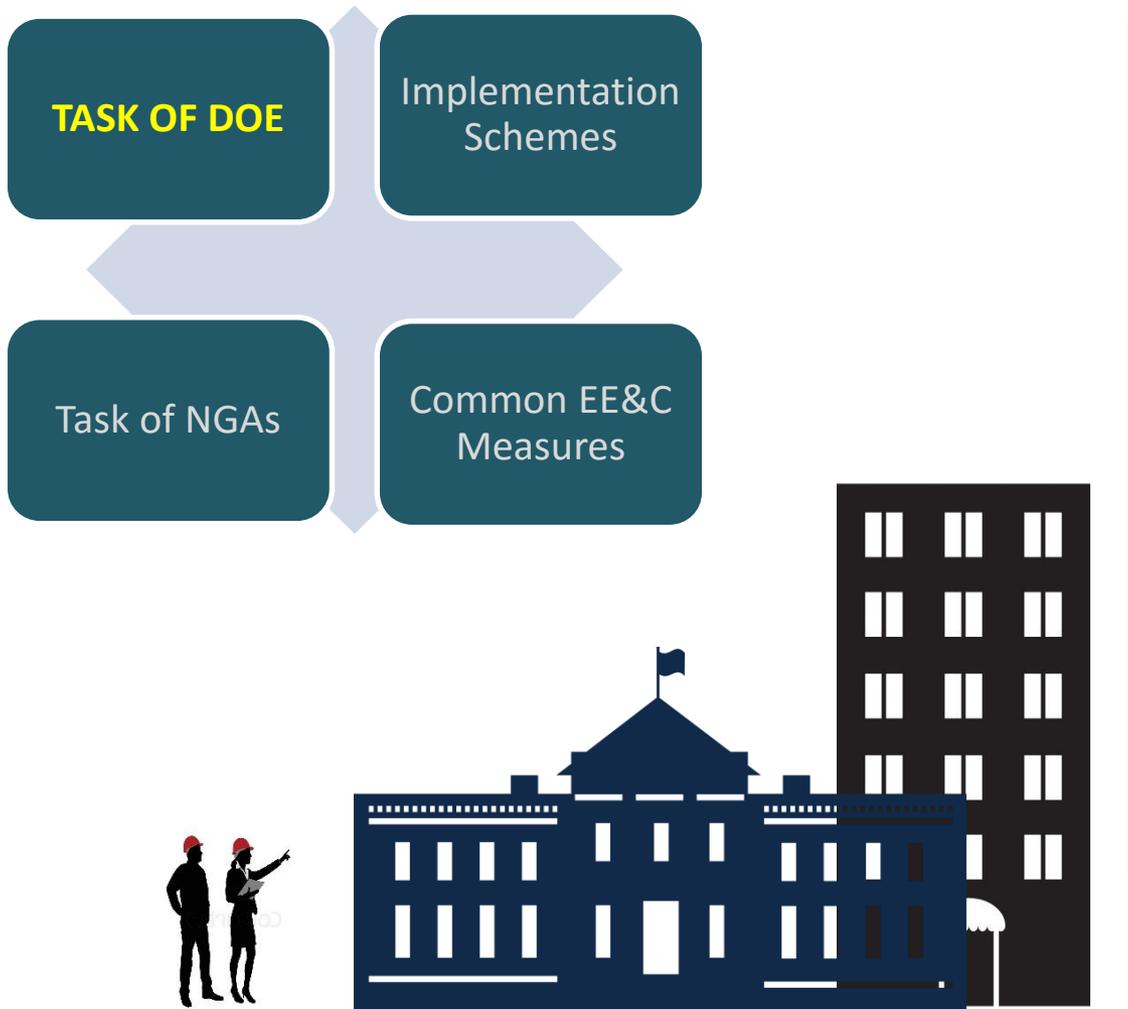


AGENCIES OF THE GOVERNMENT

- NGAs
- SUCs
- GFIs
- GOCCs
- GOV'T. HOSPITALS
- MILITARY FACILITIES
- GOV'T INSTRUMENTALITIES



# 1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

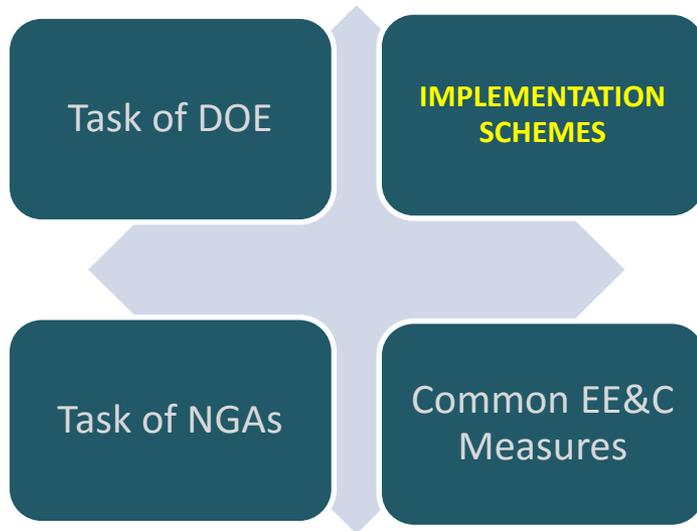


## Tasks of DOE

- Organize the Energy Audit Team 
