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# STATISTICS PLN 2020

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# STATISTICS PLN

## 2020

## Preface

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Statistics PLN 2020 contains information on performances of PT PLN (Persero) and its Subsidiary Companies for Calender Year 2020 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 2021

PT PLN (Persero)

# Summary

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## **1. Generation**

### ***Installed Capacity***

At the end of Desember 2020 PT PLN (Persero) and Subsidiary Companies owned and operated about 6,059 generating units with total installed capacity of 44,174.79 MW, of which 30,970.93 MW (64.24%) was installed in Java. The total installed capacity increased 0.80% compared to the end of December 2019.

The total generating plant capacity broken down by type of power plant as follow : Steam Turbine 20,277.63 MW (32.02%), Combine Cycle 11,232.20 MW (17.73%), Diesel 5,547.88 MW (8.76%), Hydro 3,584.07 MW (5.66%), Gas Turbine 2,936.07 MW (4.64%), Geothermal 579.26 MW (0.91%), Solar Cell and Wind 17.18 MW (0.03%).

Total installed capacity included rental and IPP were 63,336.12 MW.

### ***Peak Load\****

The system peak load for the calendar year 2020 was 40,059.74 MW, decreased 3.87% over the previous year. The peak load for the Java Bali system was 24,420 MW. This is down 8.40 % over the previous year.

### ***Energy Production and Purchase***

The own energy production throughout the year 2020 was 177,692.43 GWh. Of the energy production, 69.86% was produced by PT PLN (Persero) Holding, and 30.14% 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 CY 2020 was 274,851.18 GWh. Of this energy production, the energy purchased from other utilities outside PLN amounted 97,158.74 GWh (35.35%). This was increased 12,640.00 GWh or 14.96% over the previous year.

## **2. Transmission and Distribution**

At the end of CY 2020, the total transmission lines was 61,334.18 kmc of which about 5,249.74 kmc was 500 kV, 3,647.65 kmc was 275 kV, 46,680.19 kmc was 150 kV, 5,655.64 kmc was 70 kV and 100.95 kmc was 25 and 30 kV transmission levels. The total length of distribution lines amounted of 1,006,265.15 kmc of which about 414,800.15 kmc was medium voltage lines and 578,433.47 kmc was low voltage lines.

The total capacity of substation transformers operated was 150,038 MVA, increased by 3.90% over the previous year. The total substation transformers was 2,203 unit. This consisted of 77 substation transformers with 500 kV system, 38 substation transformers with 275 kV system, 1,822 substation transformers with 150 kV system, 264 substation transformers with 70 kV system and 2 substation transformers with < 30 kV system.

Total capacity of distribution substation transformers increased by 4.25% to be 61.556 MVA and the total substation transformers increased by 3.84% to be 527,544 units

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

# **Summary**

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## **3. Energy Sales**

PLN's total energy during the year 2020 was 243,582.75 GWh. Among group of customers, energy sold to Residential was the major share, consuming 112,156 GWh (46.04%) followed by Industry 72,240 GWh (29.66%), Commercial 42,819 GWh (17.58%), and Others (social, government office building, and public street lighting) 16,368 GWh (6.71%).

Total number of customers was 79,000,033 at the end of 2020. This was up 4.35% from the end of 2019.

PLN's average power rate per kWh throughout the CY 2020 was 1,071 Rp/kWh, was decreased compared previous year of 1,130.00 Rp/kWh.

## **4. Energy Losses**

During the CY 2020, energy losses were 9.15%, consisting of 2.08% transmission losses and 7.22% distribution losses. This was better than the previous year 9.32%.

## **5. Electrification Ratio**

With the growth of total number of residential customers from 69,619,877\*\*) at the end of CY 2019 to 72,606,681 at the end of 2020, the electrification ratio reached around 96,71%.

## **6. Financial**

In CY 2020, total operation revenues reached Rp. 345,415,637 million out of which electric revenues came to Rp. 274,898,464, connection fees Rp. 312,725 million, government electricity subsidy Rp. 47,988,114, compensation income 17,904,508 and other operation revenues Rp. 4,311,826 million.

Total operation cost amounted Rp. 301,008,165 million, Government subsidy Rp. 47,988,114 million, and compensation income of Rp. 17,904,508 million, operating profit after subsidies was Rp. 44,407,472 million, an increase compared to the achievement of operating profit in 2019 which amounted to Rp.44,164,942 million.

The total asset amounted to approximately Rp. 1,589,059,781 million, increased 0.25 % from the previous year.

## **7. Human Resources**

By the end of December 2020, the total number of PLN employees was 53,385 employee. Employees productivity was 4,562 MWh/employee and 1,480 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

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## 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.

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

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100 kms 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

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## 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 2020 means one calendar year as from 1 January 2020 to 31 December 2020.

## 5. Abbreviations

Hydro	: Hydro Power Plant	MMSCF	: $10^6$ Standard Cubic Foot (MM= $10^6$ )
Steam	: Steam Power Plant	MMBTU	: $10^6$ British Thermal Unit (MM= $10^6$ )
Gas Turbine	: Gas Turbine Power Plant	HSD	: High Speed Diesel Oil
Combined Cycle	: Combined Cycle Power Plant	IDO	: Intermediate Diesel Oil
Diesel	: Diesel Power Plant	MFO	: Marine Fuel Oil
Geothermal	: Geothermal Power Plant	SAIDI	: System Average Interruption Duration Index
Gas Machine	: Gas Machine Power Plant	SAIFI	: System Average Interruption Frequency Index
Solar	: Solar Power Plant	Dist.	: Distribution
Wind	: Wind Power Plan	G & T	: Generation & Transmission
VA	: volt-ampere	Gov. Office Building	: Government Office Building
MVA	: mega-volt-ampere	Publ. Street	: Public Street Lighting
kW	: kilowatt	PJB	: Java Bali Generation Company
MW	: megawatt	P3B	: Transmission and Control Centre
kWh	: kilowatt-hour	SOD	: System Outage Duration
MWh	: megawatt-hour	SOF	: System Outage Frequency
GWh	: gigawatt-hour	n.a	: not available
kmc	: kilometer of circuit		
MSCF	: $10^3$ Standard Cubic Foot (M= $10^3$ )		

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**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.

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## PLTS Oelpuah

Photo: Dodi



# Annual Data 2020



# Annual Data 2020

**Table 1 : Power Balance (MW)**

**2020**

PLN Operational Unit/Province	Installed Capacity*)	Rated Capacity*)	Peak Load
UIW Aceh	177.80	134.17	134.17
UIW North Sumatera	106.74	105.39	112.99
UIW West Sumatera	77.04	72.70	53.05
UIW Riau and Riau Archipelago	316.41	241.87	177.98
- Riau	194.81	148.00	105.32
- Riau Archipelago	121.61	93.87	72.66
UIW South Sumatera, Jambi and Bengkulu	235.52	182.95	142.44
- South Sumatera	117.06	111.05	85.19
- Jambi	46.08	29.90	22.00
- Bengkulu	72.38	42.00	35.25
UIW Bangka Belitung	349.13	290.88	263.16
UID Lampung	44.46	40.77	16.00
UIW West Kalimantan	109.23	82.50	42.55
UIW South and Central Kalimantan	62.28	42.49	17.93
- South Kalimantan	18.68	13.41	6.81
- Central Kalimantan	43.60	29.08	11.12
UIW East and North Kalimantan	94.93	68.70	51.86
UIW N, C Sulawesi, and Gorontalo	277.93	186.15	150.43
- North Sulawesi	62.42	40.25	28.20
- Gorontalo	22.27	14.82	14.82
- Central Sulawesi	193.23	131.09	107.41
UIW of S, SE and W Sulawesi	104.38	87.11	78.26
- South Sulawesi	64.03	59.91	56.45
- Southeast Sulawesi	37.59	25.94	21.81
- West Sulawesi	2.77	1.26	-
UIW Maluku and North Maluku	543.18	367.72	231.92
- Maluku	414.44	297.75	174.34
- North Maluku	128.74	69.97	57.58
UIW Papua and West Papua	619.69	515.66	378.67
- Papua	160.14	118.68	87.52
- West Papua	459.55	396.98	291.15
UID Bali	8.65	4.94	3.49
UIW West Nusa Tenggara	635.44	550.60	508.46
UIW East Nusa Tenggara	502.36	326.93	142.40
PT PLN Batam	669.07	562.23	506.71
UIK Northern Part of Sumatera	4,552.87	3,474.12	2,710.54
UIK Southern Part of Sumatera	2,946.52	2,545.87	1,862.24
UIP3B Sumatera	3,073.00	2,720.81	2,746.23
UIKL Kalimantan	3,766.94	3,116.42	2,599.74
UIKL Sulawesi	3,159.69	2,800.66	2,614.76
<b>Outside Java</b>	<b>22,433.27</b>	<b>18,521.64</b>	<b>15,545.95</b>
UID East Java	59.67	44.30	34.85
UID of Central Java and Yogyakarta	34.48	32.34	27.54
- Central Java	33.70	31.69	27.10
- D.I. Yogyakarta	0.78	0.65	0.44
UID West Java	110.33	110.33	79.37
UID Banten	16.34	16.53	12.56
PT Indonesia Power	9,265.40	8,276.83	7,124.11
UID Jakarta Raya	-	-	-
PT PJB	7,021.64	6,386.82	5,926.79
PJB Sulawesi	68.04	62.20	51.83
UIP2B	9,547.02	5,249.00	-
UIK Tanjung Jati B	2,840.00	2,643.80	1,330.36
UIK Western Part of Java	5,659.09	5,283.17	4,474.84
UIK Central Part of Java	3,572.00	3,228.00	3,404.00
UIK Eastern Part of Java, Bali and Nusra	2,491.00	2,276.00	1,954.04
<b>Java</b>	<b>40,685.01</b>	<b>33,609.32</b>	<b>24,420.29</b>
UIW Papua and Papua Barat	115.95	90.00	77.50
UIP Northern Part of Sulawesi	6.00	6.00	6.00
UIP Southern Part of Sulawesi	10.00	10.00	10.00
UIP Eastern Part of Kalimantan	7.00	-	-
UIP Nusa Tenggara	78.90	26.10	-
<b>Generation Project</b>	<b>217.84</b>	<b>132.10</b>	<b>93.50</b>
<b>Indonesia</b>	<b>63,336.12</b>	<b>52,263.06</b>	<b>40,059.74</b>

\*) PLN's Power Plant, Rented and IPP

# Annual Data 2020

**Table 2 : Energy Balance**

PLN Operational Unit/Province	Purchase from Outside PLN	Project (GWh) *)	Received from Other Unit (GWh)	Own Production (GWh)	Rental (GWh)	Own Use Central		Netto Production (GWh)	Own Use Sub-station Transformer (GWh)	Transformer (%)
						(GWh)	(%)			
UIW Aceh	69.52	-	3,060.84	154.43	68.73	2.38	1.06	3,351.15	-	-
UIW North Sumatera	487.94	-	12,363.56	4.78	-	-	-	12,856.28	-	-
UIW West Sumatera	211.01	-	3,674.15	19.44	-	0.68	3.49	3,903.91	-	-
UIW Riau and Riau Archipelago	33.77	-	5,818.53	474.30	323.36	7.52	0.94	6,642.43	0.70	0.01
UIW South Sumatera, Jambi and Bengkulu	816.91	-	9,054.96	12.02	122.62	-	-	10,006.51	-	-
UIW Bangka Belitung	330.86	-	-	793.91	225.81	76.09	7.46	1,274.48	1.47	0.12
UID Lampung	32.25	-	5,554.26	1.13	-	-	0.10	5,587.64	-	-
UIW West Kalimantan	53.49	-	2,807.47	101.86	67.45	4.57	2.70	3,025.69	-	-
UIKL Kalimantan	6,071.12	-	255.78	5,785.27	506.55	536.54	8.53	12,082.19	8.72	0.07
UIW South and Central Kalimantan	2.17	-	4,692.64	70.95	-	1.19	1.68	4,764.57	-	-
UIW East and North Kalimantan	222.68	23.14	4,305.76	32.52	4.99	0.46	1.23	4,588.63	-	-
UIW N, C Sulawesi, and Gorontalo	201.06	8.08	3,344.35	219.32	335.99	7.11	1.28	4,101.69	-	-
UIW S, SE and W Sulawesi	325.12	-	7,654.38	31.67	-	0.68	2.14	8,010.50	-	-
UIKL Sulawesi	6,644.76	63.07	31.64	4,445.12	412.20	357.99	7.37	11,238.79	7.77	0.07
UIW Maluku and North Maluku	348.90	-	-	593.95	328.83	27.87	3.02	1,243.80	3.38	0.27
UIW Papua and West Papua	308.82	259.36	-	882.79	474.40	34.55	2.55	1,890.82	0.55	0.03
UID Bali	6.76	-	5,110.20	0.01	-	0.02	235.66	5,116.95	-	-
UIW West Nusa Tenggara	452.16	43.08	-	1,640.22	249.55	118.08	6.25	2,266.93	1.36	0.06
UIW East Nusa Tenggara	336.63	12.33	-	658.88	246.99	64.18	7.08	1,190.66	1.06	0.09
PT PLN Batam	2,077.77	-	-	970.93	-	25.35	2.61	3,023.35	1.05	0.03
UIK Northern Part of Sumatera	245.64	-	76.35	11,554.58	1,302.46	936.56	7.28	12,242.46	-	-
UIK Southern Part of Sumatera	476.02	-	64.16	11,018.88	400.22	756.16	6.62	11,203.11	-	-
UIP3B Sumatera	14,927.57	94.59	24,822.58	-	-	-	-	39,844.74	25.51	0.06
Outside Java	34,682.93	503.65	-	39,466.97	5,070.12	2,957.99	6.64	76,765.68	51.58	0.07
UID East Java	15.49	-	39,480.68	115.53	-	1.47	1.27	39,610.23	-	-
UID Central Java and Yogyakarta	122.50	-	29,607.88	-	-	-	-	29,730.38	-	-
UID West Java	372.38	-	52,503.70	-	-	-	-	52,876.08	-	-
UID Jakarta Raya	-	-	35,271.52	-	-	-	-	35,271.52	-	-
UID Banten	58.38	-	24,777.66	1.04	-	-	-	24,837.08	-	-
PJB Sulawesi	-	-	-	2.05	-	0.05	2.38	2.00	-	-
PT Indonesia Power	-	-	-5.09	34,770.26	-	1,505.27	4.33	33,259.89	-	-
PT PJB	-	-	-2.42	17,813.76	-	698.72	3.92	17,112.62	-	-
UIP2B	61,267.95	135.48	126,339.08	-	-	-	-	187,742.50	99.60	0.05
UIK Tanjung Jati B	-	-	12.31	18,721.05	-	1,201.24	6.42	17,532.11	-	-
UIK Western Part of Java	-	-	122.94	25,483.56	-	1,257.04	4.93	24,349.46	-	-
UIK Central Part of Java	-	-	91.07	23,320.29	-	1,362.45	5.84	22,048.90	-	-
UIK Eastern Part of Java, Bali and Nusra	-	-	56.97	12,927.82	-	747.93	5.79	12,236.86	-	-
Java	61,836.69	135.48	-	133,155.35	-	6,774.19	5.09	188,353.33	99.60	0.05
Indonesia	96,519.61	639.13	-	172,622.32	5,070.12	9,732.18	5.48	265,119.00	151.18	0.06

\*) Production in Project using kWh Netto

\*\*) Include Other Unit PLN

Transmission Losses		Send Other Unit**)	Send to Distribution (GWh)	Own Use				Energy Losses & Own Use		Energy Consumption ***)	
(GWh)	(%)			Distr. Substation	(GWh)	(%)	Distr. Losses	(GWh)	(%)	(GWh)	(%)
-	-	128.78	3,222.37	29.85	0.89	289.28	8.98	289.28	8.63	319.12	9.52
-	-	505.87	12,350.41	116.87	0.91	1,232.63	9.98	1,232.63	9.59	1,349.50	10.50
-	-	263.69	3,640.22	2.08	0.05	252.36	6.93	252.36	6.46	254.44	6.52
6.52	0.10	235.35	6,399.87	37.70	0.57	577.49	9.02	584.01	8.79	621.71	9.36
-	-	724.15	9,282.36	10.12	0.10	1,071.61	11.54	1,071.61	10.71	1,081.73	10.81
9.68	0.76	-	1,263.33	-	-	66.19	5.24	75.86	5.95	75.86	5.95
-	-	30.76	5,556.88	65.78	1.18	604.24	10.87	604.24	10.81	670.01	11.99
-	-	15.47	3,010.22	1.46	0.05	328.56	10.91	328.56	10.86	330.02	10.91
272.71	2.26	11,800.77	-	-	-	-	-	272.71	2.26	272.71	2.26
-	-	1.38	4,763.19	0.46	0.01	393.07	8.25	393.07	8.25	393.53	8.26
-	-	244.03	4,344.60	0.10	-	294.02	6.77	294.02	6.41	294.12	6.41
-	-	16.91	4,084.77	2.46	0.06	398.90	9.77	398.90	9.73	401.36	9.79
-	-	15.82	7,994.68	5.24	0.07	665.28	8.32	665.28	8.31	670.52	8.37
195.44	1.74	11,003.62	31.96	-	-	31.96	100.00	227.40	2.02	227.40	2.02
4.44	0.36	-	1,235.98	11.91	0.96	103.30	8.36	107.74	8.66	119.65	9.62
3.58	0.19	-	1,886.69	24.49	1.30	207.74	11.01	211.31	11.18	235.80	12.47
-	-	-	5,116.95	8.55	0.17	279.01	5.45	279.01	5.45	287.56	5.62
19.90	0.88	-	2,245.67	0.22	0.01	133.76	5.96	153.65	6.78	153.88	6.79
16.60	1.39	-	1,173.00	0.12	0.01	52.25	4.45	68.86	5.78	68.97	5.79
5.49	0.18	464.27	2,552.53	2.13	0.07	107.13	4.20	112.62	3.73	114.75	3.80
-	-	12,242.46	-	-	-	-	-	-	-	-	-
-	-	11,203.11	-	-	-	-	-	-	-	-	-
1,090.03	2.74	38,729.20	-	-	-	-	-	1,090.03	2.74	1,090.03	2.74
1,624.37	2.12	-	80,155.67	319.55	0.42	7,088.77	8.84	8,713.14	11.35	9,032.69	11.77
-	-	-	39,610.23	42.58	0.11	2,478.62	6.26	2,478.62	6.26	2,521.20	6.37
-	-	0.35	29,730.03	22.04	0.07	1,965.58	6.61	1,965.58	6.61	1,987.62	6.69
-	-	383.08	52,493.00	121.06	0.23	3,496.90	6.66	3,496.90	6.61	3,617.96	6.84
-	-	1,198.68	34,072.84	119.92	0.34	2,445.42	7.18	2,445.42	6.93	2,565.34	7.27
-	-	1,617.08	23,220.00	84.45	0.34	1,254.60	5.40	1,254.60	5.05	1,339.05	5.39
-	-	2.00	-	-	-	-	-	-	-	-	-
-	-	33,259.89	-	-	-	-	-	-	-	-	-
-	-	17,112.62	-	-	-	-	-	-	-	-	-
3,896.67	2.08	183,746.24	-	-	-	-	-	3,896.67	2.08	3,896.67	2.08
-	-	17,532.11	-	-	-	-	-	-	-	-	-
-	-	24,349.46	-	-	-	-	-	-	-	-	-
-	-	22,048.90	-	-	-	-	-	-	-	-	-
-	-	12,236.86	-	-	-	-	-	-	-	-	-
3,896.67	2.07	-	179,126.11	390.05	0.21	11,641.12	6.50	15,537.79	8.25	15,927.84	8.46
5,521.04	2.08	165.01	259,281.77	709.60	0.27	18,729.89	7.22	24,250.93	9.15	24,960.53	9.41

## Annual Data 2020

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**Table 3 : Load Factor, Capacity Factor and Demand Factor**

**2020**

PLN Operational Unit/ Province	Load Factor (%)	Capacity Factor (%)	Demand Factor (%)
UIW Aceh	24.90	18.79	9.28
UIW North Sumatera	49.78	52.70	2.22
UIW West Sumatera	49.59	34.15	3.22
UIW Riau and Riau Archipelago	53.33	30.00	5.96
UIW South Sumatera, Jambi, and Bengkulu	76.26	46.12	3.29
UIW Bangka Belitung	58.59	44.16	36.91
UID Lampung	23.81	8.57	0.64
UIW West Kalimantan	59.78	23.28	2.96
UIW South and Central Kalimantan	46.57	13.40	0.84
UIW East and North Kalimantan	57.28	31.29	2.64
UIW N, C Sulawesi and Gorontalo	57.40	31.07	7.85
UIW S, SE and W Sulawesi	52.04	39.02	1.90
UIW Maluku and North Maluku	62.59	26.73	33.31
UIW Papua and West Papua	48.18	29.88	44.02
UID Bali	22.14	8.93	0.11
UIW West Nusa Tenggara	52.58	42.07	36.92
UIW East Nusa Tenggara	99.61	28.23	14.91
PT PLN Batam	68.68	52.02	41.70
UIK Northern Part of Sumatera	55.18	32.85	-
UIK Southern Part of Sumatera	72.92	46.08	-
UIP3B Sumatera	62.05	55.45	-
UIKL Kalimantan	54.29	37.47	-
UIKL Sulawesi	50.22	41.56	-
<b>Outside Java</b>	<b>58.07</b>	<b>40.24</b>	<b>40.42</b>
UID East Java	42.92	25.07	0.20
UID Central Java and Yogyakarta	50.78	40.55	0.21
UID West Java	53.56	38.53	0.36
UID Banten	53.98	41.50	0.14
UID Jakarta Raya	-	-	-
PT Indonesia Power	55.72	42.84	-
PT PJB	34.31	28.96	-
PJB Sulawesi	0.45	0.34	-
UIP2B	-	73.26	-
UIK Tanjung Jati B	160.64	75.25	-
UIK Western Part of Java	65.01	51.41	-
UIK Central Part of Java	78.21	74.53	-
UIK Eastern Part of Java, Bali and Nusa Tenggara	75.52	59.24	-
<b>Java</b>	<b>91.15</b>	<b>54.71</b>	<b>31.68</b>
Generation Project	270.95	42.55	-
<b>Indonesia</b>	<b>78.32</b>	<b>49.54</b>	<b>34.61</b>

**Table 4 : Number of Customers by Type of Customers****2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,354,112	3,582	136,068	48,577	12,065	2,580	1,556,984	1.97
UIW North Sumatera	3,707,599	4,519	145,972	72,893	10,795	16,988	3,958,766	5.01
UIW West Sumatera	1,294,655	566	145,393	36,831	6,490	3,762	1,487,697	1.88
UIW Riau and Riau Archipelago	1,912,445	529	171,541	41,093	8,716	5,177	2,139,501	2.71
- Riau	1,663,114	420	143,731	35,716	6,412	4,098	1,853,491	2.35
- Riau Archipelago	249,331	109	27,810	5,377	2,304	1,079	286,010	0.36
UIW South Sumatera, Jambi and Bengkulu	3,518,478	1,501	131,397	72,356	14,703	10,524	3,748,959	4.75
- South Sumatera	2,044,207	779	62,807	39,195	6,988	6,202	2,160,178	2.73
- Jambi	928,484	572	49,748	21,273	4,572	3,289	1,007,938	1.28
- Bengkulu	545,787	150	18,842	11,888	3,143	1,033	580,843	0.74
UIW Bangka Belitung	447,844	582	30,589	8,240	3,133	1,971	492,359	0.62
UID Lampung	2,192,333	1,541	63,790	56,723	4,593	2,218	2,321,198	2.94
UIW West Kalimantan	1,161,542	581	73,974	26,027	5,100	3,692	1,270,916	1.61
UIW S and C Kalimantan	1,792,114	919	122,469	55,460	10,720	5,290	1,986,972	2.52
- South Kalimantan	1,192,400	679	59,841	37,721	5,693	3,776	1,300,110	1.65
- Central Kalimantan	599,714	240	62,628	17,739	5,027	1,514	686,862	0.87
UIW East and North Kalimantan	1,163,243	506	69,433	23,497	6,459	2,905	1,266,043	1.60
UIW N, C Sulawesi and Gorontalo	1,649,229	888	59,810	52,955	11,404	2,772	1,777,058	2.25
- North Sulawesi	676,465	453	27,078	15,681	4,476	1,243	725,396	0.92
- Gorontalo	281,599	149	8,869	7,124	2,269	472	300,482	0.38
- Central Sulawesi	691,165	286	23,863	30,150	4,659	1,057	751,180	0.95
UIW S, SE and W Sulawesi	3,116,450	3,161	141,045	61,179	17,334	5,341	3,344,510	4.23
- South Sulawesi	2,234,187	2,504	100,960	40,500	9,910	4,078	2,392,139	3.03
- Southeast Sulawesi	603,632	498	28,548	13,712	5,575	1,009	652,974	0.83
- West Sulawesi	278,631	159	11,537	6,967	1,849	254	299,397	0.38
UIW Maluku and North Maluku	617,807	115	27,636	15,450	5,853	874	667,735	0.85
- Maluku	263,615	66	14,536	6,010	2,324	307	286,858	0.36
- North Maluku	354,192	49	13,100	9,440	3,529	567	380,877	0.48
UIW Papua and West Papua	632,979	128	51,937	16,888	7,208	1,560	710,700	0.90
- Papua	415,844	93	35,698	10,969	4,161	832	467,597	0.59
- West Papua	217,135	35	16,239	5,919	3,047	728	243,103	0.31
UID Bali	1,263,423	1,250	213,958	40,018	4,268	5,937	1,528,854	1.94
UIW West Nusa Tenggara	1,509,537	454	40,794	28,110	4,569	2,825	1,586,289	2.01
UIW East Nusa Tenggara	867,622	239	33,352	20,002	7,177	696	929,088	1.18
PT PLN Batam	286,181	356	45,078	3,702	425	1,136	336,878	0.43
<b>Outside Java</b>	<b>28,487,593</b>	<b>21,417</b>	<b>1,704,236</b>	<b>680,001</b>	<b>141,012</b>	<b>76,248</b>	<b>31,110,507</b>	<b>39.38</b>
UID East Java	11,305,864	68,022	639,570	336,349	20,515	61,269	12,431,589	15.74
UID Central Java and Yogyakarta	11,107,710	12,715	525,184	307,059	27,994	56,850	12,037,512	15.24
- Central Java	9,906,550	11,960	462,432	275,640	24,456	46,597	10,727,635	13.58
- D.I. Yogyakarta	1,201,160	755	62,752	31,419	3,538	10,253	1,309,877	1.66
UID West Java	14,099,301	15,827	635,049	313,867	18,418	85,511	15,167,973	19.20
UID Banten	3,223,519	6,829	191,039	64,033	4,010	7,528	3,496,958	4.43
UID Jakarta Raya	4,382,694	5,912	306,839	44,765	6,459	8,825	4,755,494	6.02
<b>Java</b>	<b>44,119,088</b>	<b>109,305</b>	<b>2,297,681</b>	<b>1,066,073</b>	<b>77,396</b>	<b>219,983</b>	<b>47,889,526</b>	<b>60.62</b>
<b>Indonesia</b>	<b>72,606,681</b>	<b>130,722</b>	<b>4,001,917</b>	<b>1,746,074</b>	<b>218,408</b>	<b>296,231</b>	<b>79,000,033</b>	<b>100.00</b>
<b>(%)</b>	<b>91.91</b>	<b>0.17</b>	<b>5.07</b>	<b>2.21</b>	<b>0.28</b>	<b>0.38</b>	<b>100</b>	

