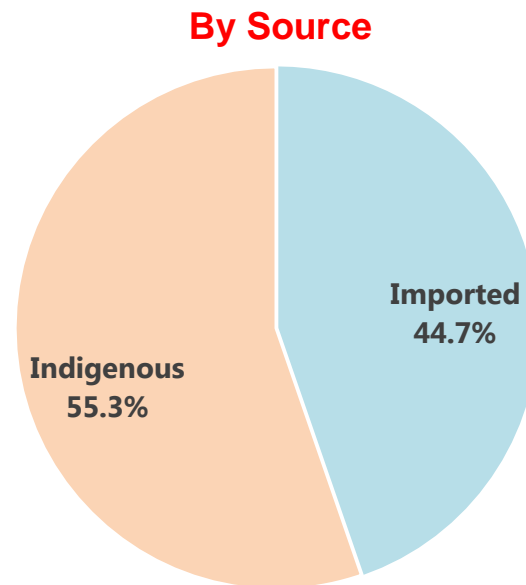
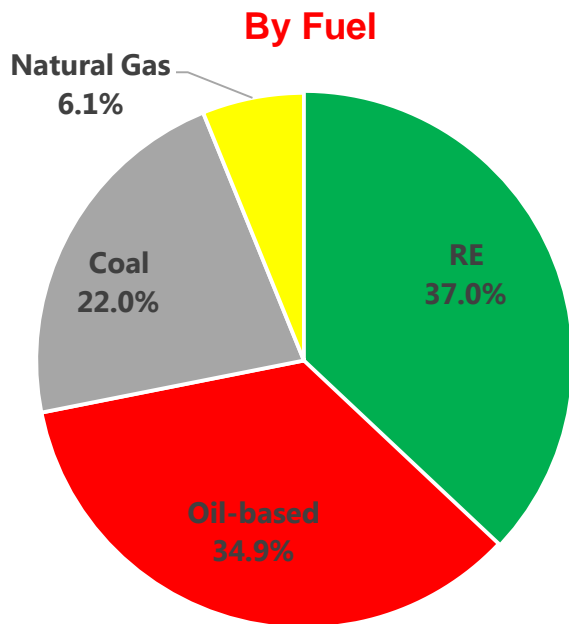