- Conduct spot checks and energy audit
- Monitor compliance of NGAs 
- Post Agency Ratings



# 1. GOVERNMENT ENERGY MANAGEMENT PROGRAM

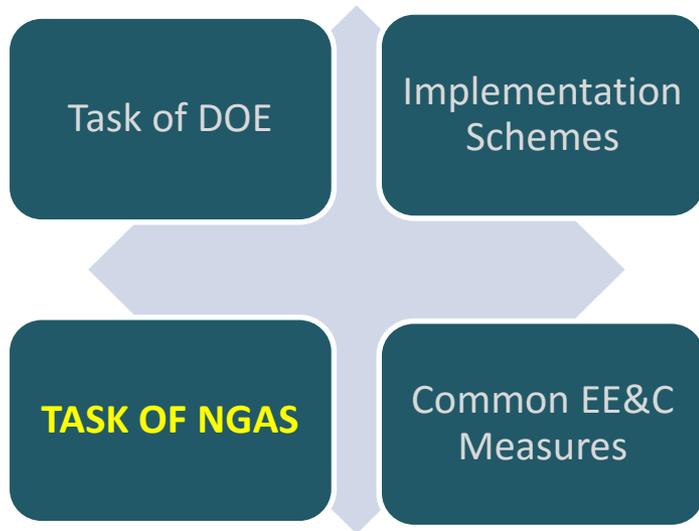


## Implementation Schemes

- Information, Education and Communication Campaign
- Energy Audit/Survey
- Spot Checks



