

Indonesia Smart Integrated Power Project



Overview

With support from the United Nations, the electricity grid on the central islands of Java, Madura, and Bali – home to over 160 million people – is now being upgraded and modernized to accommodate fluctuating energy loads from solar and wind power. “As a result of our cooperation with the UN, we now. WASHINGTON, DC, September 25, 2025 – The World Bank today approved the Indonesia Electricity Network Transformation (I-ENET) Program, a US\$500 million operation to help Indonesia modernize its electricity distribution system in the Java, Madura, and Bali regions. The proposed World Bank I-ENET Program for Results operation will support the implementation of Indonesia's vertically integrated electricity utility. Jakarta – PLN is promoting a smart grid and inter-island grid development strategy over the next decade as part of the government's efforts to ensure that the majority of the 71 gigawatts (GW) of additional electricity capacity until 2034 is sourced from renewable energy. SOE Minister Erick Thohir. Evy Haryadi, Director of Transmission and System Planning at state-owned PT Perusahaan Listrik Negara (PLN), emphasizes the importance of this initiative: “Our cooperation with the UN has provided us with a framework for developing a smart grid that integrates renewable energy seamlessly.



Article Content

Oct 30, 2025

Design dd

Under the ASEAN Power Grid (APG) programme, the first multilateral power trade was successfully initiated under the Lao PDR-Thailand-Malaysia-Singapore Power Integration Project (LTMS-PIP).

Oct 23, 2025

Smart grids, inter-island networks: PLN's 10-year

Jakarta - PLN is promoting a smart grid and inter-island grid development strategy over the next decade as part of the government's efforts to

Jul 16, 2025

Indonesia Smart Energy Grid Innovation | Case Study

This energy case study highlights how smart grids and renewables improved supply reliability and grid performance in key provinces.

Apr 03, 2026

Executive summary - Enhancing Indonesia's Power

Enhancing Indonesia's Power System - Analysis and key findings. A report by the International Energy Agency.

Dec 26, 2025

How Siemens' Smart Grid Technology Can Help

In short, the challenges for Indonesian power are big but so too are the opportunities. And at Siemens, we believe our smart grid technology is key to

Mar 12, 2026

"Smart grid" helps accelerate energy transition in Indonesia

The plan is designed to align Indonesia's climate commitments with the SDGs and enhance national energy resilience. The smart grid and, at its core,

Aug 22, 2025

Indonesian Energy Minister takes part in IEA webinar series on the

As part of its deepening partnership with Indonesia, the International Energy Agency recently held a series of webinars and on smart grids and power sector interconnection with

Jun 05, 2026

Massive Energy Transition of Indonesia - Focus on

Particularly, the RUPTL 2025-2034 focuses on renewables. The RUPTL also signals opportunities for private sector investment as Independent

Jan 16, 2026

Smart grid accelerates Indonesia's energy transition

This effort is largely driven by the implementation of smart grid technology, which aims to enhance energy efficiency and integrate renewable

Mar 14, 2026

Indonesia's energy crossroads: Turning ambition into action

Addressing this surge sustainably necessitates substantial investments in automated energy systems, enhanced energy efficiency

Oct 27, 2025

Indonesia's green powerhouse promise: Ten bold moves

By identifying and acting on the opportunities on the road to net zero, Indonesia could—with ten strategic initiatives—help ensure a secure, green, and

Sep 18, 2025

"Smart grid" helps accelerate energy transition in Indonesia

With support from the United Nations, the electricity grid on the central islands of Java, Madura, and Bali - home to over 160 million people - is now

Sep 10, 2025

The Future of Indonesia's Energy Runs Through a

Indonesia's pathway toward net-zero emissions is reshaping how its electricity system operates today and in the years ahead. Electricity demand

Dec 11, 2025

Indonesia: Indonesia Electricity Network Transformation (I-ENET ...

The proposed World Bank I-ENET Program for Results operation will support the implementation of Indonesia's vertically integrated electricity utility, PT Perusahaan Listrik Negara's (PLN's) smart grid,

Mar 13, 2026

Implementation of Smart Grids in Indonesia

As part of the power system transformation in Indonesia, the 2020-2024 National Medium-Term Development Plan (RUPTL) will include the deployment of smart grids. This webinar

Sep 04, 2025

The Effect of Smart Grid Implementation on the

Abstract This study examines the effect of smart grid implementation on the integration of new renewable energy (NRE) in the Indonesian electricity system

Dec 20, 2025

Smart Grid Development in Indonesia

The development of a smart grid in Indonesia is to answer the challenges of electricity supply (efficiency / losses, reliability, resiliency and sustainability)

Sep 13, 2025

Energy Transition: Powering Toward a Golden Indonesia

Indonesia's 600+ island power grids face challenges with outdated transmission and distribution planning focused on fossil fuels. To address this, GIZ supports the government to adapt power

Jun 28, 2025

Smart Grid Development in Indonesia

2 Power plant Digitalization, e-mobility, Digitalization of T& D, Micro grids (De-dieselization), PLN Mobile and others. At the short term, the road map implementation of the smart grid in Indonesia focuses on

Aug 25, 2025

Smart Grid Implementation and Its Current Status in

1. Smart Grid Study: Renewable energy grid integration, Grid defense scheme and stability system, DC House for rural electrification, Wide Area

Aug 02, 2025

New World Bank Support to Help Indonesia Transform Its Electricity

The Program will support Indonesia's energy sector development goals by expanding the integration of renewable energy and accelerating the digital transformation of the electricity grid.

Feb 09, 2026

Smart Energy System Market and Business in Indonesia

Smart Energy System Market in Indonesia is rapidly expanding with a target of producing 23%-31% power from renewable energy by 2025.

Apr 03, 2026

Indonesia's new power development plan: Highlights from the

Indonesia's New Electricity Supply Business Plan (Rencana Usaha Penyediaan Tenaga Listrik or RUPTL) from PT Perusahaan Listrik Negara (Persero).

Oct 01, 2025

Pioneering smart grids for Indonesia - the case of a smart grid

Smart-grid technologies can facilitate solutions for demand growth, energy access and renewable integration. This study presents the establishment of a smart grid roadmap for Indonesia's

May 13, 2026

CNTE BESS Manufacturer | Battery Energy Storage

CNTE pioneered smart BESS charging in China. Has leading energy storage system integration capabilities. Professional talents account for over 50% of the firm.

Nov 02, 2025

Realizing Indonesia's Ambitious Renewable Energy Goals Calls for a

Realizing Indonesia's Ambitious Renewable Energy Goals Calls for a New Approach
Indonesia aims to install 42.6 gigawatts (GW) of renewable energy by 2034, driven primarily by solar power additions.

Contact Us

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