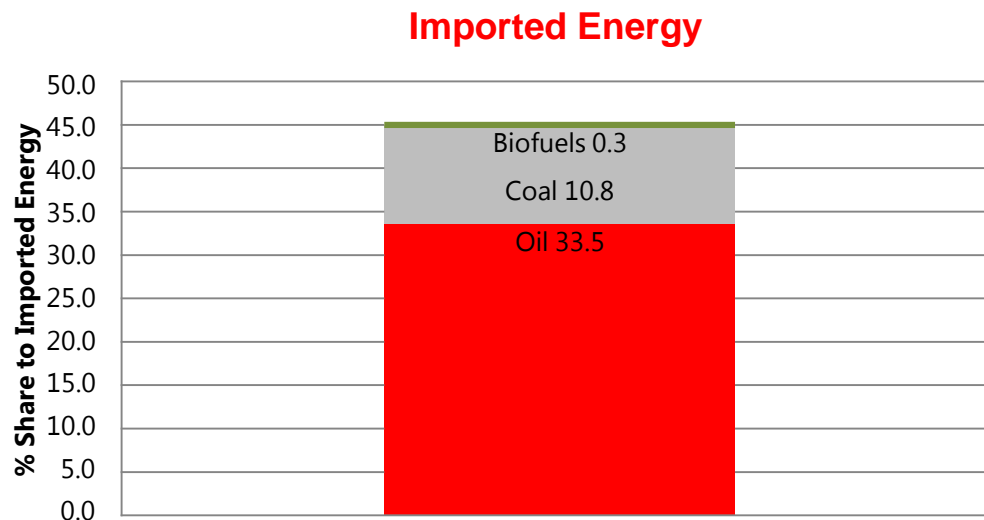
ENERGY SITUATION PHILIPPINE



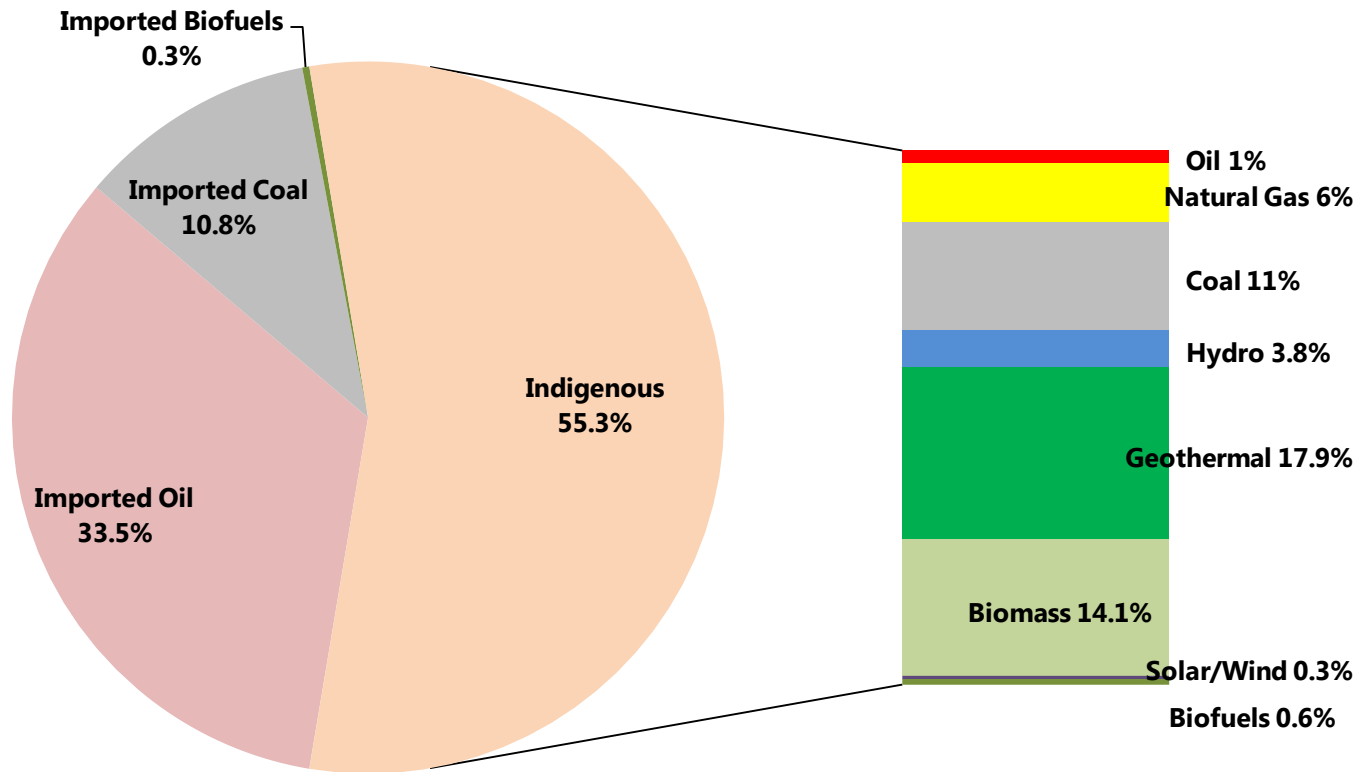
Where we are now: 2016 Energy Supply



Total Energy	53.19 MTOE
Self-Sufficiency	55.3%
Renewable Energy (RE)	37.0%
Clean Energy (RE + Nat Gas)	43.1%



