

Philippines Grid Diagnostic and Roadmap for Smart Grid Development



PROJECT SNAPSHOT

Country: The Philippines

Unprepared for the influx of renewable energy, the national grid is struggling. Increased variable energy from renewable sources is already causing power interruptions in some regions, preventing new renewable projects from connecting and displacing fossil fuel plants.

This project will analyze the grid's capacity to handle additional renewable energy and manage its impact. We will also examine the governance of grid investments, proposing recommendations for a strategic transmission planning framework to ensure a stable and sustainable energy future.

ETP'S CONTRIBUTION

The project will ensure that the transmission grid is developed in parallel with renewable energy development. ETP established a robust grid system which is critical for the energy transition in the Philippines. All the committed renewable energy projects can be connected to the grid when they are constructed, reduce curtailment, and ensure sustainable supply.



IMPACT

→ Increased share of renewable energy, achieving the 50% target by 2040



OUTCOME

- Improved transmission planning aligned with renewable energy development
- Enhanced capability to manage the grid with higher variable renewable energy generation



OUTPUT

- Smart grid roadmap for the transmission grid
- Recommendation to enhance transmission planning and governance
- Workshops on smart grid
- BESS simulation analysis

CONNECT





ENERGY
TRANSITION
PARTNERSHIP

STRATEGIC OUTCOME 3

Sustainable and resilient infrastructure



IMPLEMENTATION PARTNERS

Ricardo AEA



STAKEHOLDERS

Department of Energy and Energy
Regulatory Commission



PROJECT DURATION

September 2022 - November 2024

Key Outputs

- Roadmap for the adoption of smart grid technologies
- Analysis of the transmission governance and planning process
- Battery Energy Storage Simulation Analysis (BESS)

CONTACT DETAILS

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