



2 0 2 1



STATISTICS PLN

Catalogue in Publications
STATISTICS PLN 2021

Catalogue No. : 31:621.3
ISSN : 0852 - 8179
Publication No. : 01002 - 220630
Book Size : 20 cm x 27 cm
Number of Page : 98
Editor : Corporate Secretary
PT PLN (Persero)
Image Source : Corporate Secretary
PT PLN (Persero)
Prepared by : Corporate Secretary
PT PLN (Persero)



2 0 2 1



STATISTICS PLN

Preface

Statistics PLN 2021 contains information on performances of PT PLN (Persero) and its Subsidiary Companies for Calender Year 2021 as well as the preceding years.

Data are presented in the form of tables with a breakdown for each Province within PLN's Regional and Distribution Offices. Graphics are included to highlight important information.

Constructive comments and feedback are expected for the improvement of the presentation, and will be incorporated in the next publication.

Jakarta, June 2022

PT PLN (Persero)

Summary

1. Generation

Installed Capacity

At the end of December 2021 PT PLN (Persero) and Subsidiary Companies owned and operated about 6,143 generating units with total installed capacity of 44,464.75 MW, of which 31,151.42 MW (70.06%) was installed in Java. The total installed capacity increased 0.66% compared to the end of December 2020

The total generating plant capacity broken down by type of power plant as follow :

Steam Turbine 20,365.00 MW (31.55%), Combined Cycle 11,408.00 MW (17.67%), Diesel 3,532.61 MW (5.47%), Gas Engine 2,033.77 MW (3.15%), Hydro 3,504.42 MW (5.43%), Micro Hydro and Mini Micro Hydro 83.30 (0.13%), Gas Turbine 2,936.07 MW (4.55%), Geothermal 579.26 MW (0.90%), Solar Cell, Wind and Biomass 22.31 MW (0.03%).

Total installed capacity included rented and IPP were 64,553.04 MW.

Peak Load*)

The system peak load for the calendar year 2021 was 42,801.77 MW, increased 6.84% over the previous year. The peak load for the Java Bali interconnection system reached 25,852.75 MW increased 5.87% from the previous year.

Energy Production and Purchase

The own energy and rent production throughout the year 2021 was 182,973.88 GWh. Of the energy production, 66.77% was produced by PT PLN (Persero) Holding, and 33.23% came from Subsidiary Companies, i.e. PT Indonesia Power, PT PJB, PT PLN Batam.

The total production (including purchase from utilities outside PLN) during the Current Year 2021 was 289,470.57 GWh. Of this energy production, the energy purchased from other utilities outside PLN amounted 106,496.69 GWh (36.79%). This was increased 9,337.95 GWh or 9.61% over the previous year.

2. Transmission and Distribution

At the end of Current Year 2021, the total transmission lines was 64,806.79 kmc of which about 6,445.35 kmc was 500 kV, 3,647.65 kmc was 275 kV, 48,733.87 kmc was 150 kV, 5,878.97 kmc was 70 kV and 100.95 kmc was 25 and 30 kV. The total length of distribution lines amounted of 1,022,124.06 kmc of which about 423,807.51 kmc was medium voltage lines and 598,316.55 kmc was low voltage lines.

The total capacity of substation transformers operated was 155,968.25 MVA, increased by 3.95% over the previous year. The total substation transformers was 2,269 unit. This consisted of 79 substation transformers with 500 kV system, 40 substation transformers with 275 kV system, 1,882 substation transformers with 150 kV system, 266 substation transformers with 70 kV system and 2 substation transformers with < 30 kV system.

Total capacity of distribution substation transformers increased by 4.52% to be 64,340.88 MVA and the total distribution substation transformers increased by 2.92% to be 542,958 units.

*) Peak load of PLN's Power Plant, Rented and IPP

Summary

3. Energy Sales

PLN's total energy sales during the year 2021 was 257,634.25 GWh. Among group of customers, energy sold to Residential was the major share, consuming 115,370.05 GWh (44.78%) followed by Industry 80,904.45 GWh (31.40%), Commercial 44,440.85 GWh (17.25%), and Others (social, government office building, and public street lighting) 16,918.91 GWh (6.57%).

Total number of customers was 82,543,980 at the end of 2021 increased 4.49% from the end of 2020.

PLN's average power rate per kWh throughout the Current Year 2021 was 1,083.30 Rp/kWh, was increased compared previous year of 1,071.36 Rp/kWh.

4. Energy Losses

During the Current Year 2021, energy losses were 8.59%, consisting of 1.97% transmission losses and 6.77% distribution losses. This was better than the previous year 9.15%.

5. Electrification Ratio

With the growth of total number of residential customers from 72,606,681**) at the end of Current Year 2020 to 75,701,985 at the end of 2021, the electrification ratio reached around 97.26%.

6. Financial

In Current Year 2021, total operation revenues reached Rp368,174,270 million consist of sales of electricity Rp288,862,726, connection fees Rp493,437 million, government electricity subsidy Rp49,796,949, compensation income Rp24,594,425 and other operation revenues Rp4,426,733 million.

Total operation cost amounted Rp323,119,125 million, Operating Profit after subsidies was Rp45,055,145 million, an increase compared to the achievement of operating profit in 2020 which amounted to Rp44,407,472 million. The total asset amounted to Rp1,613,216,456 million, increased 1.50% from the previous year.

7. Human Resources

By the end of December 2021, the total number of PLN employees was 52,116 employee. Employees productivity was 4,943.48 MWh/employee and 1,584 customer/employee.

**) Excluded non PLN Customers

Explanation

1. The formulas used in this book are defined as follows.

1.1. The *Capacity Factor* *)

$$\frac{\sum \text{kWh gross production annually}}{\sum \text{kW installed capacity} \times 8.760 \text{ hours}} \times 100\%$$

kWh gross production is the energy (kWh) generated by the generator before deducting the energy used for own purpose (for auxiliary equipment, station lighting, etc.) or the production of electric energy measured at the generator terminal.

Installed capacity is the capacity of one generating unit as written on the generator name plate or on the prime mover, which of both is the smaller. Particularly for Gas Turbine Power Plants, the installed capacity is as written on the name plate based on the base-load and not on the peak-load.

1.2. *Load Factor* *)

$$\frac{\sum \text{kWh total production annually}}{\sum \text{kW peak load} \times 8.760 \text{ hours}} \times 100\%$$

kWh total production is the total kWh produced by the generator of the PLN unit in question plus the kWh received from the other PLN units plus the kWh purchased from outside PLN (if any).

Peak Load is the highest load over reached by each system in the calendar year in question.

1.3. *Demand Factor*

$$\frac{\sum \text{kW peak load}}{\sum \text{kVA connected} \times \cos \varphi} \times 100\%$$

$\cos \varphi = 0,8$

*) Circular Letter of the PLN BOD No. 006/PST/88

Explanation

1.4. Energy Losses

$$\frac{\sum \text{kWh transmission losses} + \sum \text{kWh distribution losses}}{\sum \text{kWh netto production}} \times 100\%$$

kWh netto production is the energy (kWh) generated by the generator, plus the energy (kWh) received from the other PLN Unit, plus the energy (kWh) purchased from outside PLN and rented (if any), minus the energy (kWh) used for central own purpose.

kWh transmission losses is kWh netto production, minus the energy (kWh) used for substation transformer own purpose, minus the energy (kWh) sent to other PLN Unit and outside PLN, minus the energy (kWh) sent to Distribution.

kWh distribution losses is the energy (kWh) sent to Distribution, minus the energy (kWh) used for distribution substation transformer own purpose, minus the energy (kWh) sold.

1.5. SAIDI (*System Average Interruption Duration Index*) **)

$$\frac{\sum (\text{Duration of customers who are blackout} \times \text{Number of customers who are blackout})}{\text{Number of customers}}$$

1.6. SAIFI (*System Average Interruption Frequency Index*) **)

$$\frac{\sum (\text{Number of customers who are blackout})}{\text{Number of customers}}$$

**) Blackout at distribution lines which are experienced by customers, due to interruption or maintenance at generation as well as transmission lines (Circular of the PLN BOD. (SE Direksi PLN No. SE.031.E/471/PST/1993).

1.7. SOD (*System Outage Duration*) : $\frac{\text{Interruption duration which cause blackout}}{100 \text{ kmc transmission lines}}$

SOD (System Outage Duration) is a performance indicator of outage duration which cause blackout at services point of transmission lines, measured with hours per 100 kmc.

1.8. SOF (*System Outage Frequency*) : Number of interruption which cause blackout

100 kmc transmission lines

SOF (System Outage Frequency) is a performance indicator of outage number which cause blackout at services point of transmission lines, measured with times per 100 kmc.

2. Data grouping

2.1. Data on generation

In the data on Hydro (Hydro Power Plant/HPP) have been included the data on Mini/micro Hydro Power Plant (MHPP), i.e. hydro power plants with a generating capacity of 1,000 kW and less (Circular letter No. 006/PST/88).

2.2. Data on customers by tariff category

2.2.1. By type of customers

Residential group : i.e. the total of tariff categories S-1, R-1, R-2, and R-3

Business group : i.e. the total of tariff categories B-1, B-2, B-3, T, C and M.

Industrial group : i.e. the total of tariff categories I-1, I-2, I-3, and I-4.

Social group : i.e. total of tariff categories S-2, and S-3.

Government office building group : i.e. the total of tariff categories P-1 and P-2.

Public street lighting group : i.e. tariff categories P-3.

2.2.2. By type of voltage

Low Voltage is total of tariff categories S-1, S-2, R-1, R-2, R-3, B-1, B-2, I-1, I-2, P-1 and P-3.

Medium Voltage is total of tariff categories S-3, B-3, I-3, P-2, Traction (T) and C (Bulk).

High Voltage is tariff categories I-4.

Multipurpose is multipurpose tariff just for special electric power consumer with special demand of quality which could not be included to S, R, B, I, P, T (Traction) and C (Bulk) Category.

Explanation

3. Energy Sold

The energy sold to customer is the energy (kWh) sold to HV (high voltage), MV (medium voltage) and LV (low voltage) customers according to the total kWh, for which the bill is made (TUL III-09).

4. Data status

The year 2021 means one calendar year as from 1 January 2021 to 31 December 2021.

5. Abbreviations

Hydro	: Hydro Power Plant	kmc	: kilometer of circuit
Steam	: Steam Power Plant	MSCF	: 10^3 Standard Cubic Foot (M=10 ³)
Gas Turbine	: Gas Turbine Power Plant	MMSCF	: 10^6 Standard Cubic Foot (MM=10 ⁶)
Combined Cycle	: Combined Cycle Power Plant	MMBTU	: 10^6 British Thermal Unit (MM=10 ⁶)
Diesel	: Diesel Power Plant	HSD	: High Speed Diesel Oil
Geothermal	: Geothermal Power Plant	IDO	: Intermediate Diesel Oil
Gas Engine	: Gas Engine Power Plant	MFO	: Marine Fuel Oil
Solar	: Solar Power Plant	SAIDI	: System Average Interruption Duration Index
Wind	: Wind Power Plan	SAIFI	: System Average Interruption Frequency Index
Mini Hydro	: Mini Hydro Power Plant	Dist.	: Distribution
Micro Hydro	: Micro Hydro Power Plant	Gov. Office Building	: Government Office Building
Biomass	: Biomass Power Plant	Publ. Street	: Public Street Lighting
VA	: volt-ampere	PJB	: Java Bali Generation Company
MVA	: mega-volt-ampere	SOD	: System Outage Duration
KW	: kilowatt	SOF	: System Outage Frequency
MW	: megawatt	n.a	: not available
kWh	: kilowatt-hour		
MWh	: megawatt-hour		
GWh	: gigawatt-hour		

British Thermal Unit (BTU) is the amount of heat needed to raise 1 pound of water with 1 degree Fahrenheit at a temperature of 60 degree Fahrenheit at an absolute pressure of 14.7 pound per square inch.

Standard Cubic Foot (SCF) is the amount of gas needed to fill a space of 1 cubic Foot with an absolute pressure of 14.7 pound per square inch at temperature of 60 degree Fahrenheit in a dry condition.

1000 BTU Gas is Gas having a Gross Heating Value of 1,000 BTU per SCF.

Gross Heating Value is the amount of heat expressed in BTU units resulting from the combustion of 1 standard cubic foot of gas, at temperature of 60 degrees Fahrenheit and absolute pressure of 14.7 pounds per square inch, with air at the same temperature and pressure as the gas and after cooling of the combustion result at the initial temperature of the gas and air, the vapour formed in the combustion process is condensed in liquid form.

Contents

Preface	ii
Summary	iii
Explanation	v
Contents	x

Annual Data 2021

I. OPERATION

Electric Power Supply

Table 1 : Power Balance (MW)	1
Table 2 : Energy Balance	2
Table 3 : Load Factor, Capacity Factor and Demand Factor (%)	4

Operation Result

Table 4 : Number of Customers by Type of Customers	5
Table 5 : Connected Capacity by Type of Customers (MVA)	6
Table 6 : Energy Sold by Type of Customers (GWh)	7
Table 7 : Revenue by Type of Customers (million Rp)	8
Table 8 : Average Energy Sold by Customers (kWh)	9
Table 9 : Average Tariff Selling of Electricity by Type of Customers (Rp/kWh)	10
Table 10 : Number of Customers by Type of Voltage	11
Table 11 : Connected Capacity by Type of Voltage (MVA)	12
Table 12 : Energy Sold by Type of Voltage (GWh)	13
Table 13 : Revenue by Type of Voltage (million Rp)	14
Table 14 : Number of Customers, Connected Capacity and Energy Consumption by Tariff Category	15
Table 15 : Waiting List	16
Table 16 : SAIDI and SAIFI	18
Table 17 : SOD and SOF	19
Table 18 : Number of Distribution Interruption per 100 kmc	20
Table 19 : Electrification Ratio and Energy Consumption per Capita	21

Generation

Table 20 : Number of Generating Units	22
Table 21 : National Installed Capacity (MW)	23
Table 22 : Rated Capacity (MW)	24
Table 23 : Energy Production by Type of Power Plant (GWh)	26
Table 24 : Consumption of Fuel	28
Table 25 : Unit Price of Fuel	29
Table 26 : Energy Production by Type of Fuel (GWh)	30
Table 27 : Captive Power	31

Transmission and Distribution	
Table 28 : Length of Transmission Lines (kmc)	32
Table 29 : Length of Medium and Low Voltage Lines (kmc)	33
Table 30 : Number and Total Capacity of Substation Transformers	34
Table 31 : Number and Total Capacity of Distribution Substation Transformers	35

II. FINANCIAL	
Table 32 : Balance Sheet (million Rp)	36
Table 33 : Profit and Loss (million Rp)	37
Table 34 : Fixed Asset and Depreciation (million Rp)	37
Table 35 : Accounts Receivable (million Rp)	38
Table 36 : Average Collection Rate	39
Table 37 : Generation Cost	40
Table 38 : Average Generation Cost per kWh	40
Table 39 : Financial Ratios	41

III. HUMAN RESOURCES	
Table 40 : Number of Employees by Grade	42
Table 41 : Number of Employees by Education	43
Table 42 : Productivity of Employee	44
Graph 1 : Energy Sold by Type of Customers 2021 (GWh)	45
Graph 2 : Revenue 2021 (million Rp)	45
Graph 3 : Installed Capacity 2021 (MW)	46
Graph 4 : Energy Production 2021 (GWh)	47

Data Over Nine Years (2013 - 2021)

I. OPERATION	
Table 43 : Load Factor, Capacity Factor and Demand Factor (%)	51
Table 44 : Number of Customer by Type of Customers	51
Table 45 : Connected Capacity by Type of Customers (MVA)	52
Table 46 : Energy Sold by Type of Customers (GWh)	52
Table 47 : Average Energy Sold by Type of Customers (kWh)	53
Table 48 : Revenue by Type of Customers (million Rp)	53
Table 49 : Average Tariff Selling of Electricity by Type of Customers (Rp/kWh)	54
Table 50 : Number of Customers by Type of Voltage	54
Table 51 : Energy Sold by Type of Voltage (GWh)	55
Table 52 : Revenue by Type of Voltage (million Rp)	55
Table 53 : Own Use and Energy Losses	56
Table 54 : Number of Generating Units	56
Table 55 : Installed Capacity (MW)	57
Table 56 : Rated Capacity (MW)	57

Contents

Table 57 : Energy Production	58
Table 58 : Consumption of Fuel	58
Table 59 : Unit Price of Fuel	59
Table 60 : Length of Transmission Lines (kmc)	59
Table 61 : Length of Medium and Low Voltage Lines (kmc)	60

II. FINANCIAL

Table 62 : Balance Sheet (million Rp)	61
Table 63 : Profit and Loss (million Rp)	62
Table 64 : Fixed Asset and Depreciation (million Rp)	62
Table 65 : Accounts Receivable (million Rp)	63
Table 66 : Sales, Accounts Receivable and Average Collection Rate	63
Table 67 : Generation Cost (million Rp)	64
Table 68 : Average Generation Cost (Rp/kWh)	64
Table 69 : Financial Ratios	65
Graph 5 : Revenues (billion Rp)	66
Graph 6 : Energy Losses (%)	67

End of Five Year Development Plan Data

Table 70 : Number of Customers	71
Table 71 : Average Growth Rate of Number of Customers per Year (%)	71
Table 72 : Connected Capacity (MVA)	71
Table 73 : Average Growth Rate of Connected Capacity per Year (%)	72
Table 74 : Energy Sold (GWh)	72
Table 75 : Average Growth Rate of Energy Sold per Year (%)	72
Table 76 : Energy Losses (%)	73
Table 77 : Installed Capacity (MW)	73
Table 78 : Average Growth Rate of Installed Capacity per Year (%)	73
Table 79 : Energy Production (GWh)	73
Table 80 : Average Growth Rate of Energy Production per Year (%)	74
Graph 7 : Installed Capacity (MW)	75
Graph 8 : Installed Capacity of National (MW)	75
Graph 9 : Energy Mix in 2017 - 2021	76
Graph 10 : Electrification Ratio (%)	77
Graph 11 : Basic Cost of Electricity Production and Average Seling Price (Rp/kWh)	77
 Operational Region and Location of PLN Region Offices	80
PLN Region Offices and Subsidiaries Address	82



Annual Data

2021

Annual Data 2021

Table 1 : Power Balance (MW)

2021

PLN Operational Unit/Province	Installed Capacity*)	Rated Capacity*)	Peak Load
UIW Aceh	173.88	134.39	128.83
UIW North Sumatera	127.74	55.65	36.85
UIW West Sumatera	90.99	61.73	43.87
UIW Riau and Riau Archipelago	303.61	229.05	159.60
- Riau	179.33	132.93	88.72
- Riau Archipelago	124.29	96.12	70.89
UIW South Sumatera, Jambi and Bengkulu	239.70	187.67	138.19
- South Sumatera	117.06	111.05	74.46
- Jambi	50.26	33.70	26.02
- Bengkulu	72.38	42.92	37.71
UIW Bangka Belitung	354.93	329.36	293.51
UID Lampung	44.56	37.82	12.99
UIW West Kalimantan	111.41	82.61	40.83
UIW South and Central Kalimantan	62.28	46.92	18.95
- South Kalimantan	18.68	14.48	7.38
- Central Kalimantan	43.60	32.44	11.57
UIW East and North Kalimantan	74.65	48.19	28.52
UIW N, C Sulawesi, and Gorontalo	294.00	200.14	163.95
- North Sulawesi	67.44	40.76	30.98
- Gorontalo	22.27	18.87	14.72
- Central Sulawesi	204.29	140.51	118.25
UIW S, SE and W Sulawesi	104.61	87.30	79.39
- South Sulawesi	64.25	60.10	56.39
- Southeast Sulawesi	37.59	25.94	23.00
- West Sulawesi	2.77	1.26	-
UIW Maluku and North Maluku	548.62	374.21	234.17
- Maluku	416.24	292.34	177.58
- North Maluku	132.38	81.87	56.59
UIW Papua and West Papua	793.04	663.49	441.85
- Papua	210.91	167.68	99.80
- West Papua	582.13	495.81	342.05
UID Bali	4.32	3.61	1.58
UIW West Nusa Tenggara	690.25	586.86	595.01
UIW East Nusa Tenggara	504.99	364.48	337.93
PT PLN Batam	672.57	562.23	490.10
UIK Northern Part of Sumatera	4,643.37	3,639.43	2,755.68
UIK Southern Part of Sumatera	2,886.52	2,485.87	2,094.38
UIP3B Sumatera	3,159.00	2,856.10	2,953.39
UIKL Kalimantan	3,603.80	2,955.32	3,128.48
UIKL Sulawesi	3,208.09	2,897.72	2,767.95
Outside Java	22,696.94	18,890.12	16,946.01
UID East Java	69.07	52.18	48.53
UID Central Java and Yogyakarta	34.48	33.65	29.82
- Central Java	33.70	33.05	29.36
- D.I. Yogyakarta	0.78	0.60	0.46
UID West Java	141.13	56.60	-
UID Banten	16.58	16.26	16.97
PT Indonesia Power	9,268.73	8,289.31	7,217.47
UID Jakarta Raya	0.40	-	0.06
PT PJB	7,021.95	6,386.82	6,683.23
PJB Sulawesi	68.04	62.20	51.83
UIP2B	10,384.82	10,376.03	-
UIK Tanjung Jati B	2,840.00	2,643.80	2,718.57
UIK Western Part of Java	5,834.89	5,355.30	4,091.35
UIK Central Part of Java	3,572.00	3,228.00	3,179.00
UIK Eastern Part of Java, Bali and Nusa Tenggara	2,491.00	2,276.00	1,815.93
Java	41,743.10	38,776.14	25,852.75
UIP Sulawesi	100.00	-	-
UIP Northern Part of Sulawesi	3.00	3.00	3.00
UIP Southern Part of Sulawesi	10.00	10.00	-
Generation Project	113.00	13.00	3.00
Indonesia	64,553.04	57,679.27	42,801.77

*) PLN's Power Plant, Rented and IPP

Annual Data 2021

Table 2 : Energy Balance

PLN Operational Unit/Province	Purchase from Outside PLN	Project (GWh)	Received from Other Unit (GWh)	Own Production (GWh)	Rented (Gwh)	Own Use Central		Netto Production (GWh)	Own Use Sub-station Transformer	
						(GWh)	(%)		(GWh)	(%)
UIW Aceh	114.30	-	3,197.44	142.83	34.76	2.08	1.17	3,487.25	-	-
UIW North Sumatera	691.83	-	12,695.98	5.00	-	-	-	13,392.81	-	-
UIW West Sumatera	237.26	-	3,878.71	20.63	-	0.70	3.37	4,135.90	-	-
UIW Riau and Riau Archipelago	13.72	-	6,991.20	489.52	262.64	13.55	1.80	7,743.52	0.77	0.01
UIW South Sumatera, Jambi and Bengkulu	815.28	-	9,539.63	12.74	123.74	-	-	10,491.39	-	-
UIW Bangka Belitung	366.65	0.02	-	884.80	246.62	79.00	6.98	1,419.09	1.33	0.09
UID Lampung	24.38	-	5,916.88	1.45	-	-	0.08	5,942.71	-	-
UIW West Kalimantan	19.22	-	3,054.12	103.11	68.45	2.75	1.60	3,242.15	-	-
UIKL Kalimantan	6,541.05	1.76	176.11	5,926.93	505.32	550.46	8.56	12,600.72	9.44	0.07
UIW South and Central Kalimantan	7.68	-	4,879.87	68.82	-	1.15	1.67	4,955.21	-	-
UIW East and North Kalimantan	166.56	4.47	4,464.65	36.39	4.21	0.43	1.06	4,675.86	-	-
UIW N, C Sulawesi, and Gorontalo	232.51	4.55	3,533.99	240.93	322.77	7.48	1.33	4,327.27	-	-
UIW S, SE and W Sulawesi	340.84	-	8,336.89	34.00	-	0.74	2.19	8,710.99	-	-
UIKL Sulawesi	6,444.90	-	56.84	4,739.91	1,207.94	356.70	6.00	12,092.89	8.97	0.07
UIW Maluku and North Maluku	345.63	-	-	587.08	414.22	27.37	2.73	1,319.56	2.63	0.20
UIW Papua and West Papua	159.70	-	-	1,440.03	438.23	53.43	2.84	1,984.52	0.88	0.04
UID Bali	7.66	-	4,847.54	-	-	0.02	-	4,855.19	-	-
UIW West Nusa Tenggara	337.21	55.30	-	1,927.68	221.26	116.18	5.41	2,425.27	1.41	0.06
UIW East Nusa Tenggara	125.65	-	-	750.51	435.39	62.15	5.24	1,249.40	1.34	0.11
PT PLN Batam	2,274.29	-	-	940.48	-	28.70	3.05	3,186.07	1.21	0.04
UIK Northern Part of Sumatera	1,315.99	-	71.41	11,454.31	1,109.16	961.31	7.65	12,989.57	-	-
UIK Southern Part of Sumatera	391.32	-	83.15	11,458.98	93.78	785.92	6.80	11,241.31	-	-
UIP3B Sumatera	16,999.63	-	24,981.53	-	-	-	-	41,981.16	28.24	0.07
Outside Java	37,973.26	66.10	-	41,266.12	5,488.49	3,050.12	6.52	81,743.85	56.22	0.07
UID East Java	38.81	-	41,460.15	134.86	-	4.11	3.05	41,629.70	-	-
UID Central Java and Yogyakarta	143.74	-	31,334.45	-	-	-	-	31,478.19	-	-
UID West Java	463.22	-	56,460.11	-	-	-	-	56,923.33	-	-
UID Jakarta Raya	-	-	35,646.99	-	-	-	-	35,646.99	-	-
UID Banten	70.16	-	26,467.98	1.11	-	-	-	26,539.25	-	-
PJB Sulawesi	-	-	-	12.15	-	0.26	2.16	11.89	-	-
PT Indonesia Power	-	-	-3.78	39,230.81	-	1,640.70	4.18	37,586.33	-	-
PT PJB	-	-	-2.33	20,628.77	-	792.23	3.84	19,834.21	-	-
UIP2B	67,596.77	144.63	129,326.15	-	-	-	-	197,067.54	99.73	0.05
UIK Tanjung Jati B	-	-	19.03	20,063.65	-	1,199.15	5.98	18,883.53	-	-
UIK Western Part of Java	-	-	205.81	24,962.48	-	1,284.70	5.15	23,883.59	-	-
UIK Central Part of Java	-	-	102.05	19,238.73	-	1,258.59	6.54	18,082.19	-	-
UIK Eastern Part of Java, Bali and Nusa Tenggara	-	-	54.75	11,946.71	-	729.47	6.11	11,271.99	-	-
Java	68,312.70	144.63	-	136,219.27	-	6,909.21	5.07	197,767.39	99.73	0.05
Indonesia	106,285.96	210.73	-	177,485.39	5,488.49	9,959.33	5.44	279,511.24	155.95	0.06

*) Included Non-PLN (IPP)

Transmission Losses (GWh)		Send Other Unit*	Send to Distribution (GWh)	Own Use				Energy Losses & Own Use (GWh)		Energy Consumption (GWh)	
				Distr. Substation (GWh) (%)		Distr. Losses (GWh) (%)					
				(%)	(GWh)	(%)	(GWh)	(%)	(GWh)	(%)	(GWh)
-	-	140.31	3,346.93	22.58	0.65	289.39	8.65	289.39	8.30	311.96	8.95
-	-	652.63	12,740.18	87.87	0.66	1,087.64	8.54	1,087.64	8.12	1,175.51	8.78
-	-	298.28	3,837.62	12.10	0.29	222.71	5.80	222.71	5.38	234.80	5.68
7.72	0.10	171.28	7,563.75	29.11	0.38	588.47	7.78	596.19	7.70	625.30	8.08
-	-	715.55	9,775.84	51.37	0.49	1,105.70	11.31	1,105.70	10.54	1,157.07	11.03
8.43	0.59	-	1,409.33	4.53	0.32	60.57	4.30	68.99	4.86	73.52	5.18
-	-	23.18	5,919.52	30.52	0.51	793.11	13.40	793.11	13.35	823.63	13.86
-	-	25.88	3,216.27	10.46	0.32	329.78	10.25	329.78	10.17	340.24	10.49
202.61	1.61	12,388.67	-	-	-	-	-	202.61	1.61	202.61	1.61
-	-	0.09	4,955.13	12.44	0.25	365.61	7.38	365.61	7.38	378.05	7.63
-	-	160.12	4,515.74	12.16	0.26	286.63	6.35	286.63	6.13	298.79	6.39
-	-	24.85	4,302.42	29.18	0.67	397.78	9.25	397.78	9.19	426.96	9.87
-	-	23.12	8,687.87	49.74	0.57	593.66	6.83	593.66	6.82	643.40	7.39
145.23	1.20	11,887.61	51.09	-	-	51.09	100.00	196.32	1.62	196.32	1.62
4.83	0.37	-	1,312.10	11.61	0.88	99.66	7.60	104.49	7.92	116.10	8.80
4.60	0.23	-	1,979.04	13.72	0.69	170.92	8.64	175.52	8.84	189.25	9.54
-	-	-	4,855.19	16.05	0.33	252.48	5.20	252.48	5.20	268.53	5.53
27.83	1.15	0.80	2,395.23	23.37	0.96	121.24	5.06	149.08	6.15	172.44	7.11
22.82	1.83	-	1,225.24	11.35	0.91	68.70	5.61	91.51	7.32	102.86	8.23
5.48	0.17	492.48	2,686.89	3.63	0.11	117.47	4.37	122.95	3.86	126.57	3.97
-	-	12,989.57	-	-	-	-	-	-	-	-	-
-	-	11,241.31	-	-	-	-	-	-	-	-	-
1,283.61	3.06	40,669.32	-	-	-	-	-	1,283.61	3.06	1,283.61	3.06
1,713.15	2.10	91,905.04	84,775.39	431.78	0.53	7,002.60	8.26	8,715.75	10.66	9,147.53	11.19
-	-	-	41,629.70	144.56	0.35	2,565.63	6.16	2,565.63	6.16	2,710.19	6.51
-	-	0.38	31,477.81	62.76	0.20	2,041.84	6.49	2,041.84	6.49	2,104.60	6.69
-	-	454.67	56,468.67	209.35	0.37	3,534.48	6.26	3,534.48	6.21	3,743.83	6.58
-	-	1,160.27	34,486.71	166.45	0.47	2,227.29	6.46	2,227.29	6.25	2,393.74	6.72
-	-	1,738.42	24,800.83	107.46	0.40	1,148.12	4.63	1,148.12	4.33	1,255.58	4.73
-	-	11.89	-	-	-	-	-	-	-	-	-
-	-	37,586.33	-	-	-	-	-	-	-	-	-
-	-	19,834.21	-	-	-	-	-	-	-	-	-
3,788.18	1.92	193,179.64	-	-	-	-	-	3,788.18	1.92	3,788.18	1.92
-	-	18,883.53	-	-	-	-	-	-	-	-	-
-	-	23,883.59	-	-	-	-	-	-	-	-	-
-	-	18,082.19	-	-	-	-	-	-	-	-	-
-	-	11,271.99	-	-	-	-	-	-	-	-	-
3,788.18	1.92	326,087.10	188,863.73	690.57	0.35	11,517.36	6.10	15,305.54	7.74	15,996.11	8.09
5,501.33	1.97	214.85	273,639.12	1,122.36	0.40	18,519.97	6.77	24,021.30	8.59	25,143.66	9.00

Annual Data 2021

Table 3 : Load Factor, Capacity Factor and Demand Factor

2021

PLN Operational Unit/ Province	Load Factor (%)	Capacity Factor (%)	Demand Factor (%)
UIW Aceh	25.86	19.16	8.36
UIW North Sumatera	215.85	62.27	0.68
UIW West Sumatera	67.11	32.36	2.51
UIW Riau and Riau Archipelago	54.78	28.80	4.57
UIW South Sumatera, Jambi, and Bengkulu	78.62	45.33	2.99
UIW Bangka Belitung	58.27	48.18	37.18
UID Lampung	22.69	6.62	0.48
UIW West Kalimantan	53.34	19.55	2.64
UIW South and Central Kalimantan	46.09	14.02	0.82
UIW East and North Kalimantan	82.92	31.68	1.34
UIW N, C Sulawesi and Gorontalo	55.44	30.92	7.88
UIW S, SE and W Sulawesi	53.90	40.91	1.74
UIW Maluku and North Maluku	65.66	28.03	30.80
UIW Papua and West Papua	52.65	29.34	38.68
UID Bali	55.27	20.25	0.05
UIW West Nusa Tenggara	47.70	41.12	39.30
UIW East Nusa Tenggara	44.31	29.65	31.69
PT PLN Batam	74.88	54.56	38.75
UIK Northern Part of Sumatera	57.50	34.12	-
UIK Southern Part of Sumatera	65.10	47.24	-
UIP3B Sumatera	65.71	61.43	-
UIKL Kalimantan	47.34	41.09	-
UIKL Sulawesi	51.11	44.10	-
Outside Java	57.08	42.61	40.48
UID East Java	40.85	28.70	0.27
UID Central Java and Yogyakarta	55.03	47.58	0.21
UID West Java	-	37.47	-
UID Banten	47.95	49.06	0.18
UID Jakarta Raya	-	-	-
PT Indonesia Power	62.05	48.32	-
PT PJB	35.24	33.54	-
PJB Sulawesi	2.68	2.04	-
UIP2B	-	74.31	-
UIK Tanjung Jati B	84.25	80.65	-
UIK Western Part of Java	69.65	48.84	-
UIK Central Part of Java	69.08	61.48	-
UIK Eastern Part of Java, Bali and Nusa Tenggara	75.10	54.75	-
Java	90.31	55.93	31.92
Generation Project	801.80	21.29	-
Indonesia	77.20	51.19	34.84

