



Department of Energy



DIR. JESUS T. TAMANG
OIC-Energy Utilization Mngt. Bureau

Hotel Supreme Convention Plaza
111 Magsaysay Avenue
Baguio City

The Energy Efficiency Programs of the Government

Dir. Jesus T. Tamang

OIC, Energy Utilization Management Bureau
Department of Energy

E-Power Mo

Communicating Efficiency Across the Energy Sector

24 April 2018



Outline

- The DOE
 - Mandate
 - Strategies
 - 9-Point Agenda
- Philippine Energy Profile
- The EUMB
- Programs



The DOE Mandate

To ensure a continuous, adequate, and economic supply of energy with the end in view of ultimately achieving self-reliance in the country's energy requirements through the integrated and intensive exploration, production, management, and development of the country's indigenous energy resources, and through the **judicious conservation, renewal and efficient utilization of energy**



Strategic Directions 2017 – 2040

1

**ENSURE
ENERGY
SECURITY**

2

**EXPAND
ENERGY
ACCESS**

3

**PROMOTE A
LOW CARBON
FUTURE**

4

**STRENGTHEN
COLLABORATION
AMONG ALL
GOVERNMENT
AGENCIES
INVOLVED IN
ENERGY**

5

**IMPLEMENT,
MONITOR AND
INTEGRATE