# 1. GOVERNMENT ENERGY MANAGEMENT PROGRAM



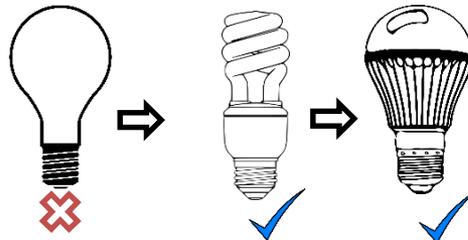
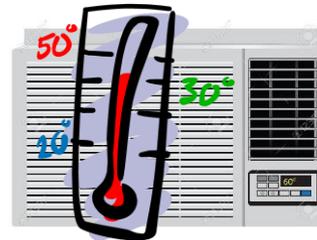
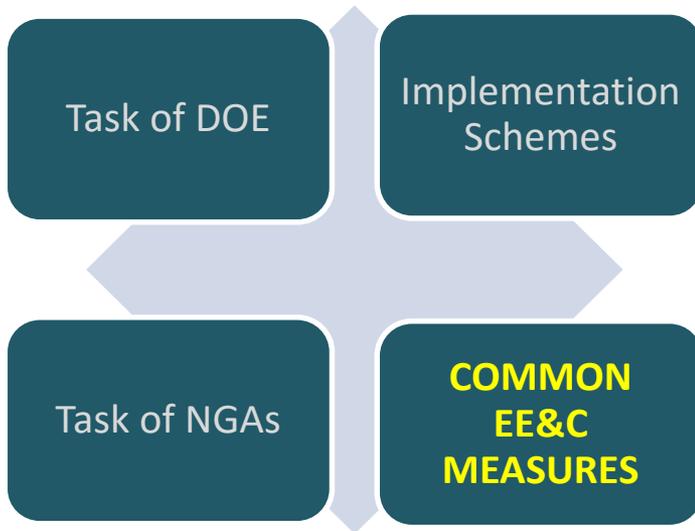
## Tasks of NGAs

- 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

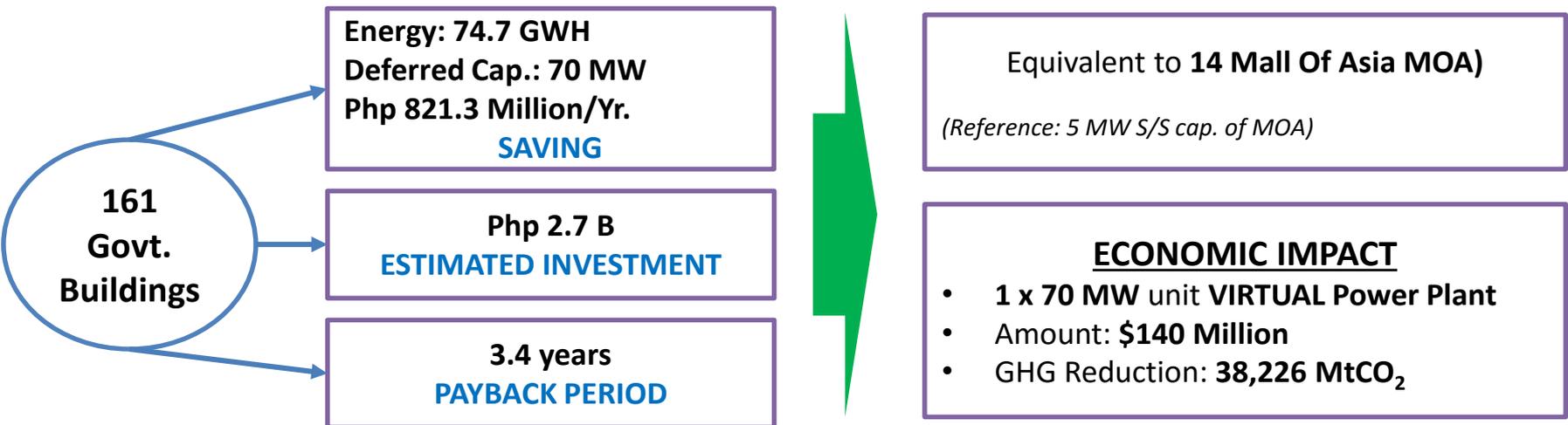


- Set aircon at 25C
- Shift to more efficient aircon technologies & inverter type
- Turn off office equipment when not in use
- Shift IBs and CFL to LED lamp
- Maximize natural lighting



# 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.

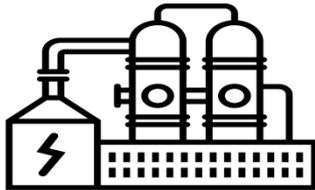
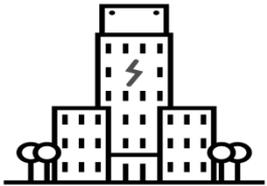


