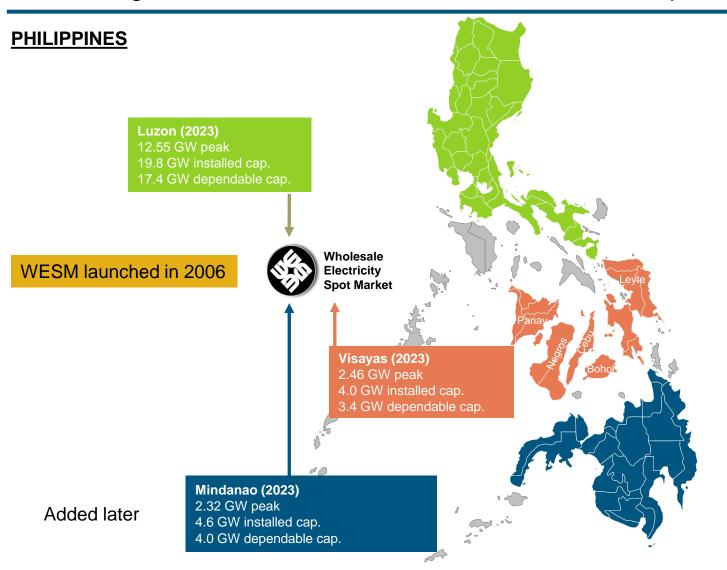


TLG Support to Actis' investment in a 3.5 GW Solar+BESS Hybrid Project

April 2025



## Attractive growth fundamentals and versatile market for power development

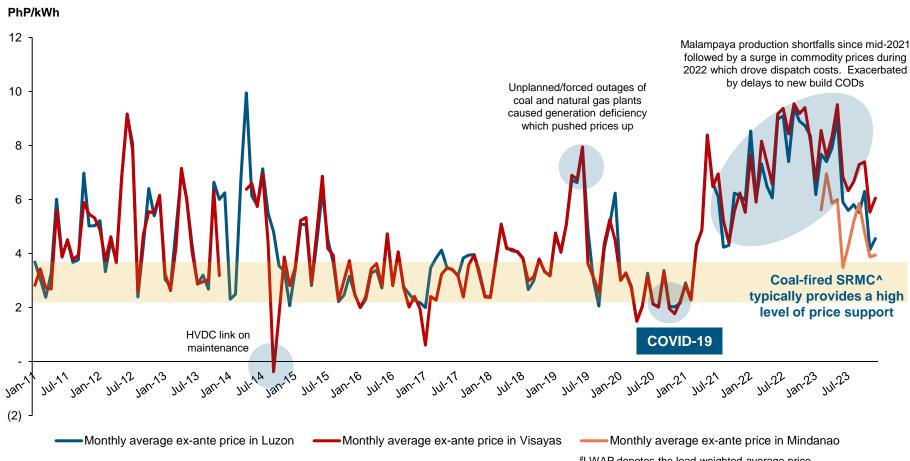


- Small but complex
- Energy only market design
- Spot market operational since 2006
- More than 90% private sector (post privatization)
- 5-6% per annum growth
- Nodal pricing (transmission)
- Three main interconnected regions



