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INCLUSIVE ENERGY TRANSITIONS IN SOUTHEAST ASIA AND BEYOND

Cross-Regional Learning from South Asia

10–12 February 2026 • Jakarta, Indonesia



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L4009-INO: Sustainable Energy Access in Eastern Indonesia- Electricity Grid Development Program Phase 2

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Program Outcome and Outputs

Loan and Grant Amount: \$551m Loan , \$3m JFPR, \$3m ACEF
Disbursed: 98.5% (loan), 100% (JFPR), 16.6% (ACEF)
Loan Approval: 24 Nov 2020, Loan signing: 8 December 2020
Program closing date: 31 Dec 2025
Loan closing date: 30 June 2026

IMPACT

The quality of life in Indonesian society is enhanced through the use of electricity

OUTCOMES

Benefits and welfare of beneficiaries.

Sustainable, equitable and reliable access to electricity for the population in Kalimantan, Maluku, and Papua enhanced.

OUTPUTS

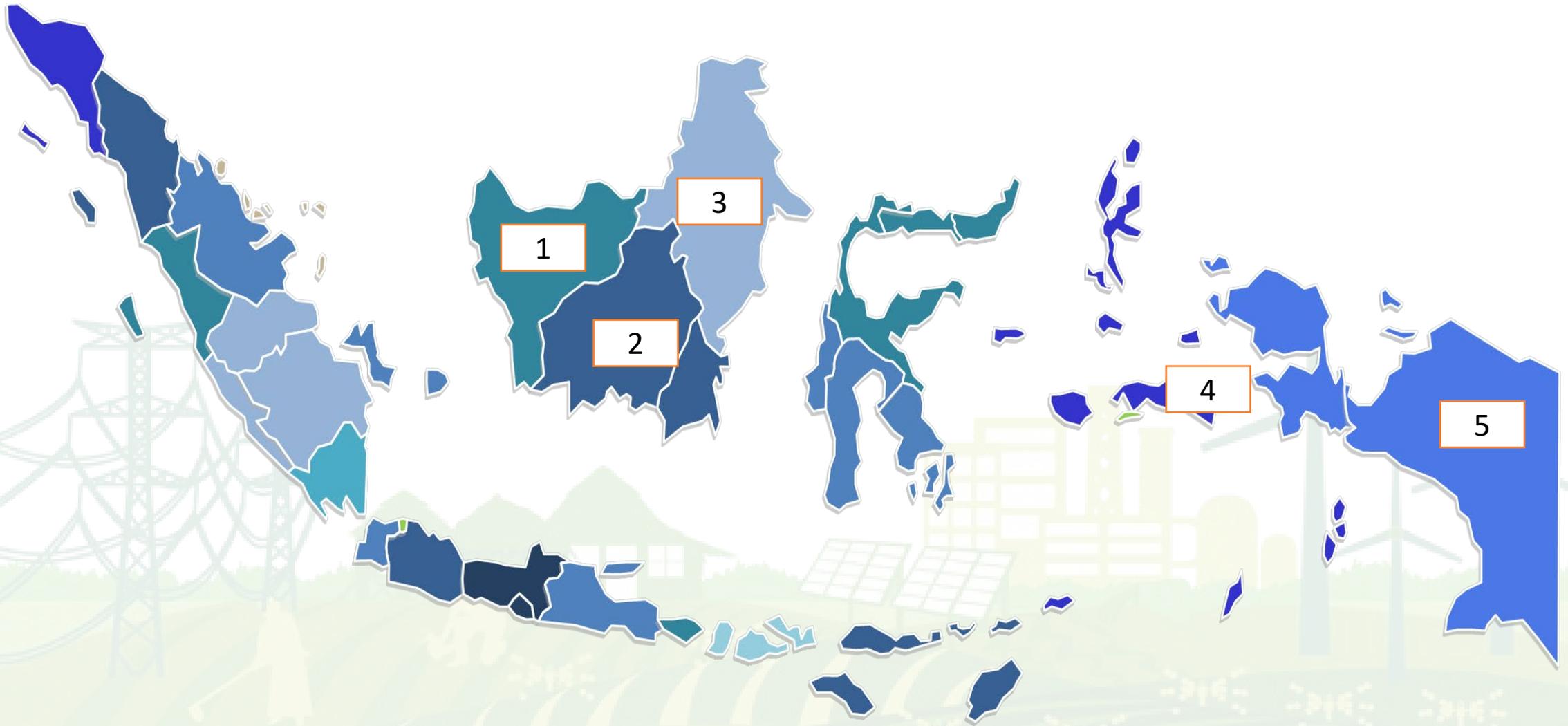
Goods and services delivered; institutional strengthening achieved.

