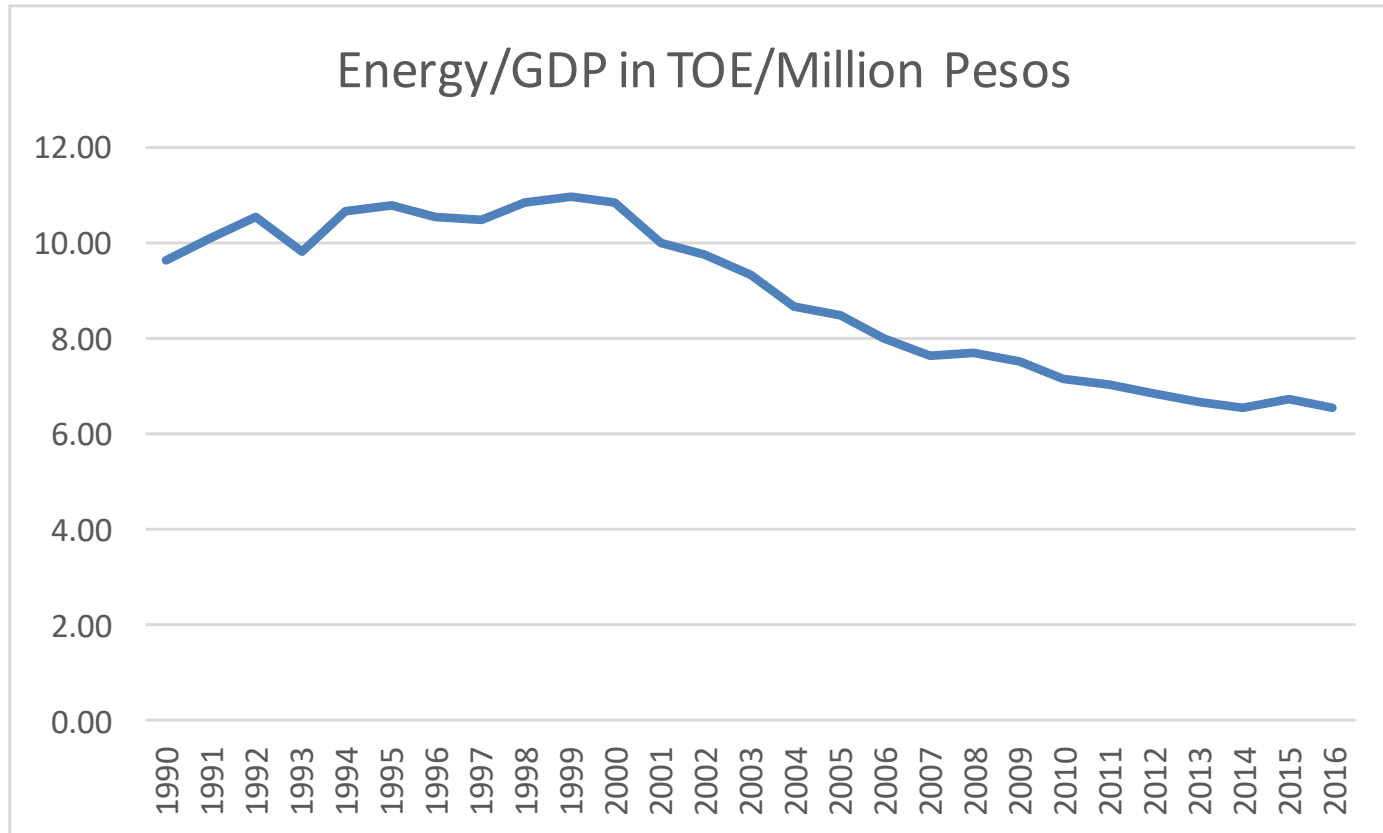

Updates on Key Developments in EE&C Policies and Programs In Philippines

Dir. Jesus T. Tamang
Energy Utilization Management Bureau
Department of Energy

52nd Meeting of APEC Expert Group on Energy Efficiency & Conservation
Chiang Mai, Thailand
10-14 September 2018



