

A high-angle, nighttime photograph of a dense urban skyline, likely Manila, Philippines. The image shows numerous high-rise buildings, many of which are brightly lit with interior and exterior lights, creating a vibrant contrast against the dark blue twilight sky. The lights from the buildings and streets below create a bokeh effect in the foreground. The overall scene conveys a sense of a bustling, modern city.

DEVELOPING ENERGY EFFICIENCY INDICATORS in Residential Sector in the Philippines

Kristian Carlo B. Victorio

Energy Research and Testing Laboratory Services
Department of Energy Philippines

IEA Energy Efficiency Economies Training Week for Southeast Asia
Jakarta, Indonesia | 18 July 2018

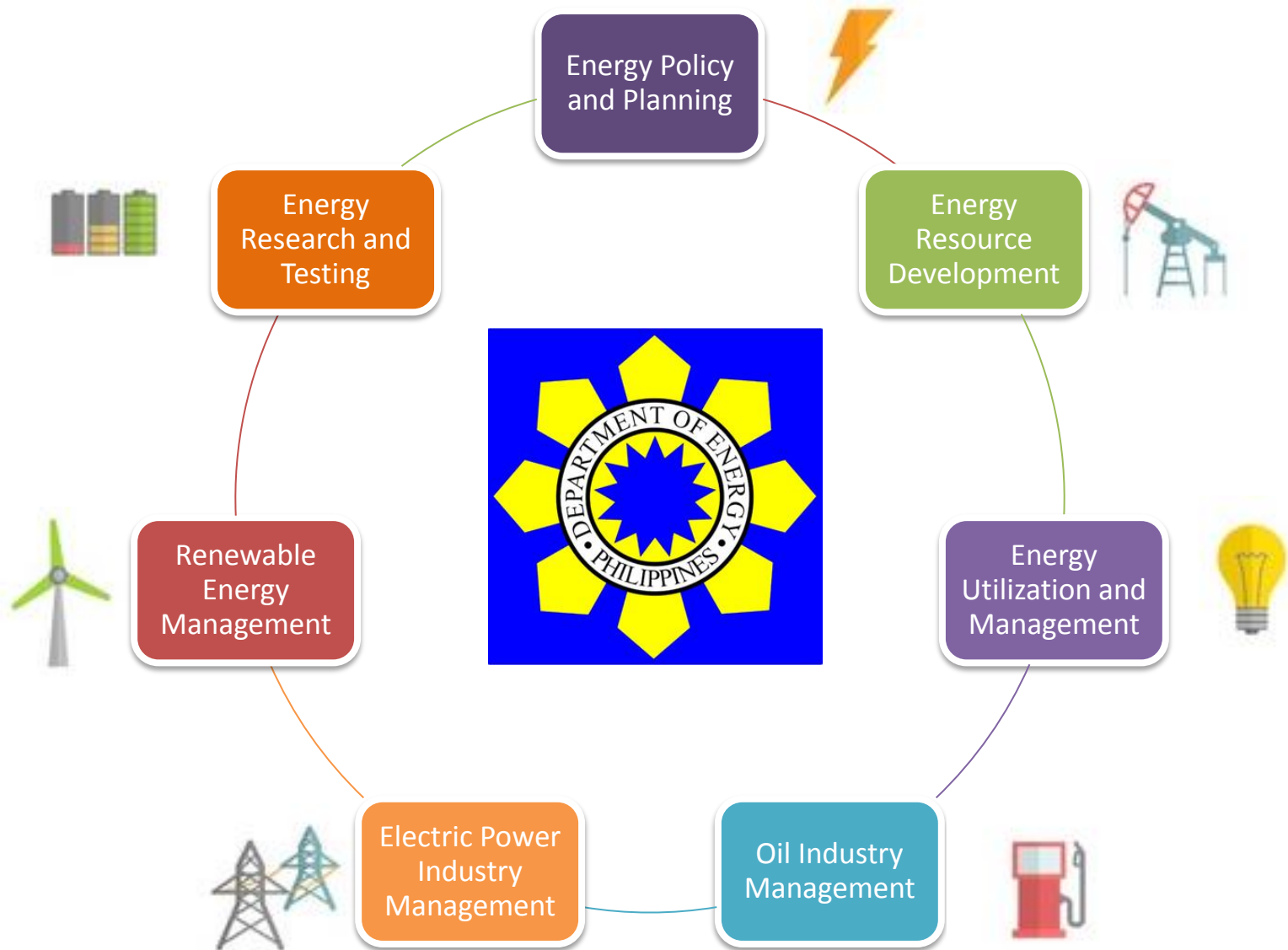


Presentation Outline

- About the Department of Energy
- Household Energy Consumption Survey 2011
- Energy Standards and Labelling Program
- In Summary



