









# Reactions and Insights

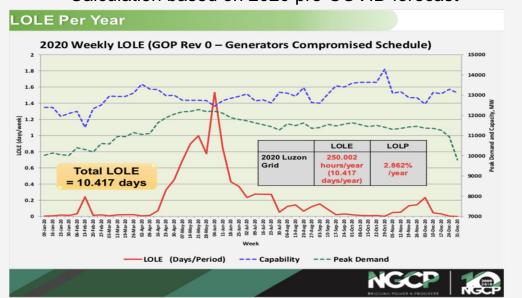
PDIS Public Webinar | Future-Proofing Energy Security



## PIDS Paper 1: Electricity Supply Interruptions in the Philippines: Characteristics, Trends, Causes

- The most expensive electricity is no electricity
- No electricity translates to economic losses (VOLL): Php 210.68/kwh (2020)

# Estimate Required Capacity Calculation based on 2020 pre-COVID forecast



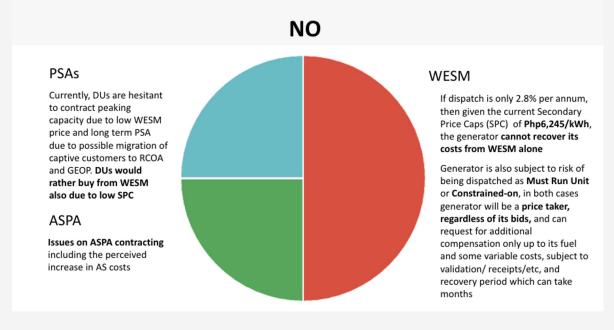
#### Loss of Load Expectation (LOLE)

Year	2020	
LOLE	24 hours/yr. (1 day/yr.)	0.24 hour/yr. (0.1 day/yr.)
Required Cap Addition, MW	~1,164	~2,125

Given that generation capacity can serve the Luzon grid, except for 250 hours, then from this analysis, Luzon grid seems to need 1,164 MW additional capacity to serve 250 hours in a year or 2.8% in a year

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# Will the investor build the generator based in the 1,164MW calculated need alone?



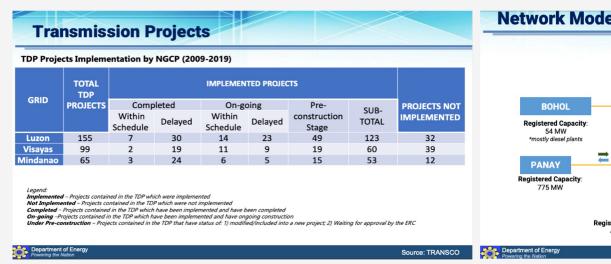
The current system cannot support the additional capacity

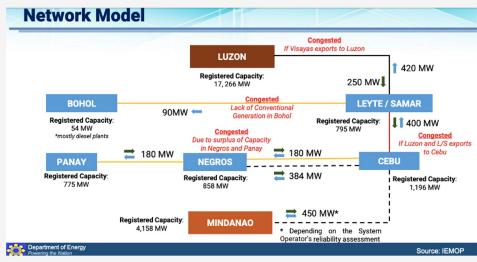
#### **BARRIERS TO ENTRY**

- Limited markets
- Contracting
  - Delays
  - Limited opportunities
  - Problematic ECs
- Transmission Constraints
  - Stranded Capacity
  - Infrastructure Delays
- Permitting bureaucracy, despite EVOSS
- Regulations
  - Slow approval process
  - High risk of penalties from high standards

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Delays in transmission facilities causing congestion or stranded capacities for some generators





Source: DOE slides, June 10, 2022 Senate Hearing



## PIDS Paper 2: The Implications of Developing a Philippine Nuclear Energy Program

- Project Economics for new technologies
- EPIRA: Generation Sector is open for private sectors only
- IAEA Guidelines should be followed

#### 19 Infrastructure Issues



#### Social Issues

#### Careful consideration to:

- Education
- Planning
- Technology transfer

In the meantime, incentives for other sources of energy (renewable, natural gas) should be increased to address energy security

# Thank you!