Lower Specific Energy Consumption



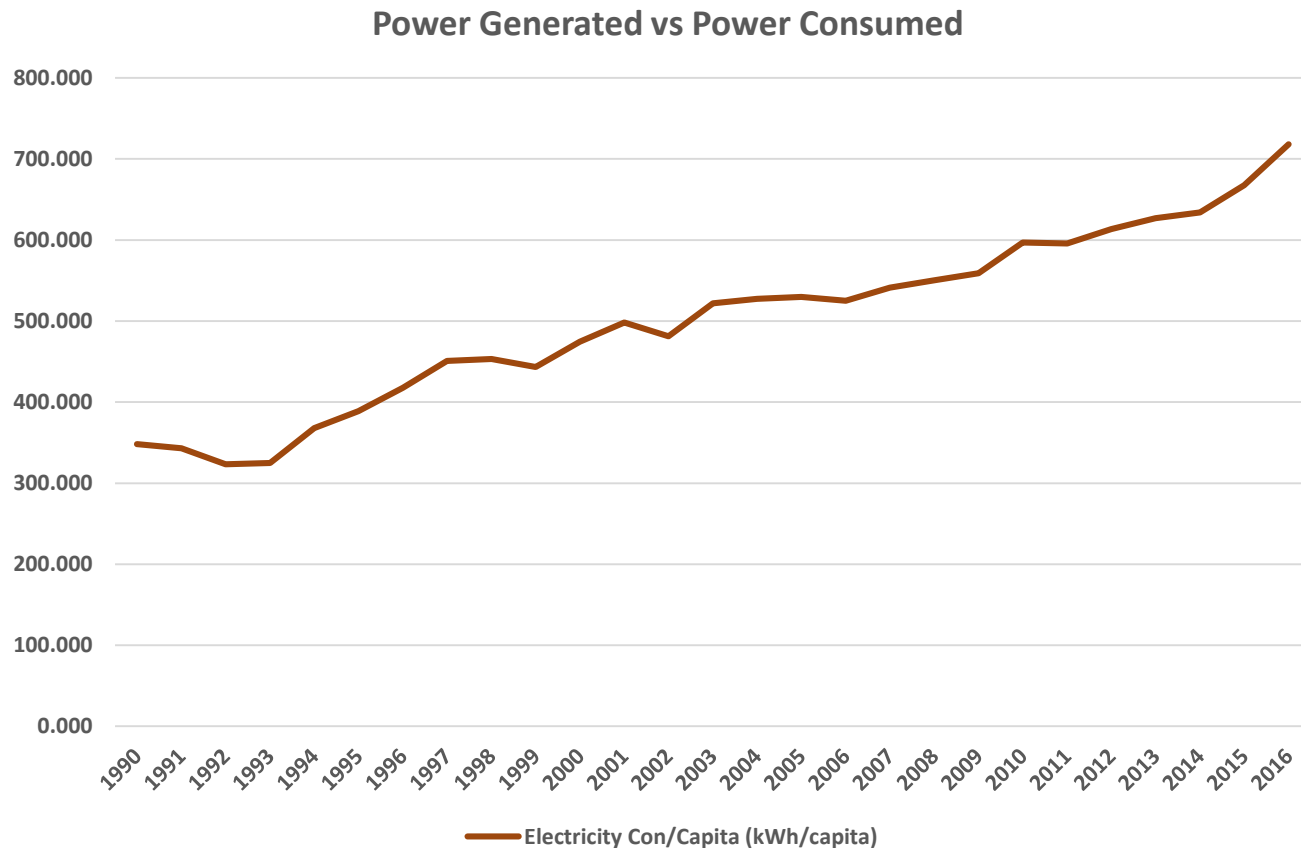
The country's specific energy consumption (TOE/Million Pesos GDP) has gone down by 32.3 % from 9.7 in 1990 to 6.55 in 2016.

The reduction is attributed to our economic structure that has been dominated by the Services sector during the period.

The resurgence of the manufacturing sector is expected to reverse the trend.