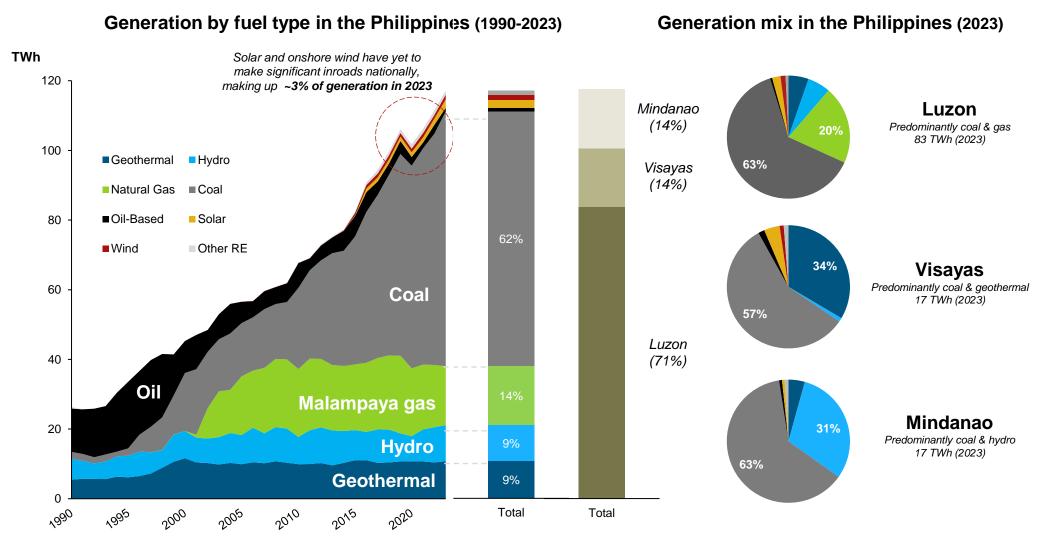
## Energy only spot market with highly volatile prices – attractive for storage

## Monthly average Luzon, Visayas & Mindanao LWAP# (Jan 2011 - Dec 2023)



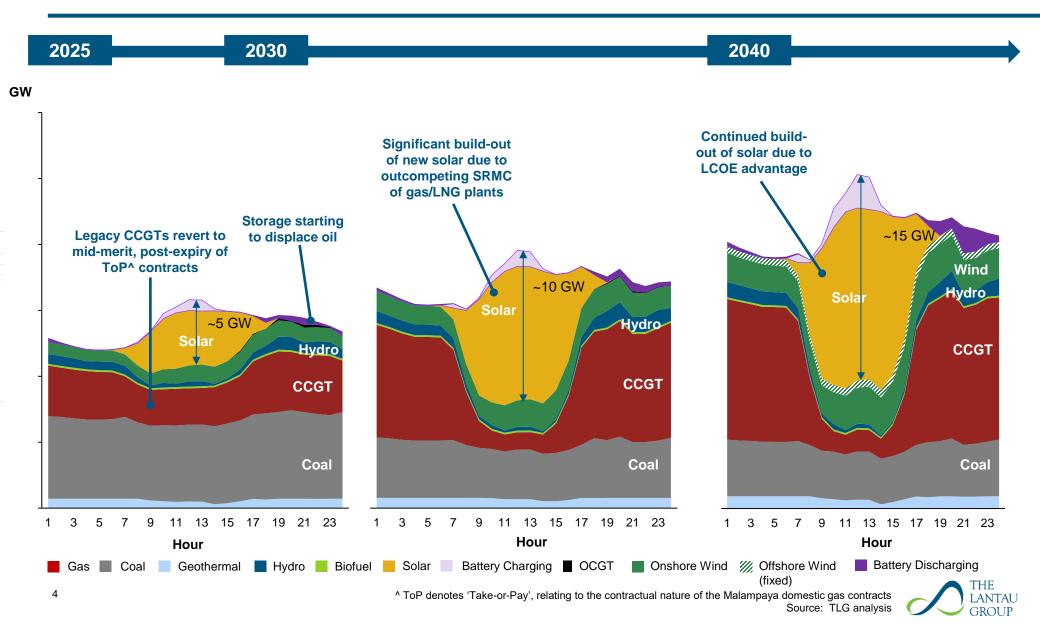
## **Philippines**

Multiple fuels. Domestic gas is depleting with shift to imported LNG. Commercially active RE sector but still small in generation (TWh) terms