Table 4 : Number of Customers by Type of Customers**2021**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,396,567	3,903	145,970	51,171	12,432	2,708	1,612,751	1.95
UIW North Sumatera	3,882,049	4,733	152,048	76,150	11,129	17,446	4,143,555	5.02
UIW West Sumatera	1,349,712	643	160,340	38,411	6,657	3,951	1,559,714	1.89
UIW Riau and Riau Archipelago	2,034,107	633	187,434	45,048	9,095	5,609	2,281,926	2.76
- Riau	1,765,513	513	158,719	39,217	6,693	4,286	1,974,941	2.39
- Riau Archipelago	268,594	120	28,715	5,831	2,402	1,323	306,985	0.37
UIW South Sumatera, Jambi and Bengkulu	3,709,497	2,276	138,273	78,494	15,164	11,519	3,955,223	4.79
- South Sumatera	2,155,824	1,456	65,803	42,583	7,240	6,697	2,279,603	2.76
- Jambi	982,422	654	52,560	23,080	4,725	3,749	1,067,190	1.29
- Bengkulu	571,251	166	19,910	12,831	3,199	1,073	608,430	0.74
UIW Bangka Belitung	466,623	677	34,397	8,678	3,272	2,127	515,774	0.62
UID Lampung	2,294,945	6,384	78,121	61,838	4,868	2,680	2,448,836	2.97
UIW West Kalimantan	1,237,754	615	76,649	27,705	5,240	3,943	1,351,906	1.64
UIW S and C Kalimantan	1,888,372	1,024	128,478	59,263	11,082	5,799	2,094,018	2.54
- South Kalimantan	1,248,127	745	64,037	40,037	5,881	4,165	1,362,992	1.65
- Central Kalimantan	640,245	279	64,441	19,226	5,201	1,634	731,026	0.89
UIW East and North Kalimantan	1,229,582	583	76,979	25,732	6,814	3,084	1,342,774	1.63
UIW N, C Sulawesi and Gorontalo	1,754,901	997	62,017	54,853	12,827	3,134	1,888,729	2.29
- North Sulawesi	705,888	501	27,806	16,214	5,648	1,536	757,593	0.92
- Gorontalo	300,554	152	9,217	7,486	2,328	497	320,234	0.39
- Central Sulawesi	748,459	344	24,994	31,153	4,851	1,101	810,902	0.98
UIW S, SE and W Sulawesi	3,298,238	3,707	148,732	65,304	18,032	5,835	3,539,848	4.29
- South Sulawesi	2,351,702	2,978	106,313	43,023	10,213	4,297	2,518,526	3.05
- Southeast Sulawesi	648,064	555	30,343	14,810	5,894	1,268	700,934	0.85
- West Sulawesi	298,472	174	12,076	7,471	1,925	270	320,388	0.39
UIW Maluku and North Maluku	654,481	136	28,256	16,200	5,839	1,207	706,119	0.86
- Maluku	277,871	78	14,638	6,245	2,392	317	301,541	0.37
- North Maluku	376,610	58	13,618	9,955	3,447	890	404,578	0.49
UIW Papua and West Papua	672,533	140	52,000	18,041	7,551	1,595	751,860	0.91
- Papua	441,731	103	35,396	11,610	4,401	851	494,092	0.60
- West Papua	230,802	37	16,604	6,431	3,150	744	257,768	0.31
UID Bali	1,303,275	1,281	222,903	41,452	4,324	6,048	1,579,283	1.91
UIW West Nusa Tenggara	1,644,071	515	43,312	29,794	4,753	2,927	1,725,372	2.09
UIW East Nusa Tenggara	954,074	276	34,318	21,590	7,466	763	1,018,487	1.23
PT PLN Batam	294,762	373	46,939	3,924	435	1,181	347,614	0.42
Outside Java	30,065,543	28,896	1,817,166	723,648	146,980	81,556	32,863,789	39.81
UID East Java	11,651,158	86,510	689,203	347,931	23,901	66,081	12,864,784	15.59
UID Central Java and Yogyakarta	11,474,394	14,269	565,622	320,923	29,081	60,271	12,464,560	15.10
- Central Java	10,224,191	13,473	499,911	288,240	25,380	49,102	11,100,297	13.45
- D.I. Yogyakarta	1,250,203	796	65,711	32,683	3,701	11,169	1,364,263	1.65
UID West Java	14,604,802	16,444	702,787	331,678	19,922	90,114	15,765,747	19.10
UID Banten	3,372,669	7,028	209,926	67,654	4,112	7,798	3,669,187	4.45
UID Jakarta Raya	4,533,419	5,910	315,330	46,253	6,581	8,420	4,915,913	5.96
Java	45,636,442	130,161	2,482,868	1,114,439	83,597	232,684	49,680,191	60.19
Indonesia	75,701,985	159,057	4,300,034	1,838,087	230,577	314,240	82,543,980	100.00
(%)	91.71	0.19	5.21	2.23	0.28	0.38	100	

Annual Data 2021

Table 5 : Connected Capacity by Type of Customers (MVA)

2021

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,142.51	129.28	381.58	149.71	86.95	35.62	1,925.65	1.25
UIW North Sumatera	3,764.49	1,328.63	1,150.80	315.14	105.60	100.43	6,765.09	4.41
UIW West Sumatera	1,265.97	281.19	432.36	121.93	62.79	21.55	2,185.79	1.42
UIW Riau and Riau Archipelago	2,443.72	639.77	913.23	200.70	119.13	46.12	4,362.67	2.84
- Riau	2,069.06	617.39	736.72	169.21	86.57	37.32	3,716.27	2.42
- Riau Archipelago	374.66	22.38	176.51	31.49	32.56	8.80	646.40	0.42
UIW South Sumatera, Jambi and Bengkulu	3,797.47	589.35	923.78	258.30	142.73	57.60	5,769.23	3.76
- South Sumatera	2,159.72	441.77	579.08	157.97	81.65	35.13	3,455.32	2.25
- Jambi	1,113.03	102.87	255.43	66.91	37.82	16.15	1,592.21	1.04
- Bengkulu	524.72	44.71	89.27	33.42	23.26	6.32	721.70	0.47
UIW Bangka Belitung	557.37	162.84	177.58	51.79	30.11	7.18	986.87	0.64
UID Lampung	2,142.64	561.13	438.62	150.61	53.52	22.71	3,369.23	2.19
UIW West Kalimantan	1,232.91	129.02	388.29	103.46	62.81	20.39	1,936.88	1.26
UIW S and C Kalimantan	1,756.33	260.80	555.67	171.36	107.93	33.38	2,885.47	1.88
- South Kalimantan	1,107.68	189.33	359.14	113.25	61.54	24.23	1,855.17	1.21
- Central Kalimantan	648.65	71.47	196.53	58.11	46.39	9.15	1,030.30	0.67
UIW East and North Kalimantan	1,554.23	174.11	621.04	150.22	134.45	20.59	2,654.64	1.73
UIW N, C Sulawesi and Gorontalo	1,619.06	213.64	477.07	153.12	109.93	29.04	2,601.86	1.69
- North Sulawesi	693.45	145.66	281.29	70.73	39.28	10.44	1,240.85	0.81
- Gorontalo	250.44	18.85	58.30	23.69	27.77	4.22	383.27	0.25
- Central Sulawesi	675.17	49.13	137.48	58.70	42.88	14.38	977.74	0.64
UIW S, SE and W Sulawesi	3,394.40	833.89	952.00	306.22	162.52	58.65	5,707.68	3.72
- South Sulawesi	2,393.84	753.47	758.25	237.10	106.71	47.19	4,296.56	2.80
- Southeast Sulawesi	694.27	60.33	152.34	46.40	37.73	8.77	999.84	0.65
- West Sulawesi	306.29	20.09	41.41	22.72	18.08	2.69	411.28	0.27
UIW Maluku and North Maluku	652.80	11.87	171.49	55.48	52.59	6.17	950.40	0.62
- Maluku	285.78	4.91	98.81	30.69	29.05	2.28	451.52	0.29
- North Maluku	367.02	6.96	72.68	24.79	23.54	3.89	498.88	0.32
UIW Papua and West Papua	885.24	16.58	316.04	89.38	113.11	7.69	1,428.04	0.93
- Papua	589.61	7.95	214.10	56.78	69.76	5.64	943.84	0.61
- West Papua	295.63	8.63	101.94	32.60	43.35	2.05	484.20	0.32
UID Bali	1,959.54	108.90	1,645.59	166.00	83.96	33.58	3,997.57	2.60
UIW West Nusa Tenggara	1,361.09	96.99	298.62	80.66	39.55	15.69	1,892.60	1.23
UIW East Nusa Tenggara	969.75	34.08	196.22	77.38	49.32	6.08	1,332.83	0.87
PT PLN Batam	605.50	375.34	511.10	52.88	25.79	10.26	1,580.87	1.03
Outside Java	31,105.02	5,947.41	10,551.08	2,654.34	1,542.79	532.73	52,333.37	34.08
UID East Java	10,214.33	6,916.25	3,841.30	1,081.89	334.85	246.25	22,634.87	14.74
UID Central Java and Yogyakarta	9,480.63	3,595.68	3,065.36	1,054.91	295.55	198.40	17,690.53	11.52
- Central Java	8,205.11	3,467.70	2,554.86	858.49	233.23	172.74	15,492.13	10.09
- D.I. Yogyakarta	1,275.52	127.98	510.51	196.42	62.32	25.65	2,198.40	1.43
UID West Java	13,642.69	8,831.24	4,678.40	954.44	378.21	137.14	28,622.12	18.64
UID Banten	3,541.20	5,965.60	2,100.42	251.44	130.14	45.75	12,034.55	7.84
UID Jakarta Raya	8,582.97	1,895.33	7,737.48	957.40	943.39	133.95	20,250.52	13.19
Java	45,461.82	27,204.10	21,422.96	4,300.08	2,082.14	761.49	101,232.59	65.92
Indonesia	76,566.84	33,151.51	31,974.04	6,954.42	3,624.93	1,294.22	153,565.96	100.00
(%)	49.86	21.59	20.82	4.53	2.36	0.84	100.00	

Table 6 : Energy Sold by Type of Customers (GWh)**2021**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,929.59	190.56	515.04	208.23	107.18	123.87	3,074.47	1.19
UIW North Sumatera	5,998.75	3,082.97	1,672.31	432.68	146.38	415.31	11,748.40	4.56
UIW West Sumatera	1,781.19	945.24	573.70	169.92	80.45	95.70	3,646.20	1.42
UIW Riau and Riau Archipelago	3,431.96	1,633.60	1,408.09	259.18	151.32	137.01	7,021.16	2.73
- Riau	2,935.09	1,593.61	1,130.68	222.55	112.15	114.24	6,108.32	2.37
- Riau Archipelago	496.87	39.99	277.41	36.63	39.17	22.77	912.84	0.35
UIW South Sumatera, Jambi and Bengkulu	5,338.70	1,252.87	1,479.67	328.15	186.86	178.21	8,764.46	3.40
- South Sumatera	3,213.41	997.88	938.33	203.58	109.06	131.67	5,593.93	2.17
- Jambi	1,373.30	175.26	394.86	83.48	48.35	36.67	2,111.92	0.82
- Bengkulu	751.99	79.73	146.48	41.09	29.45	9.87	1,058.61	0.41
UIW Bangka Belitung	734.92	334.89	204.61	50.17	35.16	9.45	1,369.20	0.53
UID Lampung	3,032.14	1,100.99	645.49	201.45	73.25	123.62	5,176.94	2.01
UIW West Kalimantan	1,851.60	232.03	584.47	116.13	82.01	46.74	2,912.98	1.13
UIW S and C Kalimantan	2,798.64	600.24	832.16	193.66	139.95	83.95	4,648.60	1.80
- South Kalimantan	1,814.17	433.00	533.07	129.76	78.13	62.58	3,050.71	1.18
- Central Kalimantan	984.47	167.24	299.09	63.90	61.82	21.37	1,597.89	0.62
UIW East and North Kalimantan	2,421.02	458.86	1,019.31	180.25	169.47	53.03	4,301.94	1.67
UIW N, C Sulawesi and Gorontalo	2,314.92	488.90	698.72	176.58	141.62	112.08	3,932.82	1.53
- North Sulawesi	970.99	384.49	405.97	83.52	48.50	46.79	1,940.26	0.75
- Gorontalo	416.64	39.80	102.20	29.87	39.51	10.69	638.71	0.25
- Central Sulawesi	927.29	64.61	190.55	63.19	53.61	54.60	1,353.85	0.53
UIW S, SE and W Sulawesi	4,327.98	1,733.74	1,401.91	340.33	222.45	160.79	8,187.20	3.18
- South Sulawesi	3,262.35	1,635.68	1,133.23	274.32	158.31	133.98	6,597.87	2.56
- Southeast Sulawesi	769.50	59.27	211.60	46.32	43.86	19.29	1,149.84	0.45
- West Sulawesi	296.13	38.79	57.08	19.69	20.28	7.52	439.49	0.17
UIW Maluku and North Maluku	793.78	16.66	245.39	63.09	83.74	17.26	1,219.92	0.47
- Maluku	349.21	10.51	135.77	33.69	46.13	7.57	582.88	0.23
- North Maluku	444.57	6.15	109.62	29.40	37.61	9.69	637.04	0.25
UIW Papua and West Papua	1,081.71	21.31	470.72	98.57	130.67	17.87	1,820.85	0.71
- Papua	726.39	11.84	334.18	66.18	87.21	11.84	1,237.64	0.48
- West Papua	355.32	9.47	136.54	32.39	43.46	6.03	583.21	0.23
UID Bali	2,343.14	183.47	1,833.48	159.46	120.41	68.06	4,708.02	1.83
UIW West Nusa Tenggara	1,510.06	178.58	401.48	95.68	48.17	56.22	2,290.19	0.89
UIW East Nusa Tenggara	749.03	41.19	238.66	65.08	48.30	17.90	1,160.16	0.45
PT PLN Batam	891.51	846.18	706.90	67.19	39.61	14.40	2,565.79	1.00
Outside Java	43,330.64	13,342.28	14,932.11	3,205.80	2,007.00	1,731.47	78,549.30	30.49
UID East Java	15,618.65	16,469.27	5,014.11	1,326.27	421.15	607.74	39,457.19	15.32
UID Central Java and Yogyakarta	14,756.13	8,597.95	4,212.85	1,300.84	351.47	550.30	29,769.54	11.55
- Central Java	12,986.94	8,332.48	3,512.97	1,055.15	284.09	489.53	26,661.16	10.35
- D.I. Yogyakarta	1,769.19	265.47	699.88	245.69	67.38	60.77	3,108.38	1.21
UID West Java	20,925.89	24,077.60	6,277.79	1,214.62	449.98	372.14	53,318.02	20.70
UID Banten	6,014.22	14,233.05	3,009.44	331.65	159.66	82.89	23,830.91	9.25
UID Jakarta Raya	14,724.52	4,184.30	10,994.55	1,286.81	1,318.71	200.41	32,709.30	12.70
Java	72,039.41	67,562.17	29,508.74	5,460.19	2,700.97	1,813.48	179,084.96	69.51
Indonesia	115,370.05	80,904.45	44,440.85	8,665.99	4,707.97	3,544.95	257,634.25	100.00
(%)	44.78	31.40	17.25	3.36	1.83	1.38	100.00	

Annual Data 2021

Table 7 : Revenue by Type of Customers (million Rp)

2021

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,461,164.47	217,686.65	582,350.03	157,761.70	143,916.88	178,978.49	2,741,858.22	0.98
UIW North Sumatera	5,818,547.58	3,450,857.93	2,068,857.65	335,461.23	194,943.77	600,050.54	12,468,718.70	4.47
UIW West Sumatera	1,763,904.30	973,306.92	658,915.61	134,134.50	108,459.95	138,258.64	3,776,979.92	1.35
UIW Riau and Riau Archipelago	4,238,728.38	1,075,234.89	1,710,552.54	219,179.98	201,136.62	197,883.26	7,642,715.67	2.74
- Riau	3,578,833.37	1,031,884.35	1,368,633.23	188,372.17	148,688.67	164,987.97	6,481,399.76	2.32
- Riau Archipelago	659,895.01	43,350.54	341,919.31	30,807.81	52,447.95	32,895.29	1,161,315.91	0.42
UIW South Sumatera, Jambi and Bengkulu	5,705,238.31	1,378,883.23	1,863,553.86	253,439.33	249,853.73	258,353.57	9,709,322.03	3.48
- South Sumatera	3,342,501.10	1,094,813.59	1,181,730.76	160,155.87	144,348.58	190,954.79	6,114,504.69	2.19
- Jambi	1,628,720.89	193,648.99	490,671.39	62,182.22	65,236.50	53,127.92	2,493,587.91	0.89
- Bengkulu	734,016.32	90,420.65	191,151.71	31,101.24	40,268.65	14,270.86	1,101,229.43	0.39
UIW Bangka Belitung	924,123.97	379,769.28	255,957.33	43,267.38	47,792.14	13,659.25	1,664,569.35	0.60
UID Lampung	2,755,959.13	1,239,370.55	804,734.63	145,777.40	97,156.35	177,080.44	5,220,078.50	1.87
UIW West Kalimantan	1,846,428.46	258,244.96	729,170.60	91,142.29	109,719.05	67,521.72	3,102,227.08	1.11
UIW S and C Kalimantan	2,826,096.25	692,498.34	998,785.90	144,447.77	189,801.25	121,285.67	4,972,915.18	1.78
- South Kalimantan	1,742,866.01	497,670.29	655,387.86	96,365.58	106,443.24	90,409.00	3,189,141.98	1.14
- Central Kalimantan	1,083,230.24	194,828.05	343,398.04	48,082.19	83,358.01	30,876.67	1,783,773.20	0.64
UIW East and North Kalimantan	3,030,110.85	525,763.80	1,284,509.54	147,073.96	218,631.80	76,611.71	5,282,701.66	1.89
UIW N, C Sulawesi and Gorontalo	2,098,063.70	537,391.33	877,300.50	133,774.75	188,682.04	161,745.83	3,996,958.15	1.43
- North Sulawesi	894,224.14	422,725.35	511,673.02	65,324.38	65,266.47	67,603.86	2,026,817.22	0.73
- Gorontalo	337,533.30	44,324.47	131,283.14	22,517.06	51,662.45	15,276.34	602,596.76	0.22
- Central Sulawesi	866,306.26	70,341.51	234,344.34	45,933.31	71,753.12	78,865.63	1,367,544.17	0.49
UIW S, SE, and W Sulawesi	4,494,471.04	1,784,848.71	1,757,248.07	276,193.07	295,345.70	231,049.13	8,839,155.72	3.17
- South Sulawesi	3,360,306.12	1,676,293.88	1,420,452.03	222,881.07	210,127.41	192,299.65	7,082,360.16	2.54
- Southeast Sulawesi	817,649.08	65,030.87	266,014.31	37,679.05	58,345.89	27,880.71	1,272,599.91	0.46
- West Sulawesi	316,515.84	43,523.96	70,781.73	15,632.95	26,872.40	10,868.77	484,195.65	0.17
UIW Maluku and North Maluku	858,931.79	17,677.44	312,348.18	48,373.80	114,811.63	24,946.88	1,377,089.72	0.49
- Maluku	383,617.59	11,393.40	171,499.58	26,888.13	63,229.87	10,941.18	667,569.75	0.24
- North Maluku	475,314.20	6,284.04	140,848.60	21,485.67	51,581.76	14,005.70	709,519.97	0.25
UIW Papua and West Papua	1,378,636.66	24,489.48	592,034.50	81,253.51	173,314.02	25,819.80	2,275,547.97	0.82
- Papua	937,023.90	13,165.18	419,683.11	54,827.36	113,575.77	17,114.32	1,555,389.64	0.56
- West Papua	441,612.76	11,324.30	172,351.39	26,426.15	59,738.25	8,705.48	720,158.33	0.26
UID Bali	2,998,001.75	202,481.34	2,303,191.17	130,762.36	163,424.46	98,349.69	5,896,210.77	2.11
UIW West Nusa Tenggara	1,116,429.14	200,393.21	514,687.15	72,845.00	64,459.90	81,222.33	2,050,036.73	0.73
UIW East Nusa Tenggara	791,198.82	45,261.12	302,111.02	54,385.55	64,362.46	25,873.84	1,283,192.81	0.46
PT PLN Batam	1,282,520.26	1,074,949.52	1,134,186.50	78,272.17	75,705.94	30,805.28	3,676,439.67	1.32
Outside Java	45,388,554.84	14,079,108.71	18,750,494.76	2,547,545.75	2,701,517.73	2,509,496.05	85,976,717.84	30.81
UID East Java	13,968,548.03	17,827,360.81	6,196,899.88	1,022,945.28	548,723.42	878,521.82	40,442,999.24	14.49
UID Central Java and Yogyakarta	11,879,458.98	9,413,192.33	5,264,860.34	1,033,708.16	460,946.96	795,022.78	28,847,189.55	10.34
- Central Java	10,119,141.17	9,120,397.78	4,406,527.07	829,443.62	373,450.20	707,217.97	25,556,177.81	9.16
- D.I. Yogyakarta	1,760,317.81	292,794.55	858,333.27	204,264.54	87,496.76	87,804.81	3,291,011.74	1.18
UID West Java	20,254,855.45	26,668,458.22	7,700,897.59	957,196.46	571,913.26	537,443.95	56,690,764.93	20.31
UID Banten	6,400,604.01	15,358,881.64	3,808,492.97	268,153.59	203,394.18	119,783.36	26,159,309.75	9.37
UID Jakarta Raya	20,247,608.32	4,533,137.20	13,148,434.00	1,158,429.95	1,600,171.12	289,546.65	40,977,327.24	14.68
Java	72,751,074.80	73,801,030.20	36,119,584.78	4,440,433.44	3,385,148.93	2,620,318.55	193,117,590.70	69.19
Indonesia	118,139,629.65	87,880,138.90	54,870,079.54	6,987,979.19	6,086,666.66	5,129,814.60	279,094,308.54	100.00
(%)	42.33	31.49	19.66	2.50	2.18	1.84	100.00	

Note: Data from Aplikasi Pelayanan Pelanggan Terpusat (AP2T)

Table 8 : Average Energy Sold by Customers (kWh)**2021**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
UIW Aceh	1,381.67	48,823.98	3,528.40	4,069.30	8,621.30	45,742.25	1,906.35
UIW North Sumatera	1,545.25	651,377.56	10,998.57	5,681.94	13,153.02	23,805.46	2,835.34
UIW West Sumatera	1,319.68	1,470,046.66	3,578.02	4,423.73	12,085.02	24,221.72	2,337.74
UIW Riau and Riau Archipelago	1,687.21	2,580,726.70	7,512.46	5,753.42	16,637.71	24,426.81	3,076.86
- Riau	1,662.46	3,106,452.24	7,123.78	5,674.83	16,756.31	26,654.22	3,092.91
- Riau Archipelago	1,849.89	333,250.00	9,660.80	6,281.94	16,307.24	17,210.88	2,973.57
UIW South Sumatera, Jambi and Bengkulu	1,439.20	550,470.12	10,701.08	4,180.57	12,322.61	15,470.96	2,215.92
- South Sumatera	1,490.57	685,357.14	14,259.68	4,780.78	15,063.54	19,661.04	2,453.91
- Jambi	1,397.87	267,981.65	7,512.56	3,616.98	10,232.80	9,781.28	1,978.95
- Bengkulu	1,316.39	480,301.20	7,357.11	3,202.40	9,206.00	9,198.51	1,739.90
UIW Bangka Belitung	1,574.98	494,667.65	5,948.48	5,781.29	10,745.72	4,442.88	2,654.65
UID Lampung	1,321.23	172,460.84	8,262.70	3,257.71	15,047.25	46,126.87	2,114.04
UIW West Kalimantan	1,495.94	377,284.55	7,625.28	4,191.66	15,650.76	11,853.92	2,154.72
UIW S and C Kalimantan	1,482.04	586,171.88	6,477.06	3,267.81	12,628.59	14,476.63	2,219.94
- South Kalimantan	1,453.51	581,208.05	8,324.41	3,241.00	13,285.16	15,025.21	2,238.24
- Central Kalimantan	1,537.65	599,426.52	4,641.30	3,323.62	11,886.18	13,078.34	2,185.82
UIW East and North Kalimantan	1,968.98	787,066.90	13,241.40	7,004.90	24,870.85	17,195.20	3,203.77
UIW N, C Sulawesi and Gorontalo	1,319.12	490,371.11	11,266.59	3,219.15	11,040.77	35,762.60	2,082.26
- North Sulawesi	1,375.56	767,445.11	14,600.09	5,151.10	8,587.11	30,462.24	2,561.08
- Gorontalo	1,386.24	261,842.11	11,088.21	3,990.11	16,971.65	21,509.05	1,994.51
- Central Sulawesi	1,238.93	187,819.77	7,623.83	2,028.38	11,051.33	49,591.28	1,669.56
UIW S, SE and W Sulawesi	1,312.21	467,693.55	9,425.75	5,211.47	12,336.40	27,556.13	2,312.87
- South Sulawesi	1,387.23	549,254.53	10,659.37	6,376.12	15,500.83	31,179.89	2,619.73
- Southeast Sulawesi	1,187.38	106,792.79	6,973.60	3,127.62	7,441.47	15,212.93	1,640.44
- West Sulawesi	992.15	222,931.03	4,726.73	2,635.52	10,535.06	27,851.85	1,371.74
UIW Maluku and North Maluku	1,212.84	122,500.00	8,684.53	3,894.44	14,341.50	14,299.92	1,727.64
- Maluku	1,256.73	134,743.59	9,275.17	5,394.72	19,285.12	23,880.13	1,933.00
- North Maluku	1,180.45	106,034.48	8,049.64	2,953.29	10,910.94	10,887.64	1,574.58
UIW Papua and West Papua	1,608.41	152,214.29	9,052.31	5,463.67	17,304.99	11,203.76	2,421.79
- Papua	1,644.42	114,951.46	9,441.18	5,700.26	19,815.95	13,913.04	2,504.88
- West Papua	1,539.50	255,945.95	8,223.32	5,036.54	13,796.83	8,104.84	2,262.54
UID Bali	1,797.89	143,224.04	8,225.46	3,846.86	27,846.90	11,253.31	2,981.11
UIW West Nusa Tenggara	918.49	346,757.28	9,269.49	3,211.38	10,134.65	19,207.38	1,327.36
UIW East Nusa Tenggara	785.09	149,239.13	6,954.37	3,014.36	6,469.33	23,460.03	1,139.10
PT PLN Batam	3,024.51	2,268,579.09	15,059.97	17,122.83	91,057.47	12,193.06	7,381.15
Outside Java	1,441.21	461,734.50	8,217.25	4,430.05	13,654.92	21,230.44	2,390.15
UID East Java	1,340.52	190,374.18	7,275.23	3,811.88	17,620.60	9,196.89	3,067.07
UID Central Java and Yogyakarta	1,286.01	602,561.50	7,448.17	4,053.43	12,085.90	9,130.43	2,388.33
- Central Java	1,270.22	618,457.66	7,027.19	3,660.66	11,193.46	9,969.66	2,401.84
- D.I. Yogyakarta	1,415.12	333,505.03	10,650.88	7,517.36	18,205.89	5,440.95	2,278.43
UID West Java	1,432.81	1,464,217.95	8,932.71	3,662.05	22,587.09	4,129.66	3,381.89
UID Banten	1,783.22	2,025,192.09	14,335.72	4,902.15	38,827.82	10,629.65	6,494.87
UID Jakarta Raya	3,247.99	708,003.38	34,866.81	27,821.11	200,381.40	23,801.66	6,653.76
Java	1,578.55	519,066.16	11,884.94	4,899.50	32,309.41	7,793.75	3,604.76
Indonesia	1,524.00	508,650.67	10,335.00	4,714.68	20,418.21	11,281.03	3,121.18

Annual Data 2021

Table 9 : Average Tariff Selling of Electricity by Type of Customer (Rp/kWh)

2021

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
UIW Aceh	757.24	1,142.35	1,130.69	757.63	1,342.76	1,444.89	891.81
UIW North Sumatera	969.96	1,119.33	1,237.13	775.31	1,331.77	1,444.83	1,061.31
UIW West Sumatera	990.30	1,029.69	1,148.54	789.40	1,348.17	1,444.71	1,035.87
UIW Riau and Riau Archipelago	1,235.08	658.20	1,214.80	845.67	1,329.21	1,444.30	1,088.53
- Riau	1,219.33	647.51	1,210.45	846.43	1,325.80	1,444.22	1,061.08
- Riau Archipelago	1,328.10	1,084.03	1,232.54	841.05	1,338.98	1,444.68	1,272.20
UIW South Sumatera, Jambi and Bengkulu	1,068.66	1,100.58	1,259.44	772.33	1,337.12	1,449.71	1,107.81
- South Sumatera	1,040.17	1,097.14	1,259.40	786.70	1,323.57	1,450.25	1,093.06
- Jambi	1,185.99	1,104.92	1,242.65	744.88	1,349.26	1,448.81	1,180.72
- Bengkulu	976.10	1,134.09	1,304.97	756.91	1,367.36	1,445.88	1,040.26
UIW Bangka Belitung	1,257.45	1,134.01	1,250.95	862.42	1,359.28	1,445.42	1,215.72
UID Lampung	908.92	1,125.69	1,246.70	723.64	1,326.37	1,432.46	1,008.33
UIW West Kalimantan	997.21	1,112.98	1,247.58	784.83	1,337.87	1,444.62	1,064.97
UIW S and C Kalimantan	1,009.81	1,153.70	1,200.23	745.88	1,356.21	1,444.74	1,069.77
- South Kalimantan	960.70	1,149.35	1,229.46	742.64	1,362.39	1,444.69	1,045.38
- Central Kalimantan	1,100.32	1,164.96	1,148.14	752.46	1,348.40	1,444.86	1,116.33
UIW East and North Kalimantan	1,251.58	1,145.80	1,260.18	815.94	1,290.09	1,444.69	1,227.98
UIW N, C Sulawesi and Gorontalo	906.32	1,099.18	1,255.58	757.59	1,332.31	1,443.13	1,016.31
- North Sulawesi	920.94	1,099.44	1,260.37	782.14	1,345.70	1,444.84	1,044.61
- Gorontalo	810.13	1,113.68	1,284.57	753.84	1,307.58	1,429.03	943.46
- Central Sulawesi	934.23	1,088.71	1,229.83	726.91	1,338.43	1,444.43	1,010.11
UIW S, SE and W Sulawesi	1,038.47	1,029.48	1,253.47	811.54	1,327.69	1,436.96	1,079.63
- South Sulawesi	1,030.03	1,024.83	1,253.45	812.49	1,327.32	1,435.29	1,073.43
- Southeast Sulawesi	1,062.57	1,097.20	1,257.16	813.45	1,330.28	1,445.35	1,106.76
- West Sulawesi	1,068.84	1,122.04	1,240.04	793.95	1,325.07	1,445.32	1,101.72
UIW Maluku and North Maluku	1,082.08	1,061.07	1,272.86	766.74	1,371.05	1,445.36	1,128.84
- Maluku	1,098.53	1,084.05	1,263.16	798.10	1,370.69	1,445.33	1,145.30
- North Maluku	1,069.15	1,021.80	1,284.88	730.81	1,371.49	1,445.38	1,113.78
UIW Papua and West Papua	1,274.50	1,149.20	1,257.72	824.32	1,326.35	1,444.87	1,249.72
- Papua	1,289.97	1,111.92	1,255.86	828.46	1,302.33	1,445.47	1,256.74
- West Papua	1,242.86	1,195.81	1,262.28	815.87	1,374.56	1,443.69	1,234.82
UID Bali	1,279.48	1,103.62	1,256.19	820.03	1,357.23	1,445.04	1,252.38
UIW West Nusa Tenggara	739.33	1,122.15	1,281.97	761.34	1,338.18	1,444.72	895.14
UIW East Nusa Tenggara	1,056.30	1,098.84	1,265.86	835.67	1,332.56	1,445.47	1,106.05
PT PLN Batam	1,438.59	1,270.36	1,604.45	1,164.94	1,911.28	2,139.26	1,432.87
Outside Java	1,047.49	1,055.23	1,255.72	794.67	1,346.05	1,449.34	1,094.56
UID East Java	894.35	1,082.46	1,235.89	771.29	1,302.92	1,445.56	1,024.98
UID Central Java and Yogyakarta	805.05	1,094.82	1,249.71	794.65	1,311.48	1,444.71	969.02
- Central Java	779.18	1,094.56	1,254.36	786.09	1,314.55	1,444.69	958.55
- D.I. Yogyakarta	994.99	1,102.93	1,226.40	831.39	1,298.56	1,444.87	1,058.75
UID West Java	967.93	1,107.60	1,226.69	788.06	1,270.97	1,444.20	1,063.26
UID Banten	1,064.25	1,079.10	1,265.52	808.54	1,273.92	1,445.09	1,097.71
UID Jakarta Raya	1,375.09	1,083.37	1,195.90	900.23	1,213.44	1,444.77	1,252.77
Java	1,009.88	1,092.34	1,224.03	813.24	1,253.31	1,444.91	1,078.36
Indonesia	1,024.01	1,086.22	1,234.68	806.37	1,292.84	1,447.08	1,083.30

Table 10 : Number of Customers by Type of Voltage**2021**

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	1,612,225	526	-	1,612,751	1.95
UIW North Sumatera	4,133,225	10,328	2	4,143,555	5.02
UIW West Sumatera	1,558,480	1,232	2	1,559,714	1.89
UIW Riau and Riau Archipelago	2,279,365	2,559	2	2,281,926	2.76
- Riau	1,972,555	2,384	2	1,974,941	2.39
- Riau Archipelago	306,810	175	-	306,985	0.37
UIW South Sumatera, Jambi and Bengkulu	3,953,754	1,468	1	3,955,223	4.79
- South Sumatera	2,278,574	1,028	1	2,279,603	2.76
- Jambi	1,066,944	246	-	1,067,190	1.29
- Bengkulu	608,236	194	-	608,430	0.74
UIW Bangka Belitung	512,072	3,702	-	515,774	0.62
UID Lampung	2,448,043	793	-	2,448,836	2.97
UIW West Kalimantan	1,351,487	419	-	1,351,906	1.64
UIW S & C Kalimantan	2,093,469	549	-	2,094,018	2.54
- South Kalimantan	1,362,601	391	-	1,362,992	1.65
- Central Kalimantan	730,868	158	-	731,026	0.89
UIW East and North Kalimantan	1,342,058	716	-	1,342,774	1.63
UIW N, C Sulawesi and Gorontalo	1,887,957	771	1	1,888,729	2.29
- North Sulawesi	757,240	352	1	757,593	0.92
- Gorontalo	320,134	100	-	320,234	0.39
- Central Sulawesi	810,583	319	-	810,902	0.98
UIW S, SE and W Sulawesi	3,536,979	2,864	5	3,539,848	4.29
- South Sulawesi	2,516,112	2,409	5	2,518,526	3.05
- Southeast Sulawesi	700,667	267	-	700,934	0.85
- West Sulawesi	320,200	188	-	320,388	0.39
UIW Maluku and North Maluku	705,022	1,097	-	706,119	0.86
- Maluku	300,912	629	-	301,541	0.37
- North Maluku	404,110	468	-	404,578	0.49
UIW Papua and West Papua	751,340	520	-	751,860	0.91
- Papua	493,822	270	-	494,092	0.60
- West Papua	257,518	250	-	257,768	0.31
UID Bali	1,536,547	42,736	-	1,579,283	1.91
UIW West Nusa Tenggara	1,724,388	984	-	1,725,372	2.09
UIW East Nusa Tenggara	1,017,956	531	-	1,018,487	1.23
PT PLN Batam	344,417	3,197	-	347,614	0.42
Outside Java	32,788,784	74,992	13	32,863,789	39.81
UID East Java	12,858,867	5,890	27	12,864,784	15.59
UID Central Java and Yogyakarta	12,459,850	4,700	10	12,464,560	15.10
- Central Java	11,096,120	4,167	10	11,100,297	13.45
- D.I. Yogyakarta	1,363,730	533	-	1,364,263	1.65
UID West Java	15,756,263	9,457	27	15,765,747	19.10
UID Banten	3,660,050	9,110	27	3,669,187	4.45
UID Jakarta Raya	4,895,429	20,478	6	4,915,913	5.96
Java	49,630,459	49,635	97	49,680,191	60.19
Indonesia	82,419,243	124,627	110	82,543,980	100.00
(%)	99.85	0.15	-	100	

Annual Data 2021

Table 11 : Connected Capacity by Type of Voltage (MVA)