About the Department of Energy

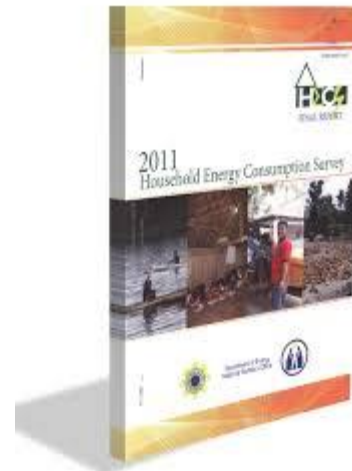


Household Energy Consumption Survey

HECS is a nationwide survey that gathers information on the utilization of fuels, supply systems and the pattern of energy use in Filipino households.

Four rounds: 1989,
1995, 2004, 2011

DOE and Philippine
Statistics Office



Household Energy Consumption Survey

With HECS:

- Information about the changing energy consumption patterns in Filipino households & socio-economic conditions affecting energy use
- Fuel/energy mix of the residential sector
- Most energy consuming appliances, devices and equipment for household activities



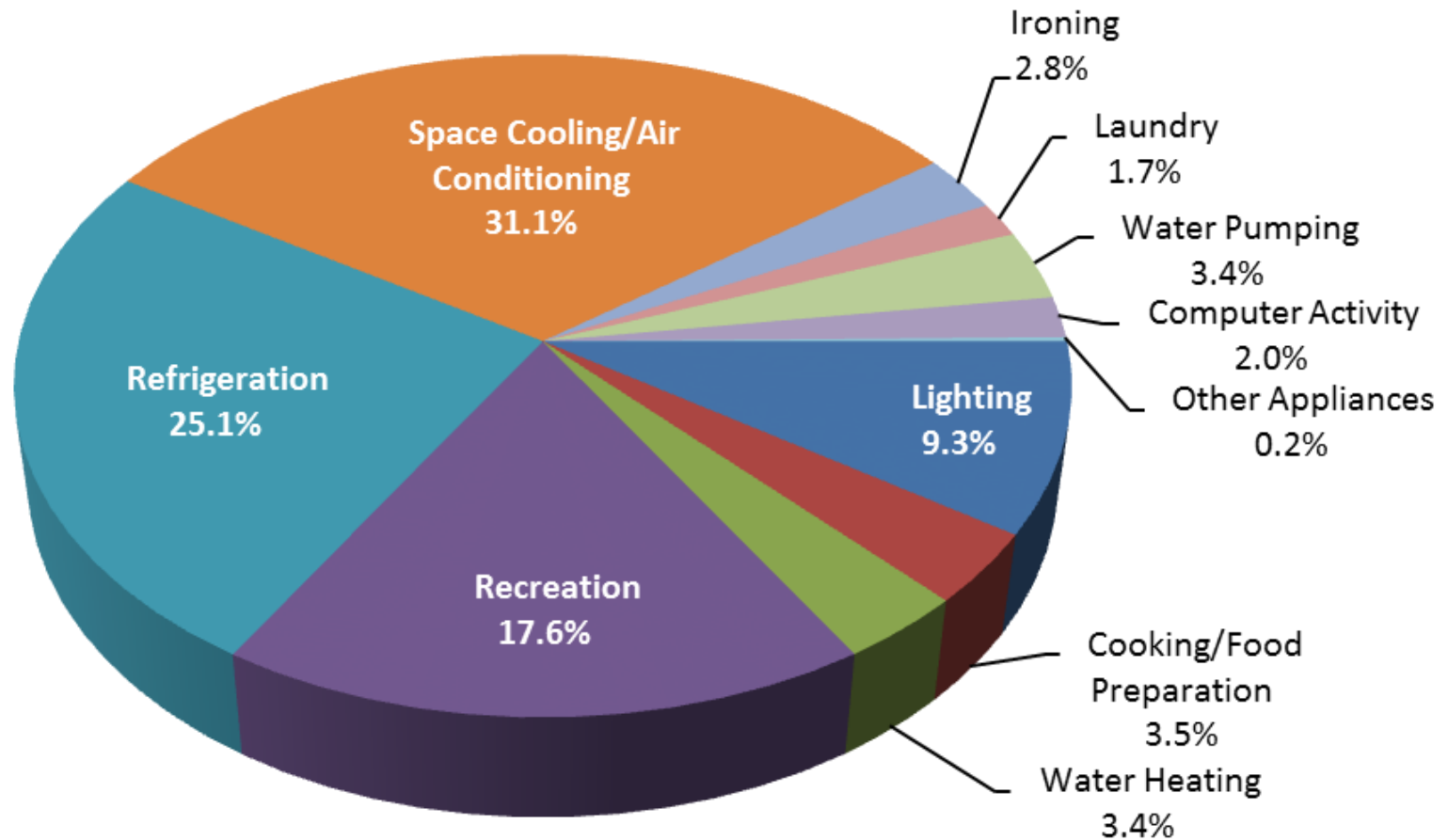
Household Energy Consumption Survey

With HECS:

- Current energy efficiency and conservation techniques in residential sector vis-à-vis government programs on energy consumption regulations
- Incidence of inter-fuel substitution in households
- Awareness and/or perception on major energy issues and developments



Household Energy Consumption Survey



ENERGY CONSUMPTION PATTERN

Percentage Distribution of Total Household Electricity Consumption, by End-use: 2011



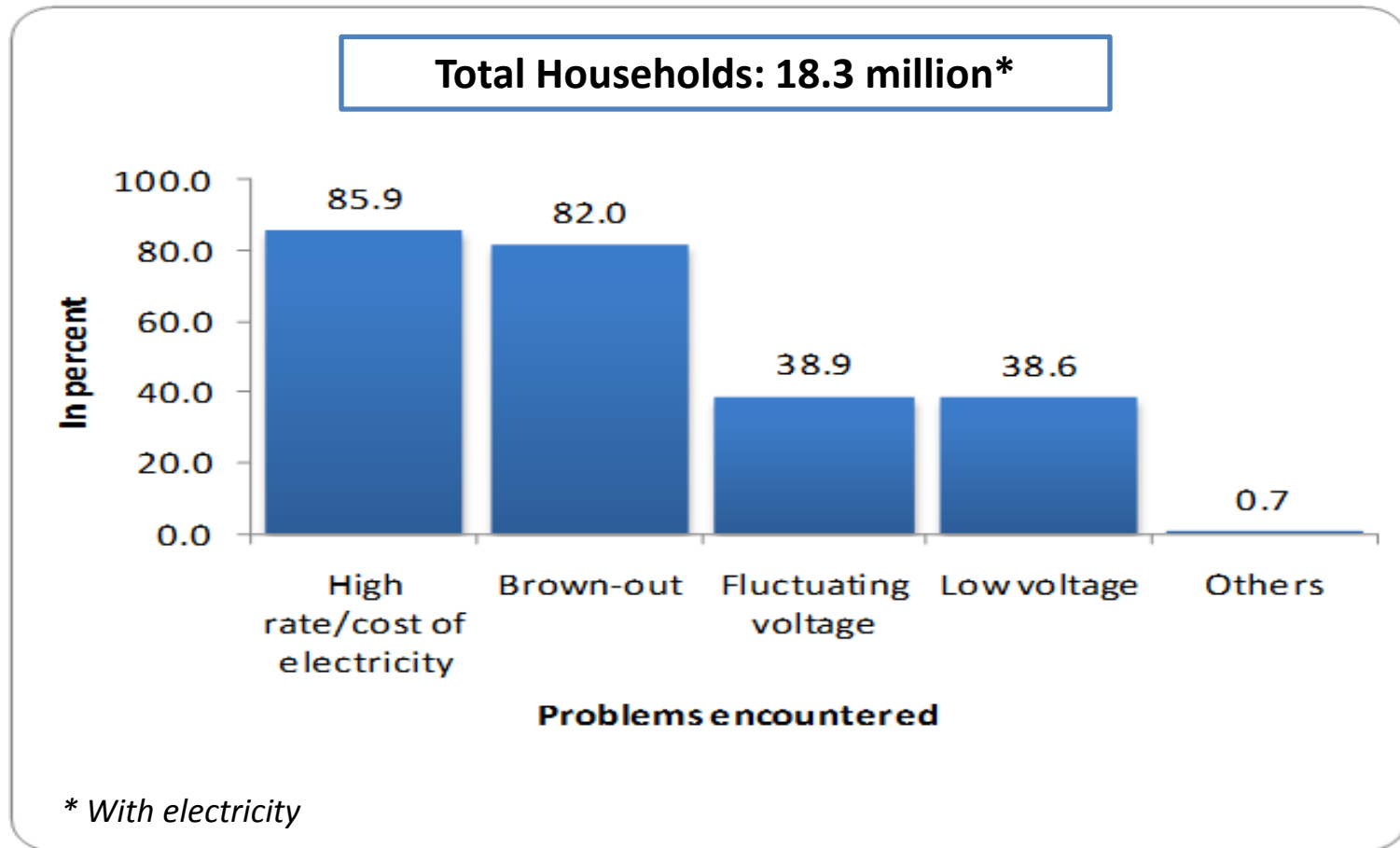
Household Energy Consumption Survey

MEASURES PRACTICED BY HOUSEHOLD to reduce energy consumption for lighting: 2011

Measures to Reduce Energy Consumption	% of Users of Electricity for Lighting
Switched off lights when not needed	90.9
Switched to more energy efficient lighting	75.3
Kept lamps and lighting fixtures clean	66.6
Used natural lighting when necessary	85.4
Other lighting household practices	0.5