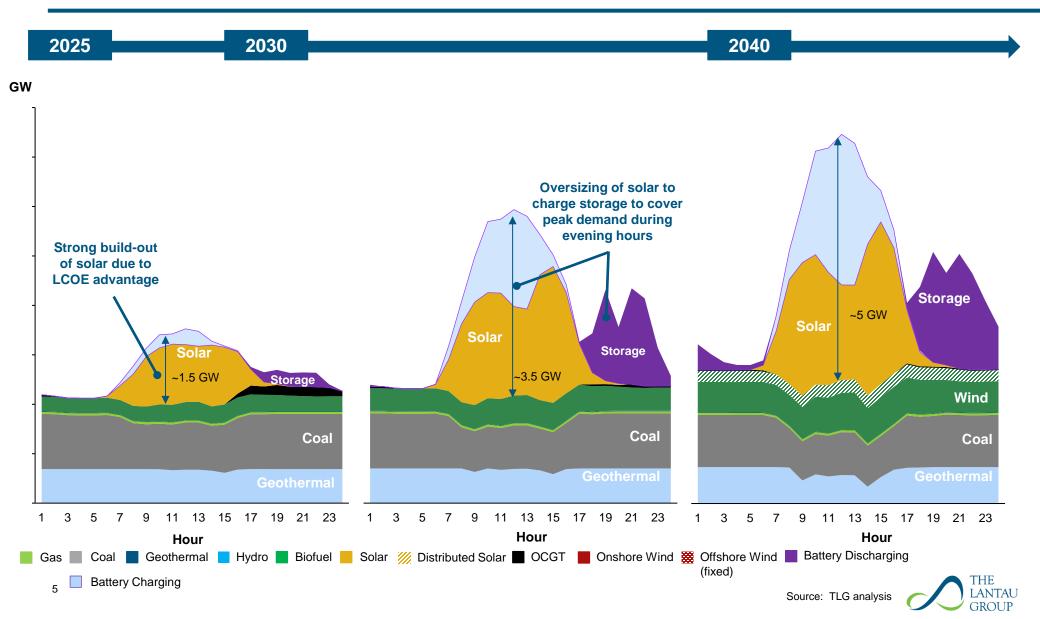




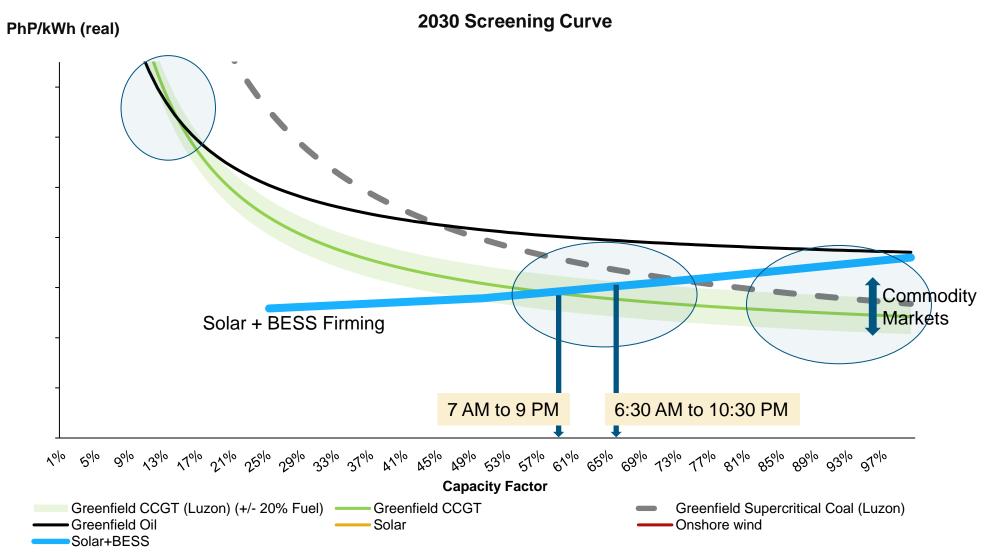
# **Luzon** – solar expected to grow exceptionally over next 15 years based on fundamentals