Electricity per Capita Doubled, kwh/person



Electricity consumption on a per capita basis doubled during the 1990-2016 period.

From a low of 346 kwh/person in 1990, the consumption of electric power registered at 718 kwh per capita in 2016

The increase in electricity consumption goes with the country's higher electrification level as well as urbanization and resurgence program for the industry sector



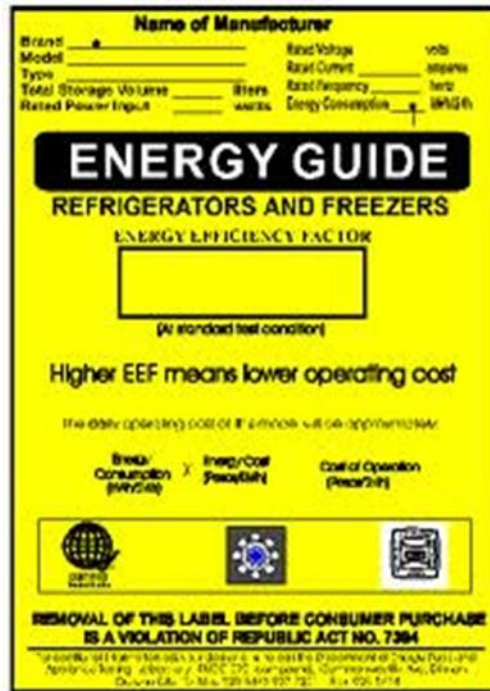
EE&C in Government

Enhanced Government Energy Management Program, eGEMP

- Revised Reference Year is 2015
- Revisiting 10% mandatory improvement on efficient use of electricity and fuels over 3-year period
- Energy Efficiency Rating proposed as a criteria for Centralized Procurement of vehicles, appliances, equipment
- Introducing ESCO in government
- Advocating passage of EE&C Bill



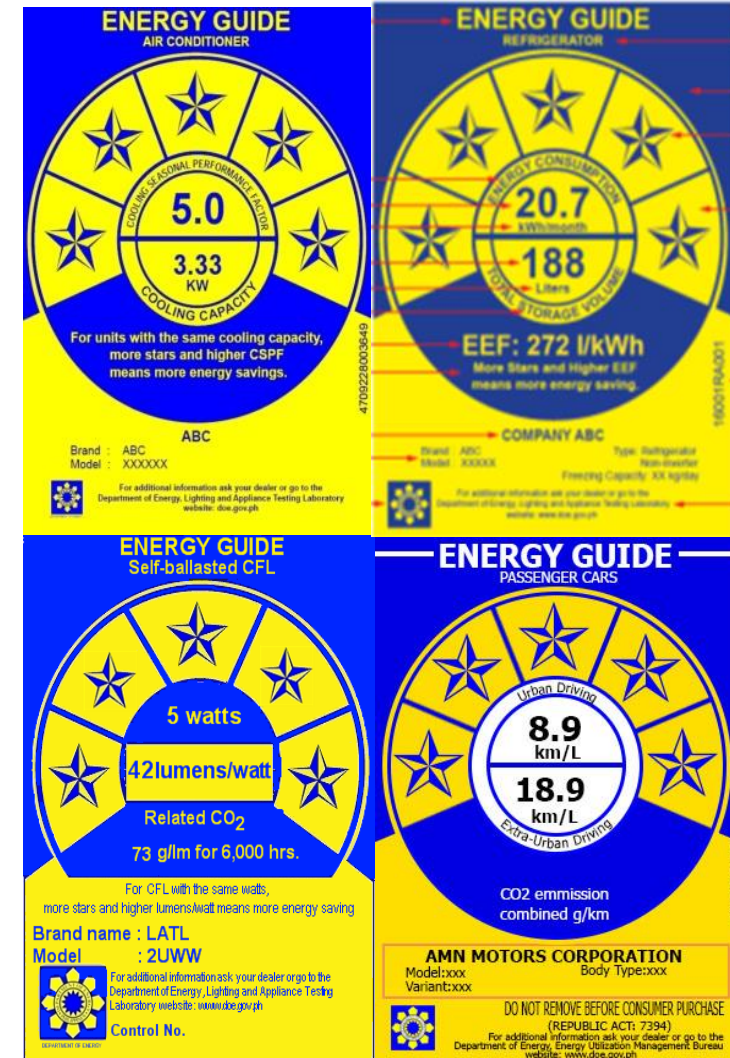
Moving Towards Energy Standards



From Energy Labelling to Energy Standards



Implementing Guidelines and several Particular Product Ratings are now nearing final review before issuance



