

**PROGRAM RESULTS FRAMEWORK**

<b>Disbursement-Linked Indicator</b>	<b>DLI (Yes/ No)</b>	<b>Baseline and Year</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
1. <b>Expanded access to electricity services:</b> number of total customers increased by an average annual rate of at least 5.6% to reach at least 6.99 million customers by 2020	Yes/ DLI 1	2016 baseline: 5.62 million customers	At least 5.90 million customers connected	At least 6.27 million customers connected	At least 6.62 million customers connected	At least 6.99 million customers connected	
2. <b>Growth in delivered electricity services:</b> total annual electricity sales increased by an average annual rate of at least 8.5% to reach at least 15,710 GWh by 2020, with an equal or higher growth rate for commercial customers to reach at least 3,234 GWh annual sales by 2020	Yes/ DLI 2	2016 baseline: Energy sales 11,336 GWh (2,334 GWh to commercial customers)	At least 12,300 GWh or more of energy sales to customers (at least 2,532 GWh to commercial customers)	At least 13,345 GWh or more of energy sales to customers (at least 2,747 GWh to commercial customers)	At least 14,480 GWh or more of energy sales to customers (at least 2,981 GWh to commercial customers)	At least 15,710 GWh or more of energy sales to customers (at least 3,234 GWh to commercial customers)	
3. <b>Improved reliability of services:</b> Feeder line permanent interruptions in the distribution system reduced by an average annual rate of at least 5% to reach less than 15.82/ 100 ckm by 2020 <sup>a</sup>	Yes/ DLI 3	2016 baseline: MV feeder permanent interruptions 19.43/ 100 ckm	MV feeder permanent interruptions less than 18.45/ 100 ckm	MV feeder permanent interruptions less than 17.53/ 100 ckm	MV feeder permanent interruptions less than 16.66/ 100 ckm	MV feeder permanent interruptions less than 15.82/ 100 ckm	
4. Number of distribution transformer units installed increased by an average annual rate of at least 5.6% to reach at least 50,721 by 2020	Yes/ DLI 4	2016 baseline: 40,788 units installed	At least 43,072 distribution transformer units installed	At least 45,484 distribution transformer units installed	At least 48,031 distribution transformer units installed	At least 50,721 distribution transformer units installed	

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5. Additional length of medium-voltage (MV) <sup>b</sup> distribution lines installed increased by an average annual rate of at least 5.6% to reach at least 58,764 ckm by 2020, with an equal or higher growth rate for Lombok and Flores combined to reach at least 7,388 ckm by 2020	Yes/ DLI 5	2016 baseline: 47,256 ckm of MV distribution lines installed (5,941 ckm in Lombok and Flores)	At least 49,902 ckm of MV distribution lines installed (at least 6,274 ckm in Lombok and Flores combined)	At least 52,697 ckm of MV distribution lines installed (at least 6,626 ckm in Lombok and Flores combined)	At least 55,648 ckm of MV distribution lines installed (at least 6,997 ckm in Lombok and Flores combined)	At least 58,764 ckm of MV distribution lines installed (at least 7,388 ckm in Lombok and Flores combined)	
6. Pilot-scale smart grid projects implemented in at least 4 areas by 2021.	Yes/ DLI 6	2016 baseline: 0 SG projects in SNT that are in line with Corporate SG Roadmap	SG Guidelines based on Corporate SG Roadmap issued, pilot projects in 4 PLN Areas selected	Project design developed, 2 pilot SG projects start procurement	At least 2 more pilot SG projects start procurement	At least 2 pilot SG projects operational	At least 4 pilot SG projects operational
7. Operational efficiency and resource optimization enhanced with digital pre-paid meter or smart meter use increased to at least 75% of total customers by 2021	Yes/ DLI 7	2016 baseline: 48% of total customers use digital pre-paid meters or smart meters	At least 55% of total customers use digital pre-paid meters or smart meters	At least 60% of total customers use digital pre-paid meters or smart meters	At least 65% of total customers use digital pre-paid meters or smart meters	At least 70% of total customers use digital pre-paid meters or smart meters	At least 75% of total customers use digital pre-paid meters or smart meters

Disbursement-Linked Indicator	DLI (Yes/ No)	Baseline and Year	2017	2018	2019	2020	2021
8. Asset and waste management improved with at least 90% of used PLN equipment from the 2016 disposal inventory safely disposed by 2021	Yes/ DLI 8	2016 baseline: 0 disposal rate. Accumulated used equipment, including hazardous waste and slow procedures for review, approval and disposal	(i) 2016 inventory of used equipment for disposal prepared and approved by PLN & MSOE. (ii) PLN Guidance for Asset Management (1998) revised to accelerate disposal of hazardous waste	(i) Existing oil spills cleaned in accordance with MOEF No.33/2009. (ii) at least 20% of PLN's used equipment in the 2016 inventory safely disposed	(i) All warehouses equipped with oil containment/ protection measures (ii) At least 50% of PLN's used equipment in the 2016 inventory safely disposed	At least 80% of PLN's used equipment in the 2016 inventory safely disposed	At least 90% of PLN's used equipment in the 2016 inventory safely disposed
9. Timely completion of implementation of distribution system contracts increased to more than 75% by 2021	No	2016 baseline: 45% of distribution system contracts on time	At least 55% of distribution system contracts implemented on time	At least 60% of distribution system contracts implemented on time	At least 65% of distribution system contracts implemented on time	At least 70% of distribution system contracts implemented on time	At least 75% of distribution system contracts implemented on time

ckm = circuit kilometer, DLI = disbursement-linked indicator; GWh = gigawatt hour, km = kilometer, MOEF = Ministry of Environment and Forestry, MSOE = Ministry of State Owned Enterprises, PLN = State Electricity Corporation, SG = smart grid, SNT = Sulawesi and Nusa Tenggara

<sup>a</sup> The PLN defines "Permanent interruptions" as any interruption to the system longer than 5 minutes. The interruptions related to generation and transmission faults are excluded for this indicator.

<sup>b</sup> PLN generally defines medium-voltage as 20 kV.

Sources: Asian Development Bank estimates, PLN management information systems, and Electricity Power Supply Business Plan (RUPTL), 2017–2026.