**Visayas** – shifts to solar and storage more aggressively as the alternative is typically diesel or coal

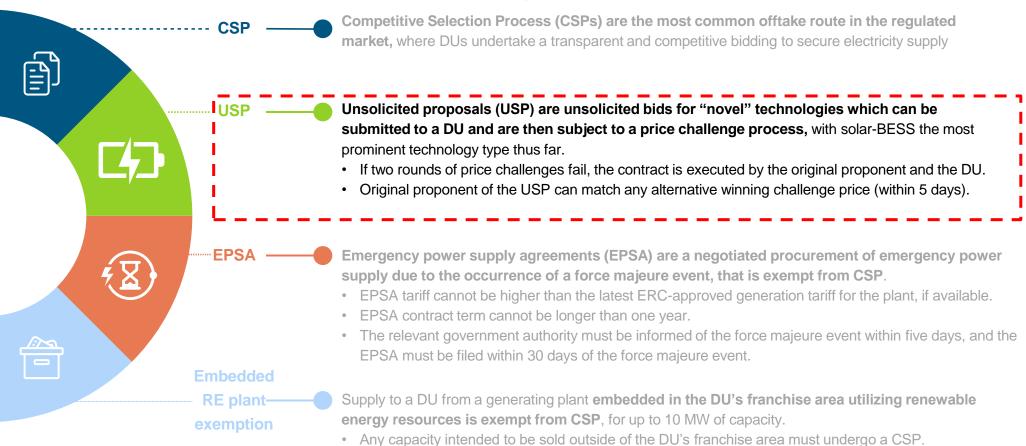


Solar+BESS is emerging as an attractive mid-merit solution given commodity fuel market volatility and uncertainty



# Philippines has an advanced electricity market with multiple "routes" to commercialise projects and some slightly more favourable options for RE

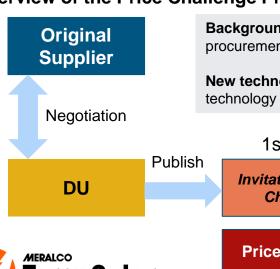
## Offtake routes in the regulated market



CSP guidelines October 2023 set the maximum term of power supply agreements set out as 10 years for financial PSAs, 15 years for physical PSAs and 20 years for PSAs involving RE plants

# Open auctions (CSPs) or price challenges under unsolicited proposals (USPs) are allowed under Philippines contracting regulations for public distribution businesses

### **Overview of the Price Challenge Process**



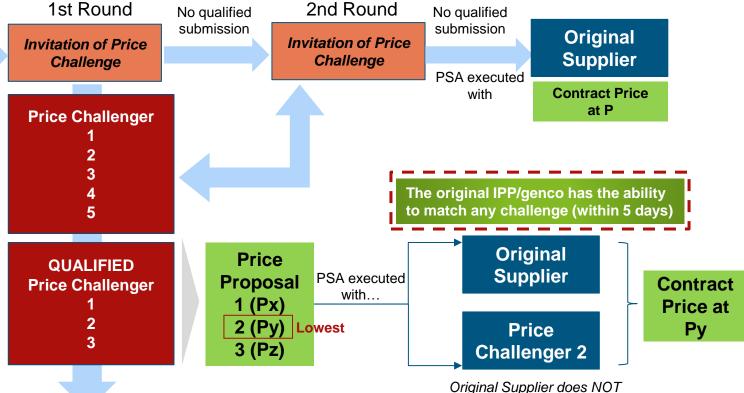
Background: In late 2021, the DOE amended its competitive selection process (CSP) policy to allow for the procurement of power through unsolicited proposals, but only for new technology.

**New technology:** In this context new technology refers to novel or a novel use or arrangement of existing technology that has not yet been commercially operating or applied in the Philippines.



#### Terra Solar

- · Terra Solar went through the USP process. SMC Global Light and Power and SunAsia Energy were expected to submit a price challenge
- However, neither submitted a bid so the original contract through a direct bilateral negotiations and finalisation with Meralco.