# Annual Data 2020

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

**2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,089.59	111.62	351.66	138.38	83.68	32.37	1,807.30	1.25
UIW North Sumatera	3,519.03	1,244.91	1,102.94	290.05	101.50	98.62	6,357.05	4.39
UIW West Sumatera	1,198.89	274.52	391.51	114.45	60.73	20.44	2,060.53	1.42
UIW Riau and Riau Archipelago	2,257.32	297.08	845.72	177.93	112.56	45.26	3,735.87	2.58
- Riau	1,912.92	275.63	675.99	149.03	82.03	37.08	3,132.69	2.17
- Riau Archipelago	344.40	21.45	169.73	28.90	30.52	8.18	603.18	0.42
UIW South Sumatera, Jambi and Bengkulu	3,551.08	550.66	886.35	234.85	137.18	54.64	5,414.76	3.74
- South Sumatera	2,017.92	413.85	559.93	146.75	78.64	33.50	3,250.59	2.25
- Jambi	1,036.86	94.63	242.39	57.72	36.20	14.92	1,482.71	1.02
- Bengkulu	496.30	42.18	84.04	30.38	22.34	6.22	681.46	0.47
UIW Bangka Belitung	520.36	124.05	163.32	47.64	29.09	6.82	891.29	0.62
UID Lampung	2,026.99	512.76	398.01	135.58	51.08	21.57	3,146.00	2.17
UIW West Kalimantan	1,126.20	129.61	370.72	92.16	58.77	19.72	1,797.19	1.24
UIW S and C Kalimantan	1,626.02	231.91	522.11	151.64	102.77	31.66	2,666.12	1.84
- South Kalimantan	1,037.47	168.57	337.35	101.31	57.52	23.09	1,725.32	1.19
- Central Kalimantan	588.55	63.35	184.76	50.33	45.24	8.57	940.80	0.65
UIW East and North Kalimantan	1,437.63	151.46	580.04	135.83	126.03	20.06	2,451.06	1.69
UIW N, C Sulawesi and Gorontalo	1,476.59	192.74	453.96	138.85	103.99	28.70	2,394.83	1.66
- North Sulawesi	642.34	132.33	270.91	64.15	36.48	10.27	1,156.48	0.80
- Gorontalo	227.26	19.35	55.58	21.20	27.01	4.14	354.54	0.25
- Central Sulawesi	606.99	41.06	127.47	53.50	40.50	14.29	883.81	0.61
UIW S, SE and W Sulawesi	3,124.22	627.80	906.12	274.55	157.09	57.16	5,146.95	3.56
- South Sulawesi	2,216.59	552.26	723.46	213.88	103.96	46.61	3,856.75	2.67
- Southeast Sulawesi	630.09	57.45	142.67	41.27	35.24	7.91	914.62	0.63
- West Sulawesi	277.54	18.09	39.99	19.41	17.90	2.64	375.58	0.26
UIW Maluku and North Maluku	594.76	9.47	160.67	49.79	50.10	5.62	870.41	0.60
- Maluku	264.10	4.62	94.07	28.64	27.29	2.23	420.97	0.29
- North Maluku	330.66	4.85	66.59	21.14	22.80	3.39	449.44	0.31
UIW Papua and West Papua	800.72	15.22	290.50	76.90	104.14	7.82	1,295.31	0.90
- Papua	533.10	6.69	195.51	48.33	63.78	5.79	853.20	0.59
- West Papua	267.62	8.54	94.99	28.57	40.37	2.02	442.11	0.31
UID Bali	1,875.30	104.87	1,597.27	154.41	80.72	33.23	3,845.81	2.66
UIW West Nusa Tenggara	1,246.34	85.89	265.23	71.92	36.65	15.27	1,721.31	1.19
UIW East Nusa Tenggara	859.34	31.43	181.91	68.69	46.38	5.85	1,193.60	0.83
PT PLN Batam	581.81	353.15	498.92	49.77	25.40	9.93	1,518.97	1.05
<b>Outside Java</b>	<b>28,912.19</b>	<b>5,049.16</b>	<b>9,966.96</b>	<b>2,403.41</b>	<b>1,467.85</b>	<b>514.76</b>	<b>48,314.33</b>	<b>33.39</b>
UID East Java	9,745.11	6,674.78	3,597.60	1,012.21	315.02	242.15	21,586.87	14.92
UID Central Java and Yogyakarta	8,979.41	3,308.67	2,823.43	978.45	275.76	193.53	16,559.27	11.45
- Central Java	7,786.75	3,185.80	2,334.49	793.38	218.90	168.89	14,488.21	10.01
- D.I. Yogyakarta	1,192.66	122.87	488.94	185.07	56.87	24.64	2,071.06	1.43
UID West Java	12,907.48	8,579.50	4,335.62	886.55	354.00	132.37	27,195.51	18.80
UID Banten	3,325.22	5,632.92	1,986.13	234.32	124.80	44.20	11,347.58	7.84
UID Jakarta Raya	8,227.23	1,901.38	7,567.92	916.32	928.38	133.43	19,674.66	13.60
<b>Java</b>	<b>43,184.45</b>	<b>26,097.25</b>	<b>20,310.69</b>	<b>4,027.85</b>	<b>1,997.95</b>	<b>745.69</b>	<b>96,363.89</b>	<b>66.61</b>
<b>Indonesia</b>	<b>72,096.64</b>	<b>31,146.41</b>	<b>30,277.65</b>	<b>6,431.26</b>	<b>3,465.80</b>	<b>1,260.45</b>	<b>144,678.22</b>	<b>100.00</b>
<b>(%)</b>	<b>49.83</b>	<b>21.53</b>	<b>20.93</b>	<b>4.45</b>	<b>2.40</b>	<b>0.87</b>	<b>100.00</b>	

**Table 6 : Energy Sold by Type of Customers (GWh)****2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,868.28	172.01	477.66	191.60	104.06	124.38	2,938.00	1.21
UIW North Sumatera	5,704.42	2,946.75	1,588.88	397.04	143.55	412.21	11,192.85	4.60
UIW West Sumatera	1,717.86	857.01	526.93	154.80	77.41	95.28	3,429.28	1.41
UIW Riau and Riau Archipelago	3,289.23	689.32	1,336.82	236.77	145.68	156.83	5,854.65	2.40
- Riau	2,803.71	649.89	1,069.61	203.12	106.86	133.86	4,967.05	2.04
- Riau Archipelago	485.52	39.42	267.21	33.65	38.83	22.97	887.60	0.36
UIW South Sumatera, Jambi and Bengkulu	5,096.22	1,166.68	1,409.04	299.39	180.66	180.57	8,332.54	3.42
- South Sumatera	3,064.58	930.16	891.14	185.43	104.74	132.40	5,308.45	2.18
- Jambi	1,315.04	162.34	372.64	76.59	45.98	38.01	2,010.60	0.83
- Bengkulu	716.60	74.18	145.25	37.37	29.94	10.16	1,013.49	0.42
UIW Bangka Belitung	709.99	224.70	194.17	44.73	34.55	9.38	1,217.51	0.50
UID Lampung	2,999.71	1,005.18	593.53	175.47	70.33	114.80	4,959.02	2.04
UIW West Kalimantan	1,731.85	197.74	554.95	104.88	78.25	48.00	2,715.67	1.11
UIW S and C Kalimantan	2,713.95	521.35	804.07	173.36	137.52	82.46	4,432.70	1.82
- South Kalimantan	1,782.55	391.85	510.85	116.42	76.22	61.11	2,939.00	1.21
- Central Kalimantan	931.40	129.50	293.21	56.94	61.30	21.34	1,493.70	0.61
UIW East and North Kalimantan	2,379.92	351.70	999.25	171.69	168.29	53.01	4,123.86	1.69
UIW N, C Sulawesi and Gorontalo	2,210.92	452.22	657.66	158.81	136.25	119.06	3,734.91	1.53
- North Sulawesi	931.93	369.90	395.85	71.51	46.18	46.91	1,862.27	0.76
- Gorontalo	400.82	36.11	88.25	27.76	38.04	10.60	601.57	0.25
- Central Sulawesi	878.17	46.21	173.56	59.54	52.03	61.55	1,271.07	0.52
UIW S, SE and W Sulawesi	4,166.55	1,263.72	1,341.47	308.28	218.32	166.63	7,464.97	3.06
- South Sulawesi	3,168.73	1,173.91	1,089.56	250.27	155.60	139.41	5,977.49	2.45
- Southeast Sulawesi	714.64	53.80	194.12	40.51	40.78	19.67	1,063.52	0.44
- West Sulawesi	283.18	36.00	57.79	17.50	21.94	7.55	423.96	0.17
UIW Maluku and North Maluku	744.48	15.96	225.63	55.61	80.54	17.23	1,139.46	0.47
- Maluku	329.70	10.13	128.93	28.53	43.17	7.66	548.13	0.23
- North Maluku	414.78	5.83	96.70	27.09	37.37	9.57	591.33	0.24
UIW Papua and West Papua	1,023.85	17.31	412.90	87.75	119.70	18.35	1,679.86	0.69
- Papua	688.57	9.11	284.78	58.40	79.35	12.19	1,132.39	0.46
- West Papua	335.28	8.20	128.12	29.35	40.35	6.16	547.47	0.22
UID Bali	2,434.37	189.25	1,971.79	156.27	124.77	70.41	4,946.86	2.03
UIW West Nusa Tenggara	1,428.13	154.03	376.45	85.16	46.92	58.73	2,149.42	0.88
UIW East Nusa Tenggara	729.29	47.97	232.18	60.38	48.03	15.63	1,133.49	0.47
PT PLN Batam	876.23	761.21	691.61	61.51	37.72	14.97	2,443.27	1.00
<b>Outside Java</b>	<b>41,825.24</b>	<b>11,034.11</b>	<b>14,395.00</b>	<b>2,923.50</b>	<b>1,952.56</b>	<b>1,757.92</b>	<b>73,888.32</b>	<b>30.33</b>
UID East Java	15,336.98	15,081.36	4,884.40	1,262.05	424.31	624.45	37,613.56	15.44
UID Central Java and Yogyakarta	14,259.58	7,837.42	3,866.63	1,232.65	350.58	556.33	28,103.18	11.54
- Central Java	12,556.06	7,592.91	3,168.80	995.98	282.37	494.62	25,090.74	10.30
- D.I. Yogyakarta	1,703.52	244.51	697.83	236.67	68.21	61.71	3,012.44	1.24
UID West Java	20,362.31	21,427.96	5,797.60	1,142.95	433.73	377.70	49,542.25	20.34
UID Banten	5,794.78	13,027.20	2,890.11	315.16	154.57	86.89	22,268.71	9.14
UID Jakarta Raya	14,576.96	3,831.81	10,985.59	1,221.74	1,319.03	231.59	32,166.71	13.21
<b>Java</b>	<b>70,330.61</b>	<b>61,205.75</b>	<b>28,424.32</b>	<b>5,174.56</b>	<b>2,682.22</b>	<b>1,876.96</b>	<b>169,694.43</b>	<b>69.67</b>
<b>Indonesia</b>	<b>112,155.85</b>	<b>72,239.86</b>	<b>42,819.32</b>	<b>8,098.06</b>	<b>4,634.78</b>	<b>3,634.88</b>	<b>243,582.75</b>	<b>100.00</b>
(%)	46.04	29.66	17.58	3.32	1.90	1.49	100.00	

# Annual Data 2020

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

**2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	(%)
UIW Aceh	1,317,576.34	197,714.37	543,480.48	142,740.06	141,157.04	181,820.25	2,524,488.54	0.97
UIW North Sumatera	5,304,263.10	3,280,631.49	1,968,902.90	308,114.97	192,873.49	602,529.01	11,657,314.96	4.47
UIW West Sumatera	1,666,452.01	873,827.36	613,817.84	120,956.48	105,057.36	139,273.75	3,519,384.80	1.35
UIW Riau and Riau Archipelago	4,069,219.49	739,154.55	1,631,337.98	198,925.08	195,557.63	229,249.33	7,063,444.05	2.71
- Riau	3,418,622.08	695,351.50	1,300,849.43	170,709.61	143,054.95	195,674.97	5,924,262.54	2.27
- Riau Archipelago	650,597.41	43,803.05	330,488.55	28,215.47	52,502.68	33,574.35	1,139,181.51	0.44
UIW South Sumatera, Jambi and Bengkulu	5,361,864.34	1,281,325.84	1,779,004.09	229,962.82	243,630.35	264,888.33	9,160,675.75	3.51
- South Sumatera	3,136,905.79	1,015,344.49	1,130,973.76	145,616.24	139,803.70	194,274.08	5,762,918.06	2.21
- Jambi	1,543,860.99	181,385.72	466,146.12	56,137.87	62,563.49	55,740.22	2,365,834.42	0.91
- Bengkulu	681,097.56	84,595.62	181,884.20	28,208.70	41,263.15	14,874.03	1,031,923.27	0.40
UIW Bangka Belitung	887,176.87	254,661.74	245,197.43	38,560.40	47,278.50	13,705.06	1,486,580.00	0.57
UID Lampung	2,520,721.18	1,128,026.33	740,168.56	125,601.31	93,834.95	154,341.05	4,762,693.37	1.83
UIW West Kalimantan	1,658,555.68	219,517.03	687,609.18	81,339.21	105,553.52	70,175.18	2,822,749.79	1.08
UIW S and C Kalimantan	2,623,794.38	595,175.53	971,727.71	127,431.54	188,399.40	120,525.89	4,627,054.45	1.77
- South Kalimantan	1,632,886.56	447,901.65	631,496.74	84,702.79	104,701.85	89,322.16	2,991,011.76	1.15
- Central Kalimantan	990,907.82	147,273.88	340,230.97	42,728.75	83,697.55	31,203.73	1,636,042.69	0.63
UIW East and North Kalimantan	2,962,548.29	399,091.37	1,266,557.94	139,766.99	217,689.21	77,483.16	5,063,136.95	1.94
UIW N, C Sulawesi and Gorontalo	1,856,424.11	500,017.08	825,199.96	119,419.76	182,327.56	173,978.37	3,657,366.86	1.40
- North Sulawesi	800,990.55	408,736.65	498,489.11	55,522.42	62,468.08	68,562.08	1,894,768.89	0.73
- Gorontalo	295,842.46	39,755.67	112,549.39	20,711.35	49,959.66	15,281.66	534,100.19	0.20
- Central Sulawesi	759,591.10	51,524.76	214,161.46	43,185.99	69,899.82	90,134.64	1,228,497.78	0.47
UIW S, SE, and W Sulawesi	4,210,356.99	1,347,179.37	1,680,981.25	248,304.47	292,494.38	238,346.98	8,017,663.46	3.07
- South Sulawesi	3,175,459.69	1,245,728.62	1,366,449.47	201,898.22	208,727.56	198,538.06	6,396,801.62	2.45
- Southeast Sulawesi	740,871.84	61,022.03	244,631.02	32,614.71	54,655.07	28,778.37	1,162,573.05	0.45
- West Sulawesi	294,025.46	40,428.72	69,900.76	13,791.53	29,111.75	11,030.56	458,288.78	0.18
UIW Maluku and North Maluku	770,231.52	16,751.77	285,860.06	41,056.75	111,418.35	25,186.17	1,250,504.63	0.48
- Maluku	348,821.85	10,350.49	163,319.96	22,120.19	59,611.83	11,203.20	615,427.52	0.24
- North Maluku	421,409.67	6,401.28	122,540.10	18,936.56	51,806.52	13,982.97	635,077.10	0.24
UIW Papua and West Papua	1,292,904.76	20,392.14	512,977.22	72,050.89	159,146.53	26,842.86	2,084,314.39	0.80
- Papua	880,098.10	10,139.72	351,541.58	48,289.53	103,940.20	17,838.17	1,411,847.28	0.54
- West Papua	412,806.66	10,252.42	161,435.65	23,761.36	55,206.33	9,004.69	672,467.11	0.26
UID Bali	3,118,950.78	208,141.02	2,485,834.12	127,940.28	170,253.75	102,929.74	6,214,049.69	2.38
UIW West Nusa Tenggara	995,024.13	174,608.78	483,201.35	64,047.19	63,936.04	85,030.15	1,865,847.64	0.71
UIW East Nusa Tenggara	724,603.84	51,605.50	293,175.69	50,127.75	64,377.29	22,839.56	1,206,729.63	0.46
PT PLN Batam	1,250,685.81	949,798.67	1,114,893.00	73,131.09	72,129.18	31,757.96	3,492,395.71	1.34
<b>Outside Java</b>	<b>42,591,353.62</b>	<b>12,237,619.93</b>	<b>18,129,926.77</b>	<b>2,309,477.02</b>	<b>2,647,114.54</b>	<b>2,560,902.79</b>	<b>80,476,394.65</b>	<b>30.84</b>
UID East Java	13,025,622.20	16,308,076.77	6,074,182.21	968,659.50	556,985.46	913,273.59	37,846,799.73	14.50
UID Central Java and Yogyakarta	10,659,443.43	8,588,439.88	4,842,760.91	978,348.31	463,414.09	813,288.51	26,345,695.15	10.10
- Central Java	9,033,257.78	8,319,018.56	3,984,158.98	781,492.64	374,300.00	723,080.35	23,215,308.32	8.90
- D.I. Yogyakarta	1,626,185.65	269,421.32	858,601.94	196,855.67	89,114.09	90,208.15	3,130,386.83	1.20
UID West Java	18,804,982.55	23,590,835.08	7,154,543.11	899,386.79	556,095.02	552,678.57	51,558,521.12	19.76
UID Banten	5,991,768.81	13,917,610.45	3,671,850.82	255,404.67	198,679.11	127,932.21	24,163,246.07	9.26
UID Jakarta Raya	20,176,764.95	4,163,341.37	13,194,533.85	1,100,468.18	1,599,330.41	338,625.96	40,573,064.71	15.55
<b>Java</b>	<b>68,658,581.94</b>	<b>66,568,303.55</b>	<b>34,937,870.90</b>	<b>4,202,267.46</b>	<b>3,374,504.09</b>	<b>2,745,798.83</b>	<b>180,487,326.78</b>	<b>69.16</b>
<b>Indonesia</b>	<b>111,249,935.56</b>	<b>78,805,923.48</b>	<b>53,067,797.67</b>	<b>6,511,744.48</b>	<b>6,021,618.63</b>	<b>5,306,701.62</b>	<b>260,963,721.43</b>	<b>100.00</b>
(%)	42.63	30.20	20.34	2.50	2.31	2.03	100.00	

Note: Data from Aplikasi Pelayanan Pelanggan Terpusat (AP2T)

**Table 8 : Average Energy Sold by Customers (kWh)****2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
UIW Aceh	1,379.71	48,021.93	3,510.46	3,944.22	8,625.28	48,210.05	1,886.98
UIW North Sumatera	1,538.57	652,080.65	10,884.80	5,446.89	13,297.90	24,264.64	2,827.36
UIW West Sumatera	1,326.88	1,514,147.67	3,624.19	4,202.89	11,927.38	25,325.86	2,305.09
UIW Riau and Riau Archipelago	1,719.91	1,303,056.29	7,793.01	5,761.78	16,714.62	30,294.01	2,736.46
- Riau	1,685.82	1,547,364.24	7,441.76	5,687.08	16,665.44	32,664.98	2,679.84
- Riau Archipelago	1,947.31	361,686.20	9,608.36	6,257.97	16,851.50	21,289.16	3,103.40
UIW South Sumatera, Jambi and Bengkulu	1,448.42	777,267.52	10,723.50	4,137.74	12,286.99	17,157.63	2,222.63
- South Sumatera	1,499.15	1,194,049.26	14,188.54	4,730.96	14,988.48	21,347.39	2,457.41
- Jambi	1,416.33	283,807.28	7,490.59	3,600.15	10,057.82	11,558.06	1,994.77
- Bengkulu	1,312.97	494,509.43	7,709.08	3,143.88	9,523.34	9,831.51	1,744.87
UIW Bangka Belitung	1,585.34	386,073.95	6,347.77	5,427.82	11,028.26	4,758.40	2,472.81
UID Lampung	1,368.27	652,289.53	9,304.49	3,093.43	15,312.30	51,757.98	2,136.40
UIW West Kalimantan	1,490.99	340,351.12	7,501.95	4,029.65	15,342.64	13,001.69	2,136.79
UIW S and C Kalimantan	1,514.38	567,296.87	6,565.48	3,125.88	12,828.20	15,587.40	2,230.88
- South Kalimantan	1,494.92	577,096.43	8,536.85	3,086.45	13,387.87	16,184.66	2,260.58
- Central Kalimantan	1,553.08	539,572.27	4,681.83	3,209.73	12,194.39	14,097.82	2,174.67
UIW East and North Kalimantan	2,045.93	695,056.73	14,391.56	7,307.09	26,054.79	18,247.67	3,257.28
UIW N, C Sulawesi and Gorontalo	1,340.58	509,252.94	10,995.78	2,998.99	11,947.73	42,950.42	2,101.74
- North Sulawesi	1,377.64	816,553.73	14,618.82	4,560.38	10,317.32	37,737.26	2,567.25
- Gorontalo	1,423.36	242,353.95	9,950.10	3,896.38	16,764.41	22,459.63	2,002.03
- Central Sulawesi	1,270.57	161,563.05	7,273.24	1,974.88	11,168.31	58,231.03	1,692.09
UIW S, SE and W Sulawesi	1,336.96	399,784.95	9,510.95	5,038.93	12,594.52	31,198.87	2,232.01
- South Sulawesi	1,418.29	468,815.64	10,791.99	6,179.53	15,701.51	34,186.39	2,498.81
- Southeast Sulawesi	1,183.90	108,038.37	6,799.74	2,954.25	7,314.16	19,498.88	1,628.74
- West Sulawesi	1,016.33	226,432.40	5,009.49	2,511.38	11,863.20	29,711.50	1,416.04
UIW Maluku and North Maluku	1,205.03	138,798.14	8,164.48	3,599.65	13,761.07	19,714.52	1,706.46
- Maluku	1,250.68	153,482.82	8,869.97	4,746.76	18,577.76	24,967.36	1,910.81
- North Maluku	1,171.05	119,018.78	7,381.67	2,869.35	10,589.07	16,870.39	1,552.55
UIW Papua and West Papua	1,617.51	135,241.96	7,949.98	5,195.93	16,606.59	11,761.06	2,363.66
- Papua	1,655.83	97,942.33	7,977.42	5,324.14	19,068.85	14,647.99	2,421.72
- West Papua	1,544.12	234,352.40	7,889.68	4,958.33	13,244.10	8,461.72	2,252.01
UID Bali	1,926.81	151,397.24	9,215.78	3,904.94	29,233.37	11,859.20	3,235.66
UIW West Nusa Tenggara	946.07	339,283.04	9,228.08	3,029.58	10,269.99	20,788.13	1,355.00
UIW East Nusa Tenggara	840.57	200,713.37	6,961.62	3,018.91	6,691.94	22,459.06	1,220.01
PT PLN Batam	3,061.80	2,138,244.22	15,342.62	16,616.18	88,762.71	13,178.97	7,252.68
<b>Outside Java</b>	<b>1,468.19</b>	<b>515,203.24</b>	<b>8,446.60</b>	<b>4,299.26</b>	<b>13,846.70</b>	<b>23,055.27</b>	<b>2,375.03</b>
UID East Java	1,356.55	221,713.02	7,637.01	3,752.20	20,683.07	10,191.96	3,025.64
UID Central Java and Yogyakarta	1,283.75	616,391.65	7,362.43	4,014.38	12,523.24	9,785.98	2,334.63
- Central Java	1,267.45	634,858.42	6,852.48	3,613.33	11,546.08	10,614.85	2,338.89
- D.I. Yogyakarta	1,418.23	323,858.41	11,120.36	7,532.73	19,277.75	6,019.01	2,299.79
UID West Java	1,444.21	1,353,886.57	9,129.37	3,641.52	23,549.45	4,416.94	3,266.24
UID Banten	1,797.66	1,907,628.73	15,128.37	4,921.91	38,546.56	11,542.10	6,368.02
UID Jakarta Raya	3,326.03	648,140.56	35,802.45	27,292.35	204,215.73	26,242.59	6,764.12
<b>Java</b>	<b>1,594.11</b>	<b>559,953.79</b>	<b>12,370.87</b>	<b>4,853.85</b>	<b>34,655.84</b>	<b>8,532.30</b>	<b>3,543.46</b>
<b>Indonesia</b>	<b>1,544.70</b>	<b>552,622.03</b>	<b>10,699.70</b>	<b>4,637.87</b>	<b>21,220.72</b>	<b>12,270.42</b>	<b>3,083.32</b>