SECTORAL AND
TECHNOLOGICAL
ROADMAPS AND
ACTION PLANS**

6

**ADVOCATE THE
PASSAGE OF THE
DEPARTMENT'S
LEGISLATIVE
AGENDA**

7

**STRENGTHEN
CONSUMER
WELFARE AND
PROTECTION**

8

**FOSTER
STRONGER
INTERNATIONAL
RELATIONS AND
PARTNERSHIPS**





DOE's NINE POINT ENERGY AGENDA



**ACCESS TO BASIC ELECTRICITY
FOR ALL FILIPINOS BY 2022**



**ADOPTING A TECHNOLOGY NEUTRAL
APPROACH FOR AN OPTIMAL ENERGY MIX**



**IMPROVING THE SUPPLY OF POWER THAT
IS RELIABLE, TO MEET DEMAND NEEDS BY
2040**



**DEVELOPING LNG NEEDS FOR THE FUTURE
IN ANTICIPATION OF THE MALAMPAYA
DEPLETION**



**FACILITATING THE COMPLETION OF
TRANSMISSION PROJECTS BY 2020**



**PRO-CONSUMER DISTRIBUTION
FRAMEWORK FOR AFFORDABILITY,
CHOICE AND TRANSPARENCY**



**STREAMLINING DOMESTIC POLICY
TO CUT RED TAPE**



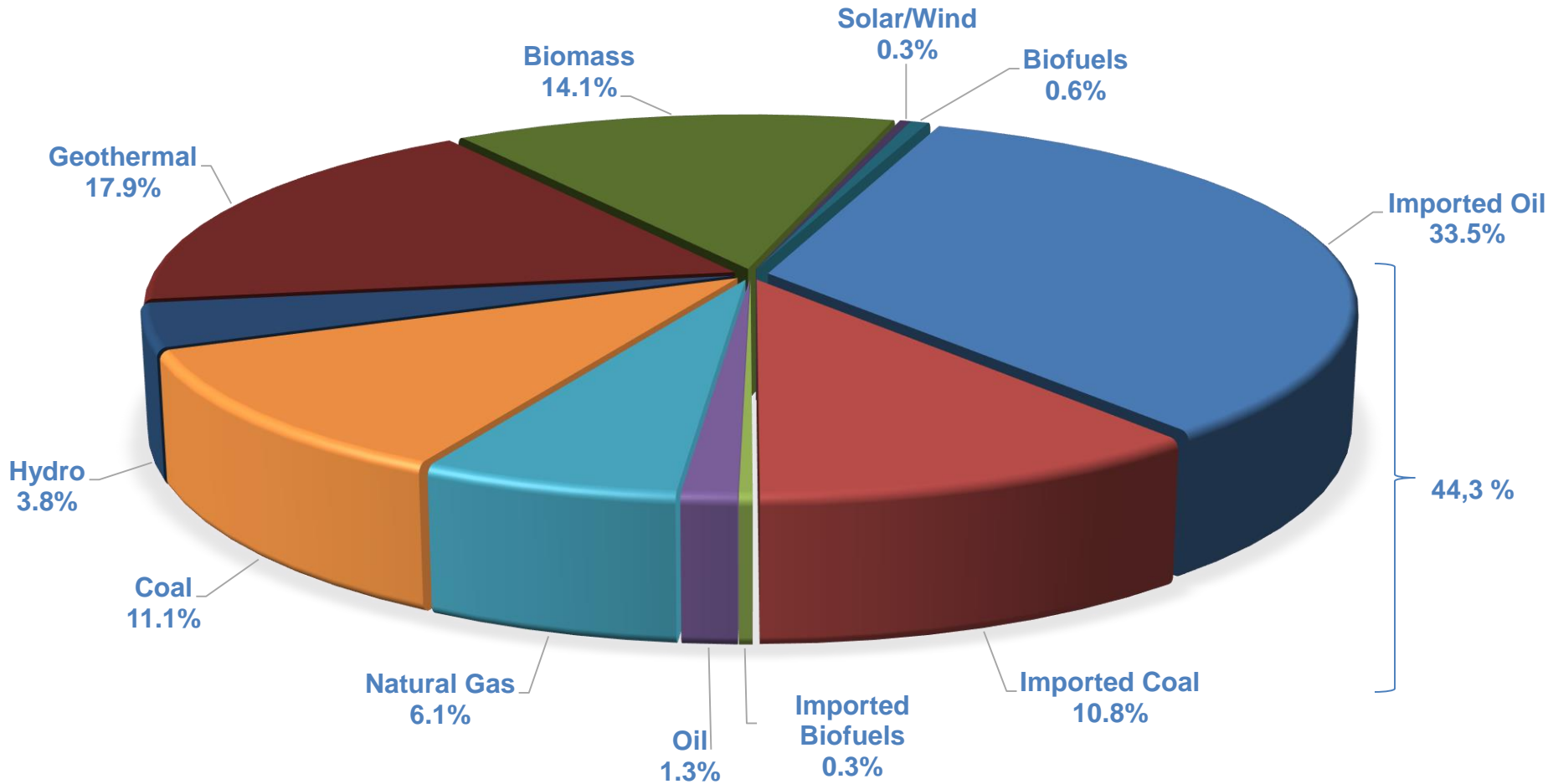
**DOE TO DELIVER ON PSALM
PRIVATIZATION**



**PROMOTING EFFICIENT USE OF POWER
AMONG CONSUMERS THROUGH AN IEC**



Philippine Energy Mix



2016 TOTAL ENERGY = 53.19 MTOE

Source: DOE Planning – 2016 data

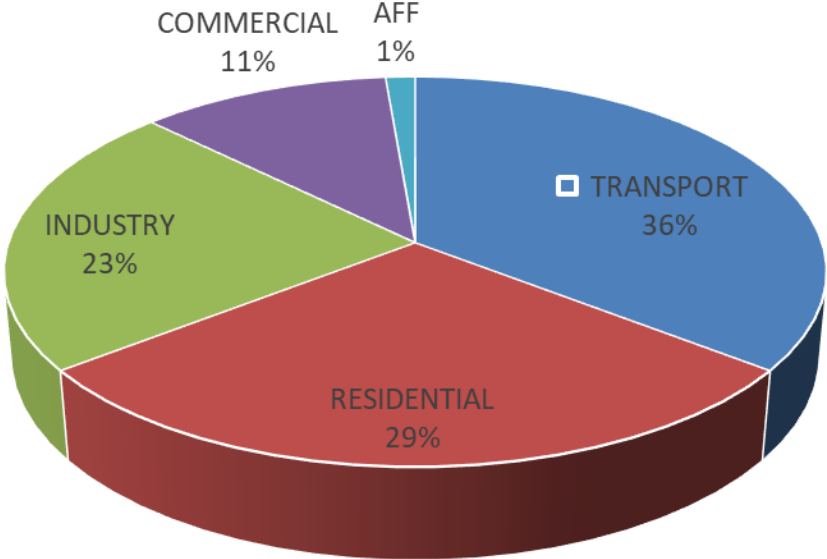
** Total Mix = Indigenous + Net imported Energy*