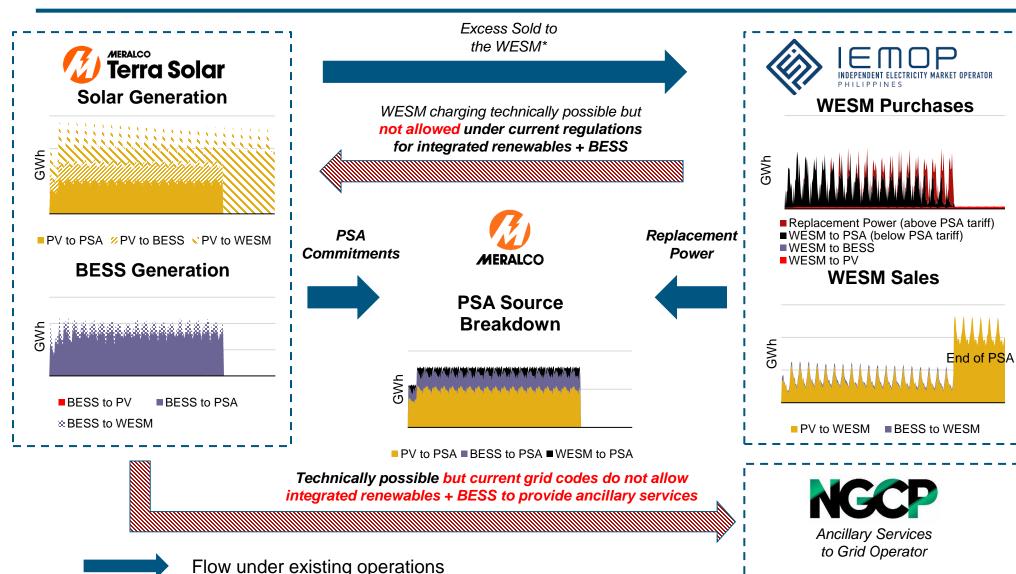
exercise price match

Source: TLG research and analysis

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# BESS integration subject to numerous project-specific constraints that can hopefully be removed to enhance system-wide value

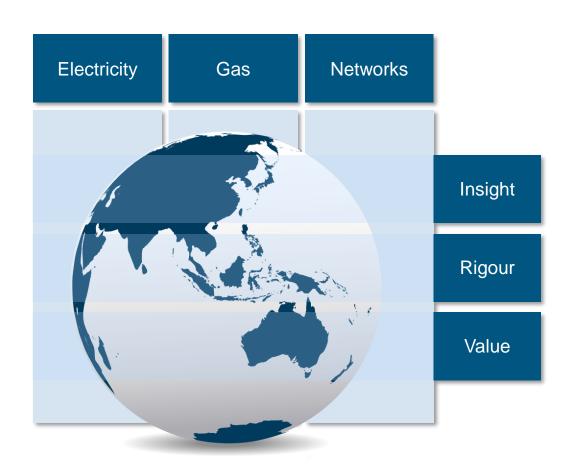


## Insights

- Solar + BESS economics are increasingly favourable in the Philippines
  - LNG imports and (locationally oriented oil use) are the "avoided cost" setting fuel
  - Grid is reasonably robust (with nodal pricing) but grid connection and general development timing and uncertainty are becoming more constraining
  - Evening peaking (with relatively higher WESM spot prices) has been a long-term feature of Philippine macro-economy making BESS integration attractive
- Compared to other ASEAN markets, the Philippines sees (by far) the most commercial activity around RE and BESS development – because the WESM is a robust core market design.
  - And because a variety of contracting and bilateral negotiation options exist
  - Ancillary services markets also provide supportive value for BESS participation and contracting
- Nevertheless, there is a lot of room for improvement:
  - BESS must be integrated with RE site or BESS would not be treated as RE for favoured tax status
  - BESS cannot be charged from WESM (grid) or must pay grid charges as if a "load"
  - Not able to participate in AS markets
- Consequently, projects are optimized, not systems this is not efficient



## End



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