Where we are now: 2016 Energy Supply

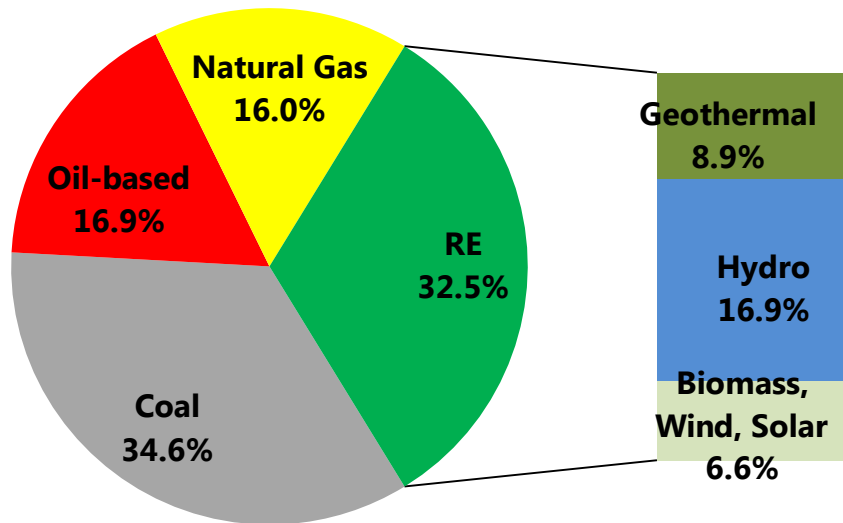


Total Energy:	53.19 MTOE
Self-sufficiency:	55.3%
Renewable Energy:	37.0%
RE + Nat Gas:	43.1%



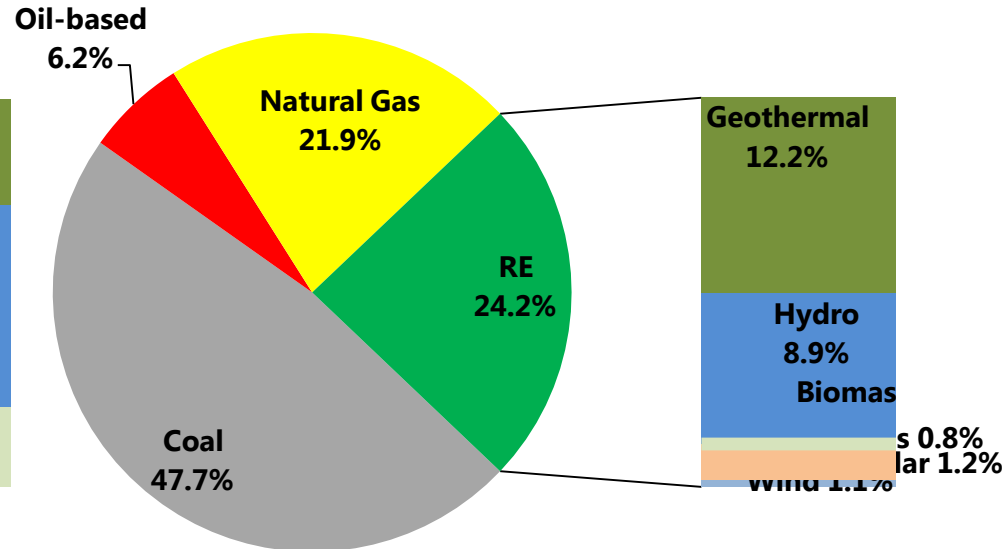
Where we are now: 2016 Power Capacity and Gross Generation

