

## Kongres Container

# Philippines containerized power generation



## Overview

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What is the project 'Philippines - decarbonisation of electricity generation - tidal stream & solar'?

Approach to Transformational Change: The project “Philippines - Decarbonisation of Electricity Generation on Philippine Islands - Using Tidal Stream and Solar PV”, will provide both funding (via the financial cooperation (FC) component) and advisory support (via the technical cooperation (TC) component).

Will Luzon expand its energy portfolio?

Luzon, whose demand is projected to increase by 5.4% to 14,769 MW, is poised to further expand its energy portfolio with 3,923 MW of renewable energy projects, mainly solar, complemented by 1,320 MW of natural gas and 500 MW of coal capacity to diversify its power mix.

What is the future of electricity in the Philippines?

In practical terms, there's been a rise in data centre, domestic (especially for cooling), and industrial electricity demand, given the expected spike in manufacturing. In 2023, electricity consumption in the Philippines reached approximately 118,000 gigawatt-hours. But coal remained the dominant source of power generation (about 60%).

What is the electricity mix in the Philippines?

For the year 2024/2025 the data source is aggregated data from the last 12 months (2024-09 to 2025-08) . For the months 2024-09 to 2025-08 the data source is Ember . Philippines's electricity mix includes 58% Coal, 16% Gas and 11% Hydropower. Low-carbon generation reached a record high in 2025.

Does hybridization improve energy resilience in Philippine off-grid Islands?

To address the issues of costly, unreliable, and unsustainable electricity supply in Philippine off-grid islands, studies have proposed hybridizing the

diesel generator assets of NPC-SPUG. Hybridization also increases the energy resilience of island communities .

How many megawatts of power will be completed in 2025?

The Department of Energy (DOE) has identified around 7,000 megawatts (MW) of power projects slated for completion in 2025, a move that, once it comes to fruition, will enhance the country's energy sustainability, meet rising electricity demand, and improve the reliability of the energy supply while minimizing environmental impacts.

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