## 2. ENERGY SERVICE COMPANY (ESCO)

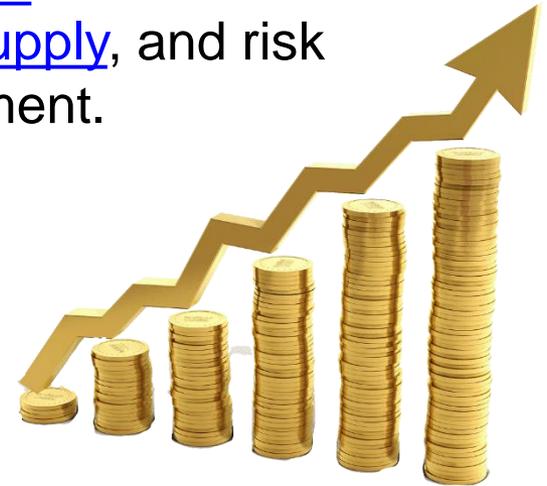
- DC 2008-09-0004

ESCO Accreditation  
Program

Buildings &  
Industrial  
Sectors



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.



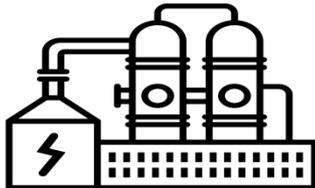
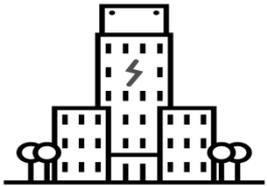
## 2. ENERGY SERVICE COMPANY (ESCO)

- DC 2008-09-0004

---

### ESCO Accreditation Program

### Buildings & Industrial Sectors



[www.doe.gov.ph/peslp-ig?q=escos-accreditation](http://www.doe.gov.ph/peslp-ig?q=escos-accreditation)

### 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



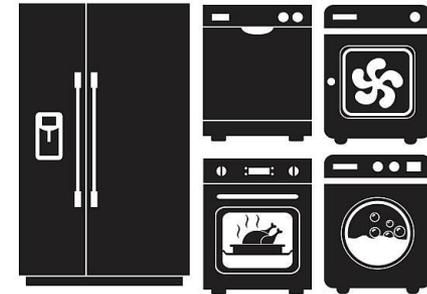
### 3. PHILIPPINE ENERGY STANDARD & LABELING

- **DC 2016-004-0005**

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

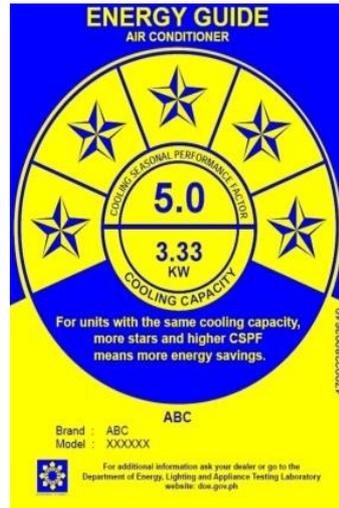
**Household appliances & Motor Vehicles**

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.