Coverage of Energy Standards & Labelling Program

Sectors

- Importers
- Manufacturers
- Distributors
- Dealers
- Retailers

Products

- Room Airconditioners
- Refrigerators & Freezers
- Television Sets
- Clothes & Washing Machines
- Self-ballasted Fluorescent Lamps
- Linear Fluorescent Lamps
- Lamp Ballasts
- Single capped Fluorescent
- Passenger Cars and Commercial Vehicles
- Light Emitting Diodes (LED) Lamps
- Vehicles



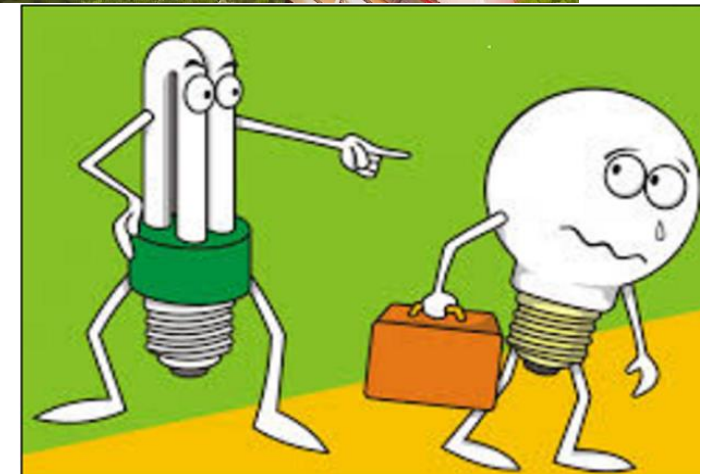
EE&C in Transport

- Promoting Alternative Fuels and Energy Technologies e.g. Ngas, Auto LPG
- Granted incentives for Electric Vehicles
 - 100% Excise Tax for Pure Electric
 - 50% Excise Tax for Hybrids



EE&C in Buildings

- Net Zero Energy Building concept for introduction to State Universities and Colleges



EE&C in Industry

- Introduced ISO 50001 for voluntary adoption and implementation



EE&C in Power Generation

- Mandated Performance Assessment and Audit of Power Plants, Transmission and Distribution Facilities
- Promoted Smart Grid



EE&C Identified Major Area of Investment

- Energy efficient appliances
 - Energy Testing Facilities / Laboratories
 - Manufacturing Facilities or Assembly Lines for all forms of Energy Efficient Appliances
- Fuel efficient & low-carbon vehicles
 - Testing sites /facilities
 - Hybrid, electric, etc.
- Energy efficient buildings
 - Construction Materials (Glass, Roof, etc.)
 - Building Design and Architecture (Building Envelope, Natural Ventilation/Lighting, etc.)
- Smart Technology
- Energy Service Companies
 - Currently have 26 accredited ESCOs



Continuing Advocacy of DOE

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

The infographic is titled "ENERGY EFFICIENCY" in large green and blue letters. It is divided into two main sections by a vertical line. The left section features a red thumbs-down icon above a glowing yellow incandescent light bulb and a desktop computer system (monitor, tower, keyboard, mouse). The right section features a blue thumbs-up icon above a white LED light bulb and a collection of electronic devices including a laptop, a tablet, and a desktop monitor. Text above the LED bulb says "SAVES 50%". Text above the electronic devices says "SAVES 63%". Below these sections is an image of a white air conditioning unit. A green callout box with a black background and white text points to the unit's control panel, displaying "25°C".



Thank You!



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