2021

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	1,796.26	129.39	-	1,925.65	1.25
UIW North Sumatera	5,186.42	1,498.57	80.10	6,765.09	4.41
UIW West Sumatera	1,850.09	195.70	140.00	2,185.79	1.42
UIW Riau and Riau Archipelago	3,486.83	515.84	360.00	4,362.67	2.84
- Riau	2,918.45	437.82	360.00	3,716.27	2.42
- Riau Archipelago	568.38	78.02	-	646.40	0.42
UIW South Sumatera, Jambi and Bengkulu	4,940.93	783.30	45.00	5,769.23	3.76
- South Sumatera	2,810.67	599.65	45.00	3,455.32	2.25
- Jambi	1,463.06	129.15	-	1,592.21	1.04
- Bengkulu	667.20	54.50	-	721.70	0.47
UIW Bangka Belitung	810.64	176.23	-	986.87	0.64
UID Lampung	2,772.32	596.91	-	3,369.23	2.19
UIW West Kalimantan	1,749.13	187.75	-	1,936.88	1.26
UIW S and C Kalimantan	2,492.09	393.38	-	2,885.47	1.88
- South Kalimantan	1,564.17	291.00	-	1,855.17	1.21
- Central Kalimantan	927.92	102.38	-	1,030.30	0.67
UIW East and North Kalimantan	2,236.06	418.58	-	2,654.64	1.73
UIW N, C Sulawesi and Gorontalo	2,246.85	315.01	40.00	2,601.86	1.69
- North Sulawesi	994.94	205.91	40.00	1,240.85	0.81
- Gorontalo	346.47	36.80	-	383.27	0.25
- Central Sulawesi	905.44	72.30	-	977.74	0.64
UIW S, SE and W Sulawesi	4,735.68	629.75	342.25	5,707.68	3.72
- South Sulawesi	3,413.28	541.03	342.25	4,296.56	2.80
- Southeast Sulawesi	929.68	70.16	-	999.84	0.65
- West Sulawesi	392.72	18.56	-	411.28	0.27
UIW Maluku and North Maluku	883.78	66.62	-	950.40	0.62
- Maluku	408.01	43.51	-	451.52	0.29
- North Maluku	475.76	23.12	-	498.88	0.32
UIW Papua and West Papua	1,299.44	128.60	-	1,428.04	0.93
- Papua	860.42	83.42	-	943.84	0.61
- West Papua	439.02	45.18	-	484.20	0.32
UID Bali	3,324.83	672.74	-	3,997.57	2.60
UIW West Nusa Tenggara	1,734.33	158.27	-	1,892.60	1.23
UIW East Nusa Tenggara	1,253.62	79.21	-	1,332.83	0.87
PT PLN Batam	982.23	598.64	-	1,580.87	1.03
Outside Java	43,781.53	7,544.49	1,007.35	52,333.37	34.08
UID East Java	15,751.14	5,722.57	1,161.16	22,634.87	14.74
UID Central Java and Yogyakarta	13,668.01	3,583.02	439.50	17,690.53	11.52
- Central Java	11,844.02	3,208.61	439.50	15,492.13	10.09
- D.I. Yogyakarta	1,823.99	374.41	-	2,198.40	1.43
UID West Java	18,684.29	8,442.96	1,494.87	28,622.12	18.64
UID Banten	5,488.44	4,714.93	1,831.18	12,034.55	7.84
UID Jakarta Raya	12,617.85	7,234.53	398.14	20,250.52	13.19
Java	66,209.73	29,698.01	5,324.85	101,232.59	65.92
Indonesia	109,991.26	37,242.50	6,332.20	153,565.96	100.00
(%)	71.63	24.25	4.12	100.00	

Table 12 : Energy Sold by Type of Voltage (GWh)**2021**

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	2,871.76	202.71	-	3,074.47	1.19
UIW North Sumatera	8,290.40	3,194.15	263.85	11,748.40	4.56
UIW West Sumatera	2,619.53	364.88	661.79	3,646.20	1.42
UIW Riau and Riau Archipelago	4,980.44	1,010.52	1,030.20	7,021.16	2.73
- Riau	4,213.04	865.08	1,030.20	6,108.32	2.37
- Riau Archipelago	767.40	145.44	-	912.84	0.35
UIW South Sumatera, Jambi and Bengkulu	7,049.41	1,566.51	148.54	8,764.46	3.40
- South Sumatera	4,213.91	1,231.48	148.54	5,593.93	2.17
- Jambi	1,881.89	230.03	-	2,111.92	0.82
- Bengkulu	953.62	104.99	-	1,058.61	0.41
UIW Bangka Belitung	1,041.62	327.58	-	1,369.20	0.53
UID Lampung	4,004.37	1,172.57	-	5,176.94	2.01
UIW West Kalimantan	2,578.38	334.60	-	2,912.98	1.13
UIW S and C Kalimantan	3,861.49	787.11	-	4,648.60	1.80
- South Kalimantan	2,469.25	581.46	-	3,050.71	1.18
- Central Kalimantan	1,392.24	205.65	-	1,597.89	0.62
UIW East and North Kalimantan	3,390.09	911.85	-	4,301.94	1.67
UIW N, C Sulawesi and Gorontalo	3,213.93	555.32	163.57	3,932.82	1.53
- North Sulawesi	1,396.31	380.38	163.57	1,940.26	0.75
- Gorontalo	563.49	75.22	-	638.71	0.25
- Central Sulawesi	1,254.13	99.72	-	1,353.85	0.53
UIW S, SE and W Sulawesi	6,253.17	953.70	980.33	8,187.20	3.18
- South Sulawesi	4,765.47	852.07	980.33	6,597.87	2.56
- Southeast Sulawesi	1,078.16	71.68	-	1,149.84	0.45
- West Sulawesi	409.54	29.95	-	439.49	0.17
UIW Maluku and North Maluku	1,138.64	81.28	-	1,219.92	0.47
- Maluku	532.51	50.37	-	582.88	0.23
- North Maluku	606.13	30.91	-	637.04	0.25
UIW Papua and West Papua	1,631.00	189.85	-	1,820.85	0.71
- Papua	1,098.32	139.32	-	1,237.64	0.48
- West Papua	532.68	50.53	-	583.21	0.23
UID Bali	3,842.22	865.80	-	4,708.02	1.83
UIW West Nusa Tenggara	1,999.55	290.64	-	2,290.19	0.89
UIW East Nusa Tenggara	1,057.60	102.56	-	1,160.16	0.45
PT PLN Batam	1,391.79	1,174.00	-	2,565.79	1.00
Outside Java	61,215.39	14,085.63	3,248.28	78,549.30	30.49
UID East Java	22,686.27	12,941.94	3,828.98	39,457.19	15.32
UID Central Java and Yogyakarta	20,381.17	8,286.12	1,102.25	29,769.54	11.55
- Central Java	17,884.53	7,674.38	1,102.25	26,661.16	10.35
- D.I. Yogyakarta	2,496.64	611.74	-	3,108.38	1.21
UID West Java	27,731.21	20,447.77	5,139.04	53,318.02	20.70
UID Banten	8,695.14	10,969.60	4,166.17	23,830.91	9.25
UID Jakarta Raya	19,656.79	11,988.35	1,064.16	32,709.30	12.70
Java	99,150.58	64,633.78	15,300.60	179,084.96	69.51
Indonesia	160,365.97	78,719.41	18,548.88	257,634.25	100.00
(%)	62.25	30.55	7.20	100.00	

Annual Data 2021

Table 13 : Revenue by Type of Voltage (million Rp)

2021

PLN Operational Unit/ Province	Voltage				Total	(%)
	Low	Medium	High	Multipurpose		
UIW Aceh	2,509,743.78	212,586.28	-	19,528.16	2,741,858.22	0.98
UIW North Sumatera	8,575,664.20	3,550,500.65	282,446.66	60,107.19	12,468,718.70	4.47
UIW West Sumatera	2,707,325.48	386,330.01	659,631.80	23,692.63	3,776,979.92	1.35
UIW Riau and Riau Archipelago	6,097,477.59	1,105,103.07	403,070.92	37,064.09	7,642,715.67	2.74
- Riau	5,104,941.15	940,033.25	403,070.92	33,354.44	6,481,399.76	2.32
- Riau Archipelago	992,536.44	165,069.82	-	3,709.65	1,161,315.91	0.42
UIW South Sumatera, Jambi and Bengkulu	7,789,466.74	1,684,813.59	148,060.71	86,980.99	9,709,322.03	3.48
- South Sumatera	4,579,679.55	1,336,115.03	148,060.71	50,649.40	6,114,504.69	2.19
- Jambi	2,236,575.94	242,008.80	-	15,003.17	2,493,587.91	0.89
- Bengkulu	973,211.25	106,689.76	-	21,328.42	1,101,229.43	0.39
UIW Bangka Belitung	1,291,252.48	364,433.51	-	8,883.36	1,664,569.35	0.60
UID Lampung	3,902,039.60	1,309,496.43	-	8,542.47	5,220,078.50	1.87
UIW West Kalimantan	2,712,140.95	356,676.45	-	33,409.68	3,102,227.08	1.11
UIW S and C Kalimantan	4,077,672.96	877,500.21	-	17,742.01	4,972,915.18	1.78
- South Kalimantan	2,529,155.84	650,265.82	-	9,720.32	3,189,141.98	1.14
- Central Kalimantan	1,548,517.12	227,234.39	-	8,021.69	1,783,773.20	0.64
UIW East and North Kalimantan	4,226,285.67	974,596.73	-	81,819.26	5,282,701.66	1.89
UIW N, C Sulawesi and Gorontalo	3,198,042.69	585,896.49	172,034.27	40,984.70	3,996,958.15	1.43
- North Sulawesi	1,421,344.04	416,547.11	172,034.27	16,891.80	2,026,817.22	0.73
- Gorontalo	516,457.88	66,409.76	-	19,729.12	602,596.76	0.22
- Central Sulawesi	1,260,240.77	102,939.62	-	4,363.78	1,367,544.17	0.49
UIW S, SE and W Sulawesi	6,815,119.49	1,011,067.67	956,700.37	56,268.19	8,839,155.72	3.17
- South Sulawesi	5,177,186.19	901,806.33	956,700.37	46,667.27	7,082,360.16	2.54
- Southeast Sulawesi	1,189,593.34	77,559.48	-	5,447.09	1,272,599.91	0.46
- West Sulawesi	448,339.96	31,701.86	-	4,153.83	484,195.65	0.17
UIW Maluku and North Maluku	1,280,686.42	66,583.34	-	29,819.96	1,377,089.72	0.49
- Maluku	610,488.15	45,989.60	-	11,092.00	667,569.75	0.24
- North Maluku	670,198.27	20,593.74	-	18,727.96	709,519.97	0.25
UIW Papua and West Papua	2,051,198.19	176,737.64	-	47,612.14	2,275,547.97	0.82
- Papua	1,392,634.85	119,914.27	-	42,840.52	1,555,389.64	0.56
- West Papua	658,563.34	56,823.37	-	4,771.62	720,158.33	0.26
UID Bali	4,892,120.80	899,459.04	-	104,630.93	5,896,210.77	2.11
UIW West Nusa Tenggara	1,716,149.91	256,919.15	-	76,967.67	2,050,036.73	0.73
UIW East Nusa Tenggara	1,167,940.54	100,294.51	-	14,957.76	1,283,192.81	0.46
PT PLN Batam	2,091,965.66	1,549,825.76	-	34,648.25	3,676,439.67	1.32
Outside Java	67,102,293.15	15,468,820.53	2,621,944.72	783,659.44	85,976,717.84	30.81
UID East Java	22,079,499.53	14,179,057.86	3,851,344.75	333,097.10	40,442,999.24	14.49
UID Central Java and Yogyakarta	18,503,614.58	8,894,785.12	1,094,399.80	354,390.05	28,847,189.55	10.34
- Central Java	15,865,965.80	8,244,100.23	1,094,399.80	351,711.98	25,556,177.81	9.16
- D.I. Yogyakarta	2,637,648.78	650,684.89	-	2,678.07	3,291,011.74	1.18
UID West Java	28,205,263.35	22,849,755.16	5,190,248.55	445,497.87	56,690,764.93	20.31
UID Banten	9,550,904.36	11,941,094.72	4,239,095.25	428,215.42	26,159,309.75	9.37
UID Jakarta Raya	26,525,347.11	12,951,596.91	1,069,255.61	431,127.61	40,977,327.24	14.68
Java	104,864,628.93	70,816,289.77	15,444,343.96	1,992,328.04	193,117,590.70	69.19
Indonesia	171,966,922.08	86,285,110.30	18,066,288.68	2,775,987.48	279,094,308.54	100.00
(%)	61.62	30.92	6.47	0.99	100.00	

Note: Data from Aplikasi Pelayanan Pelanggan Terpusat (AP2T)

Table 14 : Number of Customers, Connected Capacity and Energy Consumption by Tariff Category (Rp/kWh)

2021

Tariff Category	Customers	Connected (MVA)	Sold (MWh)	Revenue *) (thousand Rp)
S-1	196	0.04	0.33	16,428.00
S-2	1,835,762	4,972.17	5,502.36	4,117,149,571.46
S-3	2,325	1,982.23	3,163.62	2,870,829,621.47
R-1	73,660,598	65,260.04	101,216.18	97,678,943,434.93
R-2	1,734,626	7,324.84	9,302.57	13,445,797,871.45
R-3	306,565	3,981.91	4,850.94	7,014,871,900.48
B-1	3,487,129	6,316.23	8,021.41	7,513,946,229.82
B-2	707,324	14,144.93	18,594.70	26,332,631,085.02
B-3 **)	8,676	10,533.99	15,812.06	17,852,149,867.84
I-1	99,307	433.98	303.88	320,947,428.69
I-2	44,809	4,258.78	6,325.99	6,662,739,982.98
I-3	14,831	22,126.59	55,725.71	62,830,162,815.20
I-4	110	6,332.20	18,548.88	18,066,288,677.08
P-1	228,687	2,004.14	2,702.61	3,750,063,545.71
P-2	1,890	1,620.79	2,005.33	2,336,603,115.24
P-3	314,240	1,294.21	3,544.98	5,129,814,599.71
Traction T-1	78	374.54	317.13	275,216,653.21
Bulk C-1	23	41.37	106.77	120,148,230.16
Special Services	96,804	562.98	1,588.80	2,775,987,479.16
Total	82,543,980	153,565.96	257,634.25	279,094,308,537.61

*) Data from Aplikasi Pelayanan Pelanggan Terpusat (AP2T)

**) Included B4 Customers

Annual Data 2021

Table 15 : Waiting List

PLN Operational Unit/ Province	Waiting List Last Month		New Applicants This Month		Payment of Connection Fee This Month		Connected	
	Total	Capacity (kVA)	Total	Capacity (kVA)	Total	Capacity (kVA)	Total	Capacity (kVA)
UIW Aceh	5,212	127,853,380.00	62,080	182,865,335.00	57,807	108,956,635.00	56,517	85,106,615.00
UIW North Sumatera	36,344	154,312,650.00	234,308	493,936,100.00	181,543	263,024,000.00	188,528	281,763,800.00
UIW West Sumatera	18,146	30,999,650.00	87,160	128,170,300.00	77,069	101,073,450.00	73,317	97,010,700.00
UIW Riau and Riau Archipelago	58,477	377,727,500.00	158,009	641,067,900.00	137,078	523,099,800.00	143,109	516,157,950.00
- Riau	50,692	329,608,450.00	133,269	595,601,200.00	115,793	494,256,250.00	121,991	486,108,950.00
- Riau Archipelago	7,785	48,119,050.00	24,740	45,466,700.00	21,285	28,843,550.00	21,118	30,049,000.00
UIW South Sumatera, Jambi and Bengkulu	109,517	252,871,850.00	258,046	389,727,350.00	204,720	272,190,700.00	212,561	276,855,650.00
- South Sumatera	71,268	149,761,800.00	142,668	208,081,800.00	117,723	151,768,050.00	123,789	158,131,100.00
- Jambi	26,567	78,533,900.00	84,896	139,844,150.00	59,097	85,348,050.00	60,602	85,730,950.00
- Bengkulu	11,682	24,576,150.00	30,482	41,801,400.00	27,900	35,074,600.00	28,170	32,993,600.00
UIW Bangka Belitung	5,476	58,817,800.00	30,142	105,730,350.00	22,945	72,795,100.00	23,437	66,508,850.00
UID Lampung	97,391	449,433,100.00	140,422	261,359,750.00	122,192	154,694,450.00	129,949	165,973,200.00
UIW West Kalimantan	48,110	169,124,050.00	110,049	233,049,750.00	85,921	114,262,800.00	82,798	102,098,600.00
UIW S and C Kalimantan	57,821	1,418,890,450.00	127,976	239,381,100.00	105,634	146,121,900.00	108,470	156,942,200.00
- South Kalimantan	31,604	1,145,618,350.00	73,659	115,958,450.00	62,028	83,564,850.00	64,059	91,920,400.00
- Central Kalimantan	26,217	273,272,100.00	54,317	123,422,650.00	43,606	62,557,050.00	44,411	65,021,800.00
UIW East and North Kalimantan	14,682	195,379,650.00	89,749	321,341,850.00	76,932	198,223,950.00	77,215	138,514,750.00
UIW N, C Sulawesi and Gorontalo	38,202	976,525,600.00	141,703	1,261,370,350.00	109,892	350,341,550.00	113,082	146,208,300.00
- North Sulawesi	12,329	312,446,300.00	39,203	73,456,700.00	31,726	50,922,900.00	32,948	54,522,050.00
- Gorontalo	3,794	394,187,900.00	20,440	25,293,300.00	19,165	20,554,500.00	19,979	21,208,100.00
- Central Sulawesi	22,079	269,891,400.00	82,060	1,162,620,350.00	59,001	278,864,150.00	60,155	70,478,150.00
UIW S, SE and W Sulawesi	177,918	4,595,954,150.00	252,332	886,393,830.00	194,627	473,727,600.00	199,396	440,001,650.00
- South Sulawesi	106,963	1,826,091,150.00	163,769	301,530,930.00	123,528	177,188,050.00	129,662	350,717,250.00
- South East Sulawesi	54,416	2,741,048,650.00	59,644	540,385,750.00	48,605	264,800,950.00	48,176	61,138,450.00
- West Sulawesi	16,539	28,814,350.00	28,919	44,477,150.00	22,494	31,738,600.00	21,558	28,145,950.00
UIW Maluku and North Maluku	3,601	9,824,850.00	42,278	63,125,600.00	38,776	51,466,950.00	38,483	51,490,100.00
- Maluku	1,737	3,245,350.00	15,693	24,225,900.00	14,698	19,809,400.00	14,730	19,979,700.00
- North Maluku	1,864	6,579,500.00	26,585	38,899,700.00	24,078	31,657,550.00	23,753	31,510,400.00
UIW Papua and West Papua	35,159	117,007,834.00	61,768	136,315,950.00	40,967	78,188,550.00	42,048	83,543,850.00
- Papua	29,289	98,058,700.00	38,493	94,578,950.00	25,977	51,132,200.00	27,143	56,955,700.00
- West Papua	5,870	18,949,134.00	23,275	41,737,000.00	14,990	27,056,350.00	14,905	26,588,150.00
UID Bali	6,647	36,265,150.00	61,306	204,178,300.00	52,581	120,747,450.00	51,986	119,165,550.00
UIW West Nusa Tenggara	52,130	73,724,300.00	153,856	166,435,200.00	136,850	124,976,850.00	139,218	125,631,500.00
UIW East Nusa Tenggara	94,397	96,990,258.00	106,188	130,795,600.00	91,649	97,894,250.00	89,412	91,260,600.00
PT PLN Batam	364,210	222,573,414.80	65,684	12,180,557.60	52,536	5,759,309.90	11,838	2,810,248.60
Outside Java	1,223,440	9,364,275,636.80	2,183,056	5,857,425,172.60	1,789,719	3,257,545,294.90	1,781,364	2,947,044,113.60
UID East Java	127,024	592,950,300.00	611,520	1,173,990,550.00	468,835	788,826,050.00	443,338	743,815,350.00
UID Central Java and Yogyakarta	62,673	710,280,750.00	539,756	1,150,892,556.00	438,925	729,779,700.00	430,945	808,264,050.00
- Central Java	55,126	693,652,200.00	468,694	1,030,506,556.00	383,183	641,574,500.00	376,188	722,185,300.00
- D.I. Yogyakarta	7,547	16,628,550.00	71,062	120,386,000.00	55,742	88,205,200.00	54,757	86,078,750.00
UID West Java	109,543	1,191,338,750.00	738,980	1,747,734,550.00	606,753	1,089,165,550.00	605,504	1,017,210,150.00
UID Banten	24,730	833,679,600.00	247,290	794,930,550.00	185,200	486,136,800.00	182,978	522,467,850.00
UID Jakarta Raya	27,083	162,713,600.00	213,605	615,027,100.00	171,201	345,195,000.00	172,230	352,820,700.00
Java	351,053	3,490,963,000.00	2,351,151	5,482,575,306.00	1,870,914	3,439,103,100.00	1,834,995	3,444,578,100.00
Indonesia	1,574,493	12,855,238,636.80	4,534,207	11,340,000,478.60	3,660,633	6,696,648,394.90	3,616,359	6,391,622,213.60

Discharging/Cancelled		Receive From Deposit Connection Fee		Correction of Application for Connection Fee		Move From Another Unit		Move to Another Unit		Final Waiting List	
		Total	Capacity (kVA)	Total	Capacity (kVA)	Total	Capacity (kVA)	Total	Capacity (kVA)	Total	Capacity (kVA)
521	975,000	218	299,100	-	-	236	915,885	236	915,885	6,199	151,027,500
1,535	3,601,800	464	910,350	1	164,000	2,530	4,128,600	2,538	4,147,700	28,281	133,026,300
1,890	3,247,500	217	1,043,400	17	16,600	261	574,100	228	531,300	20,275	32,917,700
1,601	3,413,250	181	502,500	-	-	1,731	2,544,800	1,742	2,554,700	51,015	381,748,700
1,541	3,346,750	181	502,500	-	-	1,580	2,315,900	1,591	2,325,800	43,123	334,901,600
60	66,500	-	-	-	-	151	228,900	151	228,900	7,892	46,847,100
4,871	8,436,650	1,114	2,274,550	-	-	1,379	6,001,450	1,386	6,008,150	97,912	242,038,100
2,903	4,734,850	742	1,501,800	-	-	749	2,286,000	750	2,286,900	63,040	140,164,800
1,758	3,104,550	351	665,450	-	-	407	3,423,150	413	3,428,950	23,649	75,706,100
210	597,250	21	107,300	-	-	223	292,300	223	292,300	11,223	26,167,200
896	1,890,250	297	524,000	-	-	236	586,150	236	586,150	4,385	63,737,800
2,040	1,870,100	166	144,900	1	900	714	1,084,700	714	1,084,700	87,761	436,430,050
1,981	3,185,200	652	945,600	-	-	403	609,050	403	609,050	49,904	179,048,650
1,578	32,968,650	197	651,650	1	30,000,000	639	606,900	639	606,900	53,605	1,405,753,150
1,009	31,575,850	148	551,800	1	30,000,000	346	305,150	345	304,250	28,714	1,136,239,650
569	1,392,800	49	99,850	-	-	293	301,750	294	302,650	24,891	269,513,500
1,190	1,761,300	381	666,700	-	-	666	3,079,050	485	817,750	13,771	256,255,550
890	2,066,300	153	210,350	1	240,000	76	104,250	76	104,250	34,276	1,179,042,900
311	886,950	75	124,600	-	-	53	73,550	53	73,550	10,871	308,084,800
67	72,500	28	25,200	-	-	12	8,550	12	8,550	2,941	393,487,000
512	1,106,850	50	60,550	1	240,000	11	22,150	11	22,150	20,464	477,471,100
1,752	2,556,050	3	4,000	1	147,000	2,007	3,069,700	2,007	3,069,700	171,401	4,627,275,050
1,079	1,299,950	1	900	-	-	908	1,915,950	931	1,936,650	99,728	1,651,242,200
431	993,850	1	2,200	1	147,000	1,017	1,079,150	1,017	1,079,150	54,416	2,943,866,500
242	262,250	1	900	-	-	82	74,600	59	53,900	17,257	32,166,350
37	1,231,850	-	-	1	1,110,000	42	36,250	36	33,550	3,864	9,682,550
16	89,900	-	-	-	-	10	10,150	10	10,150	1,689	2,985,150
21	1,141,950	-	-	1	1,110,000	32	26,100	26	23,400	2,175	6,697,400
751	1,498,417	296	384,800	-	-	24	37,600	24	37,600	33,623	110,538,917
721	1,432,100	296	384,800	-	-	15	27,500	15	27,500	27,698	91,187,900
30	66,317	-	-	-	-	9	10,100	9	10,100	5,925	19,351,017
789	2,237,850	-	-	-	-	344	1,026,900	344	1,026,900	6,453	35,609,200
7,054	4,996,200	2,723	1,979,400	142	127,800	574	2,268,400	574	2,268,400	45,573	70,180,650
211	426,000	24	14,850	-	-	556	507,100	556	507,100	96,447	103,212,758
42,004	98,326,196	-	-	-	-	-	-	-	-	362,904	127,196,280
71,591	174,688,563	7,086	10,556,150	165	31,806,300	12,418	27,180,885	12,224	24,909,785	1,167,649	9,544,721,805
37,690	63,467,800	8,147	13,238,800	150	2,331,850	7,663	10,344,050	7,660	10,350,450	123,131	590,057,450
16,903	58,615,300	6,012	10,954,700	5	801,000	4,900	6,655,450	4,903	6,619,900	59,764	584,972,350
14,342	54,287,000	4,961	9,240,500	5	801,000	4,808	6,331,700	4,857	6,340,150	52,696	568,787,450
2,561	4,328,300	1,051	1,714,200	-	-	92	323,750	46	279,750	7,068	16,184,900
3,627	6,706,600	98	1,987,900	1	105,000	9,567	165,815,050	10,877	168,098,700	105,954	1,256,396,800
2,554	5,225,200	185	391,350	12	114,900	1,776	72,728,750	1,983	73,187,900	24,388	792,170,450
2,281	17,026,650	565	7,536,650	5	6,462,100	8,655	16,852,550	7,137	14,108,850	25,861	154,803,700
63,055	151,041,550	15,007	34,109,400	173	9,814,850	32,561	272,395,850	32,560	272,365,800	339,098	3,378,400,750
134,646	325,730,113	22,093	44,665,550	338	41,621,150	44,979	299,576,735	44,784	297,275,585	1,506,747	12,923,122,555

Annual Data 2021

Table 16 : SAIDI and SAIFI

2021

PLN Operational Unit/ Province	SAIDI Hours/Customer	SAIFI Times/Customer
UIW Aceh	7.54	6.55
UIW North Sumatera	14.78	9.84
UIW West Sumatera	8.95	5.75
UIW Riau and Riau Archipelago	9.88	7.28
UIW South Sumatera, Jambi and Bengkulu	17.86	9.18
UIW Bangka Belitung	1.95	3.35
UID Lampung	9.66	5.82
UIW West Kalimantan	21.18	19.57
UIW S and C Kalimantan	12.29	9.66
UIW East and North Kalimantan	11.96	9.33
UIW N, C Sulawesi and Gorontalo	20.02	18.93
UIW South, Southeast and West Sulawesi	10.09	8.72
UIW Maluku and North Maluku	2.09	4.80
UIW Papua and West Papua	8.76	5.95
UID Bali	1.03	1.08
UIW West Nusa Tenggara	6.39	4.72
UIW East Nusa Tenggara	7.63	9.15
PT PLN Batam	2.53	4.53
Outside Java	11.52	8.63
UID East Java	3.35	3.33
UID Central Java and Yogyakarta	8.29	6.26
UID West Java	12.81	8.62
UID Banten	1.11	1.00
UID Jakarta Raya	2.90	2.02
Java	7.34	5.41
Indonesia	9.00	6.70

Table 17 : Number of Distribution Interruption per 100 kmc**2021**

PLN Operational Unit/ Province	Interruption Duration (Hours)	Number of Interruption (Times)	Transmission Lines Length (kmc)	System Outage Duration (SOD) (Hours/100 kmc)	System Outage Frequency (SOF) (Times/100 kmc)
UIW Aceh	-	-	-	-	-
UIW North Sumatera	-	-	-	-	-
UIW West Sumatera	-	-	-	-	-
UIW Riau and Riau Archipelago	-	-	-	-	-
- Riau	-	-	-	-	-
- Riau Archipelago	-	-	-	-	-
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-
- South Sumatera	-	-	-	-	-
- Jambi	-	-	-	-	-
- Bengkulu	-	-	-	-	-
UIW Bangka Belitung	1.59	13	759.28	0.21	1.71
UID Lampung	-	-	-	-	-
UIW West Kalimantan	-	-	-	-	-
UIW S and C Kalimantan	-	-	-	-	-
- South Kalimantan	-	-	-	-	-
- Central Kalimantan	-	-	-	-	-
UIW East and North Kalimantan	-	-	-	-	-
UIW N, C Sulawesi and Gorontalo	-	-	-	-	-
- North Sulawesi	-	-	-	-	-
- Gorontalo	-	-	-	-	-
- Central Sulawesi	-	-	-	-	-
UIW S, SE and W Sulawesi	-	-	-	-	-
- South Sulawesi	-	-	-	-	-
- Southeast Sulawesi	-	-	-	-	-
- West Sulawesi	-	-	-	-	-
UIW Maluku and North Maluku	0.23	1	79.56	0.29	1.26
- Maluku	0.23	1	79.56	0.29	1.26
- North Maluku	-	-	-	-	-
UIW Papua and West Papua	4.07	4	298.88	1.36	1.34
- Papua	4.07	4	298.88	1.36	1.34
- West Papua	-	-	-	-	-
UID Bali	-	-	-	-	-
UIW West Nusa Tenggara	0.73	3	1,145.14	0.06	0.26
UIW East Nusa Tenggara	5.47	14	988.99	0.55	1.42
PT PLN Batam	0.65	2	183.51	0.35	1.09
PT PLN Tarakan	-	-	-	-	-
UIK Northern Part of Sumatera	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-
UIP3B Sumatera	44.97	68	19,073.08	0.24	0.36
UIKL Kalimantan	104.18	104	6,831.18	1.53	1.52
UIKL Sulawesi	35.63	50	7,677.94	0.46	0.65
Outside Java	197.52	259	37,037.56	0.53	0.70
UID East Java	-	-	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-
- Central Java	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-
UID West Java	-	-	-	-	-
UID Banten	-	-	-	-	-
UID Jakarta Raya	-	-	-	-	-
PT Indonesia Power	-	-	-	-	-
PT PJB	-	-	-	-	-
UIP2B	-	-	-	-	-
Java	-	-	-	-	-
Indonesia	197.52	259	37,037.56	0.53	0.70

SOD= System Outage Duration

SOF= System Outage Frequency

Annual Data 2021

Table18 : Number of Distribution Interruption per 100 kmc

2021

PLN Operational Unit/ Province	Number of Interruption (Times)	Medium Voltage Lines Length (kmc)	Number of Interruption (Times/100 kmc)
UIW Aceh	4,662	18,652.00	24.99
UIW North Sumatera	1,899	30,102.56	6.31
UIW West Sumatera	727	11,241.33	6.47
UIW Riau and Riau Archipelago	754	17,712.35	4.26
- Riau	657	15,220.46	4.32
- Riau Archipelago	97	2,491.89	3.89
UIW South Sumatera, Jambi and Bengkulu	1,342	27,965.36	4.80
- South Sumatera	760	14,051.24	5.41
- Jambi	437	9,114.30	4.79
- Bengkulu	145	4,799.82	3.02
UIW Bangka Belitung	577	5,612.28	10.28
UID Lampung	178	14,713.00	1.21
UIW West Kalimantan	78	13,860.56	0.56
UIW S and C Kalimantan	300	17,251.69	1.74
- South Kalimantan	177	9,372.64	1.89
- Central Kalimantan	123	7,879.04	1.56
UIW East and North Kalimantan	4,046	9,826.10	41.18
UIW N, C Sulawesi and Gorontalo	4,343	16,511.84	26.30
- North Sulawesi	2,117	5,908.62	35.83
- Gorontalo	319	2,499.23	12.76
- Central Sulawesi	1,907	8,103.99	23.53
UIW S, SE and W Sulawesi	5,372	26,486.36	20.28
- South Sulawesi	3,757	16,297.04	23.05
- Southeast Sulawesi	1,239	6,732.47	18.40
- West Sulawesi	376	3,456.84	10.88
UIW Maluku and North Maluku	947	8,138.87	11.64
- Maluku	644	4,542.78	14.18
- North Maluku	303	3,596.09	8.43
UIW Papua and West Papua	423	6,930.06	6.10
- Papua	210	4,677.76	4.49
- West Papua	213	2,252.30	9.46
UID Bali	1,319	8,606.84	15.33
UIW West Nusa Tenggara	1,095	6,819.86	16.06
UIW East Nusa Tenggara	1,581	9,783.09	16.16
PT PLN Batam	58	2,038.97	2.84
PT PLN Tarakan	-	-	-
UIK Northern Part of Sumatera	-	-	-
UIK Southern Part of Sumatera	-	-	-
UIP3B Sumatera	-	-	-
UIKL Sulawesi	-	-	-
UIKL Kalimantan	-	-	-
Outside Java	29,701	252,253.18	11.77
UID East Java	1,822	40,717.80	4.47
UID Central Java and Yogyakarta	794	54,523.13	1.46
- Central Java	709	48,710.79	1.46
- D.I. Yogyakarta	85	5,812.34	1.46
UID West Java	2,124	47,985.14	4.43
UID Banten	347	15,909.95	2.18
UID Jakarta Raya	753	17,541.10	4.29
PT Indonesia Power	-	-	-
PT PJB	-	-	-
UIP2B	-	-	-
Java	5,840	176,677.14	3.31
Indonesia	35,541	428,930.32	8.29

Table 19 : Electrification Ratio and Energy Consumption per Capita**2021**

PLN Operational Unit/ Province	Residential (1,000)	Residential Customers	Electrification *) (%)
UIW Aceh	1,397.08	1,396,567	99.96
UIW North Sumatera	3,879.88	3,882,049	99.83
UIW West Sumatera	1,364.64	1,349,712	98.74
UIW Riau and Riau Archipelago	2,447.61	2,328,869	95.51
- Riau	1,877.16	1,765,513	94.52
- Riau Archipelago	570.45	563,356	98.76
UIW South Sumatera, Jambi and Bengkulu	3,780.45	3,709,497	98.12
- South Sumatera	2,182.74	2,155,824	99.19
- Jambi	1,020.66	982,422	95.33
- Bengkulu	577.05	571,251	98.99
UIW Bangka Belitung	466.66	466,623	99.99
UID Lampung	2,302.51	2,294,945	99.78
UIW West Kalimantan	1,324.81	1,237,754	93.43
UIW S and C Kalimantan	1,979.22	1,888,372	95.41
- South Kalimantan	1,250.41	1,248,127	99.67
- Central Kalimantan	728.82	640,245	88.10
UIW East Kalimantan and North	1,296.92	1,229,582	94.81
UIW N, C Sulawesi and Gorontalo	1,776.97	1,754,901	98.76
- North Sulawesi	710.83	705,888	99.31
- Gorontalo	301.99	300,554	99.49
- Central Sulawesi	764.15	748,459	97.96
UIW S, SE and W Sulawesi	3,454.20	3,298,238	95.48
- South Sulawesi	2,394.94	2,351,702	98.19
- Southeast Sulawesi	728.29	648,064	88.99
- West Sulawesi	330.97	298,472	90.18
UIW Maluku and North Maluku	740.99	654,481	88.33
- Maluku	418.21	277,871	89.52
- North Maluku	322.78	376,610	86.78
UIW Papua and West Papua	1,095.14	672,533	61.41
- Papua	831.29	441,731	53.14
- West Papua	263.86	230,802	87.47
UID Bali	1,303.28	1,303,275	100.00
UIW West Nusa Tenggara	1,647.10	1,644,071	99.82
UIW East Nusa Tenggara	1,501.50	954,074	63.54
Outside Java	31,758.96	30,065,543	94.67
UID East Java	11,865.90	11,651,158	98.20
UID Central Java and Yogyakarta	11,628.54	11,474,394	98.66
- Central Java	10,223.67	10,224,191	99.99
- D.I. Yogyakarta	1,404.88	1,250,203	88.99
UID West Java	15,299.75	14,604,802	99.54
UID Banten	4,137.21	3,372,669	99.98
UID Jakarta Raya	3,169.56	4,533,419	99.99
Java	46,100.96	45,636,442	99.05
Indonesia	77,859.91	75,701,985	97.26