Household Energy Consumption Survey

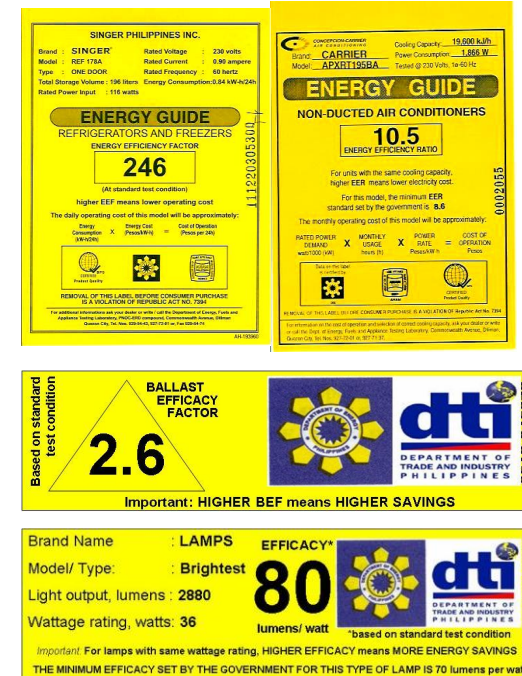


PROBLEMS ENCOUNTERED BY HOUSEHOLD ON FUEL SUPPLY
Percentage Distribution Who Encountered Problems with their Electricity: 2011



Household Energy Consumption Survey

Appliances/Lighting Products	% of Total HHs
Compact Fluorescent Lamp (CFL)	21.6%
Linear Fluorescent Lamp (LFL)	17.9%
Refrigerator	17.2%
Circular Fluorescent Lamp	13.1%
Lamp Ballasts	11.4%
Aircon	9.2%



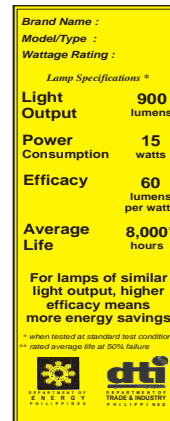
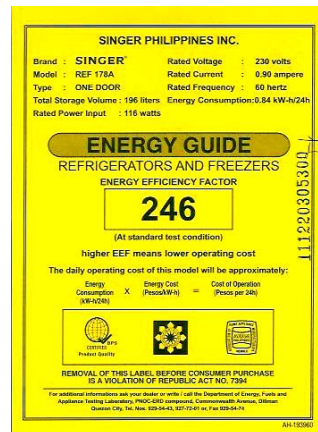
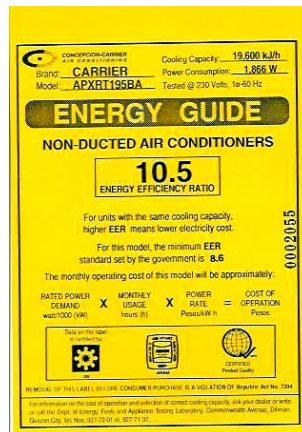
AWARENESS ON ENERGY ISSUES & SOURCES OF INFORMATION

Households Who Understand the Information Written on the Energy Label: 2011



Energy Standards and Labeling Program

ENERGY LABELS or **Energy Guides** are yellow cards commonly seen with household appliances and lighting products. The number in Energy Labels indicates the efficiency of product in terms of electricity consumption.



Energy Standards and Labeling Program



- Reportorial requirements submitted by manufacturers, importers, distributors, and dealers
- Information of the most efficient appliance models and lighting products in the market
- Trend in purchasing of household appliances and lighting products



In Summary

- Determination of prudent energy utilization practices in Filipino households
- Measurement of impact of energy policies and programs of the government
- Generation of energy savings and mitigation of greenhouse gas emissions



Thank You!

Mubuhay!



(+632) 479-2900



kristian.victorio@doe.gov.ph



www.doe.gov.ph



//doe.gov.ph



@doe_ph



For more information

- All information stated in this presentation are available online in the Department of Energy Philippines Website. www.doe.gov.ph.
- 2011 Household Energy Consumption Survey Final Report. Department of Energy and National Statistics Office (now Philippine Statistics Authority). ISSN 0118-9107.
- K. C. B. Victorio. E-Power Mo With Energy Labels. E-Power Mo Energy Stakeholders and Consumer Conference. 2018.