Installed Capacity



Total Installed Capacity:	21,424 MW
Renewable Energy Share:	32.5%

Gross Generation



Total Generation:	90,797 GWh
Renewable Energy:	24.2%
RE + Nat Gas:	46.1%



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



Nine-Point Energy Agenda

DOE's Nine-Point Energy Agenda



FACILITATING THE COMPLETION OF TRANSMISSION PROJECTS BY 2020



ACCESS TO BASIC ELECTRICITY FOR ALL FILIPINOS BY 2020



PRO-CONSUMER DISTRIBUTION FRAMEWORK FOR AFFORDABILITY, CHOICE AND TRANSPARENCY



ADOPTING A TECHNOLOGY NEUTRAL APPROACH FOR AN OPTIMAL ENERGY MIX



STREAMLINING DOMESTIC POLICY TO CUT RED TAPE



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



DOE TO DELIVER ON PSALM PRIVATIZATION



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

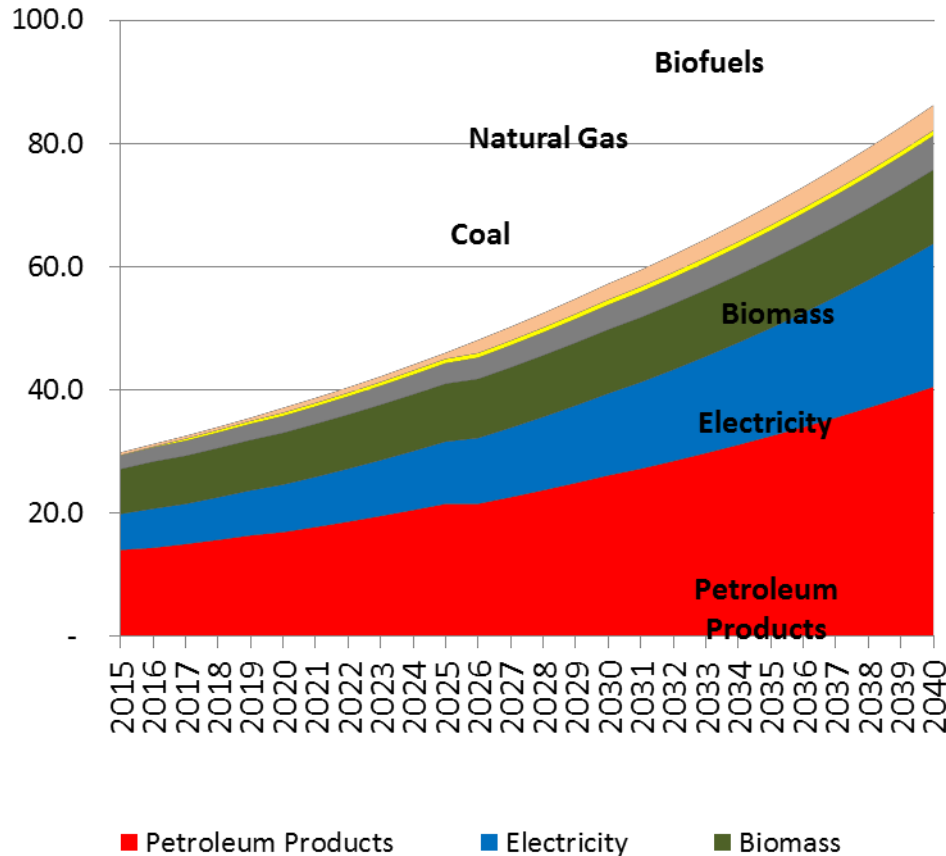


PROMOTING EFFICIENT USE OF POWER AMONG CONSUMERS THROUGH AN IEC

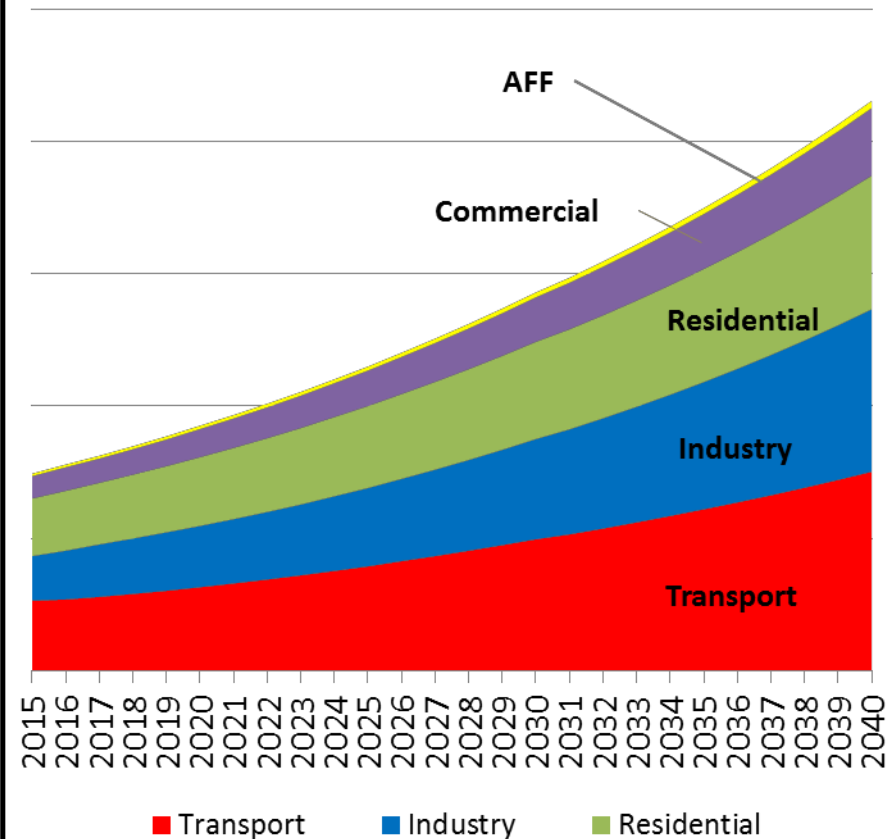


Where we are headed: Energy Demand Outlook 2016-2040

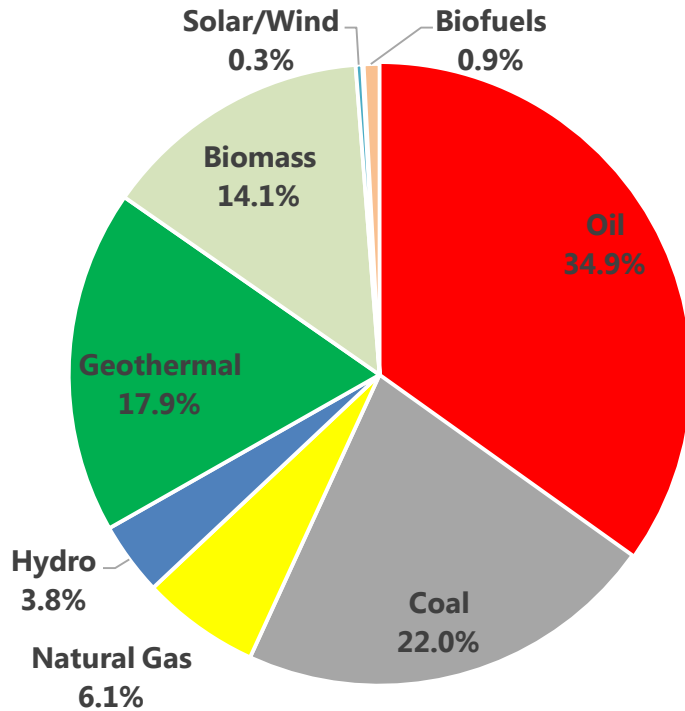
By Fuel Type



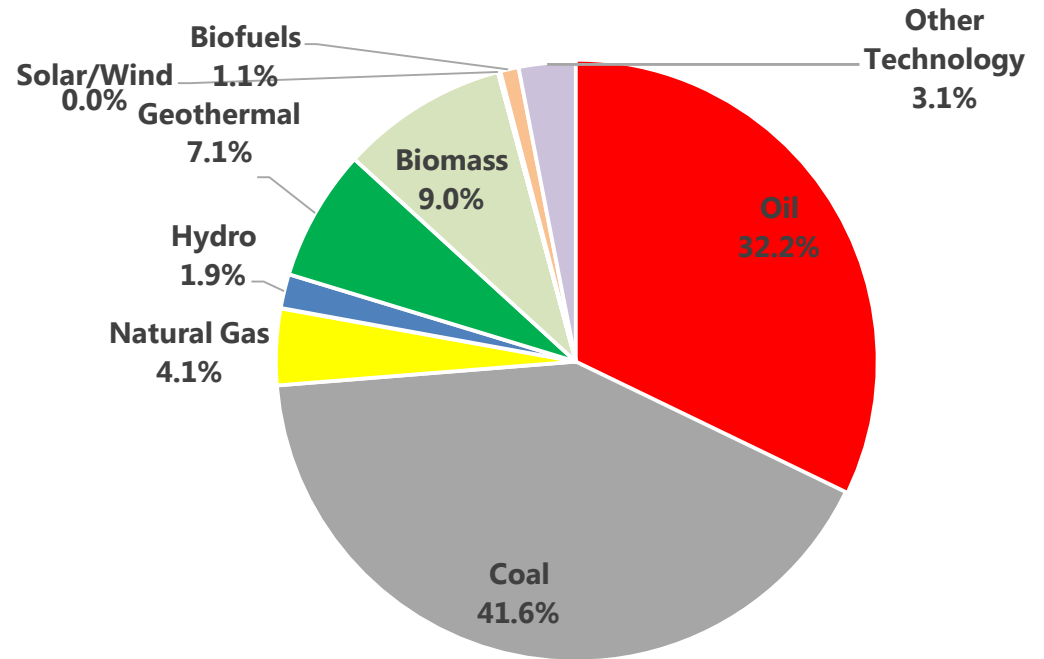
By Sector



Where we are headed: Primary Energy Mix 2016 and 2040



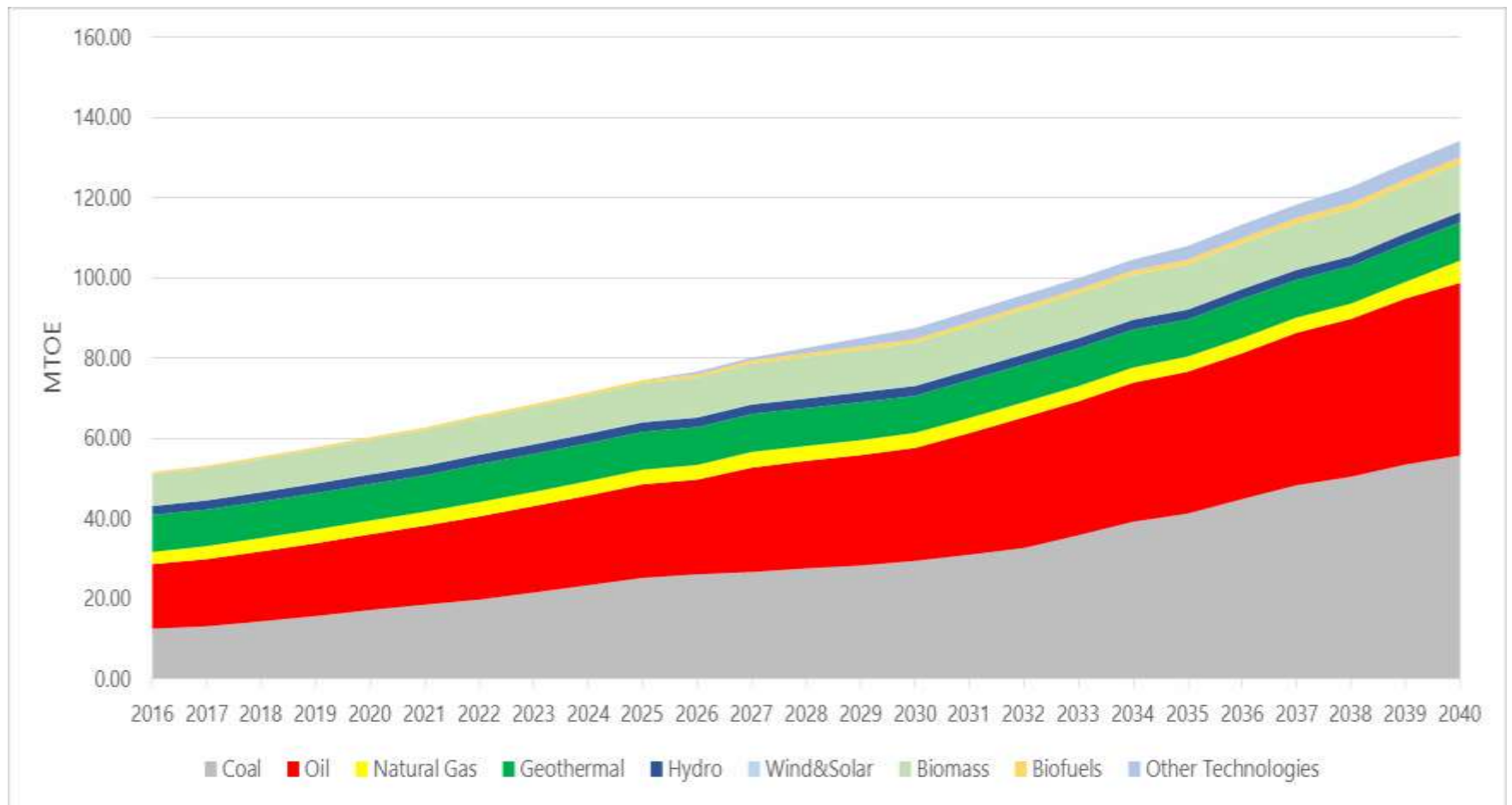
2016 Actual
Total Energy: 53.2 MTOE



2040 Outlook (Clean Energy Scenario)
Total Energy: 134.2 MTOE



Where we are headed: Energy Supply Outlook 2016-2040

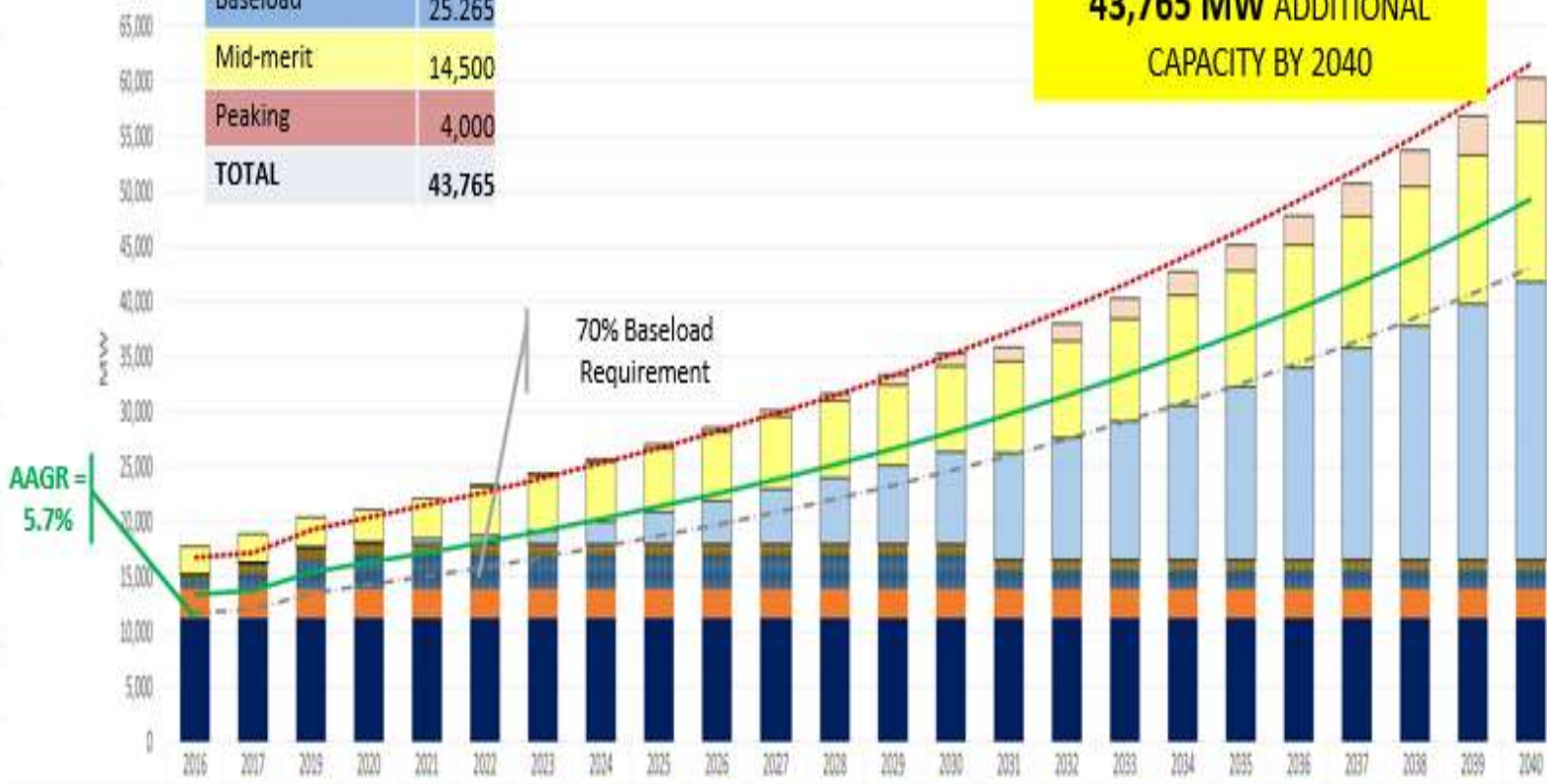