*) Excluded No PLN Customer

Annual Data 2021

Table 20 : Number of Generating Units *)

2021

PLN Operational Unit/ Province	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Com- bined Cycle	Geo- thermal	Diesel	Gas Engine	Sun	Wind	Biomass	Total	IPP	Rent- ed	Total	
UIW Aceh	-	-	4	-	-	-	-	210	-	-	-	-	214	9	2	225	
UIW North Sumatera	-	-	-	-	-	-	-	29	-	-	-	-	29	19	-	48	
UIW West Sumatera	3	-	-	-	-	-	-	102	-	2	-	-	107	18	-	125	
UIW Riau and Riau Archipelago	-	-	-	-	-	-	-	524	-	3	-	-	527	14	8	549	
- Riau	-	-	-	-	-	-	-	257	-	-	-	-	257	12	6	275	
- Riau Archipelago	-	-	-	-	-	-	-	267	-	3	-	-	270	2	2	274	
UIW South Sumatera, Jambi and Bengkulu	-	-	2	-	-	-	-	149	-	-	-	-	151	23	4	178	
- South Sumatera	-	-	-	-	-	-	-	41	-	-	-	-	41	14	-	55	
- Jambi	-	-	-	-	-	-	-	45	-	-	-	-	45	4	1	50	
- Bengkulu	-	-	2	-	-	-	-	63	-	-	-	-	65	5	3	73	
UIW Bangka Belitung	-	-	-	4	-	-	-	114	-	4	-	-	122	10	6	138	
UID Lampung	-	-	-	-	-	-	-	42	-	-	-	-	42	6	-	48	
UIW West Kalimantan	-	-	6	-	-	-	-	211	-	3	-	-	220	7	4	231	
UIW S and C Kalimantan	-	-	-	-	-	-	-	378	-	-	-	-	378	1	-	379	
- South Kalimantan	-	-	-	-	-	-	-	99	-	-	-	-	99	1	-	10	
- Central Kalimantan	-	-	-	-	-	-	-	279	-	-	-	-	279	-	-	279	
UIW of East and North Kalimantan	-	-	-	-	-	-	-	182	-	1	-	-	183	8	19	210	
UIW of N, C Sulawesi and Gorontalo	-	-	17	-	-	-	-	476	-	7	1	1	502	17	22	541	
- North Sulawesi	-	-	6	-	-	-	-	166	-	6	1	-	179	1	5	185	
- Gorontalo	-	-	2	-	-	-	-	11	-	1	-	1	15	5	-	20	
- Central Sulawesi	-	-	9	-	-	-	-	299	-	-	-	-	308	11	17	336	
UIW S, SE and W Sulawesi	-	-	-	-	-	-	-	215	-	9	-	-	224	13	2	239	
- South Sulawesi	-	-	-	-	-	-	-	82	-	6	-	-	88	12	1	101	
- Southeast Sulawesi	-	-	-	-	-	-	-	125	-	3	-	-	128	1	-	129	
- West Sulawesi	-	-	-	-	-	-	-	8	-	-	-	-	8	-	1	9	
UIW Maluku and North Maluku	-	-	-	2	-	-	-	685	12	13	-	-	712	1	32	745	
- Maluku	-	-	-	2	-	-	-	303	12	8	-	-	325	1	14	340	
- North Maluku	-	-	-	-	-	-	-	382	-	5	-	-	387	-	18	405	
UIW Papua and West Papua	17	-	-	2	-	-	-	520	24	60	-	-	623	7	39	669	
- Papua	11	-	-	-	-	-	-	249	5	33	-	-	298	-	18	316	
- West Papua	6	-	-	2	-	-	-	271	19	27	-	-	325	7	21	353	
UID Bali	-	-	-	-	-	-	-	5	-	3	-	-	8	6	-	14	
UIW West Nusa Tenggara	-	-	4	5	-	-	-	150	20	7	-	-	186	15	13	214	
UIW East Nusa Tenggara	4	-	10	4	-	-	5	459	12	31	1	-	526	10	18	554	
PT PLN Batam	-	-	-	-	2	1	-	23	3	-	-	-	29	14	-	43	
UIK Northern Part of Sumatera	7	-	13	18	10	6	-	58	44	-	-	-	156	4	10	170	
UIK Southern Part of Sumatera	15	8	2	14	16	4	2	16	11	-	-	-	88	1	6	95	
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	30	
UIKL Kalimantan	3	-	-	20	6	3	-	365	26	1	-	-	424	24	57	505	
UIKL Sulawesi	18	-	11	11	9	-	4	239	10	-	-	-	3-2	18	3	323	
Outside Java	67	8	69	80	43	14	11	5,152	162	141	5	1	5,753	275	245	6,273	
UID East Java	3	2	-	-	-	-	-	77	-	8	-	-	90	5	-	95	
UID Central Java and Yogyakarta	-	-	3	-	-	-	-	-	-	-	-	-	3	22	-	25	
- Central Java	-	-	2	-	-	-	-	-	-	-	-	-	2	21	-	23	
- D.I. Yogyakarta	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	2	
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	27	
UID Banten	-	-	-	-	-	-	-	5	-	-	-	-	5	4	-	9	
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	
PT Indonesia Power	59	2	-	10	13	24	7	18	12	-	-	-	145	-	-	145	
PT PJB	33	-	-	8	10	20	-	-	3	-	-	-	74	-	-	74	
PJB Sulawesi	-	-	-	-	-	-	-	6	-	-	-	-	6	-	-	6	
UIP2B	-	-	-	-	-	-	-	-	-	-	-	-	39	-	-	39	
UIK Tanjung Jati B	-	-	-	4	-	-	-	-	-	-	-	-	4	-	-	4	
UIK Western Part of Java	-	-	-	6	-	16	-	-	-	-	-	-	22	-	-	22	
UIK Central Part of Java	-	-	-	9	-	2	-	-	-	-	-	-	11	-	-	11	
UIK Eastern Part of Java, Bali and Nusra	-	-	-	5	-	3	-	-	-	-	-	-	8	-	-	8	
Java	95	4	3	42	23	65	7	106	15	9	-	-	369	97	-	466	
UIW Bangka Belitung	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	
UIW Western Part of Kalimantan	-	-	-	-	-	-	-	-	16	-	-	-	16	-	-	16	
UIP Western Part of Java	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	
UIP Southern Part of Sulawesi	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	
UIP Northern Part of Sulawesi	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	
UIP Sulawesi	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	
Generation Project	-	-	-	4	-	-	-	-	16	-	-	-	1	21	-	-	21
Indonesia	162	12	72	126	66	79	18	5,258	193	150	5	2	6,143	372	245	6,760	

*) Generation own by PLN, rented and IPP
Mini Hydro and Micro Hydro are excluded from Hydro in 2022

Table 21 : National Installed Capacity (MW)
2021

PLN Operational Unit/ Province	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Com- bined Cycle	Geo- thermal	Diesel	Gas Engine	Sun	Wind	Bio- mass	Total	Rented	IPP	Total	(%)
UIW Aceh	-	-	2.42	-	-	-	-	139.47	-	-	-	-	141.89	13.00	19.00	173.88	0.27
UIW North Sumatera	-	-	-	-	-	-	-	4.11	-	-	-	-	4.11	-	123.63	127.74	0.20
UIW West Sumatera	0.66	-	-	-	-	-	-	35.36	-	0.19	-	-	36.21	-	54.78	90.99	0.14
UIW Riau and Riau Archipelago	-	-	-	-	-	-	-	236.81	-	0.80	-	-	237.61	44.00	22.00	303.61	0.47
- Riau	-	-	-	-	-	-	-	119.83	-	-	-	-	119.83	38.50	21.00	179.33	0.28
- Riau Archipelago	-	-	-	-	-	-	-	116.99	-	0.80	-	-	117.79	5.50	1.00	124.29	0.19
UIW South Sumatera, Jambi and Bengkulu	-	-	1.60	-	-	-	-	58.35	-	-	-	-	59.95	19.00	160.75	239.70	0.37
- South Sumatera	-	-	-	-	-	-	-	6.01	-	-	-	-	6.01	-	111.05	117.06	0.18
- Jambi	-	-	-	-	-	-	-	16.56	-	-	-	-	16.56	8.00	25.70	50.26	0.08
- Bengkulu	-	-	1.60	-	-	-	-	35.78	-	-	-	-	37.38	11.00	24.00	72.38	0.11
UIW Bangka Belitung	-	-	-	93.00	-	-	-	133.60	-	0.33	-	-	226.93	35.00	93.00	354.93	0.55
UID Lampung	-	-	-	-	-	-	-	5.06	-	-	-	-	5.06	-	39.50	44.56	0.07
UIW West Kalimantan	-	-	2.02	-	-	-	-	71.46	-	0.18	-	-	73.67	12.50	25.24	111.41	0.17
UIW S & C Kalimantan	-	-	-	-	-	-	-	59.88	-	-	-	-	59.88	-	2.40	62.28	0.10
- South Kalimantan	-	-	-	-	-	-	-	16.28	-	-	-	-	16.28	-	2.40	18.68	0.03
- Central Kalimantan	-	-	-	-	-	-	-	43.60	-	-	-	-	43.60	-	-	43.60	0.07
UIW East and North Kalimantan	-	-	-	-	-	-	-	36.77	-	0.09	-	-	36.86	4.33	33.46	74.65	0.12
UIW N, C Sulawesi and Gorontalo	-	-	15.40	-	-	-	-	162.43	-	0.84	0.08	0.50	179.25	62.00	52.75	294.00	0.46
- North Sulawesi	-	-	5.25	-	-	-	-	48.31	-	0.80	0.08	-	54.44	10.00	3.00	67.44	0.10
- Gorontalo	-	-	1.20	-	-	-	-	3.53	-	0.04	-	0.50	5.28	-	17.00	22.27	0.03
- Central Sulawesi	-	-	8.95	-	-	-	-	110.59	-	-	-	-	119.54	52.00	32.75	204.29	0.32
UIW S, SE and W Sulawesi	-	-	-	-	-	-	-	36.40	-	1.21	-	-	37.60	-	67.00	104.61	0.16
- South Sulawesi	-	-	-	-	-	-	-	10.46	-	0.79	-	-	11.25	-	53.00	64.25	0.10
- Southeast Sulawesi	-	-	-	-	-	-	-	23.17	-	0.41	-	-	23.59	-	14.00	37.59	0.06
- West Sulawesi	-	-	-	-	-	-	-	2.77	-	-	-	-	2.77	-	-	2.77	-
UIW Maluku and North Maluku	-	-	-	14.00	-	-	-	269.17	136.02	2.41	-	-	421.60	67.02	60.00	548.62	0.85
- Maluku	-	-	-	14.00	-	-	-	166.12	136.02	1.10	-	-	317.24	39.00	60.00	416.24	0.64
- North Maluku	-	-	-	-	-	-	-	103.05	-	1.31	-	-	104.36	28.02	-	132.38	0.20
UIW Papua and West Papua	29.83	-	-	24.00	-	-	-	239.66	292.05	5.71	-	-	591.25	115.69	86.10	793.04	1.23
- Papua	4.66	-	-	-	-	-	-	106.78	43.18	2.60	-	-	157.22	53.69	-	210.91	0.33
- West Papua	25.17	-	-	24.00	-	-	-	132.88	248.87	3.11	-	-	434.03	62.00	86.10	582.13	0.90
UID Bali	-	-	-	-	-	-	-	1.02	-	-	0.30	-	1.32	-	3.00	4.32	0.01
UIW West Nusa Tenggara	-	-	2.02	107.00	-	-	-	144.03	244.62	0.83	-	-	498.50	56.00	135.75	690.25	1.07
UIW East Nusa Tenggara	2.32	-	2.96	47.00	-	-	12.50	168.07	119.44	7.07	0.09	-	359.46	104.50	41.03	504.99	0.78
PT PLN Batam	-	-	-	-	93.40	41.89	-	110.43	26.25	-	-	-	271.97	-	400.60	672.57	1.04
UIK Northern Part of Sumatera	246.00	-	7.50	1,798.00	302.46	817.88	-	177.57	571.46	-	-	-	3,920.87	255.00	467.50	4,643.37	7.19
UIK Southern Part of Sumatera	574.60	32.50	1.32	1,109.00	352.87	160.00	110.00	111.36	104.72	-	-	-	2,556.36	230.16	100.00	2,886.52	4.47
UIP2B Sumatera	-	-	-	-	-	-	-	-	-	-	-	-	-	3,159.00	3,159.00	3,159.00	4.89
UIKL Kalimantan	30.00	-	-	777.50	255.55	60.00	-	655.92	238.56	0.34	-	-	2,017.87	167.78	1,418.15	3,603.80	5.58
UIKL Sulawesi	201.79	-	9.72	452.50	222.72	-	80.00	397.56	97.80	-	-	-	1,462.09	180.00	1,566.00	3,208.09	4.97
Outside Java	1,085.20	32.50	44.97	4,422.00	1,226.99	1,079.77	202.50	3,254.51	1,830.92	19.99	0.47	0.50	13,200.33	1,365.97	8,130.64	22,696.94	35.16
UID East Java	16.50	1.85	-	-	-	-	-	33.47	-	0.95	-	-	52.77	-	16.30	69.07	0.11
UID Central Java and Yogyakarta	-	-	0.66	-	-	-	-	-	-	-	-	-	0.66	-	33.83	34.48	0.05
- Central Java	-	-	0.47	-	-	-	-	-	-	-	-	-	0.47	-	33.23	33.70	0.05
- D.I. Yogyakarta	-	-	0.18	-	-	-	-	-	-	-	-	-	0.18	-	0.60	0.78	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141.13	141.13	0.22
UID Banten	-	-	-	-	-	-	-	0.98	-	-	-	-	0.98	-	15.60	16.58	0.03
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	0.40	-	-	0.40	-	-	0.40	-
PT Indonesia Power	1,119.52	3.33	-	3,700.00	520.88	3,172.98	376.76	175.61	199.66	-	-	-	9,268.73	-	-	9,268.73	14.36
PT PJB	1,283.20	-	-	1,800.00	1,188.20	2,747.36	-	-	3.19	-	-	-	7,021.95	-	-	7,021.95	10.88
PJB Sulawesi	-	-	-	-	-	-	-	68.04	-	-	-	-	68.04	-	-	68.04	0.11
UIP2B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,384.82	10,384.82	16.09
UIK Tanjung Jati B	-	-	-	2,840.00	-	-	-	-	-	-	-	-	2,840.00	-	-	2,840.00	4.40
UIK Western Part of Java	-	-	-	2,170.00	-	3,664.89	-	-	-	-	-	-	5,834.89	-	-	5,834.89	9.04
UIK Central Part of Java	-	-	-	3,330.00	-	242.00	-	-	-	-	-	-	3,572.00	-	-	3,572.00	5.53
UIK Eastern Part of Java, Bali and Nusra	-	-	-	1,990.00	-	501.00	-	-	-	-	-	-	2,491.00	-	-	2,491.00	3.86
Java	2,419.22	5.18	0.66	15,830.00	1,709.08	10,328.23	376.76	278.10	202.85	1.35	-	-	31,151.42	-	10,591.68	41,743.10	64.66
UIW Papua and West Papua	-	-	-	3.00.00	-	-	-	-	-	-	-	-	3.00	-	-	3.00	-
UIP Western Part of Kalimantan	-	-	-	100.00	-	-	-	-	-	-	-	-	100.00	-	-	100.00	0.15
UIP Southern Part of Sulawesi	-	-	-	10.00	-	-	-	-	-	-	-	-	10.00	-	-	10.00	0.02
Generation Project*)	-	-	-	113.00	-	-	-	-	-	-	-	-	113.00	-	-	113.00	0.17
Indonesia	3,504.42	37.68	45.62	20,365.00	2,936.07	11,408.00	579.26	3,532.61	2,033.77	21.34	0.47	0.50	44,464.75	1,365.97	18,722.32	64,553.04	100.00
%	5.43	0.06	0.07	31.55	4.55	17.67	0.90	5.47	3.15	0.03	-	-	68.88	2.12	29.00	100.00	100.00

*) Including Projects in Commissioning Stage

Mini Hydro and Micro Hydro are excluded from Hydro in 2022

Annual Data 2021

Table 22 : Rated Capacity (MW)

PLN Operational Unit/ Province	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Combined Cycle	Geothermal
UIW Aceh	-	-	1.95	-	-	-	-
UIW North Sumatera	-	-	-	-	-	-	-
UIW West Sumatera	0.59	-	-	-	-	-	-
UIW Riau and Riau Archipelago	-	-	-	-	-	-	-
- Riau	-	-	-	-	-	-	-
- Riau Archipelago	-	-	-	-	-	-	-
UIW South Sumatera, Jambi and Bengkulu	-	-	0.40	-	-	-	-
- South Sumatera	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-
- Bengkulu	-	-	0.40	-	-	-	-
UIW Bangka Belitung	-	-	-	78.00	-	-	-
UID Lampung	-	-	-	-	-	-	-
UIW West Kalimantan	-	-	1.64	-	-	-	-
UIW S and C Kalimantan	-	-	-	-	-	-	-
- South Kalimantan	-	-	-	-	-	-	-
- Central Kalimantan	-	-	-	-	-	-	-
UIW East and North Kalimantan	-	-	-	-	-	-	-
UIW N, C Sulawesi and Gorontalo	-	-	13.83	-	-	-	-
- North Sulawesi	-	-	5.25	-	-	-	-
- Gorontalo	-	-	1.05	-	-	-	-
- Central Sulawesi	-	-	7.53	-	-	-	-
UIW S, SE and W Sulawesi	-	-	-	-	-	-	-
- South Sulawesi	-	-	-	-	-	-	-
- Southeast Sulawesi	-	-	-	-	-	-	-
- West Sulawesi	-	-	-	-	-	-	-
UIW Maluku & North Maluku	-	-	-	12.60	-	-	-
- Maluku	-	-	-	12.60	-	-	-
- North Maluku	-	-	-	-	-	-	-
UIW Papua and West Papua	26.00	-	-	20.00	-	-	-
- Papua	3.86	-	-	-	-	-	-
- West Papua	22.14	-	-	20.00	-	-	-
UID Bali	-	-	-	-	-	-	-
UIK West Nusa Tenggara	-	-	1.98	85.10	-	-	-
UIK East Nusa Tenggara	1.75	-	2.08	42.00	-	-	9.05
PT PLN Batam	-	-	-	-	88.00	37.54	-
UIK Northern Part of Sumatra	236.82	-	6.79	1,288.00	172.71	619.00	-
UIK Southern Part of Sumatra	569.16	31.91	1.08	885.00	298.84	126.50	103.84
UIP3B Sumatera	-	-	-	-	-	-	-
UIKL Kalimantan	28.50	-	-	620.10	229.00	45.60	-
UIKL Sulawesi	199.31	-	3.54	402.70	148.00	-	74.80
Outside Java	1,062.13	31.91	33.29	3,433.50	936.55	828.64	187.69
UID East Java	16.50	1.85	-	-	-	-	-
UID Central Java and Yogyakarta	-	-	0.32	-	-	-	-
- Central Java	-	-	0.32	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-
PT Indonesia Power	1,113.75	3.10	-	3,321.60	322.04	2,826.09	356.60
PT PJB	1,252.82	-	-	1,557.00	1,145.00	2,429.00	-
PJB Sulawesi	-	-	-	-	-	-	-
UIP2B	-	-	-	-	-	-	-
UIK Tanjung Jati B	-	-	-	2,643.80	-	-	-
UIK Western Part of Java	-	-	-	1,940.00	-	3,415.30	-
UIK Central Part of Java	-	-	-	3,014.00	-	214.00	-
UIK Eastern Part of Java, Bali and Nusra	-	-	-	1,821.00	-	455.00	-
Java	2,383.07	4.95	0.32	14,297.40	1,467.04	9,339.39	356.60
UIP Southern Part of Sulawesi	-	-	-	10.00	-	-	-
UIP Northern Part of Sulawesi	-	-	-	3.00	-	-	-
Generation Project	-	-	-	13.00	-	-	-
Indonesia	3,445.21	36.86	33.61	17,743.90	2,403.59	10,168.02	544.29
%	5.97	0.06	0.06	30.76	4.17	17.63	0.94

Mini Hydro and Micro Hydro are excluded from Hydro in 2022

Diesel	Gas Engine	Sun	Wind	Biomass	Total	Rented	%	Total	(%)
100.45	-	-	-	-	102.40	13.00	19.00	134.39	0.23
2.52	-	-	-	-	2.52	-	53.13	55.65	0.10
15.44	-	-	-	-	16.03	-	45.70	61.73	0.11
162.80	-	0.70	-	-	163.50	43.55	22.00	229.05	0.40
73.43	-	-	-	-	73.43	38.50	21.00	132.93	0.23
89.37	-	0.70	-	-	90.07	5.05	1.00	96.12	0.17
8.32	-	-	-	-	8.72	19.00	159.95	187.67	0.33
-	-	-	-	-	-	-	111.05	111.05	0.19
-	-	-	-	-	-	8.00	25.70	33.70	0.06
8.32	-	-	-	-	8.72	11.00	23.20	42.92	0.07
123.03	-	0.33	-	-	201.36	35.00	93.00	329.36	0.57
1.32	-	-	-	-	1.32	-	36.50	37.82	0.07
45.30	-	0.10	-	-	47.04	11.07	24.49	82.61	0.14
44.52	-	-	-	-	44.52	-	2.40	46.92	0.08
12.08	-	-	-	-	12.08	-	2.40	14.48	0.03
32.44	-	-	-	-	32.44	-	-	32.44	0.06
16.21	-	0.05	-	-	16.26	1.57	30.35	48.19	0.08
85.92	-	0.40	-	-	100.14	52.98	47.01	200.14	0.35
23.07	-	0.38	-	-	28.70	9.06	3.00	40.76	0.07
1.20	-	0.02	-	-	2.27	-	16.60	18.87	0.03
61.65	-	-	-	-	69.18	43.92	27.41	140.51	0.24
19.45	-	0.85	-	-	20.30	-	67.00	87.30	0.15
6.58	-	0.52	-	-	7.10	-	53.00	60.10	0.10
11.61	-	0.33	-	-	11.94	-	14.00	25.94	0.04
1.26	-	-	-	-	1.26	-	-	1.26	-
113.50	118.89	1.65	-	-	246.64	67.57	60	374.21	0.65
61.01	118.89	0.73	-	-	193.24	39.10	60	292.34	0.51
52.48	-	0.92	-	-	53.40	28.47	-	81.87	0.14
198.97	264.16	4.40	-	-	513.53	76.71	73.25	663.49	1.15
87.33	40.20	2.60	-	-	133.99	33.69	-	167.68	0.29
111.64	223.96	1.80	-	-	379.54	43.02	73.25	495.81	0.86
0.18	-	-	-	-	0.18	-	3.43	3.61	0.01
71.45	240.76	0.82	-	-	400.11	51.00	135.75	586.86	1.02
60.02	102.66	4.61	-	-	222.17	104.50	37.80	364.48	0.63
44.59	22.50	-	-	-	192.63	-	369.60	562.23	0.97
111.08	529.53	-	-	-	2,963.93	208.00	467.50	3,639.43	6.31
45.88	93.50	-	-	-	2,155.71	230.16	100	2,485.87	4.31
-	-	-	-	-	-	-	2,856.10	2,856.10	4.95
315.11	210.54	0.05	-	-	1,448.89	88.27	1,418.15	2,955.32	5.12
225.56	97.80	-	-	-	1,151.71	180	1,566.00	2,897.72	5.02
1,811.61	1,680.34	13.96	-	-	10,019.62	1,182.39	7,688.11	18,890.12	32.75
19.58	-	0.95	-	-	38.88	-	13.30	52.18	0.09
-	-	-	-	-	0.32	-	33.33	33.65	0.06
-	-	-	-	-	0.32	-	32.73	33.05	0.06
-	-	-	-	-	-	-	0.60	0.60	-
-	-	-	-	-	-	-	56.60	56.60	0.10
0.66	-	-	-	-	0.66	-	15.60	16.26	0.03
-	-	-	-	-	-	-	-	-	-
163.73	182.40	-	-	-	8,289.31	-	-	8,289.31	14.37
-	3.00	-	-	-	6,386.82	-	-	6,386.82	11.07
62.20	-	-	-	-	62.20	-	-	62.20	0.11
-	-	-	-	-	-	-	10,376.03	10,376.03	17.99
-	-	-	-	-	2,643.80	-	-	2,643.80	4.58
-	-	-	-	-	5,355.30	-	-	5,355.30	9.28
-	-	-	-	-	3,228.00	-	-	3,228.00	5.60
-	-	-	-	-	2,276.00	-	-	2,276.00	3.95
246.17	185.40	0.95	-	-	28,281.28	-	10,494.86	38,776.14	67.23
-	-	-	-	-	10.00	-	-	10.00	0.02
-	-	-	-	-	3.00	-	-	3.00	0.01
-	-	-	-	-	13.00	-	-	13.00	0.02
2,057.78	1,865.74	14.91	-	-	38,313.90	1,182.39	18,182.97	57,679.27	100.00
3.57	3.23	0.03	-	-	66.43	2.05	31.52	100.00	100.00

Annual Data 2021

Table 23 : Energy Production by Type of Power Plant (GWh)

PLN Operational Unit/ Province	Own Generated									
	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Combined Cycle	Geother- mal	Diesel	Gas Engine	Sun
UIW Aceh	-	-	6,44	-	-	-	-	-	136,39	-
UIW North Sumatera	-	-	-	-	-	-	-	-	5,00	-
UIW West Sumatera	-	-	-	-	-	-	-	-	20,63	-
UIW Riau and Riau Archipelago	-	-	-	-	-	-	-	-	489,38	-
- Riau	-	-	-	-	-	-	-	-	207,41	-
- Riau Archipelago	-	-	-	-	-	-	-	-	281,97	-
UIW South Sumatera, Jambi and Bengkulu	-	-	0.32	-	-	-	-	-	12,42	-
- South Sumatera	-	-	-	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-	-	-	-
- Bengkulu	-	-	0.32	-	-	-	-	-	12,42	-
UIW Bangka Belitung	-	-	-	575,91	-	-	-	-	308,84	-
UID Lampung	-	-	-	-	-	-	-	-	1,45	-
UIW West Kalimantan	-	-	1.67	-	-	-	-	-	101,44	-
UIW S and C Kalimantan	-	-	-	-	-	-	-	-	68,82	-
- South Kalimantan	-	-	-	-	-	-	-	-	17,28	-
- Central Kalimantan	-	-	-	-	-	-	-	-	51,54	-
UIW East Kalimantan and North	-	-	-	-	-	-	-	-	36,37	-
UIW N, C Sulawesi and Gorontalo	-	-	50,31	-	-	-	-	-	190,55	-
- North Sulawesi	-	-	19,03	-	-	-	-	-	59,82	-
- Gorontalo	-	-	4,51	-	-	-	-	-	-	0,04
- Central Sulawesi	-	-	26,76	-	-	-	-	-	130,73	-
UIW S, SE and W Sulawesi	-	-	-	-	-	-	-	-	33,73	-
- South Sulawesi	-	-	-	-	-	-	-	-	8,96	-
- Southeast Sulawesi	-	-	-	-	-	-	-	-	24,77	-
- West Sulawesi	-	-	-	-	-	-	-	-	-	-
UIW Maluku and North Maluku	-	-	-	79,50	-	-	-	-	172,68	334,86
- Maluku	-	-	-	79,50	-	-	-	-	75,39	334,86
- North Maluku	-	-	-	-	-	-	-	-	97,28	-
UIW Papua and West Papua	66,21	-	-	30,99	-	-	-	-	123,67	1,217,93
- Papua	7,84	-	-	-	-	-	-	-	74,59	176,97
- West Papua	58,37	-	-	30,99	-	-	-	-	49,08	1,040,97
UID Bali	-	-	-	-	-	-	-	-	-	-
UIW West Nusa Tenggara	-	-	8,04	456,36	-	-	-	-	247,67	1,214,87
UIW East Nusa Tenggara	7,67	-	5,38	302,56	-	-	-	56,44	66,00	310,03
PT PLN Batam	-	-	-	-	571,83	252,22	-	-	8,80	107,63
UIK Northern Part of Sumatera	989,03	-	43,94	7,129,20	67,75	893,98	-	-	45,19	2,285,22
UIK Southern Part of Sumatera	2,752,92	165,99	0,80	6,157,35	620,34	506,68	803,50	13,63	437,76	-
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-
UIKL Kalimantan	189,97	-	-	3,804,93	278,98	86,16	-	-	567,89	998,87
UIKL Sulawesi	1,260,61	-	7,98	2,419,45	119,68	-	468,26	296,01	167,92	-
Outside Java	5,266,41	165,99	124,89	20,956,24	1,658,58	1,739,05	1,328,20	2,946,55	7,075,10	5,12
UID East Java	58,86	7,85	-	-	-	-	-	-	67,63	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	-	-	-	1,11	-
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	3,653,09	1,86	-	24,058,36	48,92	7,628,99	2,888,51	77,27	873,80	-
PT PJB	2,590,34	-	-	6,840,95	1,068,16	10,108,45	-	-	20,88	-
PJB Sulawesi	-	-	-	-	-	-	-	-	12,15	-
UIP2B	-	-	-	-	-	-	-	-	-	-
UIK Tanjung Jati B	-	-	-	20,063,65	-	-	-	-	-	-
UIK Western Part of Java	-	-	-	11,878,88	-	13,083,60	-	-	-	-
UIK Central Part of Java	-	-	-	18,815,30	-	423,44	-	-	-	-
UIK Eastern Part of Java, Bali and Nursa	-	-	-	11,905,12	-	41,59	-	-	-	-
Java	6,302,30	9,71	-	93,562,25	1,117,08	31,286,07	2,888,51	158,17	894,68	0,52
UIP Generation of Sumatera	-	-	-	-	-	-	-	-	-	-
UIP Western Part of Kalimantan	-	-	-	-	-	-	-	-	-	-
UIP Central Part of Kalimantan	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Kalimantan	-	-	-	-	-	-	-	-	-	-
UIP Western Part of Java	-	-	-	-	-	-	-	-	-	-
UIP Central Part of Java I	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Java and Bali II	-	-	-	-	-	-	-	-	-	-
UIP Southern Part of Sulawesi	-	-	-	-	-	-	-	-	-	-
UIP Northern Part of Sulawesi	-	-	-	-	-	-	-	-	-	-
UIP Sulawesi	-	-	-	-	-	-	-	-	-	-
UIP Nusa Tenggara	-	-	-	-	-	-	-	-	-	-
Generation Projects	-	-	-	-	-	-	-	-	-	-
Indonesia	11,568,71	175,70	124,89	114,518,49	2,775,66	33,025,12	4,216,71	3,104,72	7,969,77	5,63
%	4.00	0.06	0.04	39.56	0.96	11.41	1.46	1.07	2.75	-

Mini Hydro and Micro Hydro are excluded from Hydro in 2022

Rented Generated									Sub Total	Purchased and Project	Total	%	
Wind	Biomass	Diesel	Gas Engine	Gas Turbine	Combined Cycle	Steam	Hydro	Sun					
-	-	25,48	9,28	-	-	-	-	-	177,59	114,30	291,89	0,10	
-	-	-	-	-	-	-	-	-	5,00	691,83	696,83	0,24	
-	-	-	-	-	-	-	-	-	20,63	237,26	257,89	0,09	
-	-	109,51	153,13	-	-	-	-	-	752,15	13,72	765,87	0,26	
-	-	79,29	153,13	-	-	-	-	-	439,83	6,08	445,91	0,15	
-	-	30,22	-	-	-	-	-	-	312,33	7,64	319,96	0,11	
-	-	82,82	40,92	-	-	-	-	-	136,48	815,28	951,76	0,33	
-	-	-	-	-	-	-	-	-	564,63	564,63	564,63	0,20	
-	-	-	40,92	-	-	-	-	-	40,92	113,84	154,75	0,05	
-	-	82,82	-	-	-	-	-	-	95,56	136,82	232,38	0,08	
-	-	246,62	-	-	-	-	-	-	1,131,42	366,67	1,498,09	0,52	
-	-	-	-	-	-	-	-	-	1,45	24,38	25,83	0,01	
-	-	68,45	-	-	-	-	-	-	171,56	19,22	190,79	0,07	
-	-	-	-	-	-	-	-	-	68,82	7,68	76,49	0,03	
-	-	-	-	-	-	-	-	-	17,28	7,68	24,95	0,01	
-	-	-	-	-	-	-	-	-	51,54	-	51,54	0,02	
-	-	4,21	-	-	-	-	-	-	40,61	166,56	207,16	0,07	
-	-	322,77	-	-	-	-	-	-	563,70	232,51	796,21	0,28	
-	-	48,26	-	-	-	-	-	-	127,13	21,34	148,48	0,05	
-	-	-	-	-	-	-	-	-	4,56	36,63	41,19	0,01	
-	-	274,51	-	-	-	-	-	-	432,01	174,54	606,55	0,21	
-	-	-	-	-	-	-	-	-	34,00	340,84	374,84	0,13	
-	-	-	-	-	-	-	-	-	9,16	257,12	266,28	0,09	
-	-	-	-	-	-	-	-	-	24,84	83,72	108,56	0,04	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	414,22	-	-	-	-	-	-	1,001,30	345,63	1,346,93	0,47	
-	-	213,96	-	-	-	-	-	-	703,72	345,63	1,049,34	0,36	
-	-	200,26	-	-	-	-	-	-	297,59	-	297,59	0,10	
-	-	438,23	-	-	-	-	-	-	1,878,25	159,70	2,037,95	0,70	
-	-	229,74	-	-	-	-	-	-	489,99	-	489,99	0,17	
-	-	208,48	-	-	-	-	-	-	1,388,27	159,70	1,547,96	0,53	
-	-	-	-	-	-	-	-	-	7,66	-	7,66	-	
-	-	221,26	-	-	-	-	-	-	2,148,95	337,21	2,486,15	0,86	
-	-	435,39	-	-	-	-	-	-	1,185,90	125,65	1,311,55	0,45	
-	-	-	-	-	-	-	-	-	940,48	2,274,29	3,214,77	1,11	
-	-	17,73	994,45	21,03	-	75,96	-	-	12,563,47	1,315,99	13,879,46	4,79	
-	-	-	93,78	-	-	-	-	-	11,552,75	391,32	11,944,08	4,13	
-	-	263,57	241,73	-	-	-	-	-	0,03	6,432,25	6,541,05	12,973,30	4,48
-	-	278,85	-	-	586,56	342,53	-	-	5,947,85	6,444,90	12,392,75	4,28	
-	-	2,929,11	1,533,27	21,03	586,56	418,49	-	0,03	46,754,61	37,973,28	84,727,89	29,27	
-	-	-	-	-	-	-	-	-	134,86	38,81	173,66	0,06	
-	-	-	-	-	-	-	-	-	-	143,74	143,74	0,05	
-	-	-	-	-	-	-	-	-	-	140,42	140,42	0,05	
-	-	-	-	-	-	-	-	-	-	3,32	3,32	-	
-	-	-	-	-	-	-	-	-	-	463,22	463,22	0,16	
-	-	-	-	-	-	-	-	-	1,11	70,16	71,27	0,02	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	39,230,81	-	39,230,81	13,55	
-	-	-	-	-	-	-	-	-	20,628,77	-	20,628,77	7,13	
-	-	-	-	-	-	-	-	-	12,15	-	12,15	-	
-	-	-	-	-	-	-	-	-	-	67,596,77	67,596,77	23,35	
-	-	-	-	-	-	-	-	-	-	-	20,063,65	6,93	
-	-	-	-	-	-	-	-	-	-	-	24,962,48	8,62	
-	-	-	-	-	-	-	-	-	-	-	19,238,73	6,65	
-	-	-	-	-	-	-	-	-	-	-	11,946,71	4,13	
-	-	-	-	-	-	-	-	-	136,219,27	68,312,70	204,531,97	70,66	
-	-	-	-	-	-	-	-	-	-	1,76	1,76	-	
-	-	-	-	-	-	-	-	-	-	4,47	4,47	-	
-	-	-	-	-	-	-	-	-	-	144,63	144,63	0,05	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	4,55	4,55	-	
-	-	-	-	-	-	-	-	-	-	55,30	55,30	0,02	
-	-	-	-	-	-	-	-	-	-	210,71	210,71	0,07	
-	-	2,929,11	1,533,27	21,03	586,56	418,49	-	0,03	182,973,88	106,496,69	289,470,57	100,00	
-	-	1,01	0,53	0,01	0,20	0,14	-	-	63,21	36,79	100,00	-	