Sectoral Energy Demand

2016 Final Energy Consumption

Sector	MTOE	Percent Share
TRANSPORT	10.6	35.5
RESIDENTIAL	8.7	29.1
INDUSTRY	6.8	22.7
COMMERCIAL	3.4	11.4
AFF	0.4	1.3
Total	29.9	100.0



Demand for Electricity is Fastest



Source: DOE Planning – 2016 data



The EUMB Mandate

Judicious
conservation,
renewal and efficient
utilization of energy



Formulate policies, plans and programs related to **energy efficiency and conservation**, and **alternative fuels and energy technologies** and ensure effective implementation thereof to enhance energy security through diversification of energy sources, and address climate change.







E-SAFETY MO

INVOLVES SAFETY AND ENERGY EFFICIENCY

E-SECURE MO

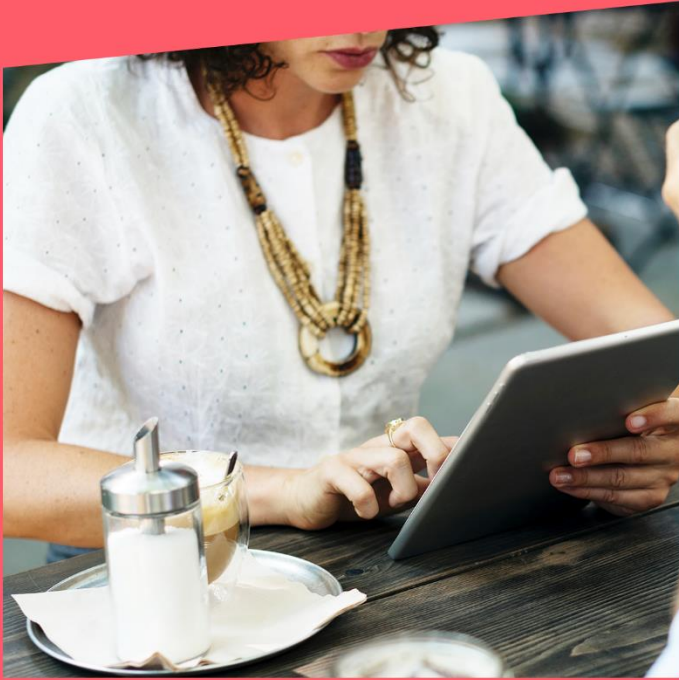
EMPHASIZES DELIVERY OF QUALITY, RELIABLE AND AFFORDABLE ENERGY SERVICES

E-DISKARTE MO

UNDERSCORES THE CONSUMER'S POWER OF CHOICE

WE AIM TO EMPOWER THEM THROUGH INFORMATION ON ENERGY UTILIZATION.