# Annual Data 2020

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

**2020**

PLN Operational Unit/ Province	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
UIW Aceh	705.23	1,149.44	1,137.80	744.99	1,356.50	1,461.81	859.25
UIW North Sumatera	929.85	1,113.30	1,239.18	776.03	1,343.60	1,461.70	1,041.50
UIW West Sumatera	970.07	1,019.62	1,164.89	781.37	1,357.15	1,461.73	1,026.28
UIW Riau and Riau Archipelago	1,237.13	1,072.30	1,220.31	840.16	1,342.38	1,461.77	1,206.47
- Riau	1,219.32	1,069.95	1,216.19	840.44	1,338.71	1,461.79	1,192.71
- Riau Archipelago	1,340.00	1,111.19	1,236.81	838.50	1,352.12	1,461.66	1,283.44
UIW South Sumatera, Jambi and Bengkulu	1,052.13	1,098.27	1,262.56	768.10	1,348.56	1,466.96	1,099.39
- South Sumatera	1,023.60	1,091.58	1,269.13	785.29	1,334.77	1,467.33	1,085.61
- Jambi	1,174.00	1,117.32	1,250.93	732.97	1,360.67	1,466.46	1,176.68
- Bengkulu	950.46	1,140.41	1,252.21	754.85	1,378.66	1,463.98	1,018.19
UIW Bangka Belitung	1,249.56	1,133.34	1,262.80	862.07	1,368.41	1,461.09	1,221.00
UID Lampung	840.32	1,122.21	1,247.06	715.80	1,334.21	1,344.43	960.41
UIW West Kalimantan	957.68	1,110.13	1,239.05	775.55	1,348.93	1,461.98	1,039.43
UIW S and C Kalimantan	966.78	1,141.60	1,208.51	735.07	1,369.98	1,461.63	1,043.85
- South Kalimantan	916.04	1,143.04	1,236.17	727.56	1,373.68	1,461.66	1,017.70
- Central Kalimantan	1,063.89	1,137.25	1,160.37	750.42	1,365.38	1,462.22	1,095.30
UIW East and North Kalimantan	1,244.81	1,134.75	1,267.51	814.07	1,293.54	1,461.67	1,227.77
UIW N, C Sulawesi and Gorontalo	839.66	1,105.69	1,254.75	751.97	1,338.18	1,461.27	979.24
- North Sulawesi	859.50	1,104.99	1,259.29	776.43	1,352.71	1,461.57	1,017.45
- Gorontalo	738.09	1,100.96	1,275.35	746.09	1,313.35	1,441.67	887.84
- Central Sulawesi	864.97	1,115.01	1,233.93	725.33	1,343.45	1,464.41	966.51
UIW S, SE and W Sulawesi	1,010.51	1,066.04	1,253.09	805.45	1,339.81	1,430.40	1,074.04
- South Sulawesi	1,002.12	1,061.18	1,254.13	806.72	1,341.44	1,424.13	1,070.15
- Southeast Sulawesi	1,036.71	1,134.24	1,260.21	805.10	1,340.24	1,463.06	1,093.14
- West Sulawesi	1,038.30	1,123.02	1,209.56	788.09	1,326.88	1,461.00	1,080.97
UIW Maluku and North Maluku	1,034.59	1,049.61	1,266.94	738.30	1,383.39	1,461.76	1,097.45
- Maluku	1,058.00	1,021.77	1,266.73	775.33	1,380.86	1,462.56	1,122.78
- North Maluku	1,015.98	1,097.99	1,267.22	699.02	1,386.31	1,461.13	1,073.98
UIW Papua and West Papua	1,262.79	1,178.06	1,242.38	821.09	1,329.54	1,462.83	1,240.77
- Papua	1,278.15	1,113.03	1,234.43	826.88	1,309.90	1,463.34	1,246.79
- West Papua	1,231.23	1,250.30	1,260.03	809.59	1,368.19	1,461.80	1,228.32
UID Bali	1,281.21	1,099.82	1,260.70	818.71	1,364.54	1,461.86	1,256.16
UIW West Nusa Tenggara	696.73	1,133.60	1,283.57	752.08	1,362.66	1,447.81	868.07
UIW East Nusa Tenggara	993.57	1,075.79	1,262.71	830.20	1,340.36	1,461.26	1,064.61
PT PLN Batam	1,427.35	1,247.75	1,612.03	1,188.93	1,912.23	2,121.44	1,429.39
Outside Java	1,018.32	1,109.07	1,259.46	789.97	1,355.72	1,456.78	1,089.16
UID East Java	849.30	1,081.34	1,243.59	767.53	1,312.69	1,462.52	1,006.20
UID Central Java and Yogyakarta	747.53	1,095.82	1,252.45	793.70	1,321.85	1,461.88	937.46
- Central Java	719.43	1,095.63	1,257.31	784.65	1,325.57	1,461.89	925.25
- D.I. Yogyakarta	954.60	1,101.88	1,230.39	831.77	1,306.66	1,461.81	1,039.15
UID West Java	923.52	1,100.94	1,234.05	786.90	1,282.12	1,463.27	1,040.70
UID Banten	1,033.99	1,068.35	1,270.49	810.40	1,285.37	1,472.35	1,085.08
UID Jakarta Raya	1,384.15	1,086.52	1,201.08	900.74	1,212.50	1,462.18	1,261.34
Java	976.23	1,087.62	1,229.15	812.10	1,258.10	1,462.90	1,063.60
Indonesia	991.92	1,090.89	1,239.34	804.11	1,299.22	1,459.94	1,071.36

**Table 10 : Number of Customers by Type of Voltage****2020**

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	1,556,473	511	-	1,556,984	1.97
UIW North Sumatera	3,950,297	8,467	2	3,958,766	5.01
UIW West Sumatera	1,486,569	1,126	2	1,487,697	1.88
UIW Riau and Riau Archipelago	2,137,219	2,281	1	2,139,501	2.71
- Riau	1,851,356	2,134	1	1,853,491	2.35
- Riau Archipelago	285,863	147	-	286,010	0.36
UIW South Sumatera, Jambi and Bengkulu	3,747,709	1,249	1	3,748,959	4.75
- South Sumatera	2,159,347	830	1	2,160,178	2.73
- Jambi	1,007,707	231	-	1,007,938	1.28
- Bengkulu	580,655	188	-	580,843	0.74
UIW Bangka Belitung	489,721	2,638	-	492,359	0.62
UID Lampung	2,320,412	786	-	2,321,198	2.94
UIW West Kalimantan	1,270,543	373	-	1,270,916	1.61
UIW S & C Kalimantan	1,986,459	513	-	1,986,972	2.52
- South Kalimantan	1,299,745	365	-	1,300,110	1.65
- Central Kalimantan	686,714	148	-	686,862	0.87
UIW East and North Kalimantan	1,265,441	602	-	1,266,043	1.60
UIW N, C Sulawesi and Gorontalo	1,776,325	732	1	1,777,058	2.25
- North Sulawesi	725,057	338	1	725,396	0.92
- Gorontalo	300,384	98	-	300,482	0.38
- Central Sulawesi	750,884	296	-	751,180	0.95
UIW S, SE and W Sulawesi	3,342,152	2,355	3	3,344,510	4.23
- South Sulawesi	2,390,148	1,988	3	2,392,139	3.03
- Southeast Sulawesi	652,759	215	-	652,974	0.83
- West Sulawesi	299,245	152	-	299,397	0.38
UIW Maluku and North Maluku	667,118	617	-	667,735	0.85
- Maluku	286,492	366	-	286,858	0.36
- North Maluku	380,626	251	-	380,877	0.48
UIW Papua and West Papua	710,367	333	-	710,700	0.90
- Papua	467,416	181	-	467,597	0.59
- West Papua	242,951	152	-	243,103	0.31
UID Bali	1,486,698	42,156	-	1,528,854	1.94
UIW West Nusa Tenggara	1,585,206	1,083	-	1,586,289	2.01
UIW East Nusa Tenggara	928,619	469	-	929,088	1.18
PT PLN Batam	333,737	3,141	-	336,878	0.43
<b>Outside Java</b>	<b>31,041,065</b>	<b>69,432</b>	<b>10</b>	<b>31,110,507</b>	<b>39.38</b>
UID East Java	12,426,549	5,014	26	12,431,589	15.74
UID Central Java and Yogyakarta	12,033,110	4,394	8	12,037,512	15.24
- Central Java	10,723,730	3,897	8	10,727,635	13.58
- D.I. Yogyakarta	1,309,380	497	-	1,309,877	1.66
UID West Java	15,160,428	7,519	26	15,167,973	19.20
UID Banten	3,489,163	7,771	24	3,496,958	4.43
UID Jakarta Raya	4,737,024	18,464	6	4,755,494	6.02
<b>Java</b>	<b>47,846,274</b>	<b>43,162</b>	<b>90</b>	<b>47,889,526</b>	<b>60.62</b>
<b>Indonesia</b>	<b>78,887,339</b>	<b>112,594</b>	<b>100</b>	<b>79,000,033</b>	<b>100.00</b>
<b>(%)</b>	<b>99.86</b>	<b>0.14</b>	<b>-</b>	<b>100.00</b>	

# Annual Data 2020

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

**2020**

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	1,692.00	113.42	-	1,807.30	1.25
UIW North Sumatera	4,865.77	1,377.41	80.10	6,357.05	4.39
UIW West Sumatera	1,727.12	188.81	140.00	2,060.53	1.42
UIW Riau and Riau Archipelago	3,207.62	461.36	60.00	3,735.87	2.58
- Riau	2,680.07	386.30	60.00	3,132.69	2.17
- Riau Archipelago	527.55	75.07	-	603.18	0.42
UIW South Sumatera, Jambi and Bengkulu	4,618.12	748.79	45.00	5,414.76	3.74
- South Sumatera	2,628.74	575.13	45.00	3,250.59	2.25
- Jambi	1,361.60	120.68	-	1,482.71	1.02
- Bengkulu	627.78	52.98	-	681.46	0.47
UIW Bangka Belitung	750.96	133.78	-	891.29	0.62
UID Lampung	2,567.78	576.83	-	3,146.00	2.17
UIW West Kalimantan	1,609.37	187.00	-	1,797.19	1.24
UIW S and C Kalimantan	2,308.32	356.82	-	2,666.12	1.84
- South Kalimantan	1,461.50	263.22	-	1,725.32	1.19
- Central Kalimantan	846.82	93.59	-	940.80	0.65
UIW East and North Kalimantan	2,068.23	381.84	-	2,451.06	1.69
UIW N, C Sulawesi and Gorontalo	2,067.56	285.05	40.00	2,394.83	1.66
- North Sulawesi	928.84	186.86	40.00	1,156.48	0.80
- Gorontalo	318.43	35.82	-	354.54	0.25
- Central Sulawesi	820.29	62.37	-	883.81	0.61
UIW S, SE and W Sulawesi	4,375.55	597.68	162.25	5,146.95	3.56
- South Sulawesi	3,172.94	511.77	162.25	3,856.75	2.67
- Southeast Sulawesi	846.37	67.38	-	914.62	0.63
- West Sulawesi	356.24	18.53	-	375.58	0.26
UIW Maluku and North Maluku	813.40	48.00	-	870.41	0.60
- Maluku	381.76	35.61	-	420.97	0.29
- North Maluku	431.64	12.39	-	449.44	0.31
UIW Papua and West Papua	1,188.88	105.53	-	1,295.31	0.90
- Papua	787.08	65.52	-	853.20	0.59
- West Papua	401.79	40.01	-	442.11	0.31
UID Bali	3,189.41	609.43	-	3,845.81	2.66
UIW West Nusa Tenggara	1,588.30	131.10	-	1,721.31	1.19
UIW East Nusa Tenggara	1,121.11	68.98	-	1,193.60	0.83
PT PLN Batam	944.14	562.72	-	1,518.97	1.05
<b>Outside Java</b>	<b>40,703.63</b>	<b>6,934.54</b>	<b>527.35</b>	<b>48,314.33</b>	<b>33.39</b>
UID East Java	14,897.52	5,547.50	1,131.16	21,586.87	14.92
UID Central Java and Yogyakarta	12,855.02	3,358.38	339.50	16,559.27	11.45
- Central Java	11,141.85	3,000.96	339.50	14,488.21	10.01
- D.I. Yogyakarta	1,713.18	357.42	-	2,071.06	1.43
UID West Java	17,628.99	8,097.27	1,422.40	27,195.51	18.80
UID Banten	5,170.48	4,500.37	1,643.80	11,347.58	7.84
UID Jakarta Raya	12,171.12	6,840.16	388.14	19,674.66	13.60
<b>Java</b>	<b>62,723.13</b>	<b>28,343.68</b>	<b>4,925.00</b>	<b>96,363.89</b>	<b>66.61</b>
<b>Indonesia</b>	<b>103,426.76</b>	<b>35,278.22</b>	<b>5,452.35</b>	<b>144,678.22</b>	<b>100.00</b>
<b>(%)</b>	<b>71.49</b>	<b>24.38</b>	<b>3.77</b>	<b>100.00</b>	

**Table 12 : Energy Sold by Type of Voltage (GWh)****2020**

PLN Operational Unit/ Province	Voltage			Total	(%)
	Low	Medium	High		
UIW Aceh	2,754.30	183.70	-	2,938.00	1.21
UIW North Sumatera	7,896.14	3,002.30	294.41	11,192.85	4.60
UIW West Sumatera	2,488.06	327.29	613.93	3,429.28	1.41
UIW Riau and Riau Archipelago	4,773.69	924.54	156.42	5,854.65	2.40
- Riau	4,021.87	788.76	156.42	4,967.05	2.04
- Riau Archipelago	751.82	135.78	-	887.60	0.36
UIW South Sumatera, Jambi and Bengkulu	6,718.79	1,473.26	140.50	8,332.54	3.42
- South Sumatera	4,013.10	1,154.85	140.50	5,308.45	2.18
- Jambi	1,797.27	213.33	-	2,010.60	0.83
- Bengkulu	908.41	105.08	-	1,013.49	0.42
UIW Bangka Belitung	985.08	232.42	-	1,217.51	0.50
UID Lampung	3,863.20	1,095.82	-	4,959.02	2.04
UIW West Kalimantan	2,427.51	288.16	-	2,715.67	1.11
UIW S and C Kalimantan	3,727.46	705.24	-	4,432.70	1.82
- South Kalimantan	2,409.26	529.75	-	2,939.00	1.21
- Central Kalimantan	1,318.20	175.49	-	1,493.70	0.61
UIW East and North Kalimantan	3,318.89	804.97	-	4,123.86	1.69
UIW N, C Sulawesi and Gorontalo	3,078.30	493.41	163.20	3,734.91	1.53
- North Sulawesi	1,346.20	352.87	163.20	1,862.27	0.76
- Gorontalo	540.86	60.71	-	601.57	0.25
- Central Sulawesi	1,191.24	79.83	-	1,271.07	0.52
UIW S, SE and W Sulawesi	5,992.45	901.43	571.09	7,464.97	3.06
- South Sulawesi	4,603.31	803.09	571.09	5,977.49	2.45
- Southeast Sulawesi	997.01	66.51	-	1,063.52	0.44
- West Sulawesi	392.13	31.82	-	423.96	0.17
UIW Maluku and North Maluku	1,076.28	63.18	-	1,139.46	0.47
- Maluku	507.06	41.07	-	548.13	0.23
- North Maluku	569.22	22.11	-	591.33	0.24
UIW Papua and West Papua	1,546.17	133.69	-	1,679.86	0.69
- Papua	1,040.84	91.55	-	1,132.39	0.46
- West Papua	505.33	42.14	-	547.47	0.22
UID Bali	3,996.98	949.88	-	4,946.86	2.03
UIW West Nusa Tenggara	1,899.37	250.05	-	2,149.42	0.88
UIW East Nusa Tenggara	1,025.60	107.90	-	1,133.49	0.47
PT PLN Batam	1,361.78	1,081.49	-	2,443.27	1.00
<b>Outside Java</b>	<b>58,930.05</b>	<b>13,018.73</b>	<b>1,939.54</b>	<b>73,888.32</b>	<b>30.33</b>
UID East Java	22,149.02	12,158.74	3,305.80	37,613.56	15.44
UID Central Java and Yogyakarta	19,612.88	7,550.81	939.49	28,103.18	11.54
- Central Java	17,197.32	6,953.93	939.49	25,090.74	10.30
- D.I. Yogyakarta	2,415.56	596.88	-	3,012.44	1.24
UID West Java	26,737.73	18,262.15	4,542.38	49,542.25	20.34
UID Banten	8,273.81	9,911.07	4,083.83	22,268.71	9.14
UID Jakarta Raya	19,514.30	11,716.58	935.83	32,166.71	13.21
<b>Java</b>	<b>96,287.74</b>	<b>59,599.36</b>	<b>13,807.33</b>	<b>169,694.43</b>	<b>69.67</b>
<b>Indonesia</b>	<b>155,217.79</b>	<b>72,618.09</b>	<b>15,746.87</b>	<b>243,582.75</b>	<b>100.00</b>
<b>(%)</b>	<b>63.72</b>	<b>29.81</b>	<b>6.46</b>	<b>100.00</b>	

# Annual Data 2020

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

**2020**

PLN Operational Unit/ Province	Voltage				Total	(%)
	Low	Medium	High	Multipurpose		
UIW Aceh	2,311,258.08	197,432.36	-	15,798.10	2,524,488.54	0.97
UIW North Sumatera	7,963,157.43	3,328,509.57	314,993.59	50,654.36	11,657,314.96	4.47
UIW West Sumatera	2,540,081.84	342,294.28	610,079.19	26,929.49	3,519,384.80	1.35
UIW Riau and Riau Archipelago	5,875,678.97	1,007,981.68	155,437.06	24,346.34	7,063,444.05	2.71
- Riau	4,895,406.21	852,113.77	155,437.06	21,305.50	5,924,262.53	2.27
- Riau Archipelago	980,272.76	155,867.91	-	3,040.84	1,139,181.51	0.44
UIW South Sumatera, Jambi and Bengkulu	7,360,018.48	1,600,507.40	140,041.11	60,108.76	9,160,675.75	3.51
- South Sumatera	4,322,724.03	1,269,819.23	140,041.11	30,333.69	5,762,918.06	2.21
- Jambi	2,125,165.51	230,038.61	-	10,630.30	2,365,834.42	0.91
- Bengkulu	912,128.94	100,649.56	-	19,144.76	1,031,923.27	0.40
UIW Bangka Belitung	1,219,841.63	258,124.17	-	8,614.19	1,486,580.00	0.57
UID Lampung	3,538,023.65	1,215,676.29	-	8,993.43	4,762,693.37	1.83
UIW West Kalimantan	2,491,291.78	307,321.27	-	24,136.74	2,822,749.79	1.08
UIW S and C Kalimantan	3,825,148.48	772,336.87	-	29,569.10	4,627,054.45	1.77
- South Kalimantan	2,391,906.85	593,595.04	-	5,509.87	2,991,011.76	1.15
- Central Kalimantan	1,433,241.63	178,741.83	-	24,059.23	1,636,042.69	0.63
UIW East and North Kalimantan	4,133,048.66	837,157.20	-	92,931.09	5,063,136.95	1.94
UIW N, C Sulawesi and Gorontalo	2,926,385.56	531,339.82	171,647.75	27,993.72	3,657,366.86	1.40
- North Sulawesi	1,318,327.63	389,547.86	171,647.75	15,245.65	1,894,768.89	0.73
- Gorontalo	467,334.23	59,377.23	-	7,388.74	534,100.19	0.20
- Central Sulawesi	1,140,723.70	82,414.74	-	5,359.34	1,228,497.78	0.47
UIW S, SE and W Sulawesi	6,426,440.10	972,590.30	583,169.34	35,463.72	8,017,663.46	3.07
- South Sulawesi	4,919,911.64	864,344.17	583,169.34	29,376.47	6,396,801.62	2.45
- Southeast Sulawesi	1,084,860.82	72,533.87	-	5,178.36	1,162,573.05	0.45
- West Sulawesi	421,667.64	35,712.25	-	908.89	458,288.78	0.18
UIW Maluku and North Maluku	1,179,445.96	58,909.67	-	12,148.99	1,250,504.63	0.48
- Maluku	570,913.10	39,177.45	-	5,336.97	615,427.52	0.24
- North Maluku	608,532.86	19,732.22	-	6,812.02	635,077.10	0.24
UIW Papua and West Papua	1,933,772.34	146,204.65	-	4,337.39	2,084,314.39	0.80
- Papua	1,311,473.59	97,031.19	-	3,342.51	1,411,847.29	0.54
- West Papua	622,298.75	49,173.47	-	994.89	672,467.11	0.26
UID Bali	5,113,521.86	986,280.06	-	114,247.77	6,214,049.69	2.38
UIW West Nusa Tenggara	1,579,670.40	228,032.45	-	58,144.79	1,865,847.64	0.71
UIW East Nusa Tenggara	1,087,028.87	106,997.05	-	12,703.72	1,206,729.63	0.46
PT PLN Batam	2,040,741.77	1,419,126.75	-	32,527.19	3,492,395.71	1.34
<b>Outside Java</b>	<b>63,544,555.85</b>	<b>14,316,821.85</b>	<b>1,975,368.04</b>	<b>639,648.92</b>	<b>80,476,394.65</b>	<b>30.84</b>
UID East Java	20,887,735.60	13,269,364.01	3,338,383.46	351,316.65	37,846,799.73	14.50
UID Central Java and Yogyakarta	17,017,662.00	8,225,742.78	946,210.61	156,079.77	26,345,695.15	10.10
- Central Java	14,526,913.22	7,590,346.80	946,210.61	151,837.69	23,215,308.32	8.90
- D.I. Yogyakarta	2,490,748.78	635,395.98	-	4,242.07	3,130,386.83	1.20
UID West Java	26,315,833.99	20,323,994.53	4,576,699.73	341,992.88	51,558,521.12	19.76
UID Banten	8,926,573.81	10,716,931.88	4,096,420.00	423,320.39	24,163,246.07	9.26
UID Jakarta Raya	26,510,474.34	12,569,183.08	960,068.29	533,339.00	40,573,064.71	15.55
<b>Java</b>	<b>99,658,279.74</b>	<b>65,105,216.27</b>	<b>13,917,782.08</b>	<b>1,806,048.68</b>	<b>180,487,326.78</b>	<b>69.16</b>
<b>Indonesia</b>	<b>163,202,835.59</b>	<b>79,422,038.12</b>	<b>15,893,150.12</b>	<b>2,445,697.60</b>	<b>260,963,721.43</b>	<b>100.00</b>
<b>(%)</b>	<b>62.54</b>	<b>30.43</b>	<b>6.09</b>	<b>0.94</b>	<b>100.00</b>	

Note: Data from Aplikasi Pengelolaan Pelanggan Terpusat (AP2T)

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

**2020**

Tariff Category	Customers	Connected (MVA)	Sold (MWh)	Revenue *) (thousand Rp)
S-1	198	0.04	0.33	25,515.20
S-2	1,743,879	4,593.13	5,177.20	3,848,603,208.79
S-3	2,195	1,838.13	2,920.86	2,663,141,269.11
R-1	70,838,134	62,244.14	99,181.70	92,277,297,087.89
R-2	1,496,302	6,265.85	8,374.00	12,243,398,071.18
R-3	272,047	3,586.61	4,599.82	6,729,214,881.89
B-1	3,238,531	5,810.00	7,645.65	7,120,701,905.25
B-2	669,223	13,410.65	17,906.11	25,618,477,130.90
B-3 **)	8,416	10,136.63	15,523.07	17,524,531,530.91
I-1	73,478	327.07	243.37	256,836,730.38
I-2	42,708	4,017.82	5,801.87	6,085,905,762.06
I-3	14,436	21,349.18	50,447.74	56,570,030,869.60
I-4	100	5,452.35	15,746.87	15,893,150,118.09
P-1	216,608	1,911.01	2,652.85	3,715,673,683.56
P-2	1,800	1,554.79	1,981.92	2,305,944,944.18
P-3	296,231	1,260.45	3,634.88	5,306,701,616.19
Traction T-1	77	365.02	292.44	235,344,451.15
Bulk C-1	23	34.45	100.29	123,045,053.39
Special Services	85,647	520.90	1,351.78	2,445,697,599.32
<b>Total</b>	<b>79,000,033</b>	<b>144,678.22</b>	<b>243,582.75</b>	<b>260,963,721,429.04</b>

\*) Data from Aplikasi Pengelolaan Pelanggan Terpusat (AP2T)

\*\*) Included B4 Customers

# Annual Data 2020

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**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	3,946	9,349,332.30	46,045	15,934,511.15	45,543	9,506,561.15	45,191	8,317,555.05
UIW North Sumatera	72,569	28,847,858.45	205,856	53,246,808.13	167,055	31,822,042.45	158,269	34,158,542.55
UIW West Sumatera	10,117	3,770,294.60	78,399	10,601,314.00	66,536	8,478,594.25	64,740	8,549,677.85
UIW Riau and Riau Archipelago	12,408	26,004,600.00	16,934	42,134,200.00	13,065	26,663,150.00	16,544	22,547,650.00
- Riau	616	3,592,700.00	1,940	5,867,650.00	1,548	5,203,300.00	1,604	3,792,750.00
- Riau Archipelago	11,792	22,411,900.00	14,994	36,266,550.00	11,517	21,459,850.00	14,940	18,754,900.00
UIW South Sumatera, Jambi & Bengkulu	15,792	30,208,800.00	20,877	41,048,150.00	19,151	26,314,700.00	21,308	27,283,500.00
- South Sumatera	10,214	20,518,150.00	12,606	23,764,800.00	11,644	16,318,700.00	12,393	16,586,600.00
- Jambi	4,492	8,047,750.00	5,864	13,440,900.00	5,165	6,838,900.00	6,204	7,421,000.00
- Bengkulu	1,086	1,642,900.00	2,407	3,842,450.00	2,342	3,157,100.00	2,711	3,275,900.00
UIW Bangka Belitung	4,010	5,466,864.80	19,513	7,987,491.35	18,586	8,520,577.50	18,647	8,074,965.75
UID Lampung	318,536	41,395,507.14	97,029	22,962,956.45	67,024	20,970,747.20	46,038	13,924,080.51
UIW West Kalimantan	37,274	15,403,043.35	104,651	15,968,265.00	86,941	15,938,400.35	82,590	16,459,397.00
UIW S and C Kalimantan	8,216	131,932,700.00	10,193	20,250,850.00	9,199	13,354,900.00	10,867	16,577,350.00
- South Kalimantan	5,536	106,116,550.00	6,400	13,427,250.00	5,834	8,440,250.00	7,007	11,875,450.00
- Central Kalimantan	2,680	25,816,150.00	3,793	6,823,600.00	3,365	4,914,650.00	3,860	4,701,900.00
UIW East and North Kalimantan	10,083	114,782,600.00	86,364	166,121,250.00	76,610	124,977,650.00	76,430	129,822,100.00
UIW N, C Sulawesi and Gorontalo	61,797	68,701,314.77	108,656	30,993,451.99	91,052	10,675,592.86	78,824	11,863,257.45
- North Sulawesi	50,492	31,468,115.51	36,207	16,331,640.10	29,651	4,314,353.10	25,195	5,657,046.15
- Gorontalo	2,682	33,270,715.35	13,839	7,548,997.50	13,884	1,266,881.55	13,472	1,079,781.10
- Central Sulawesi	8,623	3,962,483.91	58,610	7,112,814.39	47,517	5,094,358.21	40,157	5,126,430.20
UIW S, SE and W Sulawesi	123,963	418,207,859.65	253,952	39,698,346.35	211,924	23,155,884.00	180,580	16,895,331.63
- South Sulawesi	76,981	186,157,933.69	160,282	27,604,460.75	135,049	15,219,140.70	113,641	10,226,032.38
- South East Sulawesi	42,606	229,935,518.61	66,295	9,030,268.25	54,942	5,315,044.60	55,391	4,472,427.70
- West Sulawesi	4,376	2,114,407.35	27,375	3,063,617.35	21,933	2,621,698.70	11,548	2,196,871.55
UIW Maluku and North Maluku	3,362	7,504,550.00	44,128	52,637,750.00	37,133	43,523,950.00	37,766	44,036,350.00
- Maluku	1,480	5,141,900.00	18,755	22,309,950.00	15,241	18,443,700.00	15,004	18,220,650.00
- North Maluku	1,882	2,362,650.00	25,373	30,327,800.00	21,892	25,080,250.00	22,762	25,815,700.00
UIW Papua and West Papua	2,139	9,763,517.00	7,922	15,280,050.00	7,147	11,019,800.00	6,541	8,716,850.00
- Papua	1,609	8,974,850.00	5,888	11,010,050.00	4,997	7,550,450.00	4,027	5,422,900.00
- West Papua	530	788,667.00	2,034	4,270,000.00	2,150	3,469,350.00	2,514	3,293,950.00
UID Bali	11,868	5,781,806.25	80,639	15,644,722.65	70,840	11,481,231.65	69,567	13,784,417.95
UIW West Nusa Tenggara	3,182	4,878,300.00	17,799	18,299,450.00	16,503	15,691,450.00	14,956	13,606,650.00
UIW East Nusa Tenggara	10,778	10,220,859.00	13,114	12,286,800.00	13,190	11,646,750.00	17,027	15,578,600.00
PT PLN Batam	26,778	91,872.00	1,201	9,003.90	1,307	3,687.00	778	6,056.10
<b>Outside Java</b>	<b>736,818</b>	<b>932,311,679.31</b>	<b>1,213,272</b>	<b>581,105,370.97</b>	<b>1,018,806</b>	<b>413,745,668.41</b>	<b>946,663</b>	<b>410,202,331.84</b>
UID East Java	198,410	212,375,382.70	698,697	545,437,998.35	513,422	358,927,764.05	485,014	349,219,943.60
UID Central Java and Yogyakarta	9,693	105,831,795.40	140,869	189,063,669.90	121,815	162,719,710.55	121,606	129,804,683.15
- Central Java	8,846	104,096,645.40	128,955	167,803,719.90	107,137	141,722,860.55	107,570	109,212,333.15
- D.I. Yogyakarta	847	1,735,150.00	11,914	21,259,950.00	14,678	20,996,850.00	14,036	20,592,350.00
UID West Java	185,548	95,200,237.90	789,698	174,783,762.12	616,011	88,305,295.55	594,540	100,685,469.10
UID Banten	32,198	188,732,470.10	252,556	484,257,663.05	210,693	329,697,908.35	202,530	296,494,019.90
UID Jakarta Raya	33,754	986,410,150.00	241,743	676,593,552.00	184,510	443,168,702.00	181,197	452,728,802.00
<b>J a v a</b>	<b>459,603</b>	<b>1,588,550,036.10</b>	<b>2,123,563</b>	<b>2,070,136,645.41</b>	<b>1,646,451</b>	<b>1,382,819,380.50</b>	<b>1,584,887</b>	<b>1,328,932,917.75</b>
<b>I n d o n e s i a</b>	<b>1,196,421</b>	<b>2,520,861,715.41</b>	<b>3,336,835</b>	<b>2,651,242,016.38</b>	<b>2,665,257</b>	<b>1,796,565,048.91</b>	<b>2,531,550</b>	<b>1,739,135,249.59</b>

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)
563	116,635	8	88,800	-	-	22	25,900	22	25,900	3,743	10,510,504
3,671	383,467	8	8,500	-	-	310	316,550	312	319,150	77,690	26,133,791
933	126,312	1	6,600	-	-	50	50,000	25	27,500	11,006	3,601,999
72	620,600	13	54,800	-	-	134	145,200	157	165,100	8,847	29,534,400
6	17,850	-	-	-	-	2	2,600	2	2,600	554	4,985,400
66	602,750	13	54,800	-	-	132	142,600	155	162,500	8,293	24,549,000
2	53,450	-	-	-	-	18	22,300	18	22,300	715	1,470,650
71	150,800	12	34,150	-	-	128	166,150	128	166,150	13,576	29,123,350
43	63,750	8	28,850	-	-	34	52,950	34	52,950	9,430	20,215,350
2	53,450	-	-	-	-	18	22,300	18	22,300	715	1,470,650
104	139,160	25	47,000	-	-	1	900	1	900	3,870	5,820,317
61	77,400	-	-	-	-	26	98,350	26	98,350	339,461	48,364,774
2,033	183,003	15	30,150	-	-	30	44,500	30	44,500	39,607	14,729,194
124	539,500	2	1,350	-	-	16	16,550	16	16,550	6,426	128,172,100
118	521,000	2	1,350	-	-	14	14,750	14	14,750	4,247	102,161,700
6	18,500	-	-	-	-	2	1,800	2	1,800	2,179	26,010,400
83	188,750	13	31,500	-	-	29	245,200	29	245,200	10,193	109,780,900
3,010	2,357,317	30	27,000	-	-	12	12,650	12	12,650	71,045	65,183,333
2,920	2,327,024	-	-	-	-	3	3,550	3	3,550	52,028	27,798,398
8	1,427	0	0	0	0	7	3,150	7	3,150	3,086	33,456,389
82	28,866	30	27,000	-	-	2	5,950	2	5,950	15,931	3,928,546
5,370	213,659	-	-	-	-	125	143,050	125	143,050	149,937	424,254,753
5,065	110,288	-	-	-	-	95	108,550	95	108,550	93,324	191,040,754
303	101,571	-	-	-	-	30	34,500	30	34,500	41,854	230,676,564
2	1,800	-	-	-	-	-	-	-	-	14,759	2,537,435
35	37,650	-	-	-	-	-	-	-	-	2,694	6,954,500
29	34,500	-	-	-	-	-	-	-	-	1,688	5,330,450
6	3,150	-	-	-	-	-	-	-	-	1,006	1,624,050
-	-	-	-	-	-	16	20,800	16	20,800	2,745	12,066,467
-	-	-	-	-	-	-	-	-	-	2,579	11,102,400
1,722	444,130	-	-	-	-	46	100,100	46	100,100	11,419	3,034,490
676	683,300	297	303,100	2,671	1,285,250	13	12,850	13	12,850	7,021	7,868,150
676	683,300	297	303,100	2,671	1,285,250	13	12,850	13	12,850	7,021	7,868,150
382	328,150	1	5,500	-	-	137	131,450	137	131,450	6,560	5,966,359
-	-	-	-	-	-	-	-	-	-	27,307	89,503
<b>18,910</b>	<b>6,589,833</b>	<b>425</b>	<b>638,450</b>	<b>2,671</b>	<b>1,285,250</b>	<b>1,095</b>	<b>1,530,200</b>	<b>1,095</b>	<b>1,530,200</b>	<b>793,147</b>	<b>931,188,883</b>
32,613	22,985,357	530	811,550	10	452,400	577	937,500	593	950,650	194,729	200,348,646
3,862	5,103,550	320	647,250	1	105,000	456	734,050	440	720,900	6,377	134,408,673
3,255	3,782,350	254	360,850	-	-	438	718,850	426	711,950	5,424	133,192,573
607	1,321,200	66	286,400	1	105,000	18	15,200	14	8,950	953	1,216,100
12,315	5,900,859	-	-	-	-	942	1,959,250	1,053	2,119,950	194,593	76,758,506
7,468	20,204,250	61	472,450	-	-	796	1,893,700	642	1,584,050	33,108	202,514,209
4,807	30,998,350	42	58,150	2	131,900	198	4,943,400	241	5,092,350	32,261	945,892,800
<b>61,065</b>	<b>85,192,366</b>	<b>953</b>	<b>1,989,400</b>	<b>13</b>	<b>689,300</b>	<b>2,969</b>	<b>10,467,900</b>	<b>2,969</b>	<b>10,467,900</b>	<b>461,068</b>	<b>1,559,922,833</b>
<b>79,975</b>	<b>91,782,199</b>	<b>1,378</b>	<b>2,627,850</b>	<b>2,684</b>	<b>1,974,550</b>	<b>4,064</b>	<b>11,998,100</b>	<b>4,064</b>	<b>11,998,100</b>	<b>1,254,215</b>	<b>2,491,111,716</b>

## Annual Data 2020

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**Table 16 : SAIDI and SAIFI**

**2020**

PLN Operational Unit/ Province	SAIDI Hours/Customer	SAIFI Times/Customer
UIW Aceh	9.67	6.70
UIW North Sumatera	23.42	21.00
UIW West Sumatera	9.18	6.54
UIW Riau	12.32	8.27
UIW South Sumatera, Jambi and Bengkulu	24.92	12.90
UIW Bangka Belitung	2.46	4.39
UID Lampung	10.30	6.23
UIW West Kalimantan	33.72	31.42
UIW S and C Kalimantan	19.77	13.08
UIW East and North Kalimantan	9.08	10.02
UIW N, C Sulawesi and Gorontalo	28.12	22.83
UIW South, Southeast and West Sulawesi	10.68	9.45
UIW Maluku and North Maluku	3.42	6.92
UIW Papua and West Papua	11.08	9.81
UID Bali	1.85	1.94
UIW West Nusa Tenggara	7.55	6.43
UIW East Nusa Tenggara	8.67	10.38
PT PLN Batam	5.12	5.99
<b>Outside Java</b>	<b>15.44</b>	<b>12.00</b>
UID East Java	5.21	4.49
UID Central Java and Yogyakarta	13.56	9.99
UID West Java	17.34	11.05
UID Banten	3.39	1.96
UID Jakarta Raya	4.54	1.40
<b>Java</b>	<b>10.95</b>	<b>7.46</b>
<b>Indonesia</b>	<b>12.72</b>	<b>9.25</b>

**Tabel 17 : SOD and SOF****2020**

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	1.16	16	759.58	0.15	2.11
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	-	-	77.65	-	-
- Maluku	-	-	77.65	-	-
- North Maluku	-	-	-	-	-
UIW Papua and West Papua	82.30	12	218.00	37.75	5.50
- Papua	82.30	12	218.00	37.75	5.50
- West Papua	-	-	-	-	-
UID Bali	-	-	-	-	-
UIW West Nusa Tenggara	6.57	4	1,145.14	0.57	0.35
UIW East Nusa Tenggara	3.38	12	752.37	0.45	1.59
PT PLN Batam	0.43	1	183.51	0.23	0.54
UIK Northern Part of Sumatera	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-
UIP3B Sumatera	58.02	84	18,082.26	0.32	0.46
UIKL Sulawesi	53.58	56	2,905.95	1.84	1.93
UIKL Kalimantan	141.86	124	6,831.19	2.08	1.82
<b>Outside Java</b>	<b>347.31</b>	<b>309</b>	<b>30,955.64</b>	<b>1.12</b>	<b>1.00</b>
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	-	-	-	-	-
<b>Java</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Indonesia</b>	<b>347.31</b>	<b>309</b>	<b>30,955.64</b>	<b>1.12</b>	<b>1.00</b>

SOD= System Outage Duration

SOF= System Outage Frequency

**Table 18 : Number of Distribution Interruption per 100 kmc****2020**

PLN Operational Unit/ Province	Number of Interruption (Times)	Medium Voltage Lines Length (kmc)	Number of Interruption (Times/100 kmc)
UIW Aceh	5,696	4,479.80	127.15
UIW North Sumatera	2,707	30,267.37	8.94
UIW West Sumatera	1,693	11,786.36	14.36
UIW Riau and Riau Archipelago	1,120	17,361.00	6.45
- Riau	1,069	14,897.00	7.18
- Riau Archipelago	51	2,464.00	2.07
UIW South Sumatera, Jambi and Bengkulu	2,381	27,705.78	8.59
- South Sumatera	1,471	13,962.00	20.70
- Jambi	646	8,949.24	17.90
- Bengkulu	264	4,794.54	14.60
UIW Bangka Belitung	1,139	5,459.74	20.86
UID Lampung	2,790	14,480.95	19.27
UIW West Kalimantan	180	27,859.00	0.65
UIW S and C Kalimantan	3,514	17,081.61	20.57
- South Kalimantan	1,977	9,517.94	20.77
- Central Kalimantan	1,537	7,563.67	20.32
UIW East and North Kalimantan	5,420	9,200.57	58.91
UIW N, C Sulawesi and Gorontalo	4,892	15,751.90	31.06
- North Sulawesi	2,553	5,857.29	43.59
- Gorontalo	331	2,410.54	13.73
- Central Sulawesi	2,008	7,484.07	26.83
UIW S, SE and W Sulawesi	5,671	25,650.06	22.11
- South Sulawesi	4,010	15,959.81	25.13
- Southeast Sulawesi	1,344	6,282.97	21.39
- West Sulawesi	317	3,407.28	9.30
UIW Maluku and North Maluku	865	7,823.64	11.06
- Maluku	631	4,364.86	14.46
- North Maluku	234	3,458.78	6.77
UIW Papua and West Papua	317	6,731.80	4.71
- Papua	103	4,479.80	2.30
- West Papua	214	2,252.00	9.50
UID Bali	108	8,510.01	5.37
UIW West Nusa Tenggara	576	6,652.52	8.66
UIW East Nusa Tenggara	1,519	9,140.82	16.62
PT PLN Batam	151	1,819.77	8.30
UIK Northern Part of Sumatera	-	-	-
UIK Southern Part of Sumatera	-	-	-
UIP3B Sumatera	-	-	-
UIKL Sulawesi	-	-	-
UIKL Kalimantan	-	-	-
<b>Outside Java</b>	<b>40,739</b>	<b>247,762.69</b>	<b>16.44</b>
UID East Java	2,376	40,351.21	5.89
UID Central Java and Yogyakarta	1,408	54,227.36	2.60
- Central Java	1,235	48,432.80	2.55
- D.I. Yogyakarta	173	5,794.56	2.99
UID West Java	2,570	47,541.00	6.58
UID Banten	313	15,717.68	1.99
UID Jakarta Raya	37	18,087.00	0.20
PT Indonesia Power	-	-	-
PT PJB	-	-	-
UIP2B	-	-	-
<b>Java</b>	<b>6,704</b>	<b>175,924.26</b>	<b>3.81</b>
<b>Indonesia</b>	<b>47,443</b>	<b>423,686.95</b>	<b>11.20</b>

**Table 19 : Electrification Ratio and Energy Consumption per Capita****2020**

PLN Operational Unit/ Province	Residential (1,000)	Residential Customers	Electrification *) (%)
UIW Aceh	1,354.62	1,354,112	99.96
UIW North Sumatera	3,705.54	3,698,961	99.82
UIW West Sumatera	1,313.56	1,292,545	98.40
UIW Riau and Riau Archipelago	2,370.92	2,207,316	93.10
- Riau	1,825.52	1,671,804	91.58
- Riau Archipelago	545.40	535,512	98.19
UIW South Sumatera, Jambi and Bengkulu	3,638.35	3,518,206	96.70
- South Sumatera	2,118.13	2,052,381	96.90
- Jambi	968.64	920,038	94.98
- Bengkulu	551.59	545,787	98.95
UIW Bangka Belitung	447.89	447,844	99.99
UID Lampung	2,285.05	2,194,663	96.04
UIW West Kalimantan	1,258.62	1,161,542	92.29
UIW S and C Kalimantan	1,887.73	1,792,114	94.94
- South Kalimantan	1,195.01	1,190,728	99.64
- Central Kalimantan	692.71	601,386	86.82
UIW East Kalimantan and North	1,232.80	1,163,243	94.36
UIW N, C Sulawesi and Gorontalo	1,672.49	1,649,229	98.61
- North Sulawesi	681.40	676,471	99.28
- Gorontalo	283.15	281,490	99.41
- Central Sulawesi	707.94	691,268	97.65
UIW S, SE and W Sulawesi	3,328.24	3,116,450	93.64
- South Sulawesi	2,291.08	2,234,178	97.52
- Southeast Sulawesi	683.20	603,641	88.36
- West Sulawesi	353.96	278,631	78.72
UIW Maluku and North Maluku	706.39	617,807	87.46
- Maluku	402.25	356,335	88.59
- North Maluku	304.14	261,472	85.97
UIW Papua and West Papua	1,067.04	632,979	59.32
- Papua	816.16	415,845	50.95
- West Papua	250.88	217,134	86.55
UID Bali	1,263.42	1,263,423	100.00
UIW West Nusa Tenggara	1,514.09	1,509,537	99.70
UIW East Nusa Tenggara	1,425.85	867,622	60.85
<b>Outside Java</b>	<b>30,472.59</b>	<b>28,487,593</b>	<b>93.49</b>
UID East Java	11,541.87	11,307,377	97.97
UID Central Java and Yogyakarta	11,261.85	11,106,197	98.62
- Central Java	9,906.01	9,905,022	99.99
- D.I. Yogyakarta	1,355.84	1,201,175	88.59
UID West Java	14,775.25	14,679,218	99.35
UID Banten	3,964.87	3,964,476	99.99
UID Jakarta Raya	3,062.24	3,061,820	99.99
<b>J a v a</b>	<b>44,606.09</b>	<b>44,119,088</b>	<b>98.91</b>
<b>I n d o n e s i a</b>	<b>75,078.68</b>	<b>72,606,681</b>	<b>96.71</b>

\*) Excluded No PLN Customer

# Annual Data 2020

**Table 20 : Number of Generating Units \*)**

**2020**

PLN Operational Unit/ Province	Hydro	Steam	Gas Turbine	Com- bined Cycle	Geo- thermal	Diesel	Diesel Gas	Sun	Wind	Bio- mass	Total	IPP	Rent- ed	Total
UIW Aceh	4	-	-	-	-	211	-	-	-	-	215	7	3	225
UIW North Sumatera	-	-	-	-	-	45	-	-	-	-	45	24	3	72
UIW West Sumatera	3	-	-	-	-	108	-	2	-	-	113	11	-	124
UIW Riau and Riau Archipelago	-	-	-	-	-	538	-	3	-	-	541	14	10	565
- Riau	-	-	-	-	-	280	-	-	-	-	280	12	8	300
- Riau Archipelago	-	-	-	-	-	258	-	3	-	-	261	2	2	265
UIW South Sumatera, Jambi and Bengkulu	2	-	-	-	-	179	-	-	-	-	181	27	6	214
- South Sumatera	-	-	-	-	-	48	-	-	-	-	48	14	-	62
- Jambi	-	-	-	-	-	62	-	-	-	-	62	8	1	71
- Bengkulu	2	-	-	-	-	69	-	-	-	-	71	5	5	81
UIW Bangka Belitung	-	4	-	-	-	125	-	4	-	-	133	8	7	148
UID Lampung	-	-	-	-	-	42	-	-	-	-	42	6	-	48
UIW West Kalimantan	6	-	-	-	-	208	-	3	-	-	217	6	4	227
UIW S and C Kalimantan	-	-	-	-	-	378	-	-	-	-	378	1	-	379
- South Kalimantan	-	-	-	-	-	98	-	-	-	-	98	1	-	99
- Central Kalimantan	-	-	-	-	-	280	-	-	-	-	280	-	-	280
UIW of East and North Kalimantan	-	-	-	-	-	179	-	1	-	-	180	10	20	210
UIW of N, C Sulawesi and Gorontalo	17	-	-	-	-	456	-	7	1	1	482	17	22	521
- North Sulawesi	6	-	-	-	-	154	-	6	1	-	167	1	5	173
- Gorontalo	2	-	-	-	-	11	-	1	-	1	15	5	-	20
- Central Sulawesi	9	-	-	-	-	291	-	-	-	-	300	11	17	328
UIW S, SE and W Sulawesi	-	-	-	-	-	212	-	9	-	-	221	13	2	236
- South Sulawesi	-	-	-	-	-	80	-	6	-	-	86	12	1	99
- Southeast Sulawesi	-	-	-	-	-	124	-	3	-	-	127	1	-	128
- West Sulawesi	-	-	-	-	-	8	-	-	-	-	8	-	1	9
UIW Maluku and North Maluku	-	2	-	-	-	673	12	13	-	-	700	1	28	729
- Maluku	-	2	-	-	-	298	12	8	-	-	320	1	13	334
- North Maluku	-	-	-	-	-	375	-	5	-	-	380	-	15	395
UIW Papua and West Papua	17	-	-	-	-	426	15	40	-	-	498	7	37	542
- Papua	11	-	-	-	-	204	5	28	-	-	248	-	16	264
- West Papua	6	-	-	-	-	222	10	12	-	-	250	7	21	278
UID Bali	-	-	-	-	-	8	-	-	3	-	11	5	-	16
UIW West Nusa Tenggara	4	4	-	-	-	150	19	7	-	-	184	14	9	207
UIW East Nusa Tenggara	14	4	-	-	5	455	12	20	1	-	511	11	19	541
PT PLN Batam	-	-	2	1	-	21	3	-	-	-	27	14	-	41
UIK Northern Part of Sumatera	20	18	10	6	-	60	44	-	-	-	158	3	15	176
UIK Southern Part of Sumatera	25	14	16	4	2	16	11	-	-	-	88	1	8	97
UIP3B	-	-	-	-	-	-	-	-	-	-	-	29	-	29
UIKL Kalimantan	3	19	6	3	-	370	26	1	-	-	428	30	59	517
UIKL Sulawesi	29	10	9	-	4	254	10	-	-	-	316	17	2	335
Outside Java	144	75	43	14	11	5,114	152	110	5	1	5,669	276	254	6,199
UID East Java	5	-	-	-	-	75	-	8	-	-	88	5	-	93
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	-	-	-	-	-	-	-	-	-	-	-	21	-	21
UID Banten	-	-	-	-	-	5	-	-	-	-	5	4	-	9
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	59	10	13	24	7	18	12	-	-	-	143	-	-	143
PT PJB	33	8	10	20	-	-	3	-	-	-	74	-	-	74
PJB Sulawesi	-	-	-	-	-	6	-	-	-	-	6	-	-	6
UIP2B	-	-	-	-	-	-	-	-	-	-	-	36	-	36
UIK Tanjung Jati B	-	4	-	-	-	-	-	-	-	-	4	-	-	4
UIK Western Part of Java	-	6	-	15	-	-	-	-	-	-	21	-	-	21
UIK Central Part of Java	-	9	-	2	-	-	-	-	-	-	11	-	-	11
UIK Eastern Part of Java, Bali and Nusra	-	5	-	3	-	-	-	-	-	-	8	-	-	8
Java	100	42	23	64	7	104	15	8	-	-	363	88	-	451
UIW Bangka Belitung	-	-	-	-	-	-	-	-	-	1	1	-	-	1
UIW Papua and West Papua	-	2	-	-	-	-	9	-	-	-	11	-	-	11
UIP East Nusa Tenggara	-	3	-	-	-	-	-	-	-	-	3	-	-	3
UIP Western Part of Java	-	1	-	-	-	-	-	-	-	-	2	-	-	2
UIP Southern Part of Sulawesi	-	1	-	-	-	-	-	-	-	-	1	-	-	1
UIP Northern Part of Sulawesi	-	2	-	-	-	-	-	-	-	-	2	-	-	2
UIP Nusa Tenggara	-	1	-	-	-	6	-	-	-	-	7	-	-	7
Generation Project	-	10	-	1	-	-	15	-	-	1	27	-	-	27
Indonesia	244	127	66	79	18	5,218	182	118	5	2	6,059	364	254	6,677

\*) Generation own by PLN, Rental and IPP

**Table 21 : National Installed Capacity (MW)****2020**

PLN Operational Unit/ Province	Hydro	Steam	Gas Turbined	Combined Cycle	Geo-thermal	Diesel	Diesel Gas	Sun	Wind	Bio-mass	Total	Rental	IPP	Total	%
UIW Aceh	2.42	-	-	-	-	142.39	-	-	-	-	144.81	21.00	12.00	177.80	0.28
UIW North Sumatera	-	-	-	-	-	4.11	-	-	-	-	4.11	-	102.63	106.74	0.17
UIW West Sumatera	0.66	-	-	-	-	35.36	-	0.19	-	-	36.21	-	40.83	77.04	0.12
UIW Riau and Riau Archipelago	-	-	-	-	-	239.61	-	0.80	-	-	240.41	54.00	22.00	316.41	0.50
- Riau	-	-	-	-	-	125.31	-	-	-	-	125.31	48.50	21.00	194.81	0.31
- Riau Archipelago	-	-	-	-	-	114.31	-	0.80	-	-	115.11	5.50	1.00	121.61	0.19
UIW South Sumatera, Jambi and Bengkulu	1.60	-	-	-	-	59.17	-	-	-	-	60.77	19.00	155.75	235.52	0.37
- South Sumatera	-	-	-	-	-	6.01	-	-	-	-	6.01	-	111.05	117.06	0.18
- Jambi	-	-	-	-	-	17.38	-	-	-	-	17.38	8.00	20.70	46.08	0.07
- Bengkulu	1.60	-	-	-	-	35.78	-	-	-	-	37.38	11.00	24.00	72.38	0.11
UIW Bangka Belitung	-	93.00	-	-	-	129.80	-	0.33	-	-	223.13	35.00	91.00	349.13	0.55
UID Lampung	-	-	-	-	-	4.96	-	-	-	-	4.96	-	39.50	44.46	0.07
UIW West Kalimantan	2.02	-	-	-	-	70.29	-	0.18	-	-	72.49	12.50	24.24	109.23	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	-	-	-	-	-	35.70	-	0.09	-	-	35.79	7.33	51.81	94.93	0.15
UIW N, C Sulawesi and Gorontalo	15.40	-	-	-	-	146.35	-	0.84	0.08	0.50	163.18	62.00	52.75	277.93	0.44
- North Sulawesi	5.25	-	-	-	-	43.29	-	0.80	0.08	-	49.42	10.00	3.00	62.42	0.10
- Gorontalo	1.20	-	-	-	-	3.53	-	0.04	-	0.50	5.28	-	17.00	22.27	0.04
- Central Sulawesi	8.95	-	-	-	-	99.53	-	-	-	-	108.48	52.00	32.75	193.23	0.30
UIW S, SE and W Sulawesi	-	-	-	-	-	36.18	-	1.21	-	-	37.38	-	67.00	104.38	0.16
- South Sulawesi	-	-	-	-	-	10.24	-	0.79	-	-	11.03	-	53.00	64.03	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	-	-	-	267.93	136.02	2.41	-	-	420.36	62.82	60.00	543.18	0.86
- Maluku	-	14.00	-	-	-	166.32	136.02	1.10	-	-	317.44	37.00	60.00	414.44	0.65
- North Maluku	-	-	-	-	-	101.61	-	1.31	-	-	102.92	25.82	-	128.74	0.20
UIW Papua and West Papua	29.83	-	-	-	-	187.16	200.10	4.57	-	-	421.66	111.93	86.10	619.69	0.98
- Papua	4.66	-	-	-	-	60.12	43.18	2.25	-	-	110.21	49.93	-	160.14	0.25
- West Papua	25.17	-	-	-	-	127.04	156.92	2.32	-	-	311.45	62.00	86.10	459.55	0.73
UID Bali	-	-	-	-	-	2.96	-	-	0.30	-	3.26	-	5.39	8.65	0.01
UIW West Nusa Tenggara	2.02	77.00	-	-	-	144.12	233.02	0.83	-	-	456.99	44.00	134.45	635.44	1.00
UIW East Nusa Tenggara	5.28	47.00	-	-	12.50	165.03	119.44	3.98	0.09	-	353.32	48.00	101.03	502.36	0.79
PT PLN Batam	-	-	93.40	41.89	-	106.93	26.25	-	-	-	268.47	-	400.60	669.07	1.06
UIK Northern Part of Sumatra	253.50	1,798.00	302.46	817.88	-	181.07	571.46	-	-	-	3,924.37	446.00	182.50	4,552.87	7.19
UIK Southern Part of Sumatra	608.42	1,109.00	352.87	160.00	110.00	111.36	104.72	-	-	-	2,556.36	290.16	10.00	2,946.52	4.65
UIP3B Sumatra	-	-	-	-	-	-	-	-	-	-	-	-	3,073.00	3,073.00	4.85
UIKL Kalimantan	30.00	773.63	255.55	60.00	-	656.34	238.56	0.34	-	-	2,014.42	167.38	1,585.15	3,766.94	5.95
UIKL Sulawesi	211.51	459.00	222.72	-	80.00	412.66	97.80	-	-	-	1,483.69	60.00	1,616.00	3,159.69	4.99
Outside Java	1,162.67	4,370.63	1,226.99	1,079.77	202.50	3,199.36	1,727.37	15.76	0.47	0.50	12,986.02	1,441.12	8,006.13	22,433.27	35.42
UID East Java	18.35	-	-	-	-	33.07	-	0.95	-	-	52.37	-	7.30	59.67	0.09
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	-	-	-	-	-	-	-	-	-	-	-	-	110.33	110.33	0.17
UID Banten	-	-	-	-	-	0.74	-	-	-	-	0.74	-	15.60	16.34	0.03
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	1,119.52	3,700.00	520.88	3,172.98	376.76	175.61	199.66	-	-	-	9,265.40	-	-	9,265.40	14.63
PT PJB	1,282.88	1,800.00	1,188.20	2,747.36	-	-	3.20	-	-	-	7,021.64	-	-	7,021.64	11.09
PJB Sulawesi	-	-	-	-	-	68.04	-	-	-	-	68.04	-	-	68.04	0.11
UIP2B	-	-	-	-	-	-	-	-	-	-	-	-	9,547.02	9,547.02	15.07
UIK Tanjung Jati B	-	2,840.00	-	-	-	-	-	-	-	-	2,840.00	-	-	2,840.00	4.48
UIK Western Part of Java	-	2,170.00	-	3,489.09	-	-	-	-	-	-	5,659.09	-	-	5,659.09	8.94
UIK Central Part of Java	-	3,330.00	-	242.00	-	-	-	-	-	-	3,572.00	-	-	3,572.00	5.64
UIK Eastern Part of Java, Bali and Nusra	-	1,990.00	-	501.00	-	-	-	-	-	-	2,491.00	-	-	2,491.00	3.93
Java	2,421.40	15,830.00	1,709.08	10,152.43	376.76	277.46	202.85	0.95	-	-	30,970.93	-	9,714.08	40,685.01	64.24
UIW Papua and West Papua	-	24.00	-	-	-	-	91.95	-	-	-	115.95	-	-	115.95	0.18
UIP Western Part of Kalimantan	-	7.00	-	-	-	-	-	-	-	-	7.00	-	-	7.00	0.01
UIP Southern Part of Sulawesi	-	10.00	-	-	-	-	-	-	-	-	10.00	-	-	10.00	0.02
UIP Northern Part of Sulawesi	-	6.00	-	-	-	-	-	-	-	-	6.00	-	-	6.00	0.01
UIP Nusa Tenggara	-	30.00	-	-	-	-	48.90	-	-	-	78.90	-	-	78.90	0.12
Generation Project*)	-	77.00	-	-	-	140.84	140.84	-	-	-	217.84	-	-	217.84	0.34
Indonesia	3,584.07	20,277.63	2,936.07	11,232.20	579.26	3,476.82	2,071.07	16.71	0.47	0.50	44,174.79	1,441.12	17,720.21	63,336.12	100.00
%	5.66	32.02	4.64	17.73	0.91	5.49	3.27	0.03	-	-	69.75	2.28	27.98	100.00	100.00

\*) Including Projects in Commissioning Stage

# Annual Data 2020

**Table 22 : Rated Capacity (MW)**

PLN Operational Unit/ Province	Hydro	Steam	Gas Turbine	Combined Cycle	Geo- thermal	Diesel
UIW Aceh	1.95	-	-	-	-	99.73
UIW North Sumatera	-	-	-	-	-	2.76
UIW West Sumatera	0.59	-	-	-	-	31.25
UIW Riau and Riau Archipelago	-	-	-	-	-	165.62
- Riau	-	-	-	-	-	78.50
- Riau Archipelago	-	-	-	-	-	87.12
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	8.20
- South Sumatera	-	-	-	-	-	-
- Jambi	-	-	-	-	-	1.20
- Bengkulu	-	-	-	-	-	7.00
UIW Bangka Belitung	-	78.00	-	-	-	86.60
UID Lampung	-	-	-	-	-	1.27
UIW West Kalimantan	1.64	-	-	-	-	45.03
UIW S and C Kalimantan	-	-	-	-	-	40.09
- South Kalimantan	-	-	-	-	-	11.01
- Central Kalimantan	-	-	-	-	-	29.08
UIW East and North Kalimantan	-	-	-	-	-	22.21
UIW N, C Sulawesi and Gorontalo	13.58	-	-	-	-	76.52
- North Sulawesi	4.65	-	-	-	-	23.56
- Gorontalo	1.10	-	-	-	-	1.20
- Central Sulawesi	7.83	-	-	-	-	51.77
UIW S, SE and W Sulawesi	-	-	-	-	-	19.26
- South Sulawesi	-	-	-	-	-	6.39
- Southeast Sulawesi	-	-	-	-	-	11.61
- West Sulawesi	-	-	-	-	-	1.26
UIW Maluku & North Maluku	-	14.00	-	-	-	108.21
- Maluku	-	14.00	-	-	-	66.59
- North Maluku	-	-	-	-	-	41.62
UIW Papua and West Papua	24.97	-	-	-	-	118.91
- Papua	2.72	-	-	-	-	33.62
- West Papua	22.25	-	-	-	-	85.29
UID Bali	-	-	-	-	-	1.48
UIK West Nusa Tenggara	1.90	64.00	-	-	-	79.63
UIK East Nusa Tenggara	4.17	39.00	-	-	9.90	56.76
PT PLN Batam	-	-	88.00	37.54	-	44.59
UIK Norther Part of Sumatra	243.61	1,218.00	172.71	619.00	-	113.82
UIK Southern Part of Sumatra	602.15	885.00	298.84	126.50	103.84	45.88
UIP3B Sumatera	-	-	-	-	-	-
UIKL Kalimantan	28.50	604.60	228.00	45.60	-	340.38
UIKL Sulawesi	202.85	410.00	150.00	-	80.00	244.00
<b>Outside Java</b>	<b>1,125.91</b>	<b>3,312.60</b>	<b>937.55</b>	<b>828.64</b>	<b>193.74</b>	<b>1,752.19</b>
UID East Java	18.35	-	-	-	-	17.70
UID Central Java and Yogyakarta	0.54	-	-	-	-	-
- Central Java	0.39	-	-	-	-	-
- D.I. Yogyakarta	0.15	-	-	-	-	-
UID West Java	-	-	-	-	-	-
UID Banten	-	-	-	-	-	0.93
UID Jakarta Raya	-	-	-	-	-	-
PT Indonesia Power	1,113.75	3,321.60	322.04	2,816.70	356.60	163.73
PT PJB	1,252.82	1,557.00	1,145.00	2,429.00	-	-
PJB Sulawesi	-	-	-	-	-	62.20
UIP2B	-	-	-	-	-	-
UIK Tanjung Jati B	-	2,643.80	-	-	-	-
UIK Western Part of Java	-	1,990.00	-	3,293.17	-	-
UIK Central Part of Java	-	3,014.00	-	214.00	-	-
UIK Eastern Part of Java, Bali and Nusra	-	1,821.00	-	455.00	-	-
<b>Java</b>	<b>2,385.46</b>	<b>14,347.40</b>	<b>1,467.04</b>	<b>9,207.87</b>	<b>356.60</b>	<b>244.56</b>
UIW Papua and West Papua	-	12.00	-	-	-	-
UIP Southern Part of Sulawesi	-	10.00	-	-	-	-
UIP Norther Part of Sulawesi	-	6.00	-	-	-	-
UIP Nusa Tenggara	-	26.10	-	-	-	-
<b>Generation Project</b>	<b>-</b>	<b>54.10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Indonesia</b>	<b>3,511.37</b>	<b>17,714.10</b>	<b>2,404.59</b>	<b>10,036.51</b>	<b>550.34</b>	<b>1,996.75</b>
<b>%</b>	<b>6.72</b>	<b>33.89</b>	<b>4.60</b>	<b>19.20</b>	<b>1.05</b>	<b>3.82</b>

Diesel Gas	Sun	Wind	Biomass	Total	Rental	IPP	Total	%
-	-	-	-	101.68	21.00	11.50	134.17	0.26
-	-	-	-	2.76	-	102.63	105.39	0.20
-	0.04	-	-	31.87	-	40.83	72.70	0.14
-	0.70	-	-	166.32	53.55	22.00	241.87	0.46
-	-	-	-	78.50	48.50	21.00	148.00	0.28
-	0.70	-	-	87.82	5.05	1.00	93.87	0.18
-	-	-	-	8.20	19.00	155.75	182.95	0.35
-	-	-	-	-	-	111.05	111.05	0.21
-	-	-	-	1.20	8.00	20.70	29.90	0.06
-	-	-	-	7.00	11.00	24.00	42.00	0.08
-	0.28	-	-	164.88	35.00	91.00	290.88	0.56
-	-	-	-	1.26	-	39.50	40.77	0.08
-	0.10	-	-	46.76	12.50	23.24	82.50	0.16
-	-	-	-	40.09	-	2.40	42.49	0.08
-	-	-	-	11.01	-	2.40	13.41	0.03
-	-	-	-	29.08	-	-	29.08	0.06
-	0.05	-	-	22.26	2.21	44.23	68.70	0.13
-	0.40	0.08	-	90.58	51.63	43.95	186.15	0.36
-	0.38	0.08	-	28.67	8.58	3.00	40.25	0.08
-	0.02	-	-	2.32	-	12.50	14.82	0.03
-	-	-	-	59.60	43.05	28.45	131.09	0.25
-	0.85	-	-	20.11	-	67.00	87.11	0.17
-	0.52	-	-	6.92	-	53.00	59.91	0.11
-	0.33	-	-	11.94	-	14.00	25.94	0.05
-	-	-	-	1.26	-	-	1.26	-
118.12	0.54	-	-	240.87	66.85	60.00	367.72	0.70
118.12	0.26	-	-	198.97	38.78	60.00	297.75	0.57
-	0.28	-	-	41.90	28.07	-	69.97	0.13
189.78	3.89	-	-	337.55	96.52	81.60	515.66	0.99
42.40	1.64	-	-	80.38	38.30	-	118.68	0.23
147.38	2.25	-	-	257.17	58.22	81.60	396.98	0.76
-	-	-	-	1.48	-	3.46	4.94	0.01
226.80	0.82	-	-	373.15	43.00	134.45	550.60	1.05
102.66	3.06	-	-	215.55	43.12	68.27	326.93	0.63
22.50	-	-	-	192.63	-	369.60	562.23	1.08
525.47	-	-	-	2,892.62	399.00	182.50	3,474.12	6.65
93.50	-	-	-	2,155.71	290.16	100.00	2,545.87	4.87
-	-	-	-	-	-	2,720.82	2,720.81	5.21
208.04	0.05	-	-	1,455.17	100.60	1,560.65	3,116.42	5.96
97.80	-	-	-	1,184.65	60.00	1,556.00	2,800.66	5.36
1.584.67	10.78	0.08	-	9,746.16	1,294.13	7,481.37	18,521.64	35.44
-	0.95	-	-	37.00	-	7.30	44.30	0.08
-	-	-	-	0.54	-	31.80	32.34	0.06
-	-	-	-	0.39	-	31.30	31.69	0.06
-	-	-	-	0.15	-	0.50	0.65	-
-	-	-	-	-	-	110.33	110.33	0.21
-	-	-	-	0.93	-	15.60	16.53	0.03
-	-	-	-	-	-	-	-	-
182.40	-	-	-	8,276.83	-	-	8,276.83	15.84
3.00	-	-	-	6,386.82	-	-	6,386.82	12.22
-	-	-	-	62.20	-	-	62.20	0.12
-	-	-	-	-	-	5,249.00	5,249.00	10.04
-	-	-	-	2,643.80	-	-	2,643.80	5.06
-	-	-	-	5,283.17	-	-	5,283.17	10.11
-	-	-	-	3,228.00	-	-	3,228.00	6.18
-	-	-	-	2,276.00	-	-	2,276.00	4.35
185.40	0.95	-	-	28,195.28	-	5,414.03	33,609.32	64.31
78.00	-	-	-	90.00	-	-	90.00	0.17
-	-	-	-	10.00	-	-	10.00	0.02
-	-	-	-	6.00	-	-	6.00	0.01
-	-	-	-	26.10	-	-	26.10	0.05
78.00	-	-	-	132.10	-	-	132.10	0.25
1,848.07	11.73	0.08	-	38,073.54	1,294.13	12,895.40	52,263.06	100.00
3,54	0.02	-	-	72.85	2.48	24.67	100.00	100.00

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

PLN Operational Unit/ Province	Own Generated									
	Hydro	Steam	Gas Turbine	Combined Cycle	Geother- mal	Diesel	Diesel Gas	Sun	Wind	Bio- mass
UIW Aceh	7.93	-	-	-	-	146.50	-	-	-	-
UIW North Sumatera	-	-	-	-	-	4.78	-	-	-	-
UIW West Sumatera	-	-	-	-	-	19.44	-	-	-	-
UIW Riau and Riau Archipelago	-	-	-	-	-	474.12	-	0.18	-	-
- Riau	-	-	-	-	-	206.59	-	-	-	-
- Riau Archipelago	-	-	-	-	-	267.52	-	0.18	-	-
UIW South Sumatera, Jambi and Bengkulu	0.31	-	-	-	-	11.71	-	-	-	-
- South Sumatera	-	-	-	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-	-	-	-
- Bengkulu	0.31	-	-	-	-	11.71	-	-	-	-
UIW Bangka Belitung	-	534.42	-	-	-	259.43	-	0.07	-	-
UID Lampung	-	-	-	-	-	1.13	-	-	-	-
UIW West Kalimantan	0.53	-	-	-	-	101.32	-	0.01	-	-
UIW S & C Kalimantan	-	-	-	-	-	70.95	-	-	-	-
- South Kalimantan	-	-	-	-	-	21.10	-	-	-	-
- Central Kalimantan	-	-	-	-	-	49.85	-	-	-	-
UIW East Kalimantan & North	-	-	-	-	-	32.52	-	0.01	-	-
UIW N, C Sulawesi & Gorontalo	65.63	-	-	-	-	153.65	-	0.04	-	-
- North Sulawesi	18.20	-	-	-	-	55.75	-	0.03	-	-
- Gorontalo	6.16	-	-	-	-	0.03	-	0.01	-	-
- Central Sulawesi	41.26	-	-	-	-	97.87	-	-	-	-
UIW S, SE & W Sulawesi	-	-	-	-	-	31.25	-	0.42	-	-
- South Sulawesi	-	-	-	-	-	8.47	-	0.35	-	-
- Southeast Sulawesi	-	-	-	-	-	22.78	-	0.07	-	-
- West Sulawesi	-	-	-	-	-	-	-	-	-	-
UIW Maluku & North Maluku	-	90.58	-	-	-	217.42	285.73	0.21	-	-
- Maluku	-	90.58	-	-	-	91.88	285.73	-	-	-
- North Maluku	-	-	-	-	-	125.54	-	0.21	-	-
UIW Papua and West Papua	74.05	-	-	-	-	135.20	672.24	1.31	-	-
- Papua	18.37	-	-	-	-	63.22	137.98	1.07	-	-
- West Papua	55.67	-	-	-	-	71.97	534.25	0.24	-	-
UID Bali	-	-	-	-	-	0.01	-	-	-	-
UIW West Nusa Tenggara	5.28	387.44	-	-	-	204.98	1,041.63	0.89	-	-
UIW East Nusa Tenggara	13.21	283.95	-	-	57.25	67.78	234.85	1.84	-	-
PT PLN Batam	-	25.29	616.20	231.97	-	0.61	96.86	-	-	-
UIK Northern Part of Sumatera	1,100.24	7,435.66	81.95	1,155.18	-	6.95	1,774.60	-	-	-
UIK Southern Part of Sumatera	3,099.70	5,474.07	509.84	707.40	835.58	0.39	391.90	-	-	-
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-
UIKL Kalimantan	161.14	3,567.58	214.42	8.78	-	711.32	1,121.87	0.17	-	-
UIKL Sulawesi	1,174.61	2,364.01	19.05	-	515.39	261.38	110.68	-	-	-
<b>Outside Java</b>	<b>5,702.62</b>	<b>20,162.98</b>	<b>1,441.46</b>	<b>2,103.33</b>	<b>1,408.22</b>	<b>2,912.84</b>	<b>5,730.35</b>	<b>5.15</b>	-	-
UID East Java	56.55	-	-	-	-	58.57	-	0.42	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	1.04	-	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	3,691.61	22,661.32	71.33	4,554.50	2,778.15	68.67	944.68	-	-	-
PT PJB	2,498.03	6,437.54	847.37	8,009.58	-	-	21.25	-	-	-
PJB Sulawesi	-	-	-	-	-	2.05	-	-	-	-
UIP2B	-	-	-	-	-	-	-	-	-	-
UIK Tanjung Jati B	-	18,721.04	-	-	-	-	-	-	-	-
UIK Western Part of Java	-	12,143.41	-	13,340.15	-	-	-	-	-	-
UIK Central Part of Java	-	21,794.96	-	1,525.33	-	-	-	-	-	-
UIK Eastern Part of Java, Bali and Nusa	-	12,362.87	-	564.95	-	-	-	-	-	-
<b>Java</b>	<b>6,246.19</b>	<b>94,121.14</b>	<b>918.70</b>	<b>27,994.51</b>	<b>2,778.15</b>	<b>130.32</b>	<b>965.93</b>	<b>0.42</b>	-	-
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 Nusa Tenggara	-	-	-	-	-	-	-	-	-	-
<b>Generation Projects</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Indonesia</b>	<b>11,948.81</b>	<b>114,284.12</b>	<b>2,360.16</b>	<b>30,097.84</b>	<b>4,186.37</b>	<b>3,043.16</b>	<b>6,696.28</b>	<b>5.57</b>	-	-

**2020**

Rented Generated							Sub Total	Purchased and Project	Total	%
Diesel	Diesel Gas	Gas Turbine	Combined Cycle	Steam	Hydro	Sun				
36.37	23.16	9.20	-	-	-	-	223.16	69.52	292.68	0.11
-	-	-	-	-	-	-	4.78	487.94	492.72	0.18
-	-	-	-	-	-	-	19.44	211.01	230.44	0.08
129.20	194.16	-	-	-	-	-	797.66	33.77	831.42	0.30
99.87	194.16	-	-	-	-	-	500.63	26.47	527.09	0.19
29.33	-	-	-	-	-	-	297.03	7.30	304.33	0.11
83.10	39.52	-	-	-	-	-	134.64	816.91	951.56	0.35
-	-	-	-	-	-	-	-	579.70	579.70	0.21
-	39.52	-	-	-	-	-	39.52	99.35	138.87	0.05
83.10	-	-	-	-	-	-	95.12	137.86	232.99	0.08
225.81	-	-	-	-	-	-	1,019.72	330.86	1,350.57	0.49
-	-	-	-	-	-	-	1.13	32.25	33.38	0.01
67.45	-	-	-	-	-	-	169.30	53.49	222.79	0.08
-	-	-	-	-	-	-	70.95	2.17	73.12	0.03
-	-	-	-	-	-	-	21.10	2.17	23.27	0.01
-	-	-	-	-	-	-	49.85	-	49.85	0.02
4.99	-	-	-	-	-	-	37.51	222.68	260.19	0.09
335.99	-	-	-	-	-	-	555.31	201.05	756.36	0.28
53.99	-	-	-	-	-	-	127.97	13.86	141.84	0.05
-	-	-	-	-	-	-	6.21	33.28	39.49	0.01
281.99	-	-	-	-	-	-	421.13	153.91	575.04	0.21
-	-	-	-	-	-	-	31.67	325.12	356.80	0.13
-	-	-	-	-	-	-	8.82	239.82	248.64	0.09
-	-	-	-	-	-	-	22.85	85.30	108.15	0.04
-	-	-	-	-	-	-	-	-	-	-
328.83	-	-	-	-	-	-	922.77	348.90	1,271.67	0.46
182.91	-	-	-	-	-	-	651.10	348.90	1,000.00	0.36
145.92	-	-	-	-	-	-	271.67	-	271.67	0.10
474.40	-	-	-	-	-	-	1,357.19	568.18	1,925.37	0.70
238.54	-	-	-	-	-	-	459.19	-	459.19	0.17
235.86	-	-	-	-	-	-	898.00	568.18	1,466.18	0.53
-	-	-	-	-	-	-	0.01	6.76	6.77	-
249.55	-	-	-	-	-	-	1,889.77	452.16	2,341.93	0.85
246.99	-	-	-	-	-	-	905.87	336.63	1,242.50	0.45
-	-	-	-	-	-	-	970.93	2,077.77	3,048.70	1.11
98.07	1,096.63	10.82	-	96.93	-	-	12,857.03	245.64	13,102.67	4.77
-	400.22	-	-	-	-	-	11,419.10	476.02	11,895.12	4.33
-	-	-	-	-	-	-	-	14,927.57	14,927.57	5.43
276.71	195.93	33.83	-	-	-	0.08	6,291.82	6,071.12	12,362.95	4.50
-	-	-	-	412.20	-	-	4,857.32	6,644.76	11,502.08	4.18
2,557.45	1,949.61	53.85	-	509.13	-	0.08	44,537.08	34,942.28	79,479.37	28.92
-	-	-	-	-	-	-	115.53	15.49	131.02	0.05
-	-	-	-	-	-	-	-	122.50	122.50	0.04
-	-	-	-	-	-	-	-	119.14	119.14	0.04
-	-	-	-	-	-	-	-	3.36	3.36	-
-	-	-	-	-	-	-	-	372.38	372.38	0.14
-	-	-	-	-	-	-	1.04	58.38	59.42	0.02
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	34,770.26	-	34,770.26	12.65
-	-	-	-	-	-	-	17,813.76	-	17,813.76	6.48
-	-	-	-	-	-	-	2.05	-	2.05	-
-	-	-	-	-	-	-	-	61,267.95	61,267.95	22.29
-	-	-	-	-	-	-	18,721.04	-	18,721.04	6.81
-	-	-	-	-	-	-	25,483.56	-	25,483.56	9.27
-	-	-	-	-	-	-	23,320.29	-	23,320.29	8.48
-	-	-	-	-	-	-	12,927.82	-	12,927.82	4.70
-	-	-	-	-	-	-	133,155.35	61,836.69	194,992.04	70.94
-	-	-	-	-	-	-	-	94.59	94.59	0.03
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	23.14	23.14	0.01
-	-	-	-	-	-	-	-	135.48	135.48	0.05
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	34.28	34.28	0.01
-	-	-	-	-	-	-	-	36.87	36.87	0.01
-	-	-	-	-	-	-	-	55.41	55.41	0.02
-	-	-	-	-	-	-	-	379.77	379.77	0.14
2,557.45	1,949.61	53.85	-	509.13	-	0.08	177,692.43	97,158.74	274,851.18	100.00

# Annual Data 2020

**Table 24 : Consumption of Fuel**

**2020**

PLN Operational Unit/ Province	Oil (kilo litre)										Coal (ton)	Natural Gas	Bio- mass
	HSD	IDO	MFO	Bio Diesel	Olein	Bio HSD	HFO	Bio Fame	CPO	Total			
UIW Aceh	-	-	-	-	-	36,429.80	-	15,561.42	-	51,991.21	-	318.99	-
UIW North Sumatera	-	-	-	-	-	1,485.83	-	371.46	-	1,857.28	-	-	-
UIW West Sumatera	-	-	-	-	-	4,388.58	-	1,670.78	-	6,059.36	-	-	-
UIW Riau and Riau Archipelago	-	-	-	-	-	122,484.32	-	46,957.93	-	169,442.25	-	1,879.93	-
- Riau	-	-	-	-	-	61,798.95	-	23,578.73	-	85,377.67	-	1,879.93	-
- Riau Archipelago	-	-	-	-	-	60,685.37	-	23,379.20	-	84,064.58	-	-	-
UIW of South Sulawesi, Jambi and Bengkulu	-	-	-	-	-	18,859.26	-	7,168.46	-	26,027.72	-	378.95	-
- South Sumatera	-	-	-	-	-	-	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	0.03	-	0.01	-	0.03	-	378.95	-
- Bengkulu	-	-	-	-	-	18,859.24	-	7,168.45	-	26,027.69	-	-	-
UIW Bangka Belitung	96,480.48	-	-	-	-	94,790.52	-	39,022.24	320.51	230,613.75	510,992.21	-	3.56
UID Lampung	-	-	-	-	-	270.11	-	113.51	-	383.62	-	-	-
UIW West Kalimantan	-	-	-	-	-	36,033.90	-	14,633.89	-	50,667.78	-	-	-
UIW South and Central Kalimantan	-	-	-	-	-	16,866.75	-	6,277.41	-	23,144.16	-	-	-
- South Kalimantan	-	-	-	-	-	5,362.17	-	1,346.87	-	6,709.04	-	-	-
- Central Kalimantan	-	-	-	-	-	11,504.58	-	4,930.53	-	16,435.12	-	-	-
UIW East and North Kalimantan	-	-	-	-	-	8,215.64	-	3,459.90	-	11,675.54	-	13.27	-
UIW N, C Sulawesi and Gorontalo	-	-	-	-	-	99,123.06	-	41,546.50	-	140,669.55	-	-	-
- North Sulawesi	-	-	-	-	-	22,640.93	-	9,579.71	-	32,220.64	-	-	-
- Gorontalo	-	-	-	-	-	5.89	-	2.53	-	8.42	-	-	-
- Central Sulawesi	-	-	-	-	-	76,476.23	-	31,964.26	-	108,440.49	-	-	-
UIW S, SE and W Sulawesi	-	-	-	-	-	6,490.31	-	2,781.56	-	9,271.87	-	-	-
- South Sulawesi	-	-	-	-	-	1,872.76	-	802.61	-	2,675.37	-	-	-
- Southeast Sulawesi	-	-	-	-	-	4,617.55	-	1,978.95	-	6,596.50	-	-	-
- West Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-	-
UIW Maluku and North Maluku	-	-	-	-	-	162,812.21	73,617.20	64,766.55	-	301,195.97	99,587.45	-	-
- Maluku	-	-	-	-	-	106,323.77	73,617.20	42,373.28	-	222,314.26	99,587.45	-	-
- North Maluku	-	-	-	-	-	56,488.44	-	22,393.27	-	78,881.71	-	-	-
UIW Papua and West Papua	10.83	-	-	-	-	282,875.03	-	109,128.68	-	392,014.53	24,429.60	-	-
- Papua	-	-	-	-	-	86,630.54	-	31,579.66	-	118,210.20	-	-	-
- West Papua	10.83	-	-	-	-	196,244.49	-	77,549.01	-	273,804.33	24,429.60	-	-
UID Bali	-	-	-	-	-	2.50	-	0.62	-	3.12	-	-	-
UIW West Nusa Tenggara	18,994.57	-	91,896.88	-	-	192,910.70	-	81,395.36	-	385,197.51	332,543.18	-	-
UIW East Nusa Tenggara	-	-	-	-	-	107,559.91	62,445.79	37,287.12	-	207,292.82	270,348.33	-	-
PT PLN Batam	2.32	-	76.82	-	-	99.02	-	-	-	178.16	492,417.79	20,281.90	-
UIK Northern Part of Sumatera	2,220.83	-	18,438.63	-	-	35,059.51	-	14,954.09	-	70,673.05	5,722,698.28	40,745.28	-
UIK Southern Part of Sumatera	58.55	26.39	-	-	-	3,570.21	-	1,300.55	-	4,955.71	3,551,694.26	25,303.31	-
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-	9,770.73	-	-
UIKL Kalimantan	6,139.54	-	33,394.93	-	-	175,679.00	-	72,758.82	-	287,972.28	3,061,158.47	14,451.60	83.98
UIKL Sulawesi	6,552.64	-	-	-	-	70,335.68	74,787.57	29,171.50	-	180,847.39	2,206,254.95	4,830.38	245.74
Outside Java	130,459.75	26.39	143,807.26	-	-	1,476,341.85	210,850.56	590,328.32	320.51	2,552,134.64	16,272,124.52	117,974.33	333.28
UID East Java	-	-	-	-	-	11,335.37	-	6,007.91	-	17,343.28	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	-
- Central Java	-	-	-	-	-	-	-	-	-	-	-	-	-
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-	-
UID Banten	-	-	-	-	-	191.69	-	82.15	-	273.84	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	22,745.18	-	14,177.10	-	-	4,878.10	-	1,859.14	-	43,659.51	11,907,798.48	50,036.11	-
PT PJB	12,960.25	-	8,160.25	-	-	729.76	-	312.76	-	22,163.02	2,846,189.36	95,611.76	8,212.15
PJB Sulawesi	-	-	457.76	-	-	18.81	-	4.16	-	480.73	-	-	-
UIP2B	-	-	-	-	-	-	-	-	-	-	-	-	-
UIK Tanjung Jati B	-	-	-	-	-	1,793.09	-	768.45	-	2,561.55	7,484,053.40	-	-
UIK Western Part of Java	-	-	-	-	-	3,816.54	-	1,635.66	-	5,452.20	7,363,855.77	96,842.95	-
UIK Central Part of Java	-	-	-	-	-	3,864.23	-	1,618.80	-	5,483.03	13,064,480.64	11,450.71	-
UIK Eastern Part of Java, Bali and Nusra	-	-	-	-	-	1,541.63	-	418.17	-	1,959.81	7,597,895.71	4,299.95	1,185.89
Java	35,705.43	-	22,795.11	-	-	28,169.22	-	12,707.20	-	99,376.97	50,264,273.36	258,241.49	9,398.04
UIP Generation of Sumatera	-	-	-	-	-	-	-	-	-	-	-	722.24	-
UIP Western Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	-	-	-
UIP Central Part of Kalimantan	-	-	-	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Kalimantan	3,926.96	-	-	-	-	0.69	-	0.17	-	3,927.83	12,319.01	-	-
UIP Western Part of Java	-	-	-	-	-	281.55	-	120.66	-	402.22	-	1,307.50	-
UIP Central Part of Java I	-	-	-	-	-	-	-	-	-	-	-	-	-
UIP Eastern Part of Java and Bali II	-	-	-	-	-	-	-	-	-	-	-	-	-
UIP Southern Part of Sulawesi	-	-	-	-	-	4,586.07	-	1,965.46	-	6,551.53	11,938.37	-	-
UIP Northern Part of Sulawesi	-	-	-	-	-	7.41	-	3.18	-	10.59	47,270.47	-	-
UIP Nusa Tenggara	107.33	-	-	-	-	5,256.97	-	2,178.36	-	7,542.66	75,466.07	-	-
Generation Project	4,034.29	-	-	-	-	10,132.70	-	4,267.83	-	18,434.82	146,993.92	2,029.74	-
Indonesia	170,199.47	26.39	166,602.37	-	-	1,514,643.77	210,850.56	607,303.35	320.51	2,669,946.43	66,683,391.80	378,245.56	9,731.32

Note: Consumption of Fuel from Generation own by PLN, Rental, and IPP

**Table 25 : Unit Price of Fuel****2020**

PLN Operational Unit/Province	Oil (Rp/litre)*)				Coal (Rp/kg)	Natural Gas (Rp/ MMSCF)	Geo- thermal (Rp/kWh)
	HSD	IDO	MFO	Average			
UIW Aceh	5,685.19	-	-	5,685.19	-	126,358.25	-
UIW North Sumatera	10,208.23	-	-	10,208.28	-	-	-
UIW West Sumatera	6,053.58	-	-	6,053.58	-	-	-
UIW Riau and Riau Archipelago	5,883.83	-	-	5,883.83	-	75,278.49	-
UIW South Sumatera, Jambi and Bengkulu	5,735.29	-	-	5,735.29	-	107,061.84	-
UIW Bangka Belitung	5,941.07	-	-	5,941.07	625.52	-	-
UID Lampung	7,030.33	-	-	7,030.33	-	-	-
UIW West Kalimantan	6,575.81	-	-	6,575.81	-	-	-
UIW South and Central Kalimantan	6,489.35	-	-	6,489.35	-	-	-
UIW East and North Kalimantan	7,974.68	-	-	7,974.68	-	152,599.38	-
UIW North, Central Sulawesi, and Gorontalo	5,937.72	-	-	5,937.72	-	-	-
UIW South, East and West Sulawesi	6,159.15	-	-	6,159.15	-	-	-
UIW Maluku and North Maluku	5,431.76	-	-	5,431.76	728.39	-	-
UIW Papua and West Papua	5,778.51	-	-	5,778.51	127.57	-	-
UID Bali	8,845.39	-	-	8,845.39	-	-	-
UIW West Nusa Tenggara	5,541.14	-	4,648.78	5,328.25	731.56	-	-
UIW East Nusa Tenggara	5,763.35	-	-	5,763.35	729.09	-	62.71
PT PLN Batam	6,260.62	-	5,803.61	6,063.56	735.17	86,319.79	-
UIK Northern Part of Sulawesi	-	-	-	-	-	-	-
UIK Southern Part of Sulawesi	7,381.33	-	5,375.80	6,858.08	702.06	143,373.30	-
UIP3B Sumatera	13,590.13	5,303.47	-	13,635.50	672.35	89,034.40	757.52
UIKL Kalimantan	-	-	-	-	-	-	-
UIKL Sulawesi	6,365.64	-	4,083.80	6,101.03	594.96	92,062.03	-
UIKL Sulawesi	3,556.81	-	-	3,556.81	505.22	-	943.61
<b>Outside Java</b>	<b>5,720.76</b>	<b>5,303.47</b>	<b>4,611.42</b>	<b>5,408.74</b>	<b>647.69</b>	<b>96,633.27</b>	<b>797.38</b>
UID East Java	6,076.60	-	-	6,076.60	-	-	-
UID Central Java and Yogyakarta	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-
UID Banten	7,248.99	-	-	7,248.99	-	-	-
UID Jakarta Raya	-	-	-	-	-	-	-
PT Indonesia Power	10,430.39	-	6,074.52	9,015.96	723.71	108,904.80	870.13
PT PJB	12,417.05	-	6,311.65	10,169.09	624.72	96,647.58	-
UIK Tanjung Jati B	22,217.62	-	-	22,217.70	894.77	-	-
UIK Western Part of Java	-	-	-	-	-	-	-
UIK Central Part of Java	-	-	-	-	-	-	-
UIK Eastern Part of Java, Bali and Nusra	-	-	-	-	-	-	-
<b>Java</b>	<b>9,980.39</b>	<b>-</b>	<b>6,037.42</b>	<b>9,075.95</b>	<b>1,007.11</b>	<b>104,740.89</b>	<b>870.13</b>
<b>Indonesia **)</b>	<b>5,829.21</b>	<b>5,303.47</b>	<b>4,806.53</b>	<b>5,746.55</b>	<b>917.18</b>	<b>101,650.07</b>	<b>845.66</b>

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

\*\*) Including project fuel.

# Annual Data 2020

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

**2020**

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	Total				
UIW Aceh	-	-	-	-	-	133.35	-	49.52	-	182.87	-	32.35	-	215.22
UIW North Sumatera	-	-	-	-	-	3.82	-	0.96	-	4.78	-	-	9.20	13.98
UIW West Sumatera	-	-	-	-	-	14.51	-	4.93	-	19.44	-	-	0.04	19.48
UIW Riau and Riau Archipelago	-	-	-	-	-	452.63	-	150.89	-	603.52	20.00	195.77	11.95	831.24
- Riau	-	-	-	-	-	230.05	-	76.62	-	306.67	20.00	195.57	4.85	527.09
- Riau Archipelago	-	-	-	-	-	222.58	-	74.27	-	296.85	-	0.20	7.10	304.15
UIW South Sumatera, Jambi & Bengkulu	-	-	-	-	-	71.23	-	23.58	-	94.81	193.83	448.68	21.38	758.71
- South Sumatera	-	-	-	-	-	-	-	-	-	-	154.94	350.28	9.19	514.41
- Jambi	-	-	-	-	-	-	-	-	-	-	38.89	98.40	1.57	138.87
- Bengkulu	-	-	-	-	-	71.23	-	23.58	-	94.81	-	-	10.62	105.43
UIW Bangka Belitung	284.46	-	-	-	-	342.97	-	141.17	1.10	769.69	534.42	-	46.40	1,350.51
UID Lampung	-	-	-	-	-	0.83	-	0.31	-	1.13	30.87	-	1.38	33.38
UIW West Kalimantan	-	-	-	-	-	121.64	-	47.13	-	168.77	20.44	-	20.73	209.94
UIW S and C Kalimantan	-	-	-	-	-	51.35	-	19.60	-	70.95	-	-	2.17	73.12
- South Kalimantan	-	-	-	-	-	15.59	-	5.51	-	21.10	-	-	2.17	23.27
- Central Kalimantan	-	-	-	-	-	35.76	-	14.09	-	49.85	-	-	-	49.85
UIW East and North Kalimantan	-	-	-	-	-	26.39	-	10.32	-	36.71	203.81	0.79	18.87	260.18
UIW N, C Sulawesi and Gorontalo	-	-	-	-	-	353.81	-	135.82	-	489.64	27.30	-	-	516.94
- North Sulawesi	-	-	-	-	-	79.10	-	30.64	-	109.74	-	-	-	109.74
- Gorontalo	-	-	-	-	-	0.02	-	0.01	-	0.03	-	-	-	0.03
- Central Sulawesi	-	-	-	-	-	274.69	-	105.18	-	379.86	27.30	-	-	407.17
UIW S, SE and W Sulawesi	-	-	-	-	-	22.77	-	8.48	-	31.25	85.30	-	-	116.55
- South Sulawesi	-	-	-	-	-	6.17	-	2.30	-	8.47	-	-	-	8.47
- Southeast Sulawesi	-	-	-	-	-	16.60	-	6.18	-	22.78	85.30	-	-	108.08
- West Sulawesi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UIW Maluku and North Maluku	-	-	-	-	-	618.26	348.90	213.72	-	1,180.88	90.58	-	-	1,271.46
- Maluku	-	-	-	-	-	416.37	348.90	144.15	-	909.42	90.58	-	-	1,000.00
- North Maluku	-	-	-	-	-	201.89	-	69.57	-	271.46	-	-	-	271.46
UIW Papua and West Papua	0.16	-	-	-	-	1,127.99	-	393.74	-	1,521.89	81.70	236.10	9.42	1,849.11
- Papua	-	-	-	-	-	329.27	-	110.48	-	439.75	-	-	-	439.75
- West Papua	0.16	-	-	-	-	798.73	-	283.26	-	1,082.15	81.70	236.10	9.42	1,409.37
UID Bali	-	-	-	-	-	0.01	-	-	-	0.01	-	-	-	0.01
UIW West Nusa Tenggara	53.10	-	370.01	-	-	817.22	-	308.94	-	1,549.27	702.88	-	-	2,252.15
UIW East Nusa Tenggara	-	-	-	-	-	420.60	302.14	129.02	-	851.76	299.93	-	-	1,151.68
PT PLN Batam	0.01	-	0.26	-	-	0.34	-	-	-	0.61	666.02	2,382.07	-	3,048.70
UIK Northern Part of Sumatera	2.64	-	82.11	-	-	120.93	-	51.78	-	257.46	7,532.59	4,212.38	-	12,002.43
UIK Southern Part of Sumatera	0.16	0.11	-	-	-	0.20	-	0.08	-	0.55	5,474.07	2,485.22	-	7,959.84
UIP3B Sumatera	-	-	-	-	-	-	-	-	-	-	6,092.77	2,340.29	-	8,433.06
UIKL Kalimantan	16.02	-	134.00	-	-	657.42	-	247.26	-	1,054.70	7,601.96	1,848.83	155.41	10,660.90
UIKL Sulawesi	19.05	-	-	-	-	263.01	354.30	109.04	-	745.40	6,032.72	1,273.25	-	8,051.38
Outside Java	375.60	0.11	586.38	-	-	5,621.29	1,005.33	2,046.29	1.10	9,636.10	35,691.20	15,455.73	296.94	61,079.97
UID East Java	-	-	-	-	-	41.00	-	17.57	-	58.57	-	-	6.76	65.33
UID Central Java and Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	0.92	0.92
- Central Java	-	-	-	-	-	-	-	-	-	-	-	-	0.92	0.92
- D.I. Yogyakarta	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UID West Java	-	-	-	-	-	-	-	-	-	-	-	-	9.57	9.57
UID Banten	-	-	-	-	-	0.73	-	0.31	-	1.04	-	-	-	1.04
UID Jakarta Raya	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PT Indonesia Power	73.57	-	59.32	-	-	5.99	-	2.16	-	141.04	22,661.32	5,498.15	-	28,300.50
PT PJB	44.94	-	32.28	-	-	-	-	-	-	77.23	5,005.90	10,222.82	9.79	15,315.73
PJB Sulawesi	-	-	2.05	-	-	-	-	-	-	2.05	-	-	-	2.05
UIP2B	-	-	-	-	-	-	-	-	-	-	52,413.10	1,214.55	-	53,627.66
UIK Tanjung Jati B	-	-	-	-	-	-	-	-	-	-	18,721.04	-	-	18,721.04
UIK Western Part of Java	-	-	-	-	-	-	-	-	-	-	12,143.41	13,340.15	-	25,483.56
UIK Central Part of Java	-	-	-	-	-	-	-	-	-	-	21,794.96	1,525.33	-	23,320.29
UIK Eastern Part of Java, Bali, Nusra	-	-	-	-	-	-	-	-	-	-	12,361.41	564.95	1.46	12,927.82
Java	118.52	-	93.65	-	-	47.71	-	20.04	-	279.92	145,101.14	32,365.95	28.51	177,775.52
UIP Generation of Sumatera	-	-	-	-	-	-	-	-	-	-	-	94.59	-	94.59
UIP Western Part of Kalimantan	13.70	-	0.20	-	-	2.53	-	0.63	-	17.07	6.08	-	-	23.14
UIP Western Part of Java	-	-	-	-	-	-	-	-	-	-	-	135.48	-	135.48
UIP of Southern Part of Sulawesi	-	-	-	-	-	19.51	-	8.32	-	27.83	6.45	-	-	34.28
UIP of Northern Part of Sulawesi	-	-	-	-	-	-	-	-	-	-	36.87	-	-	36.87
UIP Nusa Tenggara	-	-	-	-	-	21.71	-	6.48	-	28.18	27.23	-	-	55.41
Generation Project	13.70	-	0.20	-	-	43.75	-	15.43	-	73.08	76.62	230.07	-	379.77
Indonesia	507.82	0.11	680.23	-	-	5,712.75	1,005.33	2,081.76	1.10	9,989.10	180,868.96	48,051.75	325.45	239,235.26

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

**Tabel 27 : Captive Power****2020**

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	15	-	15	9,174.00	-	9,174.00	-
UIW North Sumatera	-	-	-	-	-	-	-
UIW West Sumatera	11	21	32	29,650.00	64,005.00	93,655.00	203,790.00
UIW Riau and Riau Archipelago	48	44	92	30,567.00	215,020.00	245,587.00	195,472.50
- Riau	48	41	89	30,567.00	191,220.00	221,787.00	169,544.60
- Riau Archipelago	-	3	3	-	23,800.00	23,800.00	25,927.90
UIW South Sumatera, Jambi and Bengkulu	-	-	-	-	-	-	-
- South Sumatera	-	-	-	-	-	-	-
- Jambi	-	-	-	-	-	-	-
- Bengkulu	-	-	-	-	-	-	-
UIW Bangka Belitung	337	421	758	62,406.50	135,381.50	197,788.00	32,600.70
UID Lampung	-	-	-	-	-	-	-
UIW West Kalimantan	108	34	142	12,646.00	21,115.00	33,761.00	21,115.00
UIW South and Central 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	-	-	-	-	-	-	-
- Maluku	-	-	-	-	-	-	-
- North Maluku	-	-	-	-	-	-	-
UIW Papua and West Papua	-	-	-	-	-	-	-
- Papua	-	-	-	-	-	-	-
- West Papua	-	-	-	-	-	-	-
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	15	16	18,000.00	136,837.00	154,837.00	59,445.90
UIK Northern Part of Sumatera	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	-	-	-	-	-
Outside Java	520	1,048	1,568	162,443.50	1,007,316.50	1,169,760.00	1,033,067.10
UID East Java	254	981	1,235	181,234.00	780,679.22	961,913.22	534,809.60
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	-	8	8	-	632,235.00	632,235.00	-
UID Jakarta Raya	-	-	-	-	-	-	-
PT Indonesia Power	-	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-	-
UIP2B	-	-	-	-	-	-	-
Java	254	989	1,243	181,234.00	2,160,569.22	2,341,803.22	2,028,670.60
Indonesia	774	2,037	2,811	343,677.50	3,167,885.72	3,511,563.22	3,061,737.70

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

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**Table 28 : Length of Transmission Lines (kmc)**

**2020**

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	-	-	1,626.72	162.75	-	1,789.47
UIW South and Central Kalimantan	-	123.08	3,726.16	-	-	3,849.24
- South Kalimantan	-	123.08	1,823.11	-	-	1,946.19
- Central Kalimantan	-	-	1,903.05	-	-	1,903.05
UIW East and North Kalimantan	-	-	1,733.59	-	-	1,733.59
UIW N, C Sulawesi and Gorontalo	0.76	450.62	1,603.34	-	-	2,054.72
- North Sulawesi	0.76	306.82	843.49	-	-	1,151.06
- Gorontalo	-	-	329.77	-	-	329.78
- Central Sulawesi	-	143.80	430.08	-	-	573.88
UIW S, SE and W Sulawesi	3.40	145.30	4,905.34	3.41	-	5,057.45
- South Sulawesi	3.40	119.90	2,991.79	3.41	-	3,118.50
- Southeast Sulawesi	-	25.40	961.77	-	-	987.17
- 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	-	239.64	50.74	-	-	290.38
- Papua	-	239.64	-	-	-	239.64
- West Papua	-	-	50.74	-	-	50.74
UID Bali	-	-	-	-	-	-
UIW West Nusa Tenggara	-	281.95	811.14	-	-	1,093.09
UIW East Nusa Tenggara	-	696.76	638.30	-	-	1,335.06
PT PLN Batam	-	-	216.52	-	-	216.52
UIP Northern Part of Sumatera	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-
UIP3B Sumatera	-	531.21	14,632.57	3,481.49	-	18,645.27
<b>Outside Java</b>	<b>4.16</b>	<b>2,659.20</b>	<b>30,820.39</b>	<b>3,647.65</b>	<b>-</b>	<b>37,131.40</b>
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	2,364.68	-	1,007.58	3,609.65
UIT Central Part of Java	40.64	1,491.04	7,855.05	-	2,898.40	12,285.13
UIT Eastern Part of Java and Bali	56.15	1,268.01	5,640.07	-	1,343.76	8,308.00
<b>J a v a</b>	<b>96.79</b>	<b>2,996.44</b>	<b>15,859.80</b>	<b>-</b>	<b>5,249.74</b>	<b>24,202.78</b>
<b>I n d o n e s i a</b>	<b>100.95</b>	<b>5,655.64</b>	<b>46,680.19</b>	<b>3,647.65</b>	<b>5,249.74</b>	<b>61,334.18</b>

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

**Table 29 : Length of Medium and Low Voltage Lines (kmc)****2020**

PLN Operational Unit/Province	Medium Voltage			Low Voltage
	6 - 7 kV	10 - 12 kV	15-20 kV	
UIW Aceh	-	-	16,282.30	16,464.35
UIW North Sumatera	-	-	29,921.84	31,837.64
UIW West Sumatera	-	-	12,275.63	18,222.59
UIW Riau and Riau Archipelago	-	-	16,724.24	28,167.46
- Riau	-	-	14,295.57	25,888.88
- Riau Archipelago	-	-	2,428.67	2,278.58
UIW South Sumatera, Jambi and Bengkulu	-	-	26,276.82	23,875.36
- South Sumatera	-	-	12,947.03	10,561.92
- Jambi	-	-	8,538.60	7,078.88
- Bengkulu	-	-	4,791.19	6,234.56
UIW Bangka Belitung	-	-	5,459.74	5,556.02
UID Lampung	-	-	14,263.17	17,970.09
UIW West Kalimantan	-	-	12,444.93	14,695.23
UIW South and Central Kalimantan	-	-	16,898.21	15,506.80
- South Kalimantan	-	-	9,500.13	10,590.34
- Central Kalimantan	-	-	7,398.08	4,916.46
UIW East and North Kalimantan	-	-	8,040.18	8,380.61
UIW N, C Sulawesi and Gorontalo	-	-	15,506.10	14,466.89
- North Sulawesi	-	-	5,622.49	6,042.55
- Gorontalo	-	-	2,406.75	1,886.54
- Central Sulawesi	-	-	7,476.86	6,537.80
UIW S, SE and W Sulawesi	-	-	25,849.00	26,422.36
- South Sulawesi	-	-	16,239.56	18,087.86
- Southeast Sulawesi	-	-	6,280.15	5,847.26
- West Sulawesi	-	-	3,329.29	2,487.24
UIW Maluku and North Maluku	-	-	7,795.73	4,506.00
- Maluku	-	-	4,364.86	2,331.21
- North Maluku	-	-	3,430.87	2,174.79
UIW Papua and West Papua	-	-	6,727.55	9,859.86
- Papua	-	-	4,475.55	7,795.64
- West Papua	-	-	2,252.00	2,064.22
UID Bali	-	-	8,510.03	14,382.73
UIW West Nusa Tenggara	-	-	6,620.82	7,438.29
UIW East Nusa Tenggara	-	-	8,959.87	8,858.20
PT PLN Batam	-	-		
UIP Northern Part of Sumatera	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-
UIP3B Sumatera	-	-	-	-
<b>Outside Java</b>	-	-	<b>238,556.16</b>	<b>266,610.48</b>
UID East Java	-	-	40,357.32	78,096.03
UID Central Java and Yogyakarta	-	-	54,227.36	55,423.05
- Central Java	-	-	48,432.80	49,413.32
- D.I. Yogyakarta	-	-	5,794.56	6,009.73
UID West Java	-	-	47,821.27	128,127.71
UID Banten	-	-	15,738.65	25,660.54
UID Jakarta Raya	-	-	18,099.39	37,547.19
PT Indonesia Power	-	-	-	-
PT PJB	-	-	-	-
UIT Western Part of Java	-	-	-	-
UIT Central Part of Java	-	-	-	-
UIT Eastern Part of Java and Bali	-	-	-	-
<b>Java</b>	-	-	<b>176,243.99</b>	<b>324,854.52</b>
<b>Indonesia</b>	-	-	<b>414,800.15</b>	<b>591,465.00</b>

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**Table 30 : Number and Total Capacity of Substation Transformers**

**2020**

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	-	-	-	-	62	2,382.00	14	148.00	-	-	76	2,530.00
- South Kalimantan	-	-	-	-	40	1,632.00	14	148.00	-	-	54	1,780.00
- Central Kalimantan	-	-	-	-	22	750.00	-	-	-	-	22	750.00
UIW East and North Kalimantan	-	-	-	-	52	2,120.00	-	-	-	-	52	2,120.00
UIW N, C Sulawesi and Gorontalo	-	-	-	-	42	1,740.00	29	614.00	-	-	71	2,354.00
- North Sulawesi	-	-	-	-	24	960.00	23	464.00	-	-	47	1,424.00
- Gorontalo	-	-	-	-	7	320.00	-	-	-	-	7	320.00
- Central Sulawesi	-	-	-	-	11	460.00	6	150.00	-	-	17	610.00
UIW S, SE and W Sulawesi	-	-	1	90.00	97	3,179.80	18	295.00	2	30	118	3,594.80
- South Sulawesi	-	-	1	90.00	80	2,623.80	13	200.00	2	30	96	2,943.80
- Southeast Sulawesi	-	-	-	-	7	270.00	5	95.00	-	-	12	365.00
- 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	-	-	-	-	10	420.00	15	226.03	-	-	25	646.03
- Papua	-	-	-	-	4	240.00	15	226.03	-	-	19	466.03
- West Papua	-	-	-	-	6	180.00	-	-	-	-	6	180.00
UID Bali	-	-	-	-	-	-	-	-	-	-	-	-
UIW West Nusa Tenggara	-	-	-	-	25	1,090.00	8	190.00	-	-	33	1,280.00
UIW East Nusa Tenggara	-	-	-	-	6	270.00	16	355.00	-	-	22	625.00
PT PLN Batam	-	-	-	-	20	810.00	-	-	-	-	20	810.00
UIK Northern Part of Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	35	9,410.17	343	16,719.00	26	730.00	-	-	404	26,859.17
Outside Java	-	-	38	9,998.17	723	31,645.80	135	2,788.03	2	30	898	44,462.00
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	-	-	361	21,566.00	8	220.00	-	-	403	37,620.21
UIT Central Part of Java	27	13,500.00	-	-	434	25,962.00	66	1,603.00	-	-	527	41,065.00
UIT Eastern Part of Java and Bali	16	8,014.00	-	-	304	17,509.00	55	1,368.00	-	-	375	26,891.00
Java	77	37,348.21	-	-	1,099	65,037.00	129	3,191.00	-	-	1,305	105,576.21
Indonesia	77	37,348.21	38	9,998.17	1,822	96,682.80	264	5,979.03	2	30	2,203	150,038.21

**Table 31 : Number and Total Capacity of Substation Transformers****2020**

PLN Operational Unit/Province	20 kV		12-15 kV		6-7 kV		Total	
	Unit	MVA	Unit	MVA	Unit	MVA	Unit	MVA
UIW Aceh	12,928	1,012.83	-	-	-	-	12,928	1,012.83
UIW North Sumatera	35,142	3,211.62	-	-	-	-	35,142	3,211.62
UIW West Sumatera	10,913	1,143.94	-	-	-	-	10,913	1,143.94
UIW Riau and Riau Archipelago	14,830	1,824.15	-	-	-	-	14,830	1,824.15
- Riau	12,576	1,561.88	-	-	-	-	12,576	1,561.88
- Riau Archipelago	2,254	262.27	-	-	-	-	2,254	262.27
UIW South Sumatera, Jambi and Bengkulu	24,337	2,336.69	-	-	-	-	24,337	2,336.69
- South Sumatera	12,889	1,343.13	-	-	-	-	12,889	1,343.13
- Jambi	7,674	664.84	-	-	-	-	7,674	664.84
- Bengkulu	3,774	328.72	-	-	-	-	3,774	328.72
UIW Bangka Belitung	5,045	568.45	-	-	-	-	5,045	568.45
UID Lampung	14,802	1,770.69	-	-	-	-	14,802	1,770.69
UIW West Kalimantan	10,045	967.63	-	-	-	-	10,045	967.63
UIW S and C Kalimantan	16,734	1,262.14	-	-	-	-	16,734	1,262.14
- South Kalimantan	10,709	837.24	-	-	-	-	10,709	837.24
- Central Kalimantan	6,025	424.90	-	-	-	-	6,025	424.90
UIW East and North Kalimantan	9,958	1,358.74	-	-	-	-	9,958	1,358.74
UIW N, C Sulawesi and Gorontalo	14,716	1,247.53	-	-	-	-	14,716	1,247.53
- North Sulawesi	5,674	542.04	-	-	-	-	5,674	542.04
- Gorontalo	2,491	209.75	-	-	-	-	2,491	209.75
- Central Sulawesi	6,551	495.74	-	-	-	-	6,551	495.74
UIW S, SE and W Sulawesi	28,472	2,688.84	-	-	-	-	28,472	2,688.84
- South Sulawesi	20,136	2,089.77	-	-	-	-	20,136	2,089.77
- Southeast Sulawesi	5,237	411.46	-	-	-	-	5,237	411.46
- West Sulawesi	3,099	187.60	-	-	-	-	3,099	187.60
UIW Maluku and North Maluku	4,877	469.12	-	-	-	-	4,877	469.12
- Maluku	2,875	274.82	-	-	-	-	2,875	274.82
- North Maluku	2,002	194.30	-	-	-	-	2,002	194.30
UIW Papua and West Papua	5,445	669.62	-	-	-	-	5,445	669.62
- Papua	3,402	396.24	-	-	-	-	3,402	396.24
- West Papua	2,043	273.39	-	-	-	-	2,043	273.39
UID Bali	12,711	2,020.88	-	-	-	-	12,711	2,020.88
UIW West Nusa Tenggara	5,849	740.10	-	-	-	-	5,849	740.10
UIW East Nusa Tenggara	5,253	394.52	-	-	-	-	5,253	394.52
PT PLN Batam	-	-	-	-	-	-	-	-
UIK Northern Part of Sumatera	-	-	-	-	-	-	-	-
UIK Southern Part of Sumatera	-	-	-	-	-	-	-	-
UIP3B Sumatera	-	-	-	-	-	-	-	-
<b>Outside Java</b>	<b>232,057</b>	<b>23,687.50</b>	-	-	-	-	<b>232,057</b>	<b>23,687.50</b>
UID East Java	66,082	8,493.27	-	-	-	-	66,082	8,493.27
UID Central Java and Yogyakarta	140,690	7,963.79	-	-	-	-	140,690	7,963.79
- Central Java	123,032	6,955.05	-	-	-	-	123,032	6,955.05
- D.I. Yogyakarta	17,658	1,008.74	-	-	-	-	17,658	1,008.74
UID West Java	58,058	9,816.39	-	-	-	-	58,058	9,816.39
UID Banten	16,684	3,866.71	-	-	-	-	16,684	3,866.71
UID Jakarta Raya	13,973	7,728.24	-	-	-	-	13,973	7,728.24
PT Indonesia Power	-	-	-	-	-	-	-	-
PT PJB	-	-	-	-	-	-	-	-
UIT Western Part of Java	-	-	-	-	-	-	-	-
UIT Central Part of Java	-	-	-	-	-	-	-	-
UIT Eastern Part of Java and Bali	-	-	-	-	-	-	-	-
<b>Java</b>	<b>295,487</b>	<b>37,868.40</b>	-	-	-	-	<b>295,487</b>	<b>37,868.40</b>
<b>Indonesia</b>	<b>527,544</b>	<b>61,555.90</b>	-	-	-	-	<b>527,544</b>	<b>61,555.90</b>

# Annual Data 2020

**Table 32 : Balance Sheet (million Rp)**

**2020**

Description	Description	December 2020	
<b>FIXED ASSETS</b>	<b>EQUITY</b>	939,812,592	
- Total Fixed Assets	1,338,905,004		
- Accumulation Depreciation	(102,773,842)		
Total Fixed Assets (Net)	1,236,131,162	Total Equity	
		939,812,592	
	<b>LONG TERM LIABILITIES</b>	499,587,950	
P D P and ATTB	165,757,325	- Deffered Tax Liabilities	31,746,600
- Other Non-current Assets	58,434,612	- Long Term Loan	407,395,900
- Receivables from Government	17,275,490	- Other Long Term Liabilities	5,835,997
- Investments in Associates and Joint Ventures	14,112,585	- Employee Benefit Liabilities	54,609,453
- Deferred Tax Assets	195,289	<b>SHORT TERM LIABILITIES</b>	149,659,239
<b>CURRENT ASSETS</b>		- Trade Payables	39,148,555
- Cash & Bank	54,735,434	- Short Term Loan	45,016,344
- Receivables from Government	819,067	- Other Short Term Liabilities	56,993,558
- Temporary Investment	366,708	- Employee Benefit Liabilities	8,500,782
- Receivable	21,278,416		
- Inventories	10,277,289		
- Other Current Assets	9,676,404		
Total Current Assets	97,153,318	Total Long Term & Short Term Liabilities	649,247,189
<b>TOTAL ASSETS</b>	<b>1,589,059,781</b>	<b>TOTAL EQUITY &amp; LIABILITIES</b>	<b>1,589,059,781</b>

**Table 33 : Profit and Loss (million Rp)** 2020

Description	December 2020
<b>OPERATION REVENUE</b>	
- Electricity Sales	274,898,464
- Connection Fees	312,725
- Government Subsidy	47,988,114
- Compensation Revenue	17,904,508
- Others	4,311,826
<b>Total Operation Revenue</b>	<b>345,415,637</b>
<b>OPERATION COST</b>	
- Electricity Purchase and Diesel Rented	101,752,938
- Fuel and Lubricant Oil	106,014,285
- Maintenance	21,940,509
- Personnel	24,965,707
- Depreciation	39,142,580
- Others	7,192,146
<b>Total Operation Cost</b>	<b>301,008,165</b>
<b>OPERATING PROFIT (LOSS)</b>	
- Other Income (Expenses) - Net	1,916,966
- Others Profit (Loss) - Exchange Rate	-7,742,152
- Finance Income	1,125,519
- Finance Expenses	-27,415,886
- Profit (Loss) Before Tax	12,291,919
- Tax Benefit (Expense)	-6,298,491
<b>PROFIT (LOSS) FOR THE YEAR</b>	<b>5,993,428</b>

**Table 34 : Fixed Asset and Depreciation (million Rp)** 2020

Function	Saldo 2020	Accumulated Depreciation	Book Value 2020
- Hydro	95,165,664.20	-5,146,929.32	90,018,734.88
- Steam	315,437,262.16	-24,322,697.08	291,114,565.09
- Diesel	25,595,470.60	-2,639,419.76	22,956,050.83
- Gas Turbine	69,503,099.48	-4,037,804.07	65,465,295.41
- Geothermal	17,508,291.77	-1,108,794.40	16,399,497.37
- Combined Cycle	189,958,237.92	-10,757,850.25	179,200,387.68
- Sun	815,101.16	-74,718.38	740,382.79
- Transmission	284,872,514.71	-11,641,670.83	273,230,843.88
- Data Tele Information	9,068,981.65	-3,274,391.62	5,794,590.03
- Distribution and UPD	246,240,397.34	-17,103,049.43	229,137,347.91
- T U L	4,345,417.23	-560,234.94	3,785,182.29
- T U	80,394,566.00	-22,106,283.00	58,288,283.00
<b>TOTAL</b>	<b>1,338,905,004.22</b>	<b>-102,773,843.08</b>	<b>1,236,131,161.14</b>

# Annual Data 2020

**Table 35 : Accounts Receivable (million Rp)**

**2020**

PLN Operational Unit	Non					Total
	Public	Armed Force	Non Armed Force	Local Government	BUMN	
UIW Aceh	113,376.54	39,103.82	2,727.90	76,192.12	5,819.31	237,219.69
UIW North Sumatera	779,970.37	34,298.46	11,512.99	59,651.12	19,253.15	904,686.09
UIW West Sumatera	157,895.89	9,570.46	5,632.18	17,712.20	69,026.31	259,837.04
UIW Riau	357,005.09	21,628.88	5,728.61	68,663.75	10,671.15	463,697.49
UIW South Sumatera, Jambi and Bengkulu	635,830.56	33,182.16	8,507.39	60,321.02	19,022.06	756,863.19
UIW Bangka Belitung	39,974.63	1,623.69	1,122.00	3,163.75	2,512.37	48,396.45
UID Lampung	398,947.51	3,229.70	3,707.63	21,099.09	4,377.31	431,361.25
UIW West Kalimantan	168,797.27	23,144.92	3,243.73	11,306.95	2,931.61	209,424.47
UIW South and Central Kalimantan	344,077.23	18,776.08	5,338.62	20,822.09	12,883.26	401,897.28
UIW East and North Kalimantan	241,723.54	41,115.85	5,563.00	23,535.35	14,695.66	326,663.41
UIW N, C Sulawesi and Gorontalo	261,022.66	24,975.56	7,706.37	63,910.79	5,893.19	363,508.57
UIW S, SE and W Sulawesi	717,436.71	55,600.16	11,665.02	33,944.25	17,919.55	836,565.67
UIW Maluku and North Maluku	60,851.25	23,714.24	4,911.72	4,839.86	5,311.20	99,628.27
UIW Papua and West Papua	72,606.26	45,579.35	5,046.39	9,443.64	5,692.21	138,367.85
UID Bali	329,191.70	13,538.01	5,791.93	12,930.21	6,112.92	367,564.77
UIW West Nusa Tenggara	85,110.58	4,827.19	1,919.91	9,976.23	2,717.57	104,551.47
UIW East Nusa Tenggara	18,735.45	8,568.38	2,450.42	4,540.65	5,967.37	40,262.27
PT PLN Batam	299,669.45	7,657.96	1,637.18	2,377.68	652.45	311,994.73
Outside Java	5,082,222.69	410,134.87	94,212.99	504,430.75	211,458.65	6,302,459.96
UID East Java	2,776,570.61	86,979.06	25,736.12	95,754.06	128,750.85	3,113,790.70
UID Central Java and Yogyakarta	1,743,550.60	60,187.42	29,756.89	83,671.33	28,333.24	1,945,499.48
UID West Java	4,363,200.71	109,899.95	27,483.80	81,436.43	56,279.69	4,638,300.58
UID Jakarta Raya	2,931,239.17	268,993.56	98,909.94	71,099.55	21,147.35	3,391,389.56
UID Banten	2,058,929.16	24,801.29	7,890.08	19,007.34	45,411.71	2,156,039.58
Java	13,873,490.25	550,861.28	189,776.83	350,968.71	279,922.84	15,245,019.90
Indonesia	18,955,712.94	960,996.15	283,989.82	855,399.46	491,381.49	21,547,479.86

Note: Data from Aplikasi Pengelolaan Pelanggan Terpusat (AP2T)

**Table 36 : Average Collection Rate****2020**

PLN Operational Unit	Sales (million Rp)	Accounts Receivable (million Rp)	Average (day)
UIW Aceh	2,524,488.54	237,219.69	34.30
UIW North Sumatera	11,657,314.96	904,686.09	28.33
UIW West Sumatera	3,519,384.80	259,837.04	26.95
UIW Riau and Riau Archipelago	7,063,444.05	463,697.49	23.96
UIW South Sumatera, Jambi and Bengkulu	9,160,675.75	756,863.19	30.16
UIW Bangka Belitung	1,486,580.00	48,396.45	11.88
UID Lampung	4,762,693.37	431,361.24	33.06
UIW West Kalimantan	2,822,749.79	209,424.47	27.08
UIW South and Central Kalimantan	4,627,054.45	401,897.28	31.70
UIW East and North Kalimantan	5,063,136.95	326,633.40	23.55
UIW N, C Sulawesi and Gorontalo	3,657,366.86	363,508.57	36.28
UIW S, SE and W Sulawesi	8,017,663.46	836,565.67	38.08
UIW Maluku and North Maluku	1,250,504.63	99,628.27	29.08
UIW Papua and West Papua	2,084,314.39	138,367.83	24.23
UID Bali	6,214,049.69	367,564.77	21.59
UIW West Nusa Tenggara	1,865,847.64	104,551.47	20.45
UIW East Nusa Tenggara	1,206,729.63	40,262.27	12.18
PT PLN Batam	3,492,395.71	311,994.73	32.61
Outside Java	80,476,394.65	6,302,459.96	28.58
UID East Java	37,846,799.73	3,113,790.70	30.03
UID Central Java and Yogyakarta	26,345,695.15	1,945,499.48	26.95
UID West Java	51,558,521.12	4,638,300.58	32.84
UID Jakarta Raya	40,573,064.71	3,391,389.56	30.51
UID Banten	24,163,246.07	2,156,039.58	32.57
Java	180,487,326.78	15,245,019.90	30.83
Indonesia	260,963,721.43	21,547,479.86	30.14

# Annual Data 2020

**Table 37 : Generation Cost**

**2020**

Generation Type	Generation Cost (million Rp)					
	Fuel	Maintenance	Depreciation	Other	Personnel	Total
Hydro	350,129.82	333,103.31	2,200,178.71	68,502.98	299,722.06	3,251,636.89
Steam	48,931,096.53	3,998,369.28	11,643,761.38	279,292.61	1,388,400.16	66,240,919.95
Diesel *)	13,309,666.59	1,878,982.16	1,289,786.52	81,598.46	654,007.05	17,214,040.78
Gas Turbine	11,262,194.61	1,167,346.35	1,888,071.65	88,724.52	188,975.45	14,595,312.58
Geothermal	3,558,580.53	121,120.89	484,107.07	-2,144.23	110,984.37	4,272,648.63
Combined Cycle	28,602,616.89	1,035,076.23	5,550,159.43	124,915.10	513,695.55	35,826,463.19
Sun	-	3,309.24	39,493.74	207.61	5,787.10	48,797.69
<b>Total</b>	<b>106,014,284.98</b>	<b>8,537,307.46</b>	<b>23,095,558.48</b>	<b>641,097.06</b>	<b>3,161,571.74</b>	<b>141,449,819.72</b>
Rented						3,101,333.74

\*) Including Diesel Gas

**Table 38 : Average Generation Cost per kWh**

**2020**

Generation Type	Average Generation Cost per kWh (Rp/kWh)						
	Fuel	Maintenance	Depreciation	Other	Personnel	Interest Expense	
Hydro	29.30	27.88	184.12	5.73	25.08	166.45	438.57
Steam	427.40	34.99	101.89	2.44	12.15	57.68	636.55
Diesel *)	3,287.91	617.44	423.47	26.81	214.91	175.78	4,746.32
Gas Turbine	1,083.37	128.90	208.47	9.80	20.87	160.39	1,611.79
Geothermal	850.04	28.93	115.51	-0.51	26.51	87.41	1,107.89
Combined Cycle	950.32	34.39	184.40	4.15	17.07	131.90	1,322.23
Sun	-	594.05	7,089.57	37.27	1,038.85	3,057.99	11,817.73
<b>Average</b>	<b>946.91</b>	<b>209.51</b>	<b>1,186.77</b>	<b>12.24</b>	<b>193.63</b>	<b>548.23</b>	<b>3,097.30</b>
Rented ***)							1,566.53

\*) Including lubricants

\*\*) Including Diesel Gas

\*\*\*) Total Rented Generation Cost

Note: Generation Cost in this Table from Generation Own by PLN (Including Projects)

**Table 39 : Financial Ratios****2020**

Indicator	Unit	2020
<b>I. Financial Indicators</b>		
- Cash	%	36.82
- Rentability Ratio	%	0.64
- Solvability Ratio	%	40.90
- Liquidity Ratio	%	64.92
<b>II. Financial Covenant</b>		
- CICR	Times	2.74
- Financial Liabilities to Total Assets	%	27.75
- EBITDA Interest Coverage Ratio	Times	3.16
<b>III. Operating Activity (Financial)</b>		
- Fixed Assets Turnover	Times	0.19
- Average Period or Receivable Collection	Day	30.89
- Receivable Turnover	Times	11.85
- Material Turnover	Times	3.16

# Annual Data 2020

**Table 40 : Number of Employees by Grade**

**2020**

PLN Operational Unit/Province	Integration (0-3)	Advance (4-6)	Optimazion (7-10)	System (11-14)	Specific (15-18)	Basic (19-26)	Total
UIW Aceh	344	414	160	13	3	1	935
UIW North Sumatera	509	636	184	15	6	-	1,350
UIW West Sumatera	370	363	134	6	2	1	876
UIW Riau and Riau Archipelago	349	402	142	8	2	-	903
UIW South Sumatera, Jambi and Bengkulu	375	494	147	13	2	1	1,032
UIW Bangka Belitung	147	164	55	7	1	-	374
UID Lampung	203	316	72	11	1	-	603
UIW West Kalimantan	331	306	126	11	1	-	775
UIW South and Central Kalimantan	371	321	197	10	1	1	901
UIW East and North Kalimantan	437	202	110	9	1	1	760
UIW N, C Sulawesi and Gorontolo	483	463	152	17	1	-	1,116
UIW S, SE and W Sulawesi	664	616	241	15	3	1	1,540
UIW Maluku and North Maluku	563	300	129	9	2	-	1,003
UIW Papua and West Papua	693	425	97	7	2	-	1,224
UID Bali	188	340	117	10	5	1	661
UIW West Nusa Tenggara	459	353	96	14	3	-	925
UIW East Nusa Tenggara	437	380	99	12	2	-	930
PT PLN Batam	-	-	-	-	-	-	434
UIK Northern Part of Sumatera	699	398	165	6	1	1	1,270
UIK Southern Part of Sumatera	596	550	173	15	2	-	1,336
UIP3B Sumatera	986	639	157	18	-	1	1,801
UIKL Sulawesi	656	539	136	16	-	-	1,347
UIKL Kalimantan	825	432	184	16	-	1	1,458
<b>Outside Java</b>	<b>10,685</b>	<b>9,053</b>	<b>3,073</b>	<b>258</b>	<b>41</b>	<b>10</b>	<b>23,554</b>
UID East Java	737	1,178	342	41	7	1	2,306
UID Central Java and Yogyakarta	602	913	269	37	9	1	1,831
UID West Java	719	1,103	448	28	7	1	2,306
UID Banten	236	422	144	10	5	1	818
UID Jakarta Raya	351	750	374	31	6	1	1,513
PT Indonesia Power	-	-	-	-	-	-	4,195
PT PJB	-	-	-	-	-	-	3,103
UIT Western Part of Java	456	452	132	18	-	1	1,059
UIT Central Part of Java	819	703	140	18	3	-	1,683
UIT Eastern Part of Java and Bali	562	472	134	15	2	-	1,185
UIP2B	113	270	97	14	3	1	498
UIK Tanjung Jati B	6	34	19	7	1	1	68
<b>Java</b>	<b>4,601</b>	<b>6,297</b>	<b>2,099</b>	<b>219</b>	<b>43</b>	<b>8</b>	<b>20,565</b>
PLN Head Office	166	1,947	675	255	212	60	3,315
PLN Supporting and Service Unit	337	813	352	84	33	3	1,622
PLN Construction Unit	897	1,477	466	102	27	6	2,975
Other Subsidiaries	-	-	-	-	-	-	1,354
<b>Indonesia</b>	<b>16,686</b>	<b>19,587</b>	<b>6,665</b>	<b>918</b>	<b>356</b>	<b>87</b>	<b>53,385</b>

**Table 41 : Number of Employees by Education****2020**

PLN Operational Unit/Province	<= D1-D3	D4-S1	S2	S3	Total
UIW Aceh	679	247	9	-	935
UIW North Sumatera	893	445	12	-	1,350
UIW West Sumatera	602	263	11	-	876
UIW Riau and Riau Archipelago	709	182	12	-	903
UIW South Sumatera, Jambi and Bengkulu	647	367	18	-	1,032
UIW Bangka Belitung	244	120	10	-	374
UID Lampung	352	236	15	-	603
UIW West Kalimantan	521	245	9	-	775
UIW South and Central Kalimantan	615	270	16	-	901
UIW East and North Kalimantan	568	177	15	-	760
UIW N, C Sulawesi and Gorontolo	790	317	9	-	1,116
UIW S, SE and W Sulawesi	983	542	15	-	1,540
UIW Maluku and North Maluku	839	157	7	-	1,003
UIW Papua and West Papua	984	231	9	-	1,224
UID Bali	440	202	19	-	661
UIW West Nusa Tenggara	715	196	14	-	925
UIW East Nusa Tenggara	751	170	9	-	930
PT PLN Batam	-	-	-	-	434
UIK Northern Part of Sumatera	898	361	11	-	1,270
UIK Southern Part of Sumatera	955	363	18	-	1,336
UIP3B Sumatera	1,343	433	25	-	1,801
UIKL Sulawesi	897	433	17	-	1,347
UIKL Kalimantan	1,094	344	20	-	1,458
<b>Outside Java</b>	<b>16,519</b>	<b>6,301</b>	<b>300</b>	<b>-</b>	<b>23,554</b>
UID East Java	1,427	826	53	-	2,306
UID Central Java and Yogyakarta	1,169	620	42	-	1,831
UID West Java	1,439	834	33	-	2,306
UID Banten	464	334	20	-	818
UID Jakarta Raya	921	560	32	-	1,513
PT Indonesia Power	-	-	-	-	4,195
PT PJB	-	-	-	-	3,103
UIT Western Part of Java	733	300	26	-	1,059
UIT Central Part of Java	1,200	454	29	-	1,683
UIT Eastern Part of Java and Bali	848	311	26	-	1,185
UIP2B	198	273	27	-	498
UIK Tanjung Jati B	19	39	10	-	68
<b>Java</b>	<b>8,418</b>	<b>4,551</b>	<b>298</b>	<b>-</b>	<b>20,565</b>
PLN Head Office	436	2,346	524	9	3,315
PLN Supporting and Service Unit	618	853	149	2	1,622
PLN Construction Unit	1,239	1,609	127	-	2,975
Other Subsidiaries	-	-	-	-	1,354
<b>Indonesia</b>	<b>27,230</b>	<b>15,660</b>	<b>1,398</b>	<b>11</b>	<b>53,385</b>

# Annual Data 2020

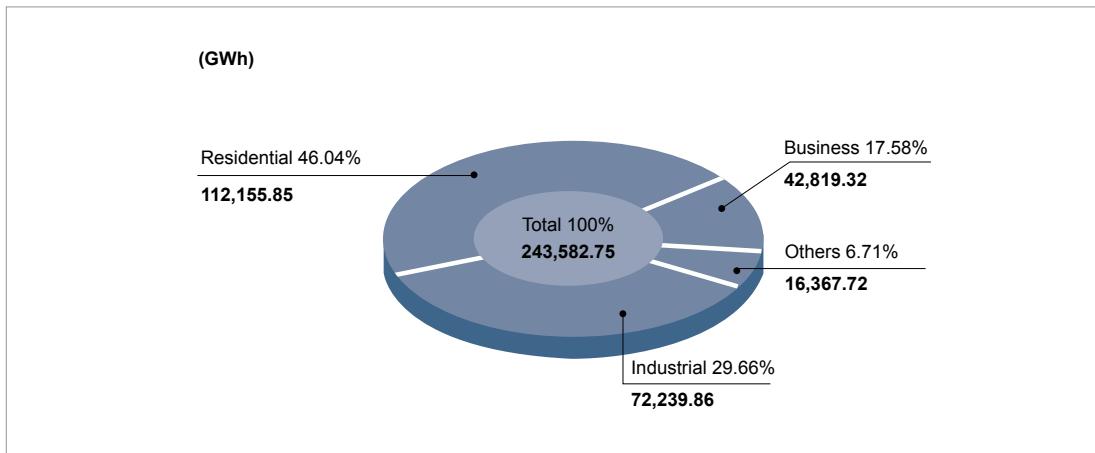
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**Table 42 : Productivity of Employee**

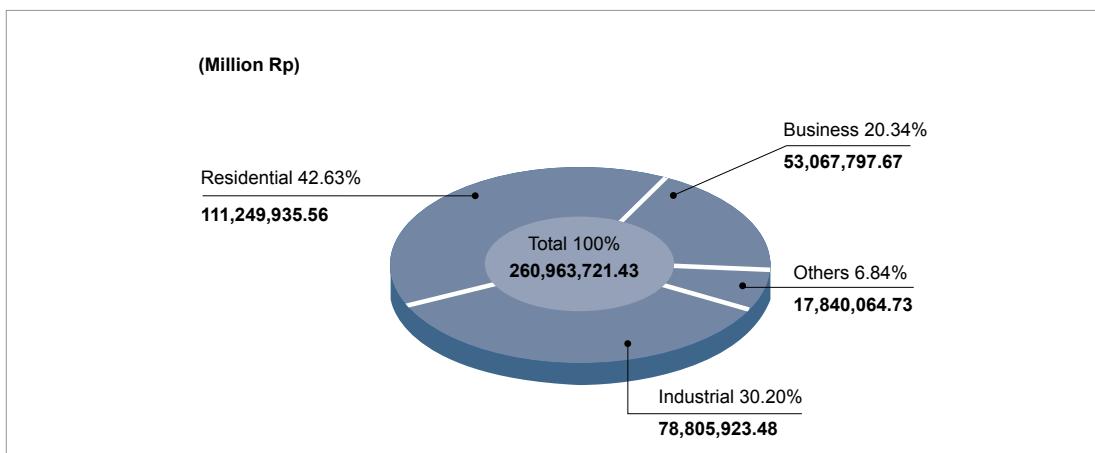
**2020**

PLN Operational Unit/Province	Customers per Employee	kWh Sold per Employee
UIW Aceh	1,665.22	3,142,245.99
UIW North Sumatera	2,932.42	8,291,000.00
UIW West Sumatera	1,698.28	3,914,703.20
UIW Riau and Riau Archipelago	2,369.33	6,483,554.82
UIW South Sumatera, Jambi and Bengkulu	3,632.71	8,074,166.67
UIW Bangka Belitung	1,316.47	3,255,374.33
UID Lampung	3,849.42	8,223,913.76
UIW West Kalimantan	1,639.89	3,504,090.32
UIW South and Central Kalimantan	2,205.30	4,919,755.83
UIW East and North Kalimantan	1,665.85	5,426,131.58
UIW N, C Sulawesi and Gorontolo	1,592.35	3,346,693.55
UIW S, SE and W Sulawesi	2,171.76	4,847,383.12
UIW Maluku and North Maluku	665.74	1,136,051.84
UIW Papua and West Papua	580.64	1,372,434.64
UID Bali	2,312.94	7,483,903.18
UIW West Nusa Tenggara	1,714.91	2,323,697.30
UIW East Nusa Tenggara	999.02	1,218,806.45
UIK Northern Part of Sumatera	-	-
UIK Southern Part of Sumatera	-	-
UIP3B Sumatera	-	-
<b>Outside Java</b>	<b>1,331.04</b>	<b>3,090,183.82</b>
UID East Java	5,390.98	16,311,170.86
UID Central Java and Yogyakarta	6,574.28	15,348,541.78
UID Banten	4,275.01	27,223,361.86
UID West Java	6,577.61	21,484,063.31
UID Jakarta Raya	3,143.09	21,260,218.11
PT Indonesia Power	-	-
PT PJB	-	-
UIP2B	-	-
UIK Tanjung Jati B	-	-
UIK Java Bali	-	-
<b>Java</b>	<b>3,609.67</b>	<b>12,790,716.06</b>
Indonesia (without Subsidiaries)	1,775.73	5,443,452.00
PT PLN Batam	776.22	5,629,654.38
PLN Head office	-	-
PLN Supporting and Service Unit	-	-
PT PJB	-	-
PLN Construction Unit	-	-
Other Subsidiaries	-	-
<b>Indonesia</b>	<b>1,479.82</b>	<b>4,562,756.39</b>

**Graph 1. Energy Sold by Type of Customers (2020)**



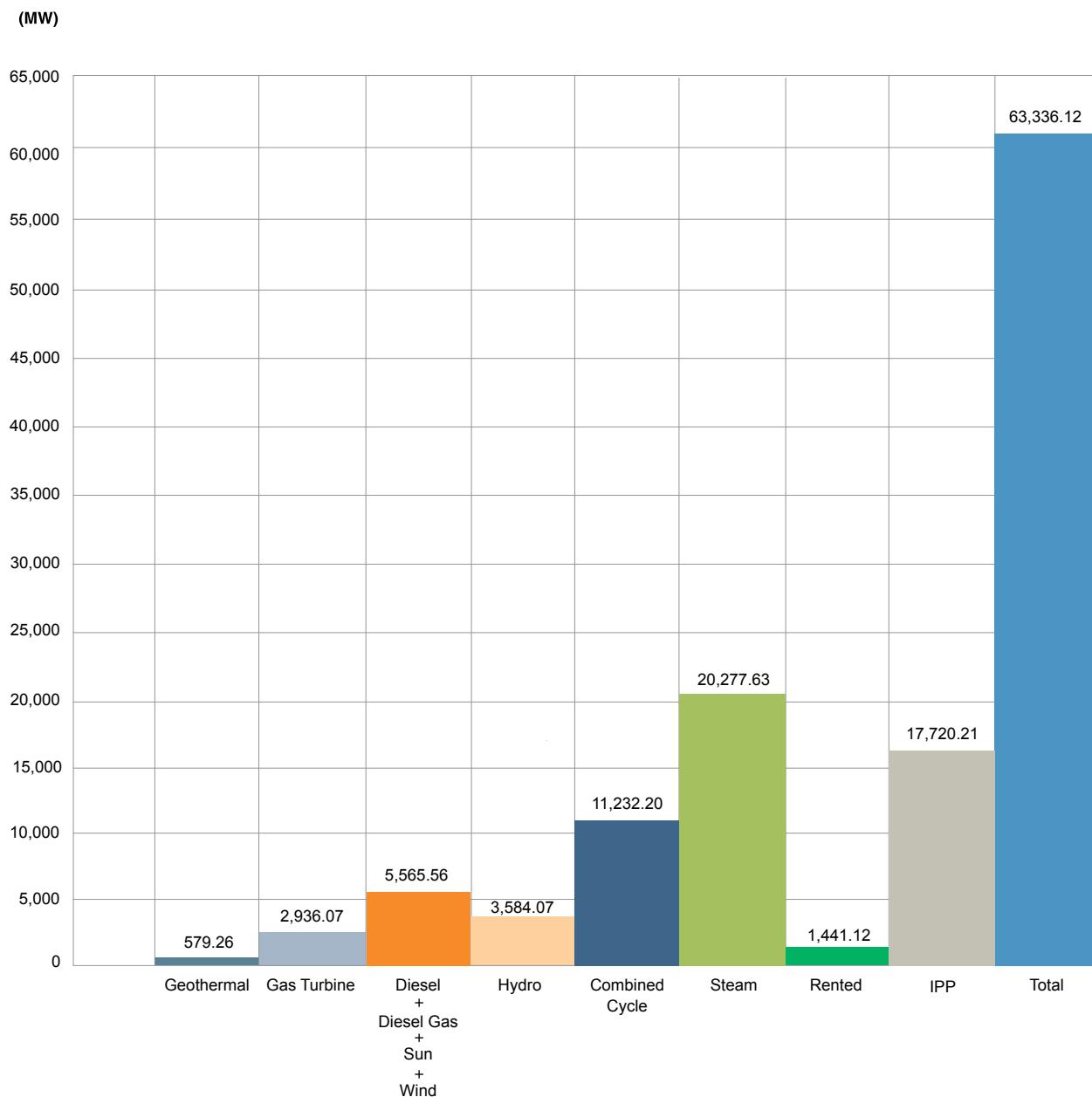
**Graph 2. Revenue (2020)**



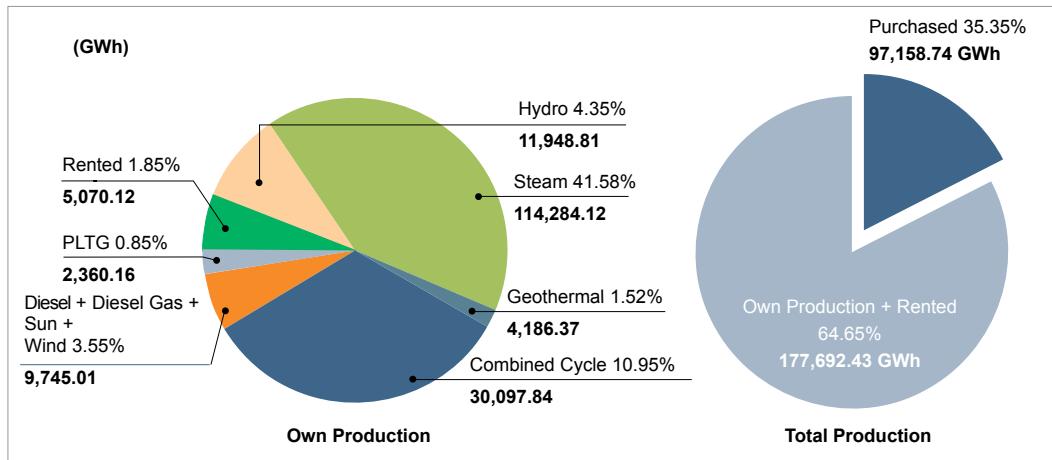
## Annual Data 2020

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**Graph 3. Installed Capacity (2020)**



**Graph 4. Energy Production (2020)**







**PLTU Cilacap**

Photo: Priyambodo

# Data Over Nine Years

## 2012-2020



## Data Over Nine Years 2012 - 2020

**Table 43 : Load Factor, Capacity Factor and Demand Factor (%)** **2012 - 2020**

Year	Load Factor	Capacity Factor	Demand Factor
2012	79.18	51.96	27.54
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

**Table 44 : Number of Customer by Type of Customers**

**2012 - 2020**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2012	46,219,780	52,661	2,218,342	1,032,830	128,252	143,384	49,795,249	8.50
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

## Data Over Nine Years 2012 - 2020

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

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2012	40,869.15	19,980.94	17,228.93	2,892.66	2,060.70	865.37	83,897.75	11.58
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

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

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2012	72,132.54	60,175.96	30,988.64	4,495.57	3,057.21	3,140.82	173,990.74	10.13
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

**Table 47 : Average Energy Sold by Type of Customers (kWh) 2012 - 2020**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
2012	1,561.00	1,142,704.00	13,969.00	4,353.00	23,838.00	21,905.00	3,494.00
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

**Table 48 : Revenue by Type of Customers (million Rp) 2012 - 2020**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total	Δ %
2012	45,563,161.00	42,719,802.00	29,910,220.00	3,045,953.00	2,961,191.00	2,521,320.00	126,721,647.00	12.30
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

## Data Over Nine Years 2012 - 2020

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

**2012 - 2020**

Year	Residential	Industrial	Business	Social	Gov. Office Building	Publ. Street Lighting	Total
2012	631.66	709.91	965.20	677.54	968.59	802.76	728.32
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

**Table 50 : Number of Customers by Type of Voltage**

**2012 - 2020**

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose/ Special Services		
2012	49,683,110	112,008	63	68	49,795,249	8.50
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	5.38
2020	78,887,339	112,594	100	-	79,000,033	4.35

**Table 51 : Energy Sold by Type of Voltage (GWh)****2012 - 2020**

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose/ Special Services		
2012	99,673.70	60,279.38	13,872.45	165.29	173,990.82	10.13
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	147,692.30	80,301.73	17,524.10	-	245,518.13	5.03
2020	155,217.79	72,618.09	15,746.87	-	243,582.75	-0.79

**Table 52 : Revenue by Type of Voltage (million Rp)****2012 - 2020**

Year	Voltage				Total	Δ %
	Low	Medium	High	Multipurpose/ Special Services		
2012	71,438,336.00	44,156,705.00	8,372,715.00	2,753,891.00	126,721,647.00	12.30
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

## Data Over Nine Years 2012 - 2020

**Table 53 : Own Use and Energy Losses**

**2012 - 2020**

Year	Own Use *)		Energy Losses & Own Use					
			Transmission		Distribution		Total	
	(GWh)	(%)	(GWh)	(%)	(GWh)	(%)	(GWh)	(%)
2012	6,563.37	4.38	4,732.21	2.44	13,115.05	6.95	18,221.77	9.40
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

\*) Own use for power station, substation and distribution transformer

**Table 54 : Number of Generating Units \*)**

**2012 - 2020**

Year	Hydro	Steam	Gas Turbine	Com-bined Cycle	Geo-thermal	Diesel	Diesel Gas	Sun	Wind	Biomass	Total	Δ %
2012	216	66	76	66	14	4,576	-	30	4	-	5,048	(4.19)
2013	220	71	77	66	14	4,422	-	50	4	-	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

\*) 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

**Table 55 : Installed Capacity (MW) \*****2012 - 2020**

Year	Hydro	Steam	Gas Turbine	Combined Cycle	Geo-thermal	Diesel	Diesel Gas	Sun	Wind	Biomass	Total	Δ %
2012	3,515.51	14,445.50	2,973.18	8,814.11	548.00	2,598.64	-	6.20	0.34	-	32,901.48	12.41
2013	3,519.49	15,554.00	2,893.88	8,814.11	568.00	2,847.78	-	7.94	0.43	-	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	-	39,651.79	-0.33
2018	3,582.98	20,192.00	3,133.61	9,812.11	579.50	4,383.42	-	12.07	0.47	-	41,696.17	5.16
2019	3,583.98	20,750.50	3,188.90	10,708.76	579.50	5,029.31	-	14.65	0.47	-	43,856.08	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	44,174.79	0.72

\*) PLN's Power Plant

\*\*) Revised Installed Capacity

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

**Table 56 : Rated Capacity (MW) \*****2012 - 2020**

Year	Hydro	Steam	Gas Turbine	Combined Cycle	Geo-thermal	Diesel	Diesel Gas	Sun	Wind	Total	Δ %
2012	3,435.98	12,910.75	2,342.40	7,288.33	506.50	1,597.24	-	4.66	-	28,085.86	10.36
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**)	3,444.07	16,032.57	2,533.82	7,722.33	549.00	1,685.64	-	7.48	0.02	31,974.93	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

\*) PLN's Power Plant

\*\*) Revised Rated Capacity

## Data Over Nine Years 2012 - 2020

**Table 57 : Energy Production (GWh)**

**2012 - 2020**

Year	Own Generated											Purcha-sed *)	Total	Δ %
	Hydro	Steam	Gas Turbine	Combined Cycle	Geo-thermal	Diesel	Diesel Gas	Wind	Sun	Rented	Sub Total			
2012	10,524.61	73,823.06	5,668.01	34,568.51	3,557.54	3,484.45	55.12	2,85	-	18,070.82	149,754.97	50,562.62	200,317.59	9.21
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	216,188.54	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	2,360.16	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

\*) Project Included

**Table 58 : Consumption of Fuel**

**2012 - 2020**

Year	Oil (kilo litre)				Coal (ton)	Natural Gas (MMSCF)
	HSD*)	IDO	MFO	Total		
2012	6,625,335.00	4,065.00	1,585,395.00	8,214,795.00	35,514,791.00	365,927.00
2013	6,291,667.00	3,221.00	1,179,604.00	7,474,492.00	39,601,034.00	409,890.00
2014	6,330,517.00	3,849.00	1,096,638.00	7,431,005.00	44,604,981.00	450,190.00
2015	4,372,743.00	2,244.00	904,266.00	5,473,892.00	48,125,940.00	48,125,940.00
2016	3,331,125.00	915.00	947,027.00	4,667,032.00	50,556,446.00	505,125.00
2017	2,579,123.00	580.00	718,462.00	3,598,223.00	54,711,847.00	447,072.00
2018	2,780,973.00	28.00	946,516.00	4,055,804.00	60,481,245.00	465,419.00
2019	2,748,816.00	329.00	371,618.00	3,118,762.00	67,008,829.00	479,776.00
2020	2,503,318.00	26.00	166,602.00	2,669,946.00	66,683,392.00	378,246.00

\*) Including biodiesel, olein, and etc.

**Table 59 : Unit Price of Fuel****2012 - 2020**

Year	Oil (Rp/litre) *)				Coal	Natural Gas	Geothermal
	HSD	IDO	MFO	Average	(Rp/kg)	(Rp/MMSCF)	(Rp/kWh)
2012	8,949.35	8,954.18	7,319.67	8,629.80	746.22	63,757.56	693.05
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

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

**Table 60 : Length of Transmission Lines (kmc)****2012 - 2020**

Year	Voltage					Total	% Growth
	25 - 30 kV	70 kV	150 kV	275 kV	500 kV		
2012	7.56	4,228.39	27,780.04	1,028.30	5,052.00	38,096.29	3.75
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

## Data Over Nine Years 2012 - 2020

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**Table 61 : Length of Medium and Low Voltage Lines (kmc)** **2012 - 2020**

Year	