Annual Data 2021

Table 24 : Consumption of Fuel

2021

PLN Operational Unit/ Province	Oil (kilo litre)									Coal (ton)	Natural Gas (MMSCF)	Biomass
	HSD	IDO	MFO	Bio Diesel	Olein	Bio HSD	HFO	Bio Fame	CPO	Total		
UIW Aceh	-	-	-	-	-	32,751.84	-	14,361.73	-	47,113.57	-	99.88
UIW North Sumatera	-	-	-	-	-	1,552.37	-	388.09	-	1,940.46	-	-
UIW West Sumatera	-	-	-	-	-	4,471.40	-	1,915.51	-	6,386.91	-	-
UIW Riau and Riau Archipelago	-	-	-	-	-	121,997.17	-	47,238.87	-	169,236.04	-	1,457.77
- Riau	-	-	-	-	-	57,563.69	-	22,288.28	-	79,851.97	-	1,457.77
- Riau Archipelago	-	-	-	-	-	64,433.48	-	24,950.58	-	89,384.07	-	-
UIW of South Sulawesi, Jambi and Bengkulu	-	-	-	-	-	18,016.10	-	7,721.19	-	25,737.29	-	418.47
- South Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-	-	-	-	418.47	-
- Bengkulu	-	-	-	-	-	18,016.10	-	7,721.19	-	25,737.29	-	-
UIW Bangka Belitung	100,519.15	-	-	-	-	107,328.77	-	45,998.04	-	253,845.97	579,679.58	-
UID Lampung	-	-	-	-	-	353.27	-	144.92	-	498.19	-	-
UIW West Kalimantan	-	-	-	-	-	35,954.49	-	14,994.80	-	50,949.28	-	-
UIW South and Central Kalimantan	-	-	-	-	-	16,360.68	-	6,231.03	-	22,591.71	-	-
- South Kalimantan	-	-	-	-	-	4,516.33	-	1,154.88	-	5,671.21	-	-
- Central Kalimantan	-	-	-	-	-	11,844.35	-	5,076.15	-	16,920.50	-	-
UIW East and North Kalimantan	-	-	-	-	-	9,011.48	-	3,822.98	-	12,834.46	-	8.50
UIW N, C Sulawesi and Gorontalo	-	-	-	-	-	103,906.15	-	44,531.21	-	148,437.36	-	-
- North Sulawesi	-	-	-	-	-	22,261.06	-	9,540.45	-	31,801.51	-	-
- Gorontalo	-	-	-	-	-	0.45	-	0.19	-	0.54	-	-
- Central Sulawesi	-	-	-	-	-	81,644.65	-	34,990.56	-	116,635.21	-	-
UIW S, SE and W Sulawesi	-	-	-	-	-	7,006.84	-	3,002.93	-	10,009.78	-	-
- South Sulawesi	-	-	-	-	-	1,928.45	-	826.48	-	2,754.93	-	-
- Southeast Sulawesi	-	-	-	-	-	5,078.39	-	2,176.45	-	7,254.84	-	-
- West Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-
UIW Maluku and North Maluku	25,832.09	-	-	-	-	155,453.59	72,927.42	66,609.26	1.00	320,823.36	94,724.60	-
- Maluku	25,832.09	-	-	-	-	96,207.27	72,927.42	41,217.98	-	236,184.76	94,724.60	-
- North Maluku	-	-	-	-	-	59,246.32	-	25,391.28	1.00	84,638.60	-	-
UIW Papua and West Papua	60,254.22	-	-	-	-	238,895.63	-	101,156.04	-	400,305.89	42,960.37	1,945.35
- Papua	20,709.27	-	-	-	-	76,031.14	-	31,732.64	-	128,473.05	-	-
- West Papua	39,544.95	-	-	-	-	162,864.49	-	69,423.40	-	271,832.84	42,960.37	1,945.35
UID Bali	-	-	-	-	-	0.03	-	0.01	-	0.03	-	-
UIW West Nusa Tenggara	23,471.40	-	92,048.91	-	-	222,171.50	-	95,212.24	-	432,904.05	399,574.59	-
UIW East Nusa Tenggara	-	-	-	-	-	119,548.17	47,095.62	45,576.50	-	212,220.29	356,515.76	-
PT PLN Batam	1.01	-	1,685.78	-	-	730.13	-	-	-	2,416.92	548,122.01	21,327.86
UIK Northern Part of Sumatera	103,673.06	-	-	-	-	49,156.00	-	21,066.86	-	173,895.91	5,805,872.11	39,864.88
UIK Southern Part of Sumatera	8,328.64	329.22	-	-	-	7,266.22	-	2,660.22	-	18,584.30	4,189,207.17	20,718.67
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-	-	11,184.80
UIKL Kalimantan	10,548.35	-	2,106.51	-	-	164,891.85	-	69,369.55	-	246,916.25	3,220,414.26	15,521.52
UIKL Sulawesi	40,471.49	-	-	-	-	86,526.77	-	37,075.81	-	164,074.07	2,360,912.12	6,994.35
Outside Java	373,099.41	329.22	95,841.20	-	-	1,503,350.44	120,023.05	629,077.78	1.00	2,721,722.10	17,597,982.57	119,542.05
UID East Java	-	-	-	-	-	12,975.52	-	5,560.94	-	18,536.46	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	219.27	-	93.97	-	313.24	-	-
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	115,517.17	-	15,863.93	-	-	5,379.10	-	2,300.22	-	139,060.43	12,997,827.43	73,140.48
PT PJB	129,195.97	-	57,020.22	-	-	1,035.87	-	443.94	-	187,696.00	3,241,527.79	106,499.80
PJB Sulawesi	-	-	2,587.58	-	-	63.49	-	27.21	-	2,678.28	-	-
UIP2B	-	-	-	-	-	-	-	-	-	-	-	-
UIK Tanjung Jati B	-	-	-	-	-	2,443.16	-	1,047.07	-	3,490.23	8,089,944.59	-
UIK Western Part of Java	-	-	-	-	-	5,397.73	-	2,313.31	-	7,711.05	7,778,530.38	94,727.63
UIK Central Part of Java	-	-	-	-	-	3,812.66	-	1,634.00	-	5,446.66	11,445,908.42	3,316.98
UIK Eastern Part of Java, Bali and Nusra	-	-	-	-	-	1,689.00	-	723.86	-	2,412.85	7,264,202.94	516.77
Java	244,713.15	-	75,471.73	-	-	33,015.81	-	14,144.52	-	367,345.20	50,817,941.56	278,201.65
UIP Generation of Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIP Western Part of Kalimantan	102.97	-	-	-	-	-	-	-	-	102.97	-	21.14
UIP Central Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	7.84	-
UIP Western Part of Java	-	-	-	-	-	1,171.43	-	502.04	-	1,673.46	-	-
UIP Central Part of Java I	-	-	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Java and Bali II	-	-	-	-	-	-	-	-	-	-	-	-
UIP Southern Part of Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-
UIP Northern Part of Sulawesi	0.04	-	-	-	-	-	-	-	-	0.04	10,726.70	-
UIP Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-
UIP Nusa Tenggara	-	-	-	-	-	-	-	-	-	-	47,609.02	-
Generation Project	103.00	-	-	-	-	1,171.43	-	502.04	-	1,776.47	58,343.56	21.14
Indonesia	617,915.55	329.22	171,312.93	-	-	1,537,537.68	120,023.05	643,724.34	1.00	3,090,843.77	68,474,267.69	397,764.84
Note: Consumption of Fuel from Generation own by PLN, rented, and IPP												

Table 25 : Unit Price of Fuel**2021**

PLN Operational Unit/Province	Oil (Rp/litre)*)				Coal (Rp/kg)	Natural Gas (Rp/ MMSCF)	Geo- thermal (Rp/kWh)
	HSD *)	IDO	MFO	Average			
UIW Aceh	7,381.71	-	-	7,381.71	-	26,609.27	-
UIW North Sumatera	8,057.15	-	-	8,057.15	-	-	-
UIW West Sumatera	8,493.95	-	-	8,493.95	-	-	-
UIW Riau and Riau Archipelago	7,522.26	-	-	7,522.26	-	61,015.98	-
UIW South Sumatera, Jambi and Bengkulu	7,823.92	-	-	7,823.92	-	91,767.83	-
UIW Bangka Belitung	7,755.92	-	-	7,755.92	622.01	-	-
UID Lampung	9,517.88	-	-	9,517.88	-	-	-
UIW West Kalimantan	8,202.17	-	-	8,202.17	-	-	-
UIW South and Central Kalimantan	7,714.82	-	-	7,714.82	-	-	-
UIW East and North Kalimantan	10,224.62	-	-	10,224.62	-	124,743.31	-
UIW North, Central Sulawesi, and Gorontalo	7,837.78	-	-	7,837.78	-	-	-
UIW South, East and West Sulawesi	8,084.03	-	-	8,084.02	-	-	-
UIW Maluku and North Maluku	7,689.20	-	-	7,689.20	757.19	-	-
UIW Papua and West Papua	7,973.12	-	-	7,973.12	959.97	-	-
UID Bali	9,736.13	-	-	9,736.13	-	-	-
UIW West Nusa Tenggara	7,518.57	-	6,732.43	7,351.42	719.67	-	-
UIW East Nusa Tenggara	7,718.92	-	-	7,718.92	730.59	-	60.13
PT PLN Batam	9,601.00	-	6,244.37	7,259.78	795.18	74,538.68	-
PT PLN Tarakan	-	-	-	-	-	-	-
UIK Northern Part of Sulawesi	7,967.93	-	-	7,967.93	736.35	83,546.50	-
UIK Southern Part of Sulawesi	10,396.81	5,952.44	-	10,318.07	692.04	76,048.98	742.41
UIP3B Sumatera	-	-	-	-	-	-	-
UIKL Kalimantan	7,559.52	-	4,116.79	7,530.15	621.14	105,004.41	-
UIKL Sulawesi	7,738.77	-	-	7,738.77	562.38	-	887.11
Outside Java	7,768.11	5,952.44	6,666.36	7,729.09	679.61	69,070.68	764.43
UID East Java	8,410.11	-	-	8,410.11	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-
UID Banten	8,883.44	-	-	8,883.44	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-
PT Indonesia Power	8,460.14	-	7,587.05	8,360.53	819.78	96,521.93	862.85
PT PJB	9,060.43	-	7,254.17	8,511.71	743.41	96,981.93	-
UIK Tanjung Jati B	16,783.91	-	-	16,783.91	957.03	-	-
UIK Western Part of Java	-	-	-	-	-	-	-
UIK Central Part of Java	-	-	-	-	-	-	-
UIK Eastern Part of Java, Bali and Nusra	-	-	-	-	-	-	-
J a v a	9,136.65	-	7,075.43	8,713.17	793.63	96,290.04	862.85
I n d o n e s i a **)	7,206.85	5,952.44	6,846.57	7,841.61	763.65	88,104.56	831.85

*) BBM Unit price (HSD, IDO, MFO) including transportation costs and fuel mix cost (biodiesel, etc).

**) Including project fuel.

Annual Data 2021

Table 26 : Energy Production by Type of Fuel (GWh)

2021

PLN Operational Unit/Province	Oil (Kilo litre)									Coal	Natural Gas	Bio-mass	Total	
	HSD	IDO	MFO	Bio-diesel	Olein	Bio HSD	HFO	Bio Fame	CPO					
UIW Aceh	-	-	-	-	-	118.08	-	43.80	-	161.87	-	9.28	-	171.15
UIW North Sumatera	-	-	-	-	-	4.00	-	1.00	-	5.00	-	-	19.93	24.93
UIW West Sumatera	-	-	-	-	-	14.97	-	5.66	-	20.63	-	-	0.14	20.76
UIW Riau and Riau Archipelago	-	-	-	-	-	448.00	-	151.52	-	599.52	6.08	152.67	7.47	765.74
- Riau	-	-	-	-	-	214.82	-	72.51	-	287.33	6.08	152.50	-	445.91
- Riau Archipelago	-	-	-	-	-	233.18	-	79.01	-	312.20	-	0.17	7.47	319.83
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	69.40	-	25.84	-	95.24	191.68	438.26	37.21	762.40
- South Sumatera	-	-	-	-	-	-	-	-	-	-	148.19	341.09	9.35	498.64
- Jambi	-	-	-	-	-	-	-	-	-	-	43.49	97.17	14.09	154.75
- Bengkulu	-	-	-	-	-	69.40	-	25.84	-	95.24	-	-	13.77	109.01
UIW Bangka Belitung	314.72	-	-	-	-	387.77	-	166.19	-	868.67	575.91	-	53.45	1,498.04
UID Lampung	-	-	-	-	-	1.05	-	0.39	-	1.45	14.67	-	9.71	25.83
UIW West Kalimantan	-	-	-	-	-	121.30	-	48.59	-	169.89	-	-	9.31	179.20
UIW S and C Kalimantan	-	-	-	-	-	49.58	-	19.23	-	68.82	-	-	7.68	76.49
- South Kalimantan	-	-	-	-	-	12.57	-	4.70	-	17.28	-	-	7.68	24.95
- Central Kalimantan	-	-	-	-	-	37.01	-	14.53	-	51.54	-	-	51.54	-
UIW East and North Kalimantan	-	-	-	-	-	28.62	-	11.41	-	40.03	146.48	0.55	20.08	207.14
UIW N, C Sulawesi and Gorontalo	-	-	-	-	-	368.16	-	145.16	-	513.32	29.75	-	-	543.07
- North Sulawesi	-	-	-	-	-	77.51	-	30.56	-	108.07	-	-	-	108.07
- Gorontalo	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Central Sulawesi	-	-	-	-	-	290.65	-	114.60	-	405.25	29.75	-	-	435.00
UIW S, SE and W Sulawesi	-	-	-	-	-	24.58	-	9.15	-	33.73	83.72	-	-	117.45
- South Sulawesi	-	-	-	-	-	6.53	-	2.43	-	8.96	-	-	-	8.96
- Southeast Sulawesi	-	-	-	-	-	18.05	-	6.72	-	24.77	83.72	-	-	108.49
- West Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UIW Maluku and North Maluku	103.27	-	-	-	-	591.06	345.63	227.42	-	1,267.38	79.50	-	-	1,346.88
- Maluku	103.27	-	-	-	-	374.44	345.63	146.51	-	969.85	79.50	-	-	1,049.34
- North Maluku	-	-	-	-	-	216.63	-	80.91	-	297.54	-	-	-	297.54
UIW Papua and West Papua	238.19	-	-	-	-	960.91	-	369.15	-	1,568.25	98.28	281.75	20.56	1,968.84
- Papua	81.45	-	-	-	-	284.21	-	115.64	-	481.30	-	-	-	481.30
- West Papua	156.74	-	-	-	-	676.70	-	253.51	-	1,086.96	98.28	281.75	20.56	1,487.55
UID Bali	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UIW West Nusa Tenggara	59.11	-	374.09	-	-	947.01	-	362.71	-	1,742.91	639.55	-	1.60	2,384.06
UIW East Nusa Tenggara	-	-	-	-	-	474.23	223.20	156.46	-	853.89	368.31	-	0.13	1,222.33
PT PLN Batam	-	-	6.19	-	-	2.61	-	-	-	8.80	734.32	2,471.65	-	3,214.77
UIK Northern Part of Sumatera	311.66	-	-	-	-	154.92	-	66.24	-	532.83	7,193.75	5,112.83	7.08	12,846.49
UIK Southern Part of Sumatera	18.15	1.36	-	-	-	9.03	-	3.33	-	31.88	6,155.55	2,031.64	1.80	8,220.87
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-	7,381.65	2,529.36	-	9,911.01
UIKL Kalimantan	36.95	-	8.09	-	-	616.27	-	236.01	-	897.33	8,796.71	1,953.89	162.51	11,810.44
UIKL Sulawesi	119.68	-	-	-	-	324.77	-	139.16	-	583.61	6,119.27	1,794.63	4.17	8,501.69
Outside Java	1,201.74	1.36	388.37	-	-	5,716.33	568.83	2,188.41	-	10,065.05	38,615.19	16,776.51	362.84	65,819.58
UID East Java	-	-	-	-	-	47.34	-	20.29	-	67.63	-	-	27.15	94.78
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.01
- Central Java	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.01
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-	11.14	11.14
UID Banten	-	-	-	-	-	0.78	-	0.33	-	1.11	-	-	-	1.11
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	364.18	-	67.75	-	-	6.61	-	2.45	-	440.99	23,987.81	8,188.00	70.55	32,687.35
PT PJB	489.49	-	222.48	-	-	-	-	-	-	711.97	5,606.39	11,656.10	63.98	18,038.43
PJB Sulawesi	-	-	12.13	-	-	0.01	-	0.01	-	12.15	-	-	-	12.15
UIP2B	-	-	-	-	-	-	-	-	-	-	58,878.20	1,288.30	-	60,166.51
UIK Tanjung Jati B	-	-	-	-	-	-	-	-	-	-	20,063.65	-	-	20,063.65
UIK Western Part of Java	-	-	-	-	-	-	-	-	-	-	11,841.05	13,083.60	37.82	24,962.48
UIK Central Part of Java	-	-	-	-	-	-	-	-	-	-	18,776.56	423.44	38.73	19,238.73
UIK Eastern Part of Java, Bali, Nusra	-	-	-	-	-	-	-	-	-	-	11,859.33	41.59	45.79	11,946.71
Java	853.68	-	302.36	-	-	54.75	-	23.08	-	1,233.86	151,013.00	34,681.03	295.17	187,223.05
UIP Western Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	-	1.76	-	1.76
UIP Eastern Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	-	4.47	-	4.47
UIP Western Part of Java	-	-	-	-	-	-	-	-	-	-	-	144.63	-	144.63
UIP of Northern Part of Sulawesi	-	-	-	-	-	-	-	-	-	-	-	4.55	-	4.55
UIP Nusa Tenggara	-	-	-	-	-	6.50	-	2.42	-	8.92	46.38	-	-	55.30
Generation Project	-	-	-	-	-	6.50	-	2.42	-	8.92	55.40	146.39	-	210.71
Indonesia	2,055.42	1.36	690.73	-	-	5,777.58	568.83	2,213.91	-	11,307.83	189,683.58	51,603.93	658.01	253,253.35

Note: Energy Production from Generation own by PLN, rented, IPP and Project

Table 27 : Captive Power**2021**

PLN Operational Unit/Province	Number of Captive Power (CP)			Installed Capacity (kVA)			kVA PLN Connected with Reserve CP
	Pure CP	Reserve CP	Total	Pure CP	Reserve CP	Total	
UIW Aceh	3	-	3	16,300	-	16,300.00	-
UIW North Sumatera	-	256	256	-	-	-	168,231.60
UIW West Sumatera	19	-	19	38,192.00	-	38,192.00	-
UIW Riau and Riau Archipelago	133	3	136	518,470.50	29,411.76	547,882.26	19,565.00
- Riau	113	-	113	512,107.60	-	512,107.60	-
- Riau Archipelago	20	3	23	6,362.90	29,411.76	35,774.66	19,565.00
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	-	-
- South Sumatera	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-
- Bengkulu	-	-	-	-	-	-	-
UIW Bangka Belitung	5	-	5	3,425.00	-	3,425.00	-
UID Lampung	-	-	-	-	-	-	-
UIW West Kalimantan	9	235	244	11,746.00	186,723.00	198,469.00	186,723.00
UIW South and Central Kalimantan	-	1	1	-	197.00	197.00	197.00
- South Kalimantan	-	1	1	-	197.00	197.00	197.00
- Central Kalimantan	-	-	-	-	-	-	-
UIW East and North Kalimantan	5	-	5	3,172.00	-	3,172.00	-
UIW N, C Sulawesi and Gorontalo	28	-	28	20,728.00	-	20,728.00	-
- North Sulawesi	8	-	8	12,185.00	-	12,185.00	-
- Gorontalo	2	-	2	743.00	-	743.00	-
- Central Sulawesi	18	-	18	7,800.00	-	7,800.00	-
UIW S, SE and W Sulawesi	-	-	-	-	-	-	-
- South Sulawesi	-	-	-	-	-	-	-
- Southeast Sulawesi	-	-	-	-	-	-	-
- West Sulawesi	-	-	-	-	-	-	-
UIW Maluku and North Maluku	-	-	-	-	-	-	-
- Maluku	-	-	-	-	-	-	-
- North Maluku	-	-	-	-	-	-	-
UIW Papua and West Papua	-	4	4	-	1,150.00	1,150.00	1,376.00
- Papua	-	1	1	-	250.00	250.00	345.00
- West Papua	-	3	3	-	900.00	900.00	1,031.00
UID Bali	-	513	513	-	434,958.00	434,958.00	520,643.00
UIW West Nusa Tenggara	-	-	-	-	-	-	-
UIW East Nusa Tenggara	-	-	-	-	-	-	-
PT PLN Batam	1	14	15	18,000.00	133,517.00	151,517.00	62,145.90
UIK Northern Part of Sumatera	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	-	-	-	-	-
Outside Java	203	1,026	1,229	630,033.50	785,956.76	1,415,990.26	958,881.50
UID East Java	164	648	812	198,134.00	667,695.62	865,829.62	740,158.00
UID Central Java and Yogyakarta	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-
UID West Java	-	-	-	-	747,655.00	747,655.00	1,493,861.00
UID Banten	10	11	21	901,000.00	317,235.00	1,218,235.00	597,590.00
UID Jakarta Raya	-	5	5	-	10,305.00	10,305.00	26,976.47
PT Indonesia Power	-	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-	-
UIP2B	-	-	-	-	-	-	-
Java	174	664	838	1,099,134.00	1,742,890.62	2,842,024.62	2,858,585.47
Indonesia	377	1,690	2,067	1,729,167.50	2,528,847.38	4,258,014.88	3,817,466.97

CP Pure = Business/Government/Private that use own electric power as main resources in the production process

CP Reserve = Captive Power that become a customer of PLN

Annual Data 2021

Table 28 : Length of Transmission Lines (kmc)

2021

PLN Operational Unit/Province	Voltage					Total
	25 - 30 kV	70 kV	150 kV	275 kV	500 kV	
UIW Aceh	-	-	-	-	-	-
UIW North Sumatera	-	-	-	-	-	-
UIW West Sumatera	-	-	-	-	-	-
UIW Riau and Riau Archipelago	-	-	179.08	-	-	179.08
- Riau	-	-	-	-	-	-
- Riau Archipelago	-	-	179.08	-	-	179.08
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	-
- South Sumatera	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-
- Bengkulu	-	-	-	-	-	-
UIW Bangka Belitung	-	140.06	625.07	-	-	765.14
UID Lampung	-	-	-	-	-	-
UIW West Kalimantan	-	-	1,628.17	162.74	-	1,790.92
UIW South and Central Kalimantan	-	123.08	3,728.69	-	-	3,851.77
- South Kalimantan	-	123.08	1,825.51	-	-	1,948.59
- Central Kalimantan	-	-	1,903.18	-	-	1,903.18
UIW East and North Kalimantan	-	-	1,773.95	-	-	1,773.95
UIW N, C Sulawesi and Gorontalo	0.76	450.62	1,618.83	-	-	2,070.21
- North Sulawesi	0.76	306.82	851.45	-	-	1,159.02
- Gorontalo	-	-	337.31	-	-	337.31
- Central Sulawesi	-	143.80	430.08	-	-	573.88
UIW S, SE and W Sulawesi	3.40	145.30	5,440.20	3.41	-	5,592.32
- South Sulawesi	3.40	119.90	3,094.79	3.41	-	3,221.51
- Southeast Sulawesi	-	25.40	1,393.63	-	-	1,419.03
- West Sulawesi	-	-	951.77	-	-	951.77
UIW Maluku and North Maluku	-	50.58	71.83	-	-	122.40
- Maluku	-	50.58	40.83	-	-	91.40
- North Maluku	-	-	31.00	-	-	31.00
UIW Papua and West Papua	-	196.30	125.78	-	-	322.08
- Papua	-	196.30	43.34	-	-	239.64
- West Papua	-	-	82.44	-	-	82.44
UID Bali	-	-	-	-	-	-
UIW West Nusa Tenggara	-	313.19	837.03	-	-	1,150.22
UIW East Nusa Tenggara	-	932.19	657.72	-	-	1,589.91
PT PLN Batam	-	-	183.51	-	-	183.51
PT PLN Tarakan	-	-	-	-	-	-
UIP Northern Part of Sumatera	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-
UIP3B Sumatera	-	531.21	15,631.47	3,481.49	-	19,644.18
Outside Java	4.16	2,882.53	32,501.33	3,647.65	-	39,035.67
UID East Java	-	-	-	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-
UID Banten	-	-	-	-	-	-
UID Jakarta Raya	-	-	-	-	-	-
PT Indonesia Power	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-
UIT Western Part of Java	-	237.39	2,438.09	-	1,103.99	3,779.46
UIT Central Part of Java	40.64	1,491.04	8,064.07	-	3,997.60	13,593.35
UIT Eastern Part of Java and Bali	56.15	1,268.01	5,730.39	-	1,343.76	8,398.31
Java	96.79	2,996.44	16,232.54	-	6,445.35	25,771.12
Indonesia	100.95	5,878.97	48,733.87	3,647.65	6,445.35	64,806.79

Notes: Voltage of 25-30 kV not included in the distribution because it still maintained by the transmission and plant management

Table 29 : Length of Medium and Low Voltage Lines (kmc)**2021**

PLN Operational Unit/Province	Medium Voltage			Low Voltage
	6 - 7 kV	10 - 12 kV	15-20 kV	
UIW Aceh	-	-	13,805.93	16,471.01
UIW North Sumatera	-	-	30,169.55	31,985.27
UIW West Sumatera	-	-	11,241.34	18,281.93
UIW Riau and Riau Archipelago	-	-	17,668.60	28,538.93
- Riau	-	-	15,157.78	26,204.96
- Riau Archipelago	-	-	2,510.82	2,333.97
UIW South Sumatera, Jambi and Bengkulu	-	-	29,657.42	24,112.87
- South Sumatera	-	-	15,601.11	10,652.99
- Jambi	-	-	9,251.50	7,217.72
- Bengkulu	-	-	4,804.82	6,242.15
UIW Bangka Belitung	-	-	5,612.28	5,640.02
UID Lampung	-	-	14,733.93	18,072.02
UIW West Kalimantan	-	-	13,860.56	15,018.71
UIW South and Central Kalimantan	-	-	17,262.96	15,830.32
- South Kalimantan	-	-	9,399.57	10,743.96
- Central Kalimantan	-	-	7,863.38	5,086.36
UIW East and North Kalimantan	-	-	9,826.22	8,764.92
UIW N, C Sulawesi and Gorontalo	-	-	15,978.60	14,707.42
- North Sulawesi	-	-	5,665.83	6,088.31
- Gorontalo	-	-	2,499.23	1,958.94
- Central Sulawesi	-	-	7,813.54	6,660.17
UIW S, SE and W Sulawesi	-	-	26,726.53	27,079.14
- South Sulawesi	-	-	16,537.21	18,590.52
- Southeast Sulawesi	-	-	6,732.48	5,953.84
- West Sulawesi	-	-	3,456.84	2,534.77
UIW Maluku and North Maluku	-	-	7,943.28	4,604.69
- Maluku	-	-	4,451.55	2,372.87
- North Maluku	-	-	3,491.73	2,231.82
UIW Papua and West Papua	-	-	6,935.60	10,096.70
- Papua	-	-	4,683.60	8,032.48
- West Papua	-	-	2,252.00	2,064.22
UID Bali	-	-	8,691.60	14,716.02
UIW West Nusa Tenggara	-	-	6,819.87	7,697.47
UIW East Nusa Tenggara	-	-	9,206.98	9,296.87
PT PLN Batam	-	-	-	-
PT PLN Tarakan	-	-	-	-
UIP Northern Part of Sumatera	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-
UIP3B Sumatera	-	-	-	-
Outside Java	-	-	246,141.25	270,914.30
UID East Java	-	-	40,718.43	78,619.63
UID Central Java and Yogyakarta	-	-	54,523.14	55,832.98
- Central Java	-	-	48,710.79	49,711.31
- D.I. Yogyakarta	-	-	5,812.34	6,121.68
UID West Java	-	-	48,196.66	128,985.99
UID Banten	-	-	15,895.40	25,796.85
UID Jakarta Raya	-	-	18,332.64	38,166.80
PT Indonesia Power	-	-	-	-
PT PJB	-	-	-	-
UIT Western Part of Java	-	-	-	-
UIT Central Part of Java	-	-	-	-
UIT Eastern Part of Java and Bali	-	-	-	-
Java	-	-	177,666.25	327,402.25
Indonesia	-	-	423,807.51	598,316.55

Annual Data 2021

Table 30 : Number and Total Capacity of Substation Transformers

2021

PLN Operational Unit/Province	500 kV		275 kV		150 kV		70 kV		<30 kV		Total	
	Unit	MVA	Unit	MVA	Unit	MVA	Unit	MVA	Unit	MVA	Unit	MVA
UIW Aceh	-	-	-	-	-	-	-	-	-	-	-	-
UIW North Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIW West Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIW Riau and Riau Archipelago	-	-	-	-	10	350.00	-	-	-	-	10	350.00
- Riau	-	-	-	-	-	-	-	-	-	-	-	-
- Riau Archipelago	-	-	-	-	10	350.00	-	-	-	-	10	350.00
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	-	-	-	-	-	-	-
- South Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-	-	-	-	-	-
- Bengkulu	-	-	-	-	-	-	-	-	-	-	-	-
UIW Bangka Belitung	-	-	-	-	11	570.00	5	150.00	-	-	16	720.00
UID Lampung	-	-	-	-	-	-	-	-	-	-	-	-
UIW West Kalimantan	-	-	2	498.00	34	1,395.00	-	-	-	-	36	1,893.00
UIW S and C Kalimantan	-	-	-	-	69	2,742.00	14	148.00	-	-	83	2,890.00
- South Kalimantan	-	-	-	-	41	1,692.00	14	148.00	-	-	55	1,840.00
- Central Kalimantan	-	-	-	-	28	1,050.00	-	-	-	-	28	1,050.00
UIW East and North Kalimantan	-	-	-	-	53	2,150.00	-	-	-	-	53	2,150.00
UIW N, C Sulawesi and Gorontalo	-	-	-	-	45	1,870.00	29	614.00	-	-	74	2,484.00
- North Sulawesi	-	-	-	-	25	1,030.00	23	464.00	-	-	48	1,494.00
- Gorontalo	-	-	-	-	8	350.00	-	-	-	-	8	350.00
- Central Sulawesi	-	-	-	-	12	490.00	6	150.00	-	-	18	640.00
UIW S, SE and W Sulawesi	-	-	2	340.00	102	3,419.80	18	295.00	2	30	124	4,084.80
- South Sulawesi	-	-	2	340.00	82	2,773.80	13	200.00	2	30	99	3,343.80
- Southeast Sulawesi	-	-	-	-	10	360.00	5	95.00	-	-	15	455.00
- West Sulawesi	-	-	-	-	10	286.00	-	-	-	-	10	286.00
UIW Maluku and North Maluku	-	-	-	-	11	600.00	4	80.00	-	-	15	680.00
- Maluku	-	-	-	-	7	360.00	4	80.00	-	-	11	440.00
- North Maluku	-	-	-	-	4	240.00	-	-	-	-	4	240.00
UIW Papua and West Papua	-	-	-	-	12	540.00	15	226.03	-	-	27	766.03
- Papua	-	-	-	-	6	360.00	15	226.03	-	-	21	586.03
- West Papua	-	-	-	-	6	180.00	-	-	-	-	6	180.00
UID Bali	-	-	-	-	-	-	-	-	-	-	-	-
UIW West Nusa Tenggara	-	-	-	-	27	1,265.00	8	190.00	-	-	35	1,455.00
UIW East Nusa Tenggara	-	-	-	-	7	330.00	18	415.00	-	-	25	745.00
PT PLN Batam	-	-	-	-	21	870.00	-	-	-	-	21	870.00
PT PLN Tarakan	-	-	-	-	-	-	-	-	-	-	-	-
UIK Northern Part of Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	36	10,160.21	354	17,299.00	26	730.00	-	-	416	28,189.21
Outside Java	-	-	40	10,998.21	756	33,400.80	137	2,848.03	2	30	935	47,277.04
UID East Java	-	-	-	-	-	-	-	-	-	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	-	-	-	-	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	-	-	-	-	-	-	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-	-	-	-	-	-	-
UIT Western Part of Java	34	15,834.21	-	-	378	22,586.00	8	220.00	-	-	420	38,640.21
UIT Central Part of Java	27	13,500.00	-	-	441	26,481.00	66	1,603.00	-	-	534	41,584.00
UIT Eastern Part of Java and Bali	18	9,015.00	-	-	307	18,044.00	55	1,408.00	-	-	380	28,467.00
Java	79	38,349.21	-	-	1,126	67,111.00	129	3,231.00	-	-	1,334	108,691.21
Indonesia	79	38,349.21	40	10,998.21	1,882	100,511.80	266	6,079.03	2	30	2,269	155,968.25