**“AN INFORMED ENERGY
CONSUMER IS AN
EMPOWERED ONE.”**

**RELAY ONLY ACCURATE AND RELIABLE
INFORMATION TO THE PUBLIC.**



Sector: COMMERCIAL & GOVERNMENT BUILDINGS



A: Government Buildings Efficiency Program

✓ Strengthen and extend the Government Energy Management Program (GEMP)

✓ Develop Guidelines for government procurement of energy efficiency services

✓ Develop model ESCO procurement and implementation project at a high-profile Government building site

Government Energy Management Program (GEMP) **ENABLING POLICIES:**

Administrative Order 110:

Administrative Order 110-A:

Administrative Order 126:

- ❖ Institutionalization of “Government Energy Management Program (GEMP)”
- ❖ Target Electricity and Fuel Savings of 10%
- ❖ Designate an Enercon Officer
- ❖ Submission of Monthly Fuel and Electricity Consumption Report





COMMERCIAL & GOVERNMENT BUILDINGS

Action Plan 2016 - 2020



B: Building Codes Program

- ✓ Energy Efficiency Training Program for LGUs
- ✓ Coordination-body for Energy Efficiency input to Green Building Code development
- ✓ Update *“DOE Guidelines on Energy Conserving Design in Buildings and Facilities”*



C. Building Information and Ratings Program

- ✓ Annual performance information tool - benchmark for government building energy efficiency with a view to creating the market standard for all commercial buildings
- ✓ Mandatory disclosure of performance ratings on sale or lease of buildings



Sector: RESIDENTIAL



A: Appliance standards and Labeling Program

- ✓ Energy Efficiency input and cooperation on standards development
- ✓ Increase post-market surveillance programs (MVE)



B. Behavioural Information Program for Low-Income Group

- ✓ Greater utilization of billing information programs and pre-paid billing models
- ✓ Awareness raising campaigns on EE including for housing design (e.g. insulation and cool roofs)

Sector: TRANSPORT



A: Vehicle Efficiency Improvement Program

✓ Vehicle Fuel Efficiency Standard & Labeling: Roll out new vehicle labeling for energy use

✓ Formulate a transport and urban energy efficiency Inter-Agency Committee

✓ Vehicle Promotion and conversion programs

- extend Auto-LPG program for taxi fleet
- Training for LPG vehicle conversion
- Vehicle Technologies: E-Vehicles, Hybrid Vehicles, Fuel Cell Vehicles



B: Vehicle Efficiency and Driver Awareness Program

✓ Re-launch Fuel Economy Run initiative

✓ Driver training program rollout



C: Freight Transport Energy Efficiency Partnership

✓ Form partnership to develop a National Efficient Freight and Logistics Master Plan

✓ National Efficient Freight and Logistics Master Plan developed





A: Industry Energy Management and Opportunity Identification

✓ Assist DTI to 'green' industry roadmaps with energy efficiency measures

✓ Scale up and broaden the sectors (targeted by the PIEEP and HEMS projects) to priority sectors of Cement, Steel, Semi-Conductor and Sugar Manufacturing

✓ Technical assistance to PEZA on qualifying EE service providers and technologies



B: ESCO Development Program

✓ platform for ESCO sector training capacity building activities

✓ Standard ESCO contracts for bidding



C: Demand Response and Demand Side Management Program

✓ Analytical paper setting out the framework and regulatory steps that would need to be taken to implement a comprehensive Demand Response Strategy

✓ Establish a Power Sector Energy Efficiency Strategy

Sector: PUBLIC FACILITIES

 Program for the Promotion of Energy Efficient Lighting Technology in Public Facilities


✓ Mainstreaming of Energy Efficiency at the LGU Level



II. GREEN INITIATIVES


B. EFFICIENT USE OF NATURAL RESOURCES

1. SOLAR HARVESTING FOR STREET LIGHTING
BONI AVENUE – PIONEER UNDERPASS SOLAR POWERED LED LIGHTING PROJECT



2. MINIMUM USE OF ELECTRICITY (GOVERNMENT FACILITIES)

- RESOLUTION NO. 2006, S-2014
RESOLUTION PRESCRIBING THE NORMS OF CONDUCT TO SAVE ON ENERGY IN ALL PUBLIC OFFICES AND INSTITUTIONS IN THE CITY OF MANDALUYONG



Continuing Advocacy

Make energy efficiency and conservation a way of life for the Filipinos



ENERGY EFFICIENCY



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