Where we are headed: Additional Power Capacities 2017-2040

- Capacity Addition - Peaking
- Capacity Addition - Midmerit
- Capacity Addition - Baseload
- Committed Peaking
- Committed Midmerit
- Committed Baseload
- Existing Peaking
- Existing Midmerit
- Existing Baseload
- Reserve Requirement
- System Peak Demand
- 70% baseload Req

Capacity Addition	MW
Baseload	25,265
Mid-merit	14,500
Peaking	4,000
TOTAL	43,765

**THE PHILIPPINES WILL NEED
43,765 MW ADDITIONAL
CAPACITY BY 2040**



New Policy Initiatives

- Executive Order No. 30 (EO 30)
 - Creating the Energy Investment Coordinating Council (EICC) in Order to Streamline the Regulatory Procedures Affecting Energy Projects
 - Classification of Energy Projects of National Significance (EPNS)
 - Capital Investment of at least PhP 3.5 Billion
 - Contribution to the country's economic development
 - Consequential economic impact
 - Potential contribution to the country's balance of payments
 - Impact on the environment
 - Complex technical processes and engineering designs
 - Infrastructure requirements



New Policy Initiatives

- Energy Resiliency Policy
 - “Adoption of Resiliency Planning and Program in the Energy Industry to Mitigate Adverse Effects Brought About by Disasters”
 - Promotes planning and investment to ensure nation’s energy infrastructure continues to deliver while anticipating and reducing vulnerabilities



Challenges

- Ensuring energy security, reliability and reasonably-priced energy
- Passage of energy-related bills (e.g. energy efficiency and conservation, etc.)
- Harmonization of laws/policies
- Social acceptability of energy resources or technologies
- Energy resource development hindered by transnational / geographical boundaries



Challenges

- To strengthen energy security, expand energy access and promote technology neutrality
 - Integrated LNG
 - Nuclear



Korea's Singori Nuclear Plant
(Source: <http://www.koreaitimes.com/images/singori.jpg>)



LNG Tanker
(Source: <https://energy.gov/fe/science-innovation/oil-gas/liquefied-natural-gas>)



Thank You!