Table 31 : Number and Total Capacity of Substation Transformers**2021**

PLN Operational Unit/Province	20 kV		12-15 kV		6-7 kV		Total	
	Unit	MVA	Unit	MVA	Unit	MVA	Unit	MVA
UIW Aceh	13,523	1,107.19	-	-	-	-	13,523	1,107.19
UIW North Sumatera	36,432	3,823.52	-	-	-	-	36,432	3,823.52
UIW West Sumatera	10,889	1,173.21	-	-	-	-	10,889	1,173.21
UIW Riau and Riau Archipelago	15,410	1,980.88	-	-	-	-	15,410	1,980.88
- Riau	12,905	1,651.25	-	-	-	-	12,905	1,651.25
- Riau Archipelago	2,505	329.63	-	-	-	-	2,505	329.63
UIW South Sumatera, Jambi and Bengkulu	29,550	2,735.31	-	-	-	-	29,550	2,735.31
- South Sumatera	16,288	1,601.57	-	-	-	-	16,288	1,601.57
- Jambi	9,203	772.40	-	-	-	-	9,203	772.40
- Bengkulu	4,059	361.35	-	-	-	-	4,059	361.35
UIW Bangka Belitung	4,617	511.58	-	-	-	-	4,617	511.58
UID Lampung	15,191	1,907.20	-	-	-	-	15,191	1,907.20
UIW West Kalimantan	10,588	1,144.60	-	-	-	-	10,588	1,144.60
UIW S and C Kalimantan	17,525	1,627.17	-	-	-	-	17,525	1,627.17
- South Kalimantan	11,221	1,111.63	-	-	-	-	11,221	1,111.63
- Central Kalimantan	6,304	515.54	-	-	-	-	6,304	515.54
UIW East and North Kalimantan	10,795	1,471.96	-	-	-	-	10,795	1,471.96
UIW N, C Sulawesi and Gorontalo	15,004	1,283.56	-	-	-	-	15,004	1,283.56
- North Sulawesi	5,696	545.57	-	-	-	-	5,696	545.57
- Gorontalo	2,588	227.79	-	-	-	-	2,588	227.79
- Central Sulawesi	6,720	510.20	-	-	-	-	6,720	510.20
UIW S, SE and W Sulawesi	28,619	2,733.55	-	-	-	-	28,619	2,733.55
- South Sulawesi	20,232	2,110.41	-	-	-	-	20,232	2,110.41
- Southeast Sulawesi	5,256	416.72	-	-	-	-	5,256	416.72
- West Sulawesi	3,131	206.41	-	-	-	-	3,131	206.41
UIW Maluku and North Maluku	5,287	517.00	-	-	-	-	5,287	517.00
- Maluku	3,017	294.28	-	-	-	-	3,017	294.28
- North Maluku	2,270	222.72	-	-	-	-	2,270	222.72
UIW Papua and West Papua	5,800	712.75	-	-	-	-	5,800	712.75
- Papua	3,703	434.23	-	-	-	-	3,703	434.23
- West Papua	2,097	278.52	-	-	-	-	2,097	278.52
UID Bali	12,814	2,037.00	-	-	-	-	12,814	2,037.00
UIW West Nusa Tenggara	6,039	767.97	-	-	-	-	6,039	767.97
UIW East Nusa Tenggara	5,372	403.50	-	-	-	-	5,372	403.50
PT PLN Batam	-	-	-	-	-	-	-	-
PT PLN Tarakan	-	-	-	-	-	-	-	-
UIK Northern Part of Sumatera	-	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	-	-	-	-	-	-
Outside Java	243,455	25,937.96	-	-	-	-	243,455	25,937.96
UID East Java	66,301	8,537.22	-	-	-	-	66,301	8,537.22
UID Central Java and Yogyakarta	143,469	8,194.84	-	-	-	-	143,469	8,194.84
- Central Java	125,576	7,166.51	-	-	-	-	125,576	7,166.51
- D.I. Yogyakarta	17,893	1,028.33	-	-	-	-	17,893	1,028.33
UID West Java	58,767	9,952.07	-	-	-	-	58,767	9,952.07
UID Banten	16,940	3,959.26	-	-	-	-	16,940	3,959.26
UID Jakarta Raya	14,026	7,759.53	-	-	-	-	14,026	7,759.53
PT Indonesia Power	-	-	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-	-	-
UIT Western Part of Java	-	-	-	-	-	-	-	-
UIT Central Part of Java	-	-	-	-	-	-	-	-
UIT Eastern Part of Java and Bali	-	-	-	-	-	-	-	-
Java	299,503	38,402.92	-	-	-	-	299,503	38,402.92
Indonesia	542,958	64,340.88	-	-	-	-	542,958	64,340.88

Annual Data 2021

Table 32 : Balance Sheet (million Rp)

2021

Description	Description	December 2021
FIXED ASSETS	EQUITY	981,607,123
- Total Fixed Assets	1,373,170,455	
- Accumulation Depreciation	(113,164,854)	
Total Fixed Assets (Net)	1,260,005,601	Total Equity
		981,607,123
	LONG TERM LIABILITIES	485,070,853
P D P and ATTB	167,052,758	- Deffered Tax Liabilities
- Other Non-current Assets	63,916,288	- Long Term Loan
- Receivables from Government	18,254,891	- Other Long Term Liabilities
- Investments in Associates and Joint Ventures	17,810,839	- Employee Benefit Liabilities
- Deferred Tax Assets	264,705	SHORT TERM LIABILITIES
CURRENT ASSETS		146,538,480
- Cash & Bank	37,968,399	- Trade Payables
- Receivables from Government	8,300,000	- Short Term Loan
- Temporary Investment	297,720	- Other Short Term Liabilities
- Receivable	23,802,386	- Employee Benefit Liabilities
- Inventories	10,393,419	
- Other Current Assets	5,149,451	
Total Current Assets	85,911,375	Total Long Term & Short Term Liabilities
TOTAL ASSETS	1,613,216,456	TOTAL EQUITY & LIABILITIES
		1,613,216,456

Table 33 : Profit and Loss (million Rp)**2021**

Description	December 2021
OPERATION REVENUE	
- Electricity Sales	288,862,726
- Connection Fees	493,437
- Government Subsidy	49,796,949
- Compensation Revenue	24,594,425
- Others	4,426,733
Total Operation Revenue	368,174,270
OPERATION COST	
- Electricity Purchase and Diesel Rented	108,325,486
- Fuel and Lubricant Oil	118,419,490
- Maintenance	22,600,774
- Personnel	25,092,756
- Depreciation	41,441,271
- Others	7,239,348
Total Operation Cost	323,119,125
OPERATING PROFIT (LOSS)	
- Other Income (Expenses) - Net	(4,921,682)
- Others Profit (Loss) - Exchange Rate	2,676,145
- Finance Income	787,231
- Finance Expenses	(20,375,755)
- Profit (Loss) Before Tax	23,221,084
- Tax Benefit (Expense)	(10,046,207)
PROFIT (LOSS) FOR THE YEAR	13,174,877

Table 34 : Fixed Asset and Depreciation (million Rp)**2021**

Function	Saldo 2021	Accumulated Depreciation	Book Value 2021
- Hydro	88,435,730.32	(277,338.91)	88,158,391.41
- Steam	296,065,898.14	(6,390,442.43)	289,675,455.71
- Diesel	24,619,942.48	(1,073,623.60)	23,546,318.88
- Gas Turbine	56,872,415.53	(967,495.43)	55,904,920.10
- Geothermal	16,140,778.27	(170,323.70)	15,970,454.57
- Combined Cycle	186,418,822.91	(1,260,097.67)	185,158,725.24
- Sun	904,045.67	(5,938.52)	898,107.15
- Transmission	300,499,058.83	(2,631,199.39)	297,867,859.44
- Data Tele Information	8,793,485.78	(2,451,359.97)	6,342,125.81
- Distribution and UPD	244,458,171.09	(2,742,512.43)	241,715,658.66
- T U L	4,488,249.53	(467,286.22)	4,020,963.31
- General	48,161,520.72	(3,014,386.74)	45,147,133.98
TOTAL	1,275,858,119.25	(21,452,005.01)	1,254,406,114.25

Annual Data 2021

Table 35 : Accounts Receivable (million Rp)

2021

PLN Operational Unit	Non					Total
	Public	Armed Force	Non Armed Force	Local Government	BUMN	
UIW Aceh	155,833.88	22,273.73	3,140.74	65,878.67	8,312.25	255,439.27
UIW North Sumatera	896,873.54	18,631.82	14,199.26	57,138.25	20,486.40	1,007,329.27
UIW West Sumatera	179,794.08	5,102.59	6,479.08	19,268.81	64,985.31	275,629.87
UIW Riau and Riau Archipelago	630,063.91	13,228.33	5,743.53	40,120.36	67,581.29	756,737.42
UIW South Sumatera, Jambi and Bengkulu	651,755.56	16,504.22	10,063.20	58,476.15	22,456.71	759,255.84
UIW Bangka Belitung	54,734.11	2,288.01	1,143.11	3,397.78	3,274.95	64,837.96
UID Lampung	457,503.56	1,932.11	5,051.52	26,349.93	4,824.70	495,661.82
UIW West Kalimantan	181,592.40	11,964.86	3,837.54	11,484.97	3,181.15	212,060.92
UIW South and Central Kalimantan	344,274.30	12,937.61	6,008.90	23,054.69	14,452.89	400,728.38
UIW East and North Kalimantan	298,891.11	27,387.40	6,167.58	25,006.94	17,507.05	374,960.08
UIW N, C Sulawesi and Gorontalo	397,423.91	15,774.94	7,986.45	52,905.08	6,958.48	481,048.86
UIW S, SE and W Sulawesi	1,004,407.89	31,716.71	13,759.75	35,922.92	51,301.07	1,137,108.36
UIW Maluku and North Maluku	69,098.07	20,315.48	5,426.67	5,510.95	5,955.36	106,306.53
UIW Papua and West Papua	80,668.41	30,603.55	5,650.64	10,698.08	7,496.18	135,116.86
UID Bali	362,431.64	7,283.83	6,419.80	13,030.67	6,152.62	395,318.56
UIW West Nusa Tenggara	111,463.07	5,206.29	2,366.27	12,157.01	3,792.28	134,984.91
UIW East Nusa Tenggara	22,192.23	4,581.99	2,744.92	4,952.20	4,124.52	38,595.87
PT PLN Batam	319,305.69	9,572.63	1,852.32	2,450.23	687.41	333,868.27
Outside Java	6,218,307.37	257,306.08	108,041.28	467,803.67	313,530.63	7,364,989.04
UID East Java	3,109,038.63	49,526.93	32,661.53	96,358.61	120,178.44	3,407,764.13
UID Central Java and Yogyakarta	2,054,170.62	36,529.05	36,862.24	85,807.38	58,520.34	2,271,889.63
UID West Java	4,976,993.12	74,910.38	31,731.15	81,061.79	57,147.43	5,221,843.87
UID Jakarta Raya	3,096,943.04	265,433.22	107,609.43	78,420.23	23,954.11	3,572,360.03
UID Banten	2,483,296.67	14,407.91	9,100.96	20,144.53	49,035.82	2,575,985.89
Java	15,720,442.07	440,807.49	217,965.31	361,792.54	308,836.14	17,049,843.55
Indonesia	21,938,749.45	698,113.57	326,006.59	829,596.21	622,366.78	24,414,832.60

Note: Data from Aplikasi Pelayanan Pelanggan Terpusat (AP2T)

Table 36 : Average Collection Rate**2021**

PLN Operational Unit	Sales (million Rp)	Accounts Receivable (million Rp)	Average (day)
UIW Aceh	2,741,858.22	255,439.27	34.00
UIW North Sumatera	12,468,718.70	1,007,329.27	29.49
UIW West Sumatera	3,776,979.93	275,629.87	26.64
UIW Riau and Riau Archipelago	7,642,715.67	756,737.42	36.14
UIW South Sumatera, Jambi and Bengkulu	9,709,322.03	759,255.84	28.54
UIW Bangka Belitung	1,664,569.35	64,837.96	14.22
UID Lampung	5,220,078.50	495,661.82	34.66
UIW West Kalimantan	3,102,227.09	212,060.92	24.95
UIW South and Central Kalimantan	4,972,915.18	400,728.38	29.41
UIW East and North Kalimantan	5,282,701.66	374,960.08	25.91
UIW N, C Sulawesi and Gorontalo	3,996,958.15	481,048.86	43.93
UIW S, SE and W Sulawesi	8,839,155.72	1,137,108.36	46.96
UIW Maluku and North Maluku	1,377,089.72	106,306.53	28.18
UIW Papua and West Papua	2,275,547.97	135,116.86	21.67
UID Bali	5,896,210.77	395,318.56	24.47
UIW West Nusa Tenggara	2,050,036.73	134,984.91	24.03
UIW East Nusa Tenggara	1,283,192.81	38,595.87	10.98
PT PLN Batam	3,676,439.67	333,868.27	33.15
Outside Java	85,976,717.84	7,364,989.04	31.27
UID East Java	40,442,999.24	3,407,764.13	30.76
UID Central Java and Yogyakarta	28,847,189.55	2,271,889.63	28.75
UID West Java	56,690,764.93	5,221,843.87	33.62
UID Jakarta Raya	40,977,327.24	3,572,360.03	31.82
UID Banten	26,159,309.75	2,575,985.89	35.94
Java	193,117,590.70	17,049,843.55	32.22
Indonesia	279,094,308.54	24,414,832.60	31.93

Annual Data 2021

Table 37 : Generation Cost

2021

Generation Type	Generation Cost (million Rp)					
	Fuel *)	Maintenance	Depreciation	Other	Personnel	Total
Hydro	401,532.46	254,387.07	2,281,072.10	63,265.21	314,771.45	3,315,028.28
Steam	55,047,803.41	3,075,539.69	11,723,473.42	316,429.40	1,677,228.86	71,840,474.77
Diesel **)	16,986,391.28	1,673,149.30	1,215,854.77	83,408.11	653,882.70	20,612,686.15
Gas Turbine	11,222,233.85	(976,426.17)	2,756,206.24	122,039.02	220,199.06	13,344,252.01
Geothermal	3,521,201.22	101,771.98	490,813.42	48,215.63	98,435.68	4,260,437.93
Combined Cycle	31,240,325.03	1,143,053.65	5,659,380.47	120,728.30	503,102.12	38,666,589.57
Sun	2.92	2,796.67	54,424.63	69.01	633.27	57,926.49
Total	118,419,490	5,274,272.18	24,181,225.05	754,154.67	3,468,253.13	152,097,395.20
Rented ***)						4,772,014.05

*) Including lubricants

**) Including Gas Engine

***) Rented fee regulated in the provisions of PSAK 73

Table 38 : Average Generation Cost per kWh

2021

Generation Type	Average Generation Cost per kWh (Rp/kWh) ***)						
	Fuel *)	Maintenance	Depreciation	Other	Personnel	Interest Expense	
Hydro	33.83	21.43	192.18	5.33	26.52	118.99	398.29
Steam	479.96	26.86	102.37	2.76	14.65	41.29	667.88
Diesel **)	4,611.17	538.91	391.62	26.86	210.61	126.64	5,905.81
Gas Turbine	965.92	(90.87)	256.50	11.36	20.49	84.53	1,247.93
Geothermal	83.51	2.41	11.64	1.14	2.33	6.11	107.15
Combined Cycle	94.60	3.46	17.14	0.37	1.52	9.01	126.10
Sun	0.05	49.64	966.01	1.22	11.24	256.27	1,284.44
Average	895.58	78.83	276.78	7.01	41.05	91.83	1,391.08
Rented							1,775

*) Including lubricants

**) Including Gas Engine

***) Own generator operating costs (owned by PLN) including from Project

Table 39 : Financial Ratios**2021**

Indicator	Unit	2021
I. Financial Indicators		
- Cash Ratio	%	26.11
- Rentability Ratio	%	1.34
- Solvability Ratio	%	39.15
- Liquidity Ratio	%	58.63
II. Financial Covenant *)		
- CICR	Times	3.03
- Financial Liabilities to Total Assets	%	25.52
- EBITDA Interest Coverage Ratio	Times	4.38
III. Operating Activity (Financial)		
- Fixed Assets Turnover	Times	0.20
- Average Period or Receivable Collection	Day	28.48
- Receivable Turnover	Times	12.82
- Material Turnover	Times	3.80

*) Calculation of Financial Covenant based on financial statements by excluding the impact of ISAK 8 as stated in the Global Bonds indenture and Local Bonds Trustee Agreement

Annual Data 2021

Table 40 : Number of Employees by Grade

2021

PLN Operational Unit/Province	Basic (19-26)	Specific (15-18)	System (11-14)	Optimazion (7-10)	Advance (4-6)	Integration (0-3)	Total
UIW Aceh	288	398	171	18	3	1	879
UIW North Sumatera	376	698	197	22	6	1	1,300
UIW West Sumatera	308	357	165	9	1	-	840
UIW Riau and Riau Archipelago	287	395	178	11	4	-	875
UIW South Sumatera, Jambi and Bengkulu	277	562	176	22	3	1	1,041
UIW Bangka Belitung	101	184	56	9	3	-	353
UID Lampung	145	336	94	8	3	-	586
UIW West Kalimantan	252	336	140	10	2	1	741
UIW South and Central Kalimantan	298	360	184	14	3	-	859
UIW East and North Kalimantan	348	250	109	12	3	-	722
UIW N, C Sulawesi and Gorontolo	385	492	167	16	3	-	1,063
UIW S, SE and W Sulawesi	582	619	263	17	5	1	1,487
UIW Maluku and North Maluku	449	336	160	15	3	-	963
UIW Papua and West Papua	566	450	144	8	1	-	1,169
UID Bali	156	303	145	14	4	1	623
UIW West Nusa Tenggara	372	365	132	14	3	1	887
UIW East Nusa Tenggara	379	374	135	11	2	-	901
PT PLN Batam	-	-	-	-	-	-	504
PT PLN Tarakan	-	-	-	-	-	-	98
UIK Northern Part of Sumatera	467	472	207	10	2	-	1,158
UIK Southern Part of Sumatera	501	516	260	16	5	-	1,298
UIP3B Sumatera	960	699	201	21	2	-	1,883
UIKL Sulawesi	604	582	144	21	2	-	1,353
UIKL Kalimantan	694	513	222	18	2	-	1,449
Outside Java	8,795	9,597	3,650	316	65	7	23,032
UID East Java	617	971	608	40	13	-	2,249
UID Central Java and Yogyakarta	445	859	425	38	9	1	1,777
UID West Java	569	1,085	458	36	6	1	2,155
UID Banten	194	415	161	11	2	1	784
UID Jakarta Raya	299	701	412	32	6	1	1,451
PT Indonesia Power	-	-	-	-	-	-	4,228
PT PJB	-	-	-	-	-	-	3,008
UIT Western Part of Java	399	430	227	16	4	-	1,076
UIT Central Part of Java	752	722	221	19	4	1	1,719
UIT Eastern Part of Java and Bali	493	451	217	21	2	-	1,184
UIP2B	88	278	128	12	5	-	511
UIK Tanjung Jati B	3	34	27	8	1	1	74
Java	3,859	5,946	2,884	233	52	6	20,216
PLN Head Office	204	1,924	850	296	174	77	3,525
PLN Supporting and Service Unit	170	732	383	66	43	1	1,395
PLN Construction Unit	595	1,188	502	101	35	4	2,425
Other Subsidiaries	-	-	-	-	-	-	1,523
Indonesia	13,623	19,387	8,269	1,012	369	95	52,116

Table 41 : Number of Employees by Education**2021**

PLN Operational Unit/Province	<= D1-D3	D4-S1	S2	S3	Total
UIW Aceh	626	243	10	-	879
UIW North Sumatera	826	455	19	-	1,300
UIW West Sumatera	556	272	12	-	840
UIW Riau and Riau Archipelago	673	188	14	-	875
UIW South Sumatera, Jambi and Bengkulu	642	373	26	-	1,041
UIW Bangka Belitung	223	117	13	-	353
UID Lampung	326	247	11	2	586
UIW West Kalimantan	493	238	10	-	741
UIW South and Central Kalimantan	561	284	14	-	859
UIW East and North Kalimantan	529	175	18	-	722
UIW N, C Sulawesi and Gorontolo	729	326	8	-	1,063
UIW S, SE and W Sulawesi	922	549	16	-	1,487
UIW Maluku and North Maluku	797	159	7	-	963
UIW Papua and West Papua	940	221	8	-	1,169
UID Bali	402	206	15	-	623
UIW West Nusa Tenggara	675	203	9	-	887
UIW East Nusa Tenggara	728	163	10	-	901
PT PLN Batam	-	-	-	-	504
PT PLN Tarakan	-	-	-	-	98
UIK Northern Part of Sumatera	783	363	12	-	1,158
UIK Southern Part of Sumatera	906	377	15	-	1,298
UIP3B Sumatera	1,402	459	22	-	1,883
UIKL Sulawesi	886	449	18	-	1,353
UIKL Kalimantan	1,062	361	25	1	1,449
Outside Java	15,687	6,428	312	3	23,032
UID East Java	1,353	839	57	-	2,249
UID Central Java and Yogyakarta	1,100	635	42	-	1,777
UID West Java	1,329	792	34	-	2,155
UID Banten	425	340	19	-	784
UID Jakarta Raya	842	576	33	-	1,451
PT Indonesia Power	-	-	-	-	4,228
PT PJB	-	-	-	-	3,008
UIT Western Part of Java	724	315	37	-	1,076
UIT Central Part of Java	1,203	481	35	-	1,719
UIT Eastern Part of Java and Bali	841	303	40	-	1,184
UIP2B	189	289	33	-	511
UIK Tanjung Jati B	19	43	12	-	74
Java	8,025	4,613	342	-	20,216
PLN Head Office	526	2,441	548	10	3,525
PLN Supporting and Service Unit	547	720	128	-	1,395
PLN Construction Unit	990	1,325	110	-	2,425
Other Subsidiaries	-	-	-	-	1,523
Indonesia	25,775	15,527	1,440	13	52,116

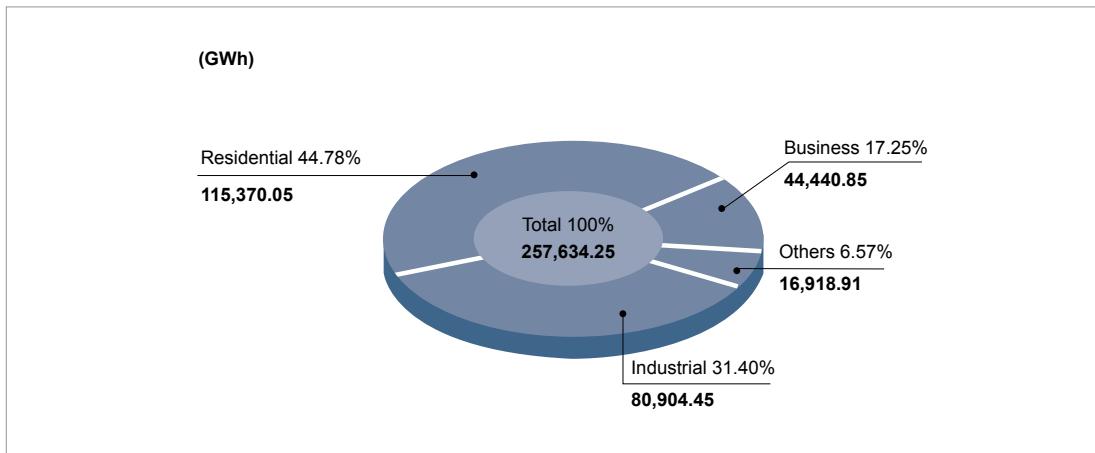
Annual Data 2021

Table 42 : Productivity of Employee

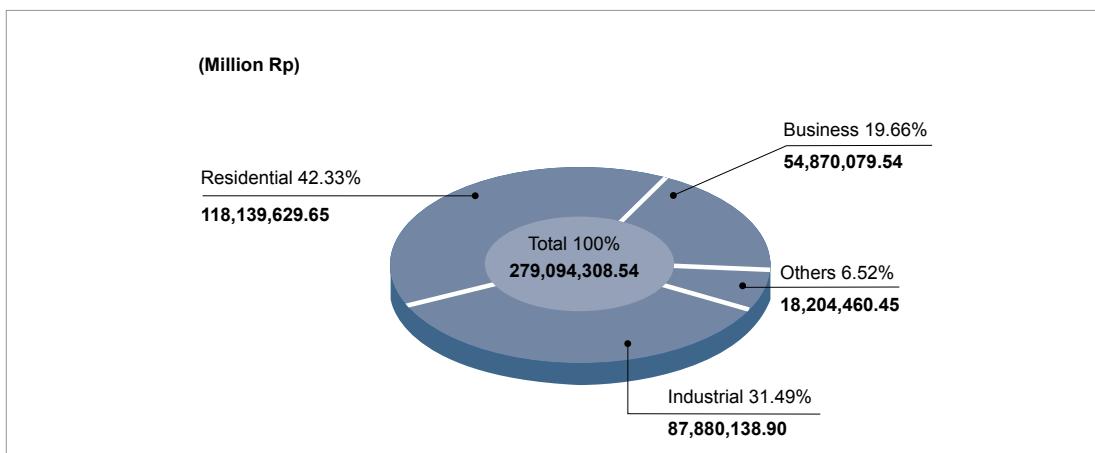
2021

PLN Operational Unit/Province	Customers per Employee	kWh Sold per Employee
UIW Aceh	1,835	3,497,690.56
UIW North Sumatera	3,187	9,037,230.77
UIW West Sumatera	1,857	4,340,714.29
UIW Riau and Riau Archipelago	2,608	8,024,182.86
UIW South Sumatera, Jambi and Bengkulu	3,799	8,419,269.93
UIW Bangka Belitung	1,461	3,878,753.54
UID Lampung	4,179	8,834,368.60
UIW West Kalimantan	1,824	3,931,147.10
UIW South and Central Kalimantan	2,438	5,411,641.44
UIW East and North Kalimantan	1,860	5,958,365.65
UIW N, C Sulawesi and Gorontolo	1,777	3,699,736.59
UIW S, SE and W Sulawesi	2,381	5,505,850.71
UIW Maluku and North Maluku	733	1,266,791.28
UIW Papua and West Papua	643	1,557,613.34
UID Bali	2,535	7,557,014.45
UIW West Nusa Tenggara	1,945	2,581,950.39
UIW East Nusa Tenggara	1,130	1,287,635.96
PT PLN Tarakan	-	-
UIK Northern Part of Sumatera	-	-
UIK Southern Part of Sumatera	-	-
UIP3B Sumatera	-	-
Outside Java	1,450	3,387,584.04
UID East Java	5,720	17,544,326.37
UID Central Java and Yogyakarta	7,014	16,752,695.55
UID Banten	4,680	30,396,568.88
UID West Java	7,316	24,741,540.60
UID Jakarta Raya	3,388	22,542,591.32
PT Indonesia Power	-	-
PT PJB	-	-
UIP2B	-	-
UIK Tanjung Jati B	-	-
UP Java Bali	-	-
Java	3,827	13,796,992.30
Indonesia (without Subsidiaries)	1,923	5,965,815.93
PT PLN Batam	690	5,090,853.17
PLN Head office	-	-
PLN Supporting and Service Unit	-	-
PLN Construction Unit	-	-
Other Subsidiaries	-	-
Indonesia	1,584	4,943,477.05

Graph 1. Energy Sold by Type of Customers (2021)

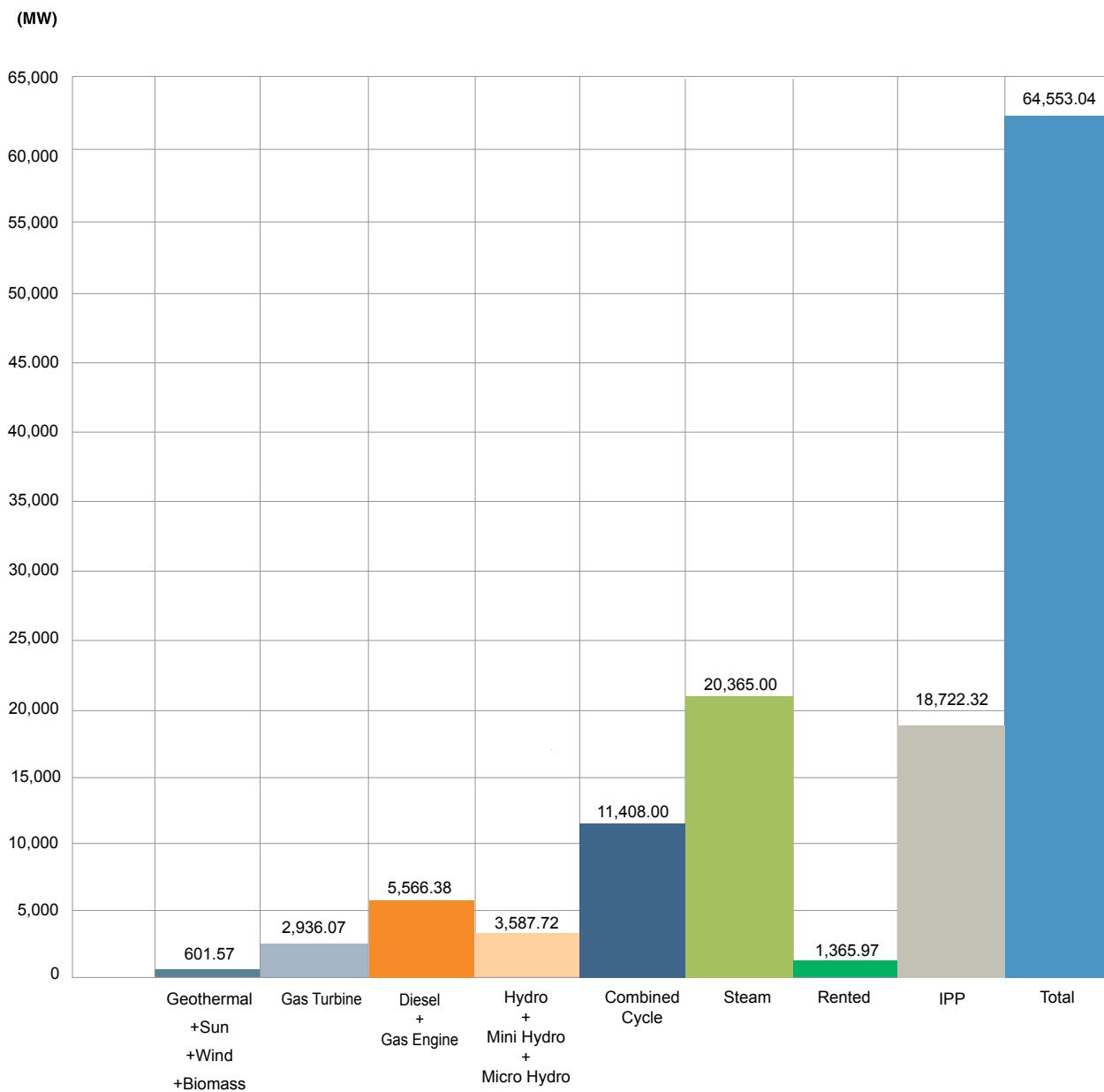


Graph 2. Revenue (2021)

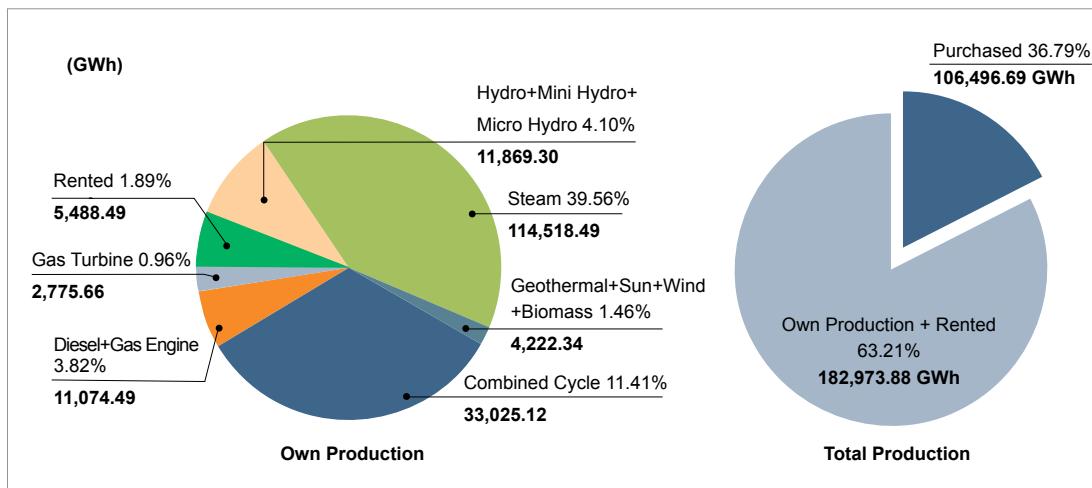


Annual Data 2021

Graph 3. Installed Capacity (2021)



Graph 4. Energy Production (2021)





Data Over Nine Years

2013 - 2021

Data Over Nine Years 2013 - 2021

Table 43 : Load Factor, Capacity Factor and Demand Factor (%)

2013 - 2021

Year	Load Factor	Capacity Factor	Demand Factor
2013	80.04	54.72	26.50
2014	78.26	50.94	26.65
2015	80.02	50.53	25.06
2016	62.62	51.92	49.55
2017	74.93	51.98	39.75
2018	78.64	52.73	37.20
2019	76.41	50.68	37.72
2020	78.32	49.54	34.61
2021	77.20	51.19	34.84

Table 44 : Number of Customer by Type of Customers

2013 - 2021

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2013	50,116,127	55,546	2,418,431	1,110,450	137,762	157,892	53,996,208	8.44
2014	53,309,325	58,350	2,626,160	1,181,779	146,321	146,321	57,468,256	6.47
2015	56,605,260	63,314	2,894,990	1,261,516	156,782	156,782	61,138,644	6.39
2016	59,243,672	69,629	3,239,764	1,354,010	169,478	205,940	64,282,493	5.14
2017	62,543,434	76,816	3,579,364	1,460,546	182,874	225,249	68,068,283	5.89
2018	66,071,133	88,185	3,750,666	1,559,997	198,113	249,303	71,917,397	5.66
2019	69,619,877	104,922	3,829,553	1,662,926	211,947	276,389	75,705,614	5.27
2020	72,606,681	130,722	4,001,917	1,746,074	218,408	296,231	79,000,033	4.35
2021	75,701,985	159,057	4,300,034	1,838,087	230,577	314,240	82,543,980	4.49

Data Over Nine Years 2013 - 2021

Table 45 : Connected Capacity by Type of Customers (MVA)

2013 - 2021

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2013	45,214.25	21,544.30	19,931.50	3,247.82	2,247.51	909.47	93,094.84	10.96
2014	48,374.47	23,541.97	21,223.71	3,537.17	2,390.43	962.78	100,030.53	7.45
2015	51,654.89	25,024.02	22,477.28	3,861.60	2,560.54	1,003.90	106,582.23	6.55
2016	55,284.60	26,569.81	24,362.27	4,334.47	2,753.49	1,042.98	114,347.62	7.29
2017	59,257.37	27,584.67	26,197.72	4,897.48	2,979.73	1,100.66	122,017.63	6.71
2018	63,576.71	29,136.29	27,751.75	5,462.73	3,195.56	1,157.51	130,280.55	6.77
2019	67,877.52	30,433.91	29,180.45	5,993.45	3,360.50	1,230.70	138,076.53	5.98
2020	72,096.64	31,146.41	30,277.65	6,431.26	3,465.80	1,260.45	144,678.21	4.78
2021	76,566.84	33,151.51	31,974.04	6,954.42	3,624.93	1,294.22	153,565.96	6.14