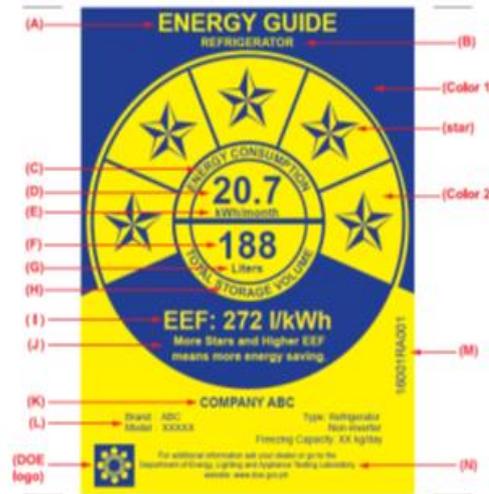


# Philippine Energy Labeling Program

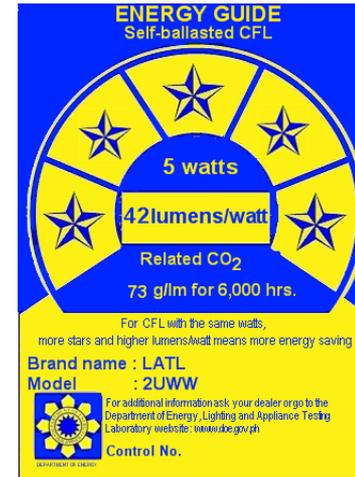
## Air Conditioner



## Refrigerator



## Self Ballasted CFL

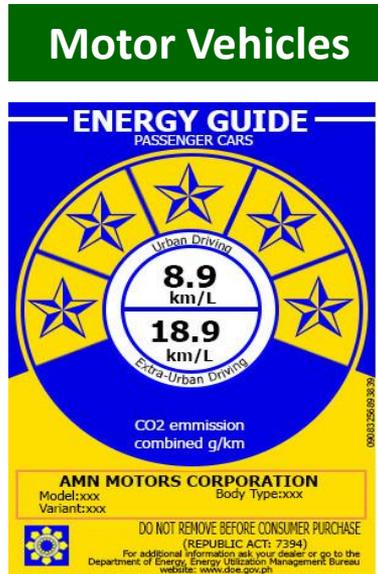


***“It ensures that consumers have the right information they need to make the right choices when they purchase household appliances, lighting products, electric devices and motor vehicles”***



# Philippine Energy Labeling Program

## Vehicle Fuel Economy Label



- Passenger Cars
- Light Duty Vehicles

### IMPLEMENTATION TARGET

#### Voluntary Compliance

- Jan.01 2019 to Dec. 2020

#### Mandatory Compliance

- Starting Jan. 01, 2021

***To empower the consumer to choose the most FUEL EFFICIENT Vehicle in the market***



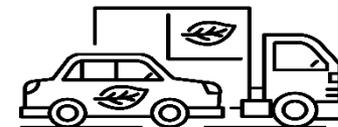
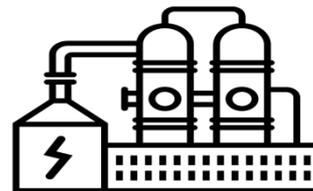
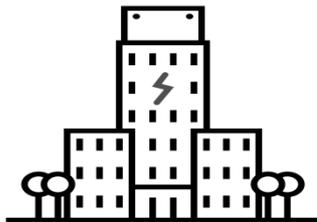
## 4. MINIMUM ENERGY PERFORMANCE PROGRAM (MEP)



### 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



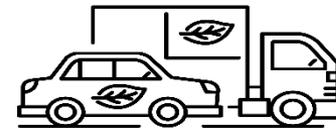
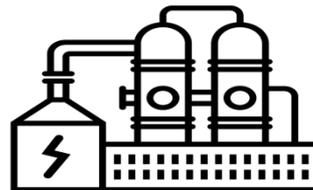
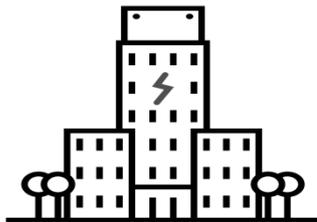
# 4. MINIMUM ENERGY PERFORMANCE PROGRAM (MEP)



## 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”*





Department of Energy



We have the **E**nergy Ability.

# Thank you



(02) 479-2900 / 840-2243



[artemio.habitan@doe.gov.ph](mailto:artemio.habitan@doe.gov.ph) , [doe.eecd@gmail.com](mailto:doe.eecd@gmail.com)



[www.doe.gov.ph](http://www.doe.gov.ph)

