

CONTRIBUTION TO THE ADB RESULTS FRAMEWORK¹

No.	Level 2 Results Framework Indicators (Outputs and Outcomes)	Targets	Methods ^a /Comments
1	New households connected to electricity (number)	893,700 additional new households by 2024	Based on the 10-year business plan (RUPTL) for new household additions callibrated to the DLI targets for all customers (residential, commercial, industrial, public).
2	Distribution lines installed or upgraded (kilometers)	25,189 km of additional mid-voltage and low-voltage lines installed by 2024	PLN uses circuit-kilometers (ckm; the power line length in kilometers [km] times the number of circuits) in the RUPTL and for corporate monitoring purposes. In Kalimantan, Maluku, and Papua, most MV lines and all LV lines are single-circuit. The km targets are calculated by applying a km/ckm ratio of 90% and 100% for MV and LV lines, respectively, based on estimates by PLN regional staff.
3	Installed energy generation capacity (megawatts) - Renewable	55 MW by 2024	The program uses power generation, not capacity addition, to help incentivise and ensure continued maintenance and operation of remote renewable energy systems. The DLI target at the end of 2025 is 88,000 MWh of power generation per year, which assumes 55 MW of new capacity operating for 1,600 full load-equivalent hours per year (approx. 18% capacity factor). These only include solar PV under 10 MW, small and micro-hydro under 1 MW, and biogas systems under 100 kW deemed eligible under RBL.
4	Greenhouse gas emission reduction (tons of carbon dioxide-equivalent per year)	70,400 tCO ₂ -e per year by 2025	See above for assumptions on installed renewable energy capacity and operating hours. The baseline scenario for these remote areas is the use of diesel gensets with emission factors typically above 1.0 kg/MWh. For this calculation a conservative emission factor of 0.8 kg/MWh is applied based on an average of grid emission factors across Maluku, Papua, and Kalimantan.

ADB = Asian Development Bank, ckm = circuit-kilometer, DLI = disbursement-linked indicator, kg = kilogram, km = kilometer, LV = low voltage, MW = megawatt, MWh = megawatt-hours, MV = mid voltage, PLN = State Electricity Company, RUPTL = Electricity Power Supply Business Plan.

^a ADB. 2011. *Manual for Calculating Energy Output Indicators*. Manila.

Sources: PLN and ADB estimates.

¹ ADB. 2013. *Guidelines for the Use of ADB's Results Framework Indicators for Core Sector Outputs and Outcomes*. Manila.