Table 46 : Energy Sold by Type of Customers (GWh)

2013 - 2021

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2013	77,210.71	64,381.39	34,498.38	4,939.04	3,260.71	3,250.78	187,541.02	7.79
2014	84,086.46	65,908.68	36,282.42	5,446.46	3,483.99	3,393.76	198,601.78	5.90
2015	88,682.13	64,079.39	36,978.05	5,940.98	3,717.16	3,448.11	202,845.82	2.14
2016	93,634.61	68,145.30	40,074.39	6,630.80	4,021.61	3,497.58	216,004.29	6.49
2017	94,457.38	72,238.37	41,694.79	7,095.37	4,121.26	3,526.55	223,133.72	3.30
2018	97,832.28	76,946.50	44,027.40	7,781.34	4,403.28	3,627.07	234,617.88	5.15
2019	103,733.43	77,878.65	46,901.25	8,621.83	4,750.29	3,632.71	245,518.17	4.65
2020	112,155.85	72,239.86	42,819.32	8,098.06	4,634.78	3,634.88	243,582.75	-0.79
2021	115,370.05	80,904.45	44,440.85	8,665.99	4,707.97	3,544.95	257,634.25	5.77

Table 47 : Average Energy Sold by Type of Customers (kWh)**2013 - 2021**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
2013	1,540.64	1,159,064.47	14,264.78	4,447.78	23,669.14	20,588.66	3,473.22
2014	1,577.00	1,129,540.00	13,816.00	4,609.00	23,811.00	19,812.00	3,454.00
2015	1,567.00	1,012,089.00	12,773.00	4,709.00	23,709.00	18,526.00	3,454.00
2016	1,581.00	978,692.00	12,370.00	4,897.00	23,729.00	16,984.00	3,360.00
2017	1,510.00	940,408.00	11,649.00	4,858.00	22,536.00	15,656.00	3,278.00
2018	1,481.00	872,558.00	11,739.00	4,988.00	22,226.00	14,549.00	3,262.00
2019	1,490.00	742,252.82	12,247.19	5,184.73	22,412.63	13,143.47	3,243.06
2020	1,544.70	552,622.03	10,699.70	4,637.87	21,220.72	12,270.42	3,083.32
2021	1,524.00	508,650.72	10,335.00	4,714.68	20,418.07	11,281.14	3,121.18

Table 48 : Revenue by Type of Customers (million Rp)**2013 - 2021**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2013	53,434,177.68	51,270,325.92	38,520,052.47	3,738,258.85	3,561,414.95	2,961,376.43	153,485,606.31	21.12
2014	63,750,951.00	64,443,791.00	45,928,833.00	4,411,530.00	4,376,594.00	3,722,786.00	186,634,484.00	21.60
2015	74,228,270.00	73,225,020.00	47,485,994.00	4,826,716.00	4,923,417.00	5,155,124.00	209,844,540.00	12.44
2016	79,001,584.00	71,676,300.00	48,135,789.00	5,410,427.00	4,965,551.00	4,950,171.00	214,139,821.00	2.05
2017	99,747,380.00	78,652,788.00	51,935,757.00	5,827,691.00	5,269,214.00	5,154,027.00	246,586,856.00	15.15
2018	107,853,456.00	83,510,376.00	54,769,851.00	6,405,714.00	5,636,698.00	5,301,458.00	263,477,551.00	6.85
2019	114,009,150.67	85,696,114.71	59,196,245.28	7,164,127.64	6,135,914.18	5,315,507.93	277,517,060.40	5.33
2020	111,249,935.56	78,805,923.48	53,067,797.67	6,511,744.48	6,021,618.63	5,306,701.62	260,963,721.44	-5.96
2021	118,139,629.65	87,880,138.90	54,870,079.54	6,987,979.19	6,086,666.66	5,129,814.60	279,094,308.54	6.95

Data Over Nine Years 2013 - 2021

Table 49 : Average Tariff Selling of Electricity by Type of Customers (Rp/kWh)

2013 - 2021

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
2013	692.06	796.35	1,116.58	756.88	1,092.22	910.97	818.41
2014	758.16	977.77	1,265.87	809.98	1,256.20	1,096.95	939.74
2015	837.01	1,142.72	1,284.17	812.44	1,324.51	1,459.06	1,034.50
2016	843.72	1,051.82	1,201.16	815.96	1,234.72	1,415.31	991.37
2017	1,056.00	1,088.80	1,245.62	821.34	1,278.54	1,461.49	1,105.11
2018	1,102.43	1,085.30	1,243.99	823.21	1,280.11	1,461.64	1,123.01
2019	1,098.82	1,100.69	1,258.34	830.68	1,291.45	1,465.09	1,129.59
2020	991.92	1,090.89	1,239.34	804.11	1,299.22	1,459.94	1,071.36
2021	1,024.01	1,086.22	1,234.68	806.37	1,292.85	1,447.08	1,083.30

Table 50 : Number of Customers by Type of Voltage

2013 - 2021

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose		
2013	53,853,968	142,111	58	71	53,996,208	8.44
2014	57,409,558	83,531	72	73	57,493,234	6.48
2015	61,052,745	115,077	80	78	61,167,980	6.39
2016	64,149,582	132,739	88	84	64,282,493	5.09
2017	67,922,448	145,742	93	-	68,068,283	5.89
2018	71,822,662	94,637	98	-	71,917,397	5.60
2019	75,600,176	105,337	101	-	75,705,614	5.27
2020	78,887,339	112,594	100	-	79,000,033	4.35
2021	82,419,243	124,627	110	-	82,543,980	4.49

Table 51 : Energy Sold by Type of Voltage (GWh)**2013 - 2021**

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose		
2013	106,119.04	67,287.71	13,945.16	189.15	187,541.06	7.79
2014	116,304.24	68,563.26	13,520.18	214.15	198,601.83	5.90
2015	123,076.75	66,825.79	12,654.35	288.94	202,845.83	2.14
2016	130,491.48	70,763.02	14,414.70	335.12	216,004.32	6.49
2017	133,030.86	73,495.63	16,607.23	-	223,133.72	3.30
2018	139,068.86	77,305.52	18,243.50	-	234,617.88	5.15
2019	147,692.33	80,301.74	17,524.10	-	245,518.17	4.65
2020	155,217.79	72,618.09	15,746.87	-	243,582.75	-0.79
2021	160,365.96	78,719.42	18,548.88	-	257,634.25	5.77

Table 52 : Revenue by Type of Voltage (million Rp)**2013 - 2021**

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose		
2013	84,313,920.84	55,756,540.14	9,345,647.82	4,069,497.51	153,485,606.31	21.12
2014	102,520,584.00	69,033,065.00	12,353,013.00	2,727,823.00	186,634,484.00	21.60
2015	117,631,504.00	77,659,563.00	13,254,127.00	1,299,347.00	209,844,541.00	12.44
2016	123,459,196.00	75,683,817.00	13,954,290.00	1,042,518.00	214,139,821.00	2.05
2017	147,582,478.00	80,555,694.00	16,620,063.00	1,828,621.00	246,586,856.00	15.15
2018	158,754,942.00	84,596,718.00	18,232,665.00	1,893,225.00	263,477,551.00	6.85
2019	168,423,641.08	88,927,866.01	17,826,867.44	2,338,685.88	277,517,060.41	5.33
2020	163,202,835.59	79,422,038.12	15,893,150.12	2,445,697.60	260,963,721.43	-5.96
2021	171,966,922.08	86,285,110.30	18,066,288.68	2,775,987.48	279,094,308.54	6.95

Data Over Nine Years 2013 - 2021

Table 53 : Own Use and Energy Losses

2013 - 2021

Year	Own Use *)		Energy Losses & Own Use					
			Transmission		Distribution		Total	
	(GWh)	(%)	(GWh)	(%)	(GWh)	(%)	(GWh)	(%)
2013	7,222.58	4.40	4,859.53	0.92	15,841.77	3.00	20,701.30	4.03
2014	7,842.24	4.47	5,224.63	2.37	16,198.66	7.52	22,005.98	9.97
2015	8,258.56	4.67	5,248.08	2.33	16,810.27	7.62	22,589.01	10.00
2016	9,060.67	4.93	5,486.54	2.29	17,219.45	7.19	23,358.90	9.75
2017	9,233.26	5.50	5,865.60	2.39	15,619.45	6.53	22,147.47	9.02
2018	9,616.42	5.10	5,969.98	2.32	18,510.36	7.37	25,093.26	9.75
2019	9,910.95	5.12	6,073.34	2.26	19,006.53	7.24	25,822.86	9.60
2020	9,732.18	5.48	5,521.04	2.08	18,729.89	7.22	24,960.53	9.41
2021	9,959.33	5.44	5,501.33	1.97	18,519.97	6.77	25,143.66	9.00

*) Own use for power plant

Table 54 : Number of Generating Units *)

2013 - 2021

Year	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Combined Cycle	Geo-thermal	Diesel	Gas Engine	Sun	Wind	Bio-mass	Total	Δ %
2013	220	-	-	71	77	66	14	4,422	-	50	5	-	4,925	-2.44
2014**)	224	-	-	97	81	65	15	4,471	-	56	6	-	5,015	1.83
2015***)	232	-	-	114	72	65	15	4,655	-	58	7	-	5,218	4.21
2016	232	-	-	107	75	66	15	4,665	-	68	7	-	5,235	0.52
2017	240	-	-	104	97	69	15	4,801	-	57	6	-	5,389	2.94
2018	266	-	-	110	98	74	22	5,327	-	78	5	-	5,980	10.97
2019	243	-	-	133	68	73	18	5,350	-	96	5	1	5,987	0.10
2020	244	-	-	127	66	79	18	5,400	-	118	5	2	6,059	1.20
2021	162	12	72	126	66	79	18	5,258	193	150	5	2	6,143	1.39

*) PLN's Power Plant

**) Revised Number of Generating Unit

***) In 2015, there were asset deletion of PLTG in PLN Generation of Northern Sumatera and PLN East Kalimantan

Before 2021

- Mini Hydro and Micro Hydro are included in Hydro

- Gas Engine included in Diesel

Table 55 : Installed Capacity (MW) ***2013 - 2021**

Year	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Com-bined Cycle	Geo-ther-mal	Diesel	Gas Engine	Sun	Wind	Bio-mass	Total	Δ %
2013	3,519.49	-	-	15,554.00	2,893.88	8,814.11	568.00	2,847.78	-	7.94	0.42	-	34,205.63	3.96
2014**)	3,526.90	-	-	18,421.67	3,012.10	8,886.11	573.00	2,798.55	-	8.73	0.49	-	37,227.55	8.83
2015**)	3,566.15	-	-	21,117.15	2,981.31	8,894.11	550.89	3,175.79	-	8.86	0.99	-	40,295.25	11.89
2016	3,567.83	-	-	19,856.35	3,208.15	9,204.11	580.89	3,353.80	-	12.94	0.99	-	39,785.06	3.97
2017***)	3,583.15	-	-	19,530.50	3,075.83	9,022.54	550.89	3,880.02	-	7.98	0.88	-	39,651.80	-0.33
2018	3,582.98	-	-	20,192.00	3,133.61	9,812.11	579.50	4,383.42	-	12.07	0.47	-	41,696.67	5.16
2019	3,583.98	-	-	20,750.50	3,188.90	10,708.76	579.50	5,029.31	-	14.65	0.47	-	43,856.58	5.18
2020	3,584.07	-	-	20,277.63	2,936.07	11,232.20	579.26	5,547.88	-	16.71	0.47	0.50	44,174.80	0.72
2021	3,504.42	37.68	45.62	20,365.00	2,936.07	11,408.00	579.26	3,532.61	2,033.77	21.34	0.47	0.50	44,464.75	0.66

*) PLN's Power Plant

**) Revised Installed Capacity

***) Decrease in generating capacity due to asset deletion

Before 2021

- Mini Hydro and Micro Hydro are included in Hydro

- Gas Engine included in Diesel

Table 56 : Rated Capacity (MW) ***2013 - 2021**

Year	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Com-bined Cycle	Geo-ther-mal	Diesel	Gas Engine	Sun	Wind	Total	Δ %
2013	3,220.90	-	-	13,563.65	2,543.84	7,300.91	546.50	1,827.73	-	7.24	-	29,010.77	3.29
2014**)	3,444.08	-	-	15,608.59	2,533.72	7,722.33	549.00	1,685.64	-	7.49	-	31,550.85	8.76
2015**)	3,473.18	-	-	17,798.74	2,486.42	7,571.23	516.43	1,902.77	-	6.54	0.02	33,755.32	6.99
2016	3,410.62	-	-	17,811.40	2,669.80	7,754.23	523.28	2,292.49	-	9.28	0.30	34,471.39	5.33
2017	3,470.89	-	-	17,150.20	2,608.89	7,698.57	508.89	2,488.73	-	5.66	-	33,931.83	-1.57
2018	3,471.05	-	-	17,138.73	2,605.46	8,937.52	541.54	2,750.86	-	7.20	0.08	35,452.44	4.48
2019	3,474.81	-	-	17,767.38	2,718.59	9,145.52	550.34	3,257.04	-	6.33	0.08	36,920.09	4.14
2020	3,511.37	-	-	17,714.10	2,404.59	10,036.51	550.34	3,844.82	-	11.73	0.08	38,073.54	3.12
2021	3,445.21	36.86	33.61	17,743.90	2,403.59	10,168.02	544.29	2,057.78	1,865.74	14.91	-	38,313.90	0.63

*) PLN's Power Plant

**) Revised Rated Capacity

Before 2021

- Mini Hydro and Micro Hydro are included in Hydro

- Gas Engine included in Diesel

Data Over Nine Years 2013 - 2021

Table 57 : Energy Production (GWh)

2013 - 2021

Year	Own Generated												Purchased *)	Total	Δ %	
	Hydro	Mini Hydro	Micro Hydro	Steam	Gas Turbine	Com-bined Cycle	Geo-thermal	Diesel	Gas Engine	Wind	Sun	Rented	Sub Total			
2013	13,009.55	-	-	80,926.10	5,916.51	36,423.42	4,345.09	3,212.13	381.75	5.48	-	19,745.72	163,965.75	52,222.79	216,118.54	7.92
2014	11,163.62	-	-	89,249.38	5,445.68	38,068.45	4,285.37	3,546.86	1,087.26	-	6.81	22,443.56	175,296.98	53,257.93	228,554.91	5.72
2015	10,004.48	-	-	95,815.29	3,442.93	38,705.56	4,391.55	3,032.75	-	-	5.28	19,841.57	176,472.21	57,509.77	233,981.99	2.37
2016	13,885.59	-	-	97,153.33	3,871.76	41,908.11	3,958.10	3,062.34	2,612.37	5.85	-	17,351.52	183,808.97	64,801.55	248,610.52	6.25
2017	12,425.17	-	-	105,651.39	1,891.92	38,074.10	4,095.99	5,833.76	-	5.53	-	13,447.20	181,425.07	73,234.72	254,659.78	2.43
2018	10,728.68	-	-	113,902.01	3,210.32	38,762.01	4,012.81	7,573.83	-	4.21	-	10,504.60	188,698.46	78,386.92	267,085.38	4.88
2019	9,877.06	-	-	122,826.04	2,723.05	37,757.83	4,110.30	5,014.43	4,143.79	-	4.71	7,086.09	193,543.32	85,398.55	278,941.07	4.11
2020	11,948.81	-	-	114,284.12	2,360.18	30,097.84	4,186.37	3,043.16	6,696.28	-	5.57	5,070.12	177,692.43	97,158.74	274,851.17	-1.47
2021	11,568.71	175.70	124.89	114,518.49	2,775.66	33,025.12	4,216.71	3,104.72	7,969.77	-	5.63	5,488.49	182,973.88	106,496.69	289,470.57	5.32

*) Included project

Before 2021

- Mini Hydro and Micro Hydro are included in Hydro

- Gas Engine included in Diesel

Table 58 : Consumption of Fuel

2013 - 2021

Year	Oil (kilo litre)								Coal (ton)	Natural Gas (MMSCF)	Biomass	
	HSD	IDO	MFO	Bio Diesel	Olein	Bio HSD	HFO	Bio FAME	CPO	Total		
2013	6,291,667	3,221	1,179,604	-	-	-	-	-	-	7,474,492	39,601,034	409,890
2014	6,330,517	3,849	1,096,638	-	-	-	-	-	-	7,431,005	44,604,981	450,190
2015	4,372,743	2,244	904,266	-	-	-	-	-	-	5,473,892	48,125,940	456,494
2016	3,331,125	915	947,027	-	-	-	-	-	-	4,667,032	50,556,446	505,125
2017	2,579,123	580	718,462	-	-	-	-	-	-	3,598,223	54,711,847	447,072
2018	2,780,973	28	946,516	-	-	-	-	-	-	4,055,804	60,481,245	465,419
2019	2,748,816	329	371,618	-	-	-	-	-	-	3,118,762	67,008,829	479,776
2020	2,503,318	26	166,602	-	-	-	-	-	-	2,669,946	66,683,392	378,246
2021	617,916	329	171,313	-	-	1,537,538	120,023	643,724	1	3,090,844	68,474,268	397,765

Notes:

- Bio HSD, HFO, Bio FAME, CPO fuel usage data starting in 2019 and get into the HSD value

- Starting in 2021, the value of fuel usage for Bio HSD, HFO, Bio FAME and CPO is separated from HSD

- Biomass fuel usage data since 2020

Table 59 : Unit Price of Fuel 2013 - 2021

Year	Oil (Rp/litre) *				Coal	Natural Gas	Geothermal
	HSD	IDO	MFO	Average	(Rp/kg)	(Rp/MMSCF)	(Rp/kWh)
2013	9,446.64	9,149.48	7,604.40	9,127.05	938.56	92,185.45	858.48
2014	10,320.86	10,823.96	7,108.43	9,847.04	1,004.50	105,876.17	1,012.00
2015	6,951.23	6,400.37	5,086.56	6,395.47	662.46	105,917.94	748.71
2016	5,725.51	4,715.78	3,783.04	4,855.19	611.23	101,123.24	722.41
2017	7,239.41	5,639.44	5,358.30	6,259.85	782.61	106,480.22	737.81
2018	9,419.48	8,422.00	4,125.75	7,421.62	767.08	119,115.94	841.42
2019	7,854.87	7,039.06	6,427.18	7,568.67	766.60	115,521.08	828.71
2020	5,829.21	5,303.47	4,806.53	5,746.55	917.18	101,650.07	845.66
2021	7,206.85	5,952.44	6,846.57	7,841.61	763.65	88,104.56	831.85

*) Unit Price of Oil (HSD, IDO and MFO) including the transportation cost and biodiesel cost

Table 60 : Length of Transmission Lines (kmc) 2013 - 2021

Year	Voltage					Total	% Growth
	25 - 30 kV	70 kV	150 kV	275 kV	500 kV		
2013	4.16	4,112.36	28,851.27	1,374.30	5,053.00	39,395.09	3.41
2014	4.16	4,125.49	29,352.85	1,374.30	5,053.00	39,909.80	1.31
2015	4.16	4,279.05	30,833.64	1,512.71	5,053.00	41,682.56	4.44
2016	60.33	4,669.32	32,423.02	1,856.48	5,056.27	44,065.42	5.72
2017	100.95	5,035.05	35,801.96	2,889.25	5,073.79	48,901.00	10.97
2018	100.95	5,341.98	39,304.50	3,312.47	5,218.38	53,278.27	8.95
2019	100.95	5,397.06	44,563.86	3,647.65	5,249.52	58,959.05	10.66
2020	100.95	5,655.64	46,680.19	3,647.65	5,249.74	61,334.18	4.03
2021	100.95	5,878.97	48,733.87	3,647.65	6,445.35	64,806.79	5.66

Data Over Nine Years 2013 - 2021

Table 61 : Length of Medium and Low Voltage Lines (kmc)

2013 - 2021

Year	Medium Voltage			Total	Low Voltage
	6 - 7 kV	10 - 12 kV	15 - 20 kV		
2013	54.17	1.75	329,409.29	329,465.21	469,478.92
2014	10.52	44.00	331,184.58	331,239.10	490,944,15
2015	5.36	3.12	342,970.50	342,978.98	500,119,41
2016	5.43	3.12	359,738.69	359,747.24	527,493,83
2017	-	-	373,825.50	373,825.50	546,595,79
2018	-	-	388,953.99	388,953.99	564,505,52
2019	-	-	401,421.90	401,421.90	578,433,47
2020	-	-	414,800.15	414,800.15	591,465,00
2021	-	-	423,807.51	423,807.51	598,316,55

Data Over Five Years 2017 - 2021

Table 62 : Balance Sheet (million Rp)

Description	2021	2020	2019	2018	2017
FIXED ASSET					
- Total Fixed Asset	1,373,170,455	1,338,905,004	1,433,688,124	1,379,072,382	1,241,160,680
- Accumulated Despreciation	(113,164,854)	(102,773,842)	(215,711,010)	(241,773,450)	(181,888,400)
Total Fixed Asset (Net)	1,260,005,601	1,236,131,162	1,217,977,114	1,137,298,932	1,059,272,280
P D P & ATTB	167,052,758	165,757,325	182,708,004	199,179,301	145,296,149
Other Non-Current Assets	63,916,288	58,434,612	20,487,649	25,258,299	19,909,825
Receivables from Government	18,254,891	17,275,490	-	1,031,237	237,181
Investments in Associates and Joint Ventures	17,810,839	14,112,585	10,300,177	8,726,339	6,878,498
Defferred Tax Assets	264,705	195,289	2,215,396	7,578,386	9,566,473
CURRENT ASSETS					
- Cash & Bank	37,968,399	54,735,434	46,598,783	33,294,560	42,291,959
- Receivables from Government	8,300,000	819,067	45,426,981	23,173,464	7,588,977
- Temporary Investment	297,720	366,708	334,153	1,216,886	286,697
- Receivable	23,802,386	21,278,416	25,130,538	23,802,663	22,466,843
- Inventories	10,393,419	10,277,289	12,934,233	15,506,567	12,828,118
- Other Current Assets	5,149,451	9,676,404	20,941,985	16,421,111	8,334,657
Total Current Assets	85,911,375	97,153,318	151,366,673	113,415,251	93,797,251
TOTAL ASSETS	1,613,216,456	1,589,059,781	1,585,055,013	1,492,487,745	1,334,957,657
EQUITY	981,607,123	939,812,592	929,380,413	927,413,857	869,416,604
TOTAL EQUITY	981,607,123	939,812,592	929,380,413	927,413,857	869,416,604
LONG TERM LIABILITIES					
- Deffered Tax Liabilities	485,070,853	499,587,950	496,376,447	407,177,934	326,466,395
- Long Term Loan	45,576,375	31,746,600	28,121,544	13,420,136	2,066,363
- Other Long Term Liabilities	377,669,316	407,395,900	417,282,904	349,903,145	279,900,856
- Employee Benefit Liabilities	13,737,435	5,835,997	133,622	94,427	940,154
	48,087,727	54,609,453	50,838,377	43,760,226	43,559,022
SHORT TERM LIABILTIES					
- Trade Payables	146,538,480	149,659,239	159,298,153	157,895,954	139,074,658
- Short Term Loan	47,904,756	39,148,555	52,002,783	48,607,674	43,711,425
- Other Short Term Liabilities	41,537,787	45,016,344	36,890,128	38,363,012	37,095,101
- Employee Benefit Liabilities	46,774,944	56,993,558	59,461,604	65,051,710	49,705,205
	10,320,993	8,500,782	10,943,638	5,873,558	8,562,927
Total Long Term & Short Term Liabilities	631,609,333	649,247,189	655,674,600	565,073,888	465,541,053
TOTAL EQUITY & LIABILITIES	1,613,216,456	1,589,059,781	1,585,055,013	1,492,487,745	1,334,957,657

Data Over Five Years 2017 - 2021

Table 63 : Profit and Loss (million Rp)

Description	2021	2020	2019	2018	2017
OPERATION REVENUE					
- Electricity Sales	288,862,726	274,898,464	276,061,925	263,477.55	246,586.86
- Connection Fees	493,437	312,725	6,934,597	7,309.17	7,113.45
- Government Subsidy	49,796,949	47,988,114	51,711,774	48,101.75	45,738.22
- Competition Revenue	24,594,425	17,904,508	22,253,517	23,173.46	-
- Others	4,426,733	4,311,826	2,644,067	2,111.02	1,594.93
Total Operation Revenue	368,174,270	345,415,637	359,605,880	344,172.96	301,033.46
OPERATION COST					
- Electricity Purchase and Rented Generator	108,325,486	101,752,938	87,181,367	88,539.69	79,018.80
- Fuel & Lubricant Oil	118,419,490	106,014,285	136,084,482	137,266.68	116,947.82
- Maintenance	22,600,774	21,940,509	22,328,178	20,737.60	19,515.61
- Personnel	25,092,756	24,965,707	25,908,771	22,950.09	23,124.51
- Depreciation	41,441,271	39,142,580	35,318,071	30,744.71	29,160.60
- Others	7,239,348	7,192,146	8,620,069	7,950.12	7,706.75
Total Operation Cost	323,119,125	301,008,165	315,440,938	308,188.89	275,474.09
OPERATING PROFIT (LOSS)					
Other Income (Expenses) - Net	(4,921,682)	1,916,966	(3,667,666)	15,663.36	3,409.94
Other Profit (Loss) - Exchange Rate	2,676,145	(7,742,152)	9,486,326	(10,926.74)	(2,935.14)
Finance Income	787,231	1,125,519	755,103	804.32	1,066.84
Finance Expenses	(20,375,755)	(27,415,886)	(24,619,495)	(21,624.18)	(18,556.93)
PROFIT (LOSS) BEFORE TAX	23,221,084	12,291,919	26,119,210	19,900.84	8,544.07
TAX BENEFIT (EXPENSES)	(10,046,207)	(6,298,491)	(21,797,080)	(8,325.08)	(4,115.96)
PROFIT (LOSS) FOR THE YEAR	13,174,877	5,993,428	4,322,130	11,575.76	4,428.12

Table 64 : Fixed Asset & Depreciation (million Rp)

Year	Sal do	Accumulated Depreciation	Book Value
2017	1,241,160,680	(181,888,400)	1,059,272,280
2018	1,379,072,382	(241,773,450)	1,137,298,932
2019	1,433,688,124	(215,711,010)	1,217,977,114
2020	1,338,905,004	(102,773,842)	1,236,131,162
2021	1,275,858,119	(21,452,005)	1,254,406,114

Table 65 : Accounts Receivable (million Rp)**2017 - 2021**

Year	Public	Armed Forced	Non Armed Forced	Local Government	State Owned Enterprise	Total
2017	21,327,841.68	634,603.77	281,082.56	814,316.78	522,093.82	23,579,938.62
2018	22,841,366.21	499,429.27	302,785.81	946,184.73	501,965.20	25,091,731.22
2019	21,667,905.37	807,914.95	332,955.27	1,046,119.14	783,233.77	24,638,128.49
2020	18,955,712.94	960,996.15	283,989.82	855,399.46	491,381.49	21,547,479.86
2021	21,938,749.45	698,113.57	326,006.59	829,596.21	622,366.78	24,414,832.60

Table 66 : Sales, Accounts Receivable and Average Collection Rate**2017 - 2021**

Year	Sales (Million Rp)	Account Receivable (Million Rp)	Average (day)
2017	246,586,855.78	23,579,938.62	34.90
2018	263,477,551.39	25,091,731.23	34.76
2019	277,517,060.41	24,638,128.49	32.40
2020	260,963,721.43	21,547,479.86	30.14
2021	279,094,308.54	24,414,832.60	31.93

Data Over Five Years 2017 - 2021

Table 67 : Generation Cost (million Rp) *

2017 - 2021

Year	Hydro	Steam	Diesel	Gas Turbine	Geothermal	Combined Cycle	Sun	Total
2017	3,846,135.69	85,229,933.45	24,682,248.24	19,090,127.26	8,110,645.64	41,683,846.07	34,670.37	182,677,606.72
2018	3,780,662.15	94,704,941.11	30,008,498.29	18,562,012.79	9,434,039.90	50,340,853.90	32,302.56	206,863,310.70
2019	3,733,532.17	73,588,295.53	25,205,660.45	18,316,690.97	4,096,028.34	46,919,171.99	44,019.82	171,859,379.45
2020	3,251,636.89	66,240,919.95	17,214,040.78	14,595,312.58	4,272,648.63	35,826,463.19	48,797.69	141,401,022.03
2021	3,315,028.28	71,840,474.77	20,612,686.15	13,344,252.01	4,260,437.93	38,666,589.57	57,926.49	152,097,395.20

*) Generation operating cost are the cost of own generation and project

Table 68 : Average Generation Cost (Rp/kWh)

2017 - 2021

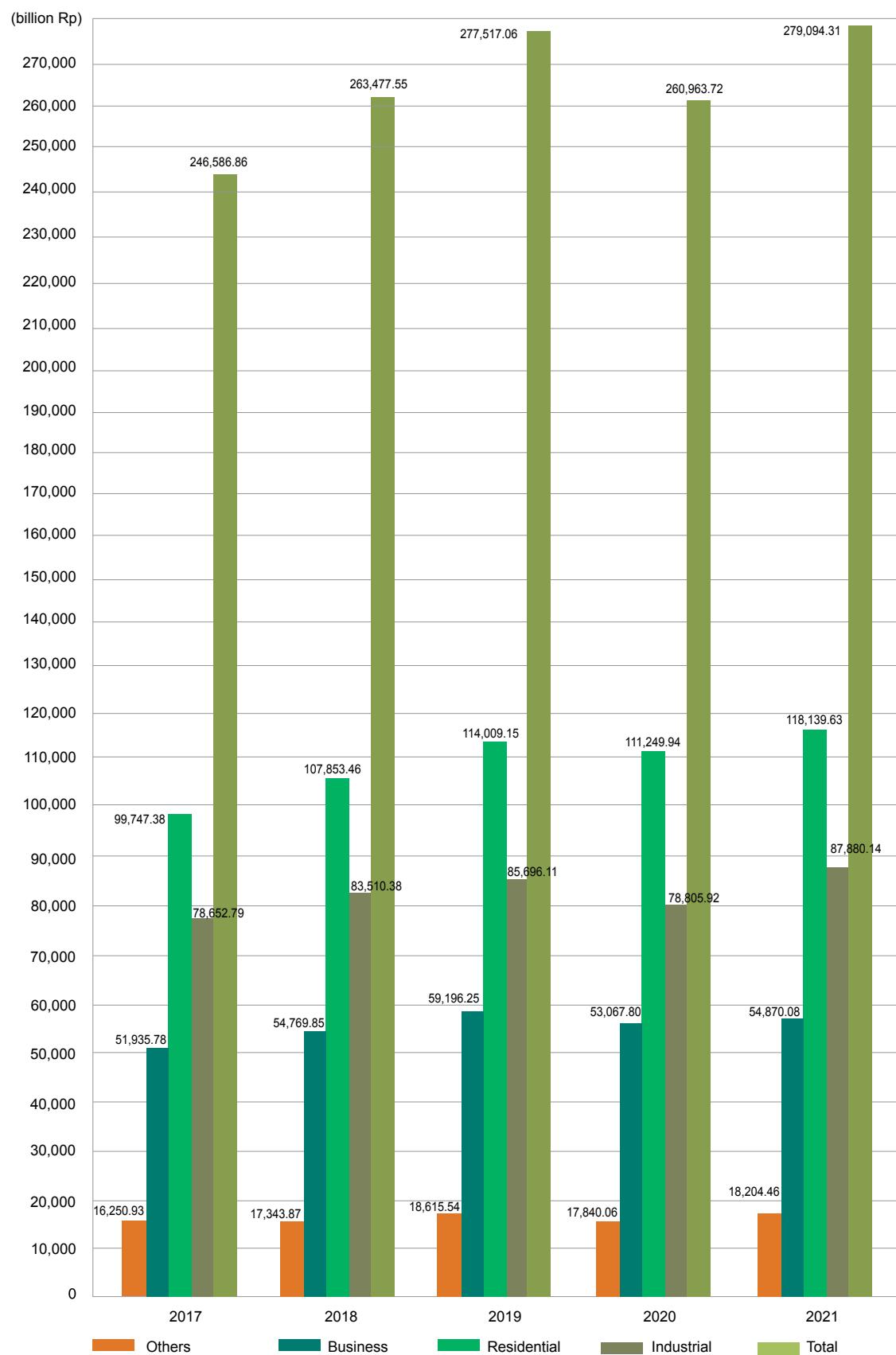
Year	Hydro	Steam	Diesel	Gas Turbine	Geothermal	Combined Cycle	Sun	Average
2017	309.54	806.71	1,879.85	10,090.35	1,980.14	1,094.81	6,269.51	1,087.51
2018	352.39	831.46	2,228.71	5,781.99	2,350.98	1,298.72	7,672.68	1,160.89
2019	599.71	653.12	3,308.26	2,570.03	1,191.25	1,357.75	11,317.97	2,999.73
2020	438.57	636.55	4,746.32	1,611.79	1,107.89	1,322.23	11,817.73	3,097.30
2021	398.28	667.88	5,905.80	1,247.92	107.15	126.09	1,284.44	1,391.08

Table 69 : Financial Ratios**2017 - 2021**

Indicator	Unit	2021	2020	2019	2018	2017
I. Financial Indicator						
- Cash Ratio	%	26.11	36.82	0.29	0.21	0.30
- Rentability Ratio	%	1.34	0.64	0.47	1.03	0.51
- Solvability Ratio	%	39.15	40.90	41.37	37.91	34.87
- Liquidity Ratio	%	58.63	64.92	95.02	72.29	67.44
II. Financial Covenant						
- CICR	Times	3.03	2.74	3.11	3.81	3.19
- Financial Liabilities to Total Assets	%	25.52	27.75	28.65	25.35	22.71
- EBITDA Interest Coverage Ratio	Times	4.38	3.16	3.32	3.50	3.05
III. Operating Activity (Financial)						
- Fixed Assets Turnover	Times	0.20	0.19	0.20	0.21	0.21
- Average Period of Receivable Collection	Day	28.48	30.89	32.35	32.05	32.70
- Receivable Turnover	Times	12.82	11.85	11.28	11.39	11.16
- Material Turnover	Times	3.80	3.16	5.02	0.98	1.07