Output 1:
Power distribution network strengthened & expanded

Output 2:
Renewable energy use increased

Output 3:
Institutional capacity strengthened & social monitoring enhanced

Program Location



Baseline 2018 up to Mid-2025

Distribution lines increased from 47,6k to 66,2k ckm

191 Small-scale RE plants:
47 baseline RE +
144 new RE

Electrification Ratio from 2023 to 2024
96.2% to 96.37% (KALIMANTAN)
75.71% to 78.46% (MALUKU PAPUA)

Expanded access to electricity increased from 5.2m to 7.5m customers

An additional 318,409 poor HH had access to electricity:
100,725 poor female headed HHs (31.6%)

Improved reliability service with permanent interruption from 19.5/100 to 1.72/100 ckm

JFPR Grant

Beneficiaries

- 954 poor HHs were connected to electricity of which 230 female HHs (24%).
- 587 poor HHs will be connected to electricity soon with at least 137 female HHs (23%).

Female Headed Poor HHs with Disability

- Ibu Ema from Mendawai Village, Palangkaraya, Central Kalimantan obtained electricity in July 2023
- Inclusive development and ensure equal rights and opportunities in all aspects of life
 - Law No 8/2016 on Persons with Disabilities
 - Ratified UN Convention on the Right of Persons with Disabilities
- Cost efficiency:
 - from kerosene to PLN electricity
 - \$5.5/month to \$0.6/month

IMPACT STORY



Female poor HHs in Wapsalit Village, South Buru, Maluku (left) and Ibu Naeng Wael's house (right)

Female Headed Poor HHs

- Ibu Naeng, a peanut farmer, obtained electricity connection in April 2025
- Cost efficiency & could expand activity:

Initial condition

used 10L kerosene/month with \$8/month for limited lighting and children walked an hour to study at village common room

After connected to electricity

just started spending \$1.2 when the mission interviewed her. The family could have a wider lighting coverage so that children did not need to walk to the village for an hour to study. She planned to purchase rice cooker and will start a small home business to supplement her income.



Foto: Nuraini Umar, perempuan kepala keluarga di Maluku Utara, penerima sambungan listrik PLN.

Photo: Nuraini Umar, female head of household in North Maluku, recipient of PLN electricity connection.

Initial condition

Ibu Nuraini used a small kerosene lamp in the night before she got electricity in North Maluku.

After connected to electricity

She can light up her residence with PLN electricity which is more reliable and brighter than before.

Other Poor Female HH in Merauke, Papua

Ibu Martha obtained electricity in Dec 2023.

Increased safety and reliability from using candles to spending \$0.75/month for PLN electricity.

Dispenser, electric fan, 4 lighting bulbs, phone charging.

Planned home business (baking cakes) and sell via online marketplace

IMPACT STORY



Business Customer

- Established in 1996 in Tual, Maluku with main business on fishery port and cold storage.
- Initially, it operated its own four power generating plants with 1 MW each as PLN's power generating plants were not sufficient to supply electricity.
- New electricity connection from PLN in March 2020 with 66 kVA and was further upgraded to 830 kVA
- **Fuel cost savings from \$76,360/month to \$18,180/month**
- **Lower number of workers for operational and maintenance of its own power plants that are used as back up only.**

Process to confirm achievement

Monitoring & Evaluation

PLN HQ & Units monitor & evaluate the data and submits quarterly report to ADB & Independent Verification Agent (IVA).

Data: number of PLN customers, poor HHs provided with PLN electricity, feeder line permanent interruption, total new length of distribution lines, power generation from RE

Data Verification

Data assessment through field & desk verification by IVA who submits the report to ADB

Safeguards Screening

Exclude Category A on Social and Environmental Safeguards

- Social: Involuntary Resettlement, Indigenous People, Land Donation
- Environment: Key Biodiversity Area, Protected Area, Cultural Heritage

Process to confirm achievement

Meaningful Consultation

Affected persons: vulnerable group: poor HHs, customary communities (IP/indigenous people), women, children/youth
Consultation records: issues and agreements reached with participants segregated by gender and IP status
Grievance Redress Mechanism (GRM): all complaints and remedial measures recorded

Compensation

Improved transparency and fair compensation: negotiated land acquisition and voluntary land donation to ensure same or better level of income or livelihood.

Written agreements: land use (distribution transformer), voluntary land donation (RE)

Donor: not poor, not lose > 5% of total land, not ancestral land and not in sacred areas

Proper mitigation: compensation or income restoration program

Corrective Actions

Complaint handling: PLN reviews it along with compensation record

Corrective actions: implemented & documented if adverse impacts of livelihood are identified

THANK YOU

For more information, please contact:

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