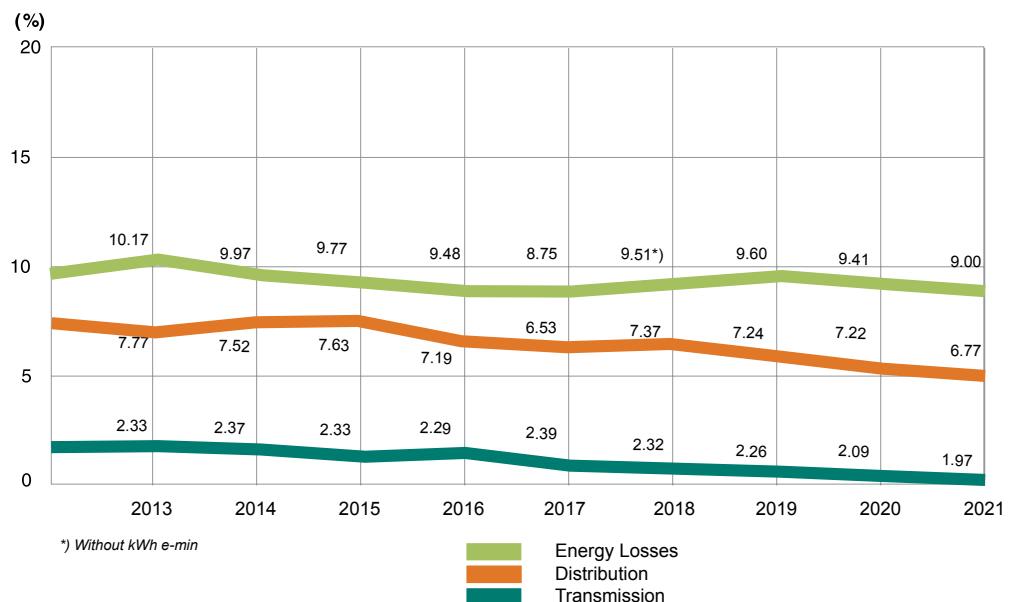
Data Over Five Years 2017 - 2021

Graph 5. Revenues (2017-2021)



Data Over Nine Years 2013 - 2021

Graph 6. Energy Losses (2013-2021)





End of Five Years
(Development Plant Data)

End of Five Year Development Plan Data

Table 70 : Number of Customers

2021

Type of Customer	End of FYDP I (1973/74)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Year 2021
- Residential	913,940	1,584,851	4,046,692	8,665,543	14,191,414	24,902,763	75,701,985
- Industrial	7,145	8,087	16,879	27,773	38,769	43,088	159,057
- Business	78,080	145,588	239,277	356,942	514,816	847,940	4,300,034
- Others	32,977	44,721	103,229	225,680	412,410	639,698	2,382,904
Total	1,032,142	1,783,247	4,406,077	9,275,938	15,157,409	26,433,489	82,543,980

Table 71 : Average Growth Rate of Number of Customer per Year (%)

2021

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2021
- Residential	3.05	11.64	20.62	16.45	8.00	10.97	5.07
- Industrial	(0.55)	2.51	15.85	10.47	4.20	1.62	6.27
- Business	7.17	13.27	10.45	8.33	6.53	11.89	6.88
- Others	10.75	6.28	18.21	16.93	10.36	8.94	6.07
Total	3.51	11.56	19.83	16.05	8.00	10.93	5.18

*) to the end of year 1999

Table 72 : Connected Capacity (MVA)

2021

Type of Costumer	End of FYDP I (1973/74)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Tahun 2021
- Residential	398.66	992.56	2,648.60	5,397.11	8,914.86	15,887.50	76,566.84
- Industrial	422.55	973.92	1,857.77	4,080.31	7,781.84	10,698.91	33,151.51
- Business	141.06	307.91	770.00	1,382.57	2,780.64	5,665.04	31,974.04
- Others	114.00	184.66	850.29	1,373.75	1,758.99	2,344.39	11,873.57
Total	1,076.27	2,459.05	6,126.66	12,233.74	21,236.33	34,595.84	153,565.96

End of Five Year Development Plan Data

Table 73 : Average Growth Rate of Connected Capacity per Year (%) 2021

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2021
- Residential	10.81	20.01	21.69	15.30	8.27	11.93	6.97
- Industrial	18.24	18.18	13.79	17.04	9.50	5.90	5.22
- Business	9.33	16.90	20.12	12.42	12.18	14.20	7.92
- Others	8.06	10.13	35.72	10.07	3.68	5.43	7.90
Total	12.81	17.97	20.03	14.83	8.74	9.73	6.77

*) to the end of year 1999

Table 74 : Energy Sold (GWh) 2021

Type of Customer	End of FYDP I (1973/74)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Year 2021
- Residential	1,077.30	1,962.20	4,291.50	7,274.63	13,140.74	24,865.45	115,370.05
- Industrial	596.00	1,443.40	3,435.90	9,052.24	19,560.98	27,995.54	80,904.45
- Business	220.90	430.90	1,002.50	1,740.14	3,774.97	8,655.96	44,440.85
- Others	320.80	450.40	1,269.80	1,925.83	2,485.34	3,744.46	16,918.91
Total	2,215.00	4,286.90	9,999.70	19,992.84	38,962.03	65,261.41	257,634.25

Table 75 : Average Growth Rate of Energy Sold per Year (%) 2021

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2021
- Residential	9.68	12.74	16.94	11.13	10.61	13.25	6.53
- Industrial	21.20	19.35	18.94	21.38	11.36	8.54	4.21
- Business	13.25	14.30	18.39	11.66	13.73	17.04	7.08
- Others	12.38	7.02	23.03	8.69	3.52	7.61	7.09
Total	12.96	14.12	18.46	14.86	10.70	11.09	5.78

*) to the end of year 1999

Table 76 : Energy Losses (%)**2021**

Function	First Year FYDP I (1974/75)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Year 2021
Transmission	3.90	3.50	3.90	3.01	2.54	2.35	1.97
Distribution	19.90	18.30	16.90	13.87	9.99	9.99	6.77
Total	23.80	21.80	20.80	16.88	12.53	12.34	8.59

Table 77 : Installed Capacity (MW)**2021**

Type of Generating	End of FYDP I (1973/74)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Year 2021
- Hydro*)	278.77	349.67	536.44	1,969.57	2,178.75	3,006.76	3,587.72
- Steam	225.00	556.25	1,556.25	3,416.95	4,690.60	6,770.60	20,365.00
- Gas Turbine	42.00	882.07	1,027.92	1,233.68	995.92	1,347.41	2,936.07
- Combined Cycle	-	-	-	-	3,411.31	6,560.97	11,408.00
- Geothermal	-	-	30.00	140.00	195.00	360.00	579.26
- Diesel**)	230.31	500.40	784.39	1,769.02	2,128.46	2,535.02	5,566.38
- Sun	-	-	-	-	-	-	21.34
- Wind	-	-	-	-	-	-	0.47
- Biomass	-	-	-	-	-	-	0.50
Total	776.08	2,288.38	3,934.99	8,529.22	13,600.05	20,580.76	44,464.75

*) Installed capacity of Mini Hydro and Micro Hydro are included in Hydro

**) In 2021 Installed Capacity of Gas Engine included in Diesel

Table 78 : Average Growth Rate of Installed Capacity per Year (%)**2021**

Type of Generating	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000 - 2021
- Hydro	9.90	2.90	10.72	29.71	2.00	5.81	0.83
- Steam	12.50	2.13	44.16	17.03	3.51	6.59	5.38
- Gas Turbine	-	81.57	4.40	3.72	(4.19)	7.58	4.34
- Combined Cycle	-	-	-	-	60.19	11.20	2.45
- Geothermal	-	-	-	36.08	6.85	11.25	2.29
- Diesel	3.90	14.91	11.19	17.66	3.47	3.88	3.79
Total	9.30	24.12	11.45	16.73	8.40	7.48	3.69

*) To the end of year 1999

End of Five Year Development Plan Data

Table 79 : Energy Production (GWh)

2021

Type of Generating	End of FYDP I (1973/74)	End of FYDP II (1978/79)	End of FYDP III (1983/84)	End of FYDP IV (1988/89)	End of FYDP V (1993/94)	Fifth Year of FYDP VI (1998)	Year 2021
Own Production :							
- Hydro*)	1,029.58	1,384.28	1,816.27	5,226.86	7,858.66	9,649.00	11,869.30
- Steam	713.45	1,523.10	7,365.49	14,218.38	21,784.23	30,512.37	114,518.49
- Gas Turbine	158.32	1,156.73	1,065.60	1,581.98	2,609.44	1,395.50	2,775.66
- Combined Cycle	-	-	-	-	7,794.75	24,940.78	33,025.12
- Geothermal	-	-	209.31	1,011.96	1,090.00	2,616.80	4,216.71
- Diesel	467.90	845.53	1,654.13	2,900.87	4,331.51	5,306.55	3,104.72
- Gas Engine	-	-	-	-	-	-	7,969.77
- Wind	-	-	-	-	-	-	-
- Sun	-	-	-	-	-	-	5.63
- Rented	-	-	-	-	-	543.61	5,488.49
Sub Total	2,369.25	4,909.63	12,110.81	24,940.05	45,468.59	74,964.61	182,973.89
Purchased	636.73	813.18	1,281.02	682.71	1,250.17	2,938.76	106,496.69
Total Production	3,005.98	5,722.82	13,391.83	25,622.75	46,718.76	77,903.37	289,470.57

*) Energy produced by Mini Hydro and Micro Hydro are included in Hydro

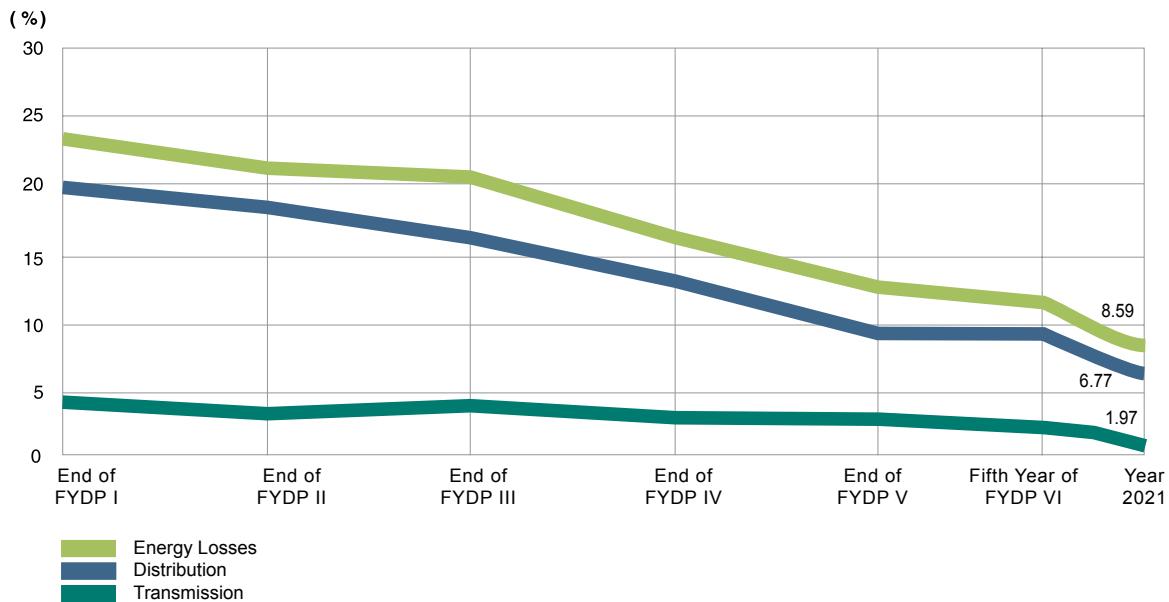
Table 80 : Average Growth Rate of Energy Production per Year (%)

2021

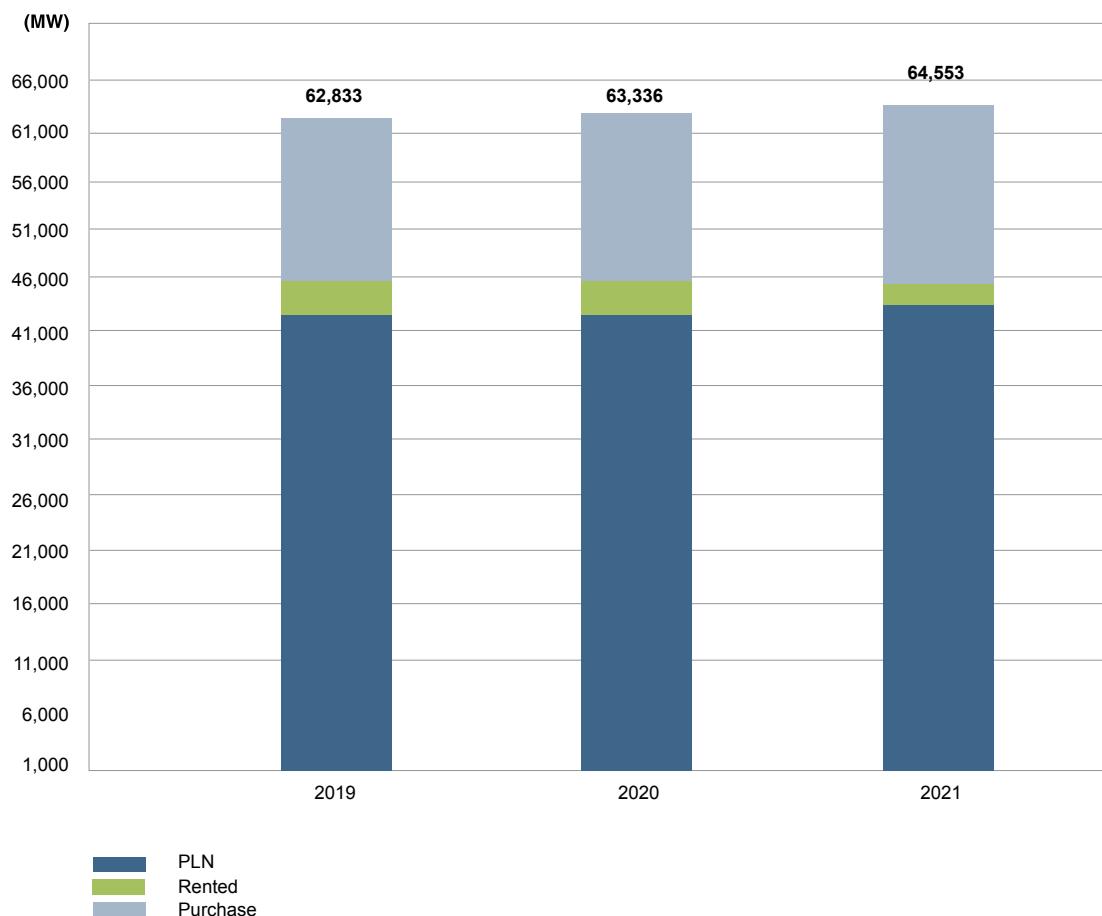
Production	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000 - 2021
Own Production :							
- Hydro	6.33	6.10	5.58	23.54	3.43	3.11	1.27
- Steam	20.05	16.37	37.05	14.06	5.73	8.05	5.34
- Gas Turbine	16.15	48.85	(1.63)	8.22	12.40	(8.61)	3.87
- Gombined Cycle	-	-	-	-	109.54	24.15	1.07
- Geothermal	-	-	-	37.05	1.60	17.30	2.24
- Diesel	12.18	12.56	14.36	11.89	6.53	3.66	(2.83)
- Rented	-	-	-	-	-	-	10.40
Sub Total	11.39	15.69	19.79	15.54	9.61	10.44	3.77
Purchased	11.19	5.01	9.52	(11.83)	8.38	23.86	12.41
Total Production	11.34	13.74	18.53	13.86	9.58	10.92	5.54

*) To the end of year 1999

Graph 7. Energy Losses

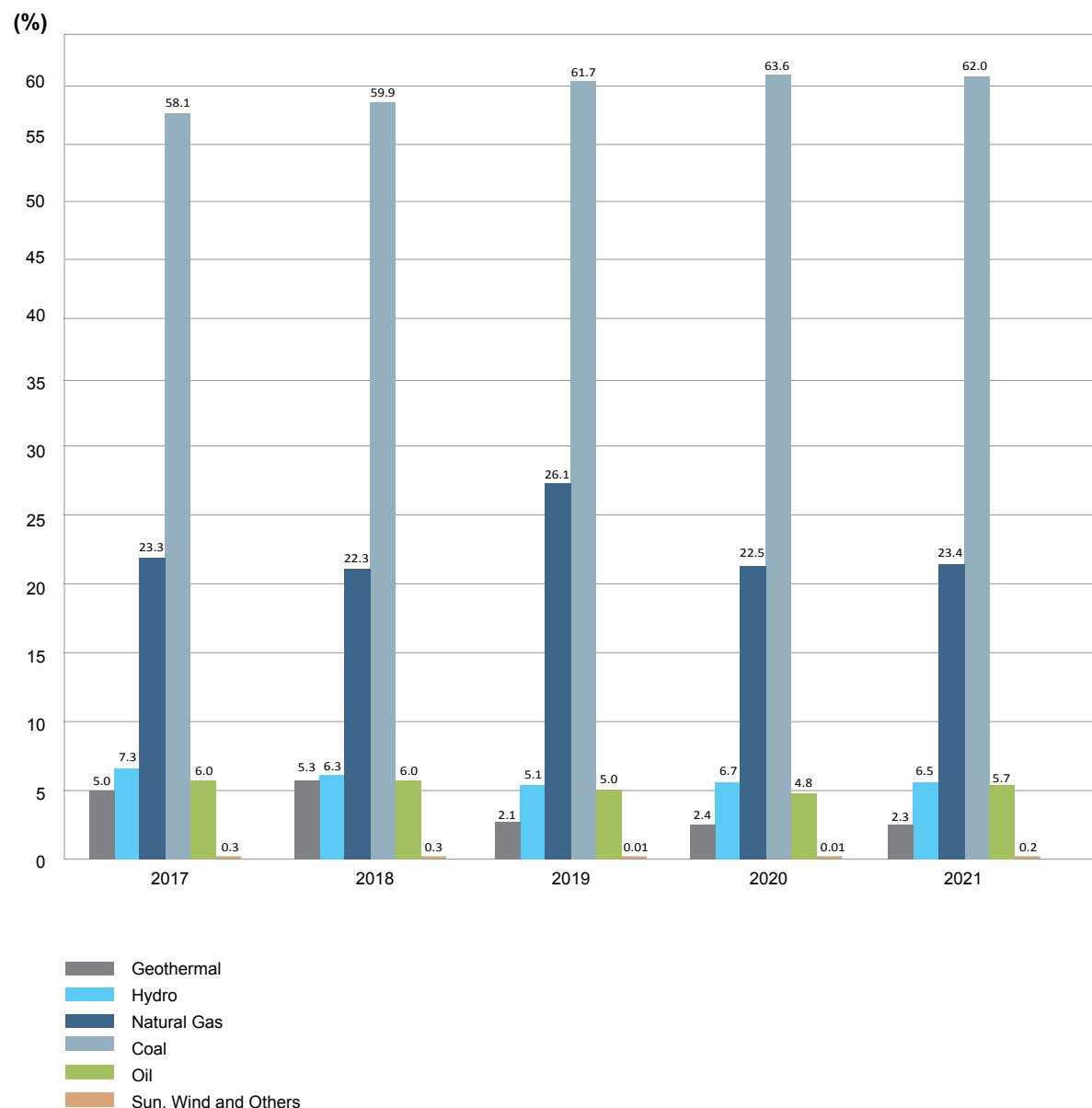


Graph 8. Installed Capacity of National

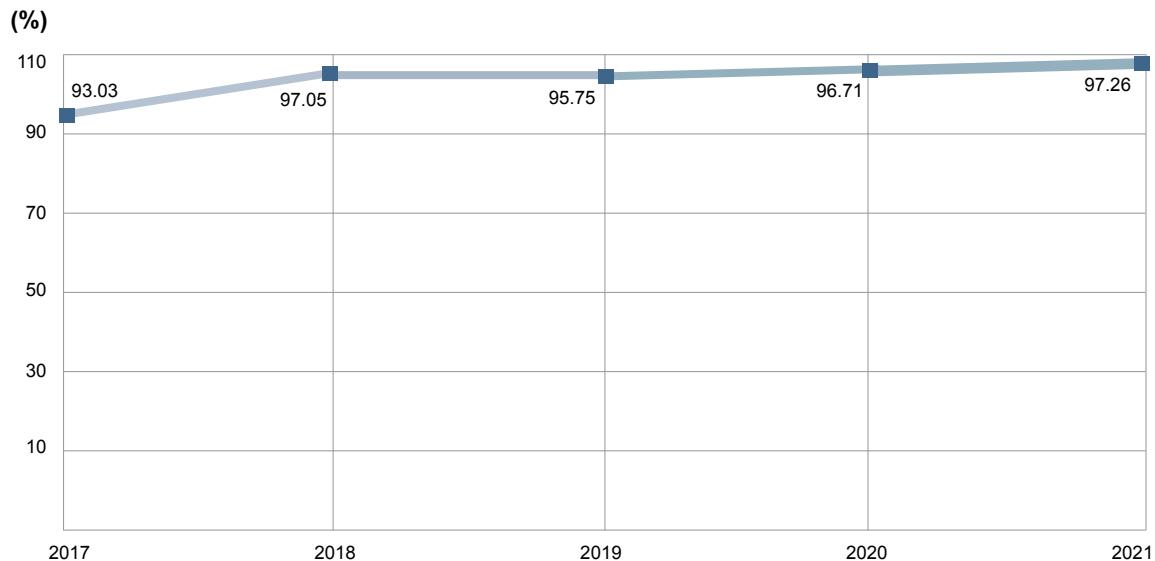


End of Five Year Development Plant Data

Graph 9. Energy Mix in 2017 - 2021

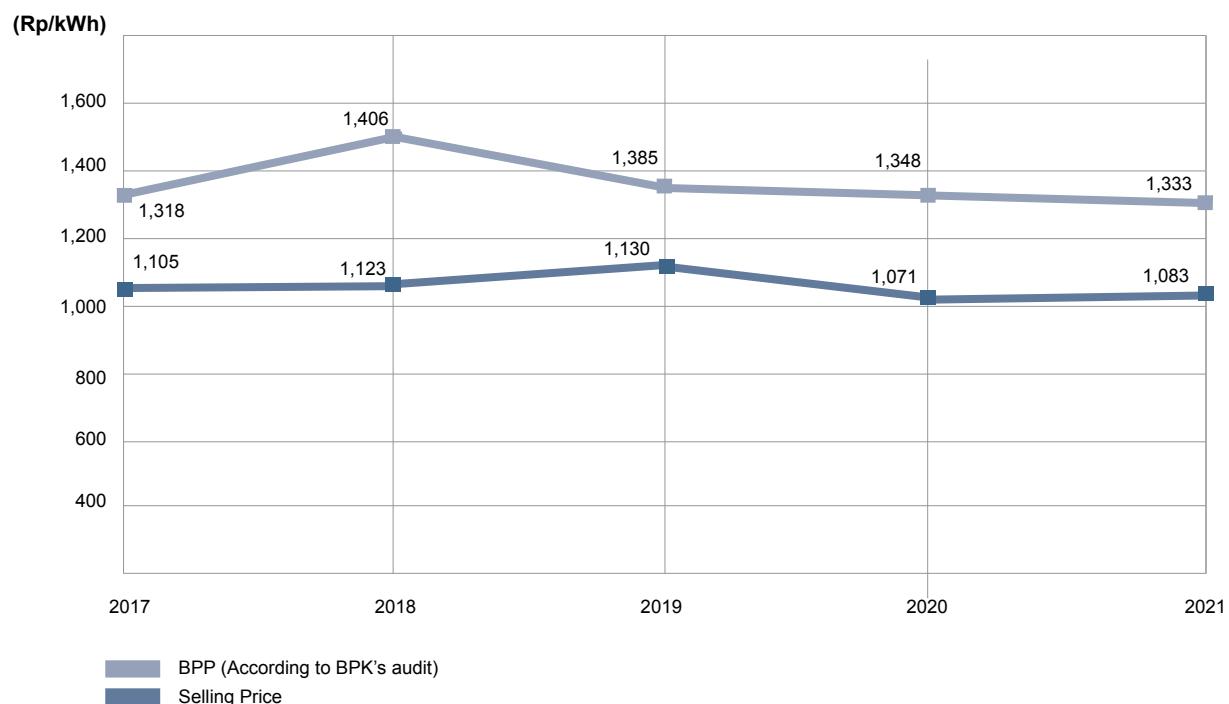


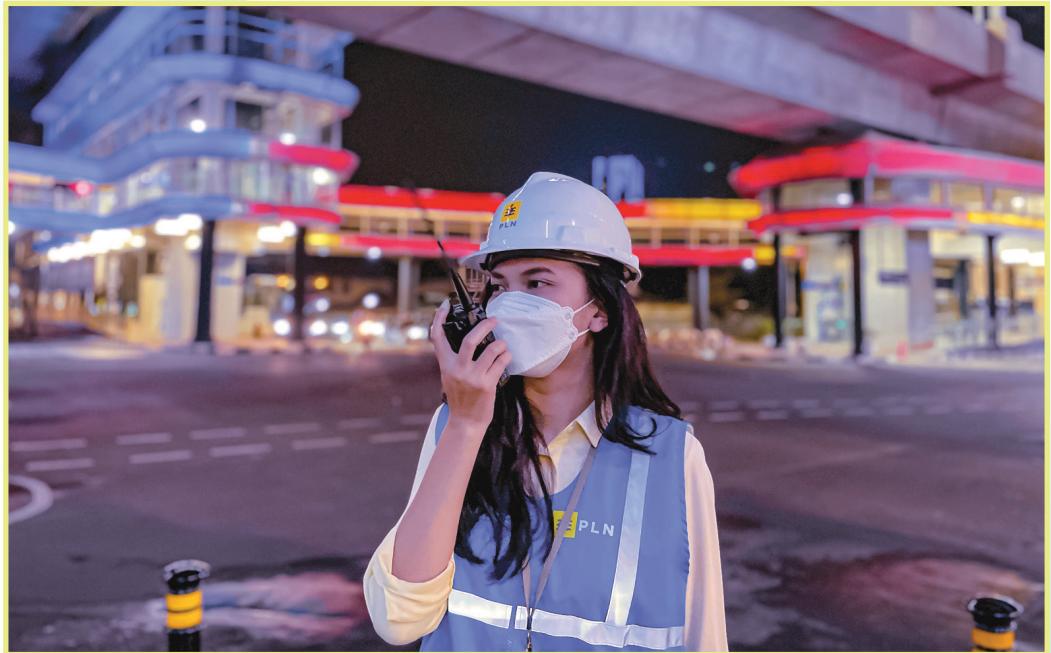
Graph 10. Electrification Ratio *)



*) Excluding non PLN Customers

Graph 11. Basic Cost of Electricity Production and Average Selling Price





Operational Regional of PLN

Operational Region and Location of PLN Region Offices





PLN Region Offices and Subsidiaries Address

PT PLN (Persero) UIW Aceh

Jl. Tgk. H. M. Daud Beureu-eh No. 172,
Banda Aceh, 23243

PT PLN (Persero) UIW North Sumatera

Jl. K.L. Yos Soedarno No. 284,
Medan 20115

PT PLN (Persero) UIW West Sumatera

Jl. Dr. Wahidin No. 8,
Padang 25121

PT PLN (Persero) UIW Riau and Riau Archipelago

Jl. Musyawarah, Kel. Labuh Baru Barat,
Kec. Payung Sekaki,
Pekanbaru, Riau 28295

PT PLN (Persero) UIW Bangka Belitung

Jl. Soekarno Hatta Km. 5,
Pangkalpinang 33171, Kep. Bangka Belitung

PT PLN (Persero) UIW South Sumatra, Jambi and Bengkulu

Jl. Kapten A. Rivai No. 37,
Palembang 30129

PT PLN (Persero) UIW West Kalimantan

Jl. Adi Sucipto Km. 7,3 Sei Raya,
Pontianak 78391

PT PLN (Persero) UIW South and Central Kalimantan

Jl. Panglima Batur Barat No. 1,
Banjarbaru 70711 – South Kalimantan

PT PLN (Persero) UIW East and North Kalimantan

Jl. MT. Haryono No. 384,
Balikpapan 76114

PT PLN (Persero) UIW North, Central Sulawesi and Gorontalo

Jl. Bethesda No. 32,
Manado 95116

PT PLN (Persero) UIW South, Southeast and West Sulawesi

Jl. Letjend. Hertasning Blok B, Kotak Pos 1206,
Panakukang, Makassar 90222

PT PLN (Persero) UIW Maluku and North Maluku

Jl. Diponegoro No. 2,
Amboin 97127

PT PLN (Persero) UIW West Nusa Tenggara

Jl. Langko No. 25 – 27,
Ampenan 83114, Mataram

PT PLN (Persero) UIW East Nusa Tenggara

Jl. Piet A. Tallo 101,
Kupang 85228

PT PLN (Persero) UIW Papua and West Papua

Jl. Jend. A. Yani No. 18,
Jayapura 99111 Kotak Pos 1045

PT PLN (Persero) UID Jakarta Raya

Jl. M.I. Ridwan Rais No. 1,
Jakarta 10110

PT PLN (Persero) UID West Java

Jl. Asia Afrika No. 63,
Bandung 40111

PT PLN (Persero) UID Banten

Jl. Jenderal Sudirman (Akses By Pass) No. 1,
Tangerang 15118

PT PLN (Persero) UID Central Java and

D.I. Yogyakarta

Jl. Teuku Umar No. 47,
Semarang 50234

PT PLN (Persero) UID East Java

Jl. Embong Trengguli No. 19 – 21,
Surabaya 60271

PT PLN (Persero) UID Bali

Jl. Letda. Tantular No. 1, Renon,
Denpasar 80234

PT PLN (Persero) UID Lampung

Jl. Z.A. Pagar Alam No. 05,
Bandar Lampung 35144

PT PLN (Persero) Education and Training Center

Jl. HR. Harsono RM No. 59, Pasar Minggu,
Jakarta 12550

PT PLN (Persero) Electricity Maintenance Center

Jl. Banten No. 10,
Bandung 40272

PT PLN (Persero) Electricity Research and Development Center

Jl. Duren Tiga No.102,
Jakarta 12760

PT PLN (Persero) Certification Center

Jl. Laboratorium, Duren Tiga,
Jakarta 12760

PT PLN (Persero) Construction Management Center

Jl. Slamet No. 1, Gajah Mungkur,
Semarang 50232

PLN Region Offices and Subsidiaries Address

PT PLN (Persero) UIK Southern Part of Sumatera
Jl. Demang Lebar Daun No. 375,
Palembang 30128

PT PLN (Persero) UIK Northern Part of Sumatera
Jl. Brigjen Katamso KM 5,5, No. 30 Titikuning,
Medan 20146

PT PLN (Persero) UIK Tanjung Jati B
Ds. Tubanan, Kec. Kembang, Kab. Jepara
Jawa Tengah 59453

PT PLN (Persero) UIP2B
Jl. JCC Cinere 16541,
Jakarta Selatan

PT PLN (Persero) UIP3B Sumatera
Jl. Musyawarah/Nangka Ujung, Kel. Labuh Baru Barat
Kecamatan Payung Sekaki,
Pekanbaru, Riau 28233

PT PLN (Persero) UIT Western Part of Java
Jl. JCC, Krakut Limo Cinere
Jakarta Selatan 16154

PT PLN (Persero) UIT Central Part of Java
Jl. Moch. Toha Km.4 Komp. PLN GI Cigereleng
Bandung 40255

PT PLN (Persero) UIT Eastern Part of Java and Bali
Jl. Suningat No.45, Taman Sidoarjo
Surabaya 61257

PT PLN (Persero) UIKL Kalimantan
Jl. Panglima Batur Barat No. 1, Banjarbaru
Kalimantan Selatan 70711

PT PLN (Persero) UIKL Sulawesi
Jl. Letjen Hertasning Blok B
Panakkukang, Makassar 90222

PT PLN (Persero) UIP Sumatera
Jl. R.A. Kartini No.23
Medan 20152

PT PLN (Persero) UIP Northern Part of Sumatera
Jl. Dr. Cipto No. 12
Medan 20152

PT PLN (Persero) UIP Southern Part of Sumatera
Jl. Residen Abdul Rozak No. 2180
Sekojo, Palembang 30118

PT PLN (Persero) UIP Central Part of Sumatera
Komplek Citra Garden Blok R1 No. 7-11 dan R2 No. 1-3
Jl. Purwodadi Panam, Kel. Sidomulyo Barat,
Kec. Tampan, Kota Pekanbaru, Riau 28294

PT PLN (Persero) UIP Western Part of Java
Jl. Ehave – Gandul, Kec. Cinere
Depok 16514

PT PLN (Persero) UIP Central Part of Java I
Jl. Karawitan No. 32 Turangga, Lengkong
Bandung 40264

PT PLN (Persero) UIP Eastern Part of Java and Bali I
Jl. Ketintang Baru I No.1-3
Surabaya 60231

PT PLN (Persero) UIP Nusa Tenggara
Jl. Yos Sudarso No. 2A
Mataram, West Nusa Tenggara 83114

PT PLN (Persero) UIP Western Part of Kalimantan
Jl. Letjen Suprapto No. 50-G
Pontianak, West Kalimantan 78121

PT PLN (Persero) UIP Eastern Part of Kalimantan
Jl. MT Haryono No. 384
Kel. Gunung Bahagia, Kec. Balikpapan Selatan
Kota Balikpapan, East Kalimantan 76114

PT PLN (Persero) UIP Southern Part of Sulawesi
Jl. Letjend Hertasning, Panakkukang
Makassar 90222

PT PLN (Persero) UIP Maluku and Papua
Jl. Baru Kotaraja, Kelurahan Wai Mhorock,
Kecamatan Abepura
Jayapura, Papua 99225

PT Indonesia Power
Jl. Jend. Gatot Subroto Kav. 18,
South Jakarta 12950

PT Pembangkitan Jawa Bali (PJB)
Jl. Ketintang Baru I, No. 11,
Surabaya 60231

PT Pelayanan Listrik Nasional Batam
Jl. Engku Putri No. 3, Batam Center,
Batam 29432

PT Indonesia Comnets Plus (ICON+)

Kawasan PLN Cawang
Jl. Mayjend. Sutoyo No.1,
Cililitan, East Jakarta, 13640

PT Prima Layanan Nasional Enjiniring

Jl. Ciputat Raya No. 123
Pondok Pinang, Kebayoran Lama,
Jakarta 12310

PT Energy Management Indonesia

Gedung Graha Pura Lantai 3
Jl. Pancoran Indah I No. 52, Pancoran,
South Jakarta, 12780

PT Pelayanan Listrik Nasional Tarakan

Jl. MT. Haryono, Komplek Balikpapan Baru,
Blok A5, No. 1-5, Balikpapan,
East Kalimantan 76114

PT PLN Batubara

Jl. Warung Buncit Raya No. 10
Kalibata, South Jakarta 12740

PT PLN Gas dan Geothermal

Gedung Kyai Maja, Office Tower Lt. 8
Jl. Kyai Maja No. 1, Kebayoran Baru,
South Jakarta 12120

PT Pelayaran Bahtera Adhiguna

Jl. Kalibesar Timur No. 10 – 13
Jakarta 11110

PT Haleyora Power

Kindo Square Blok A15-16
Jl. Duren Tiga Raya No. 101

Majapahit Holding BV

Herengracht 450, 1017 CA Amsterdam,
The Netherlands

PT Mandau Cipta Tenaga Nusantara

Gedung Sentral Senayan II
Jl. Asia Afrika No. 8
Kel. Gelora, Kec. Tanah Abang, Central Jakarta



PLN

PT PLN (Persero)

Jl. Trunojoyo Blok M1 - No.135
Kebayoran Baru, Jakarta 12160
Telp. (021) 7251234, 7250550, 7261122
Fax. (021) 7221330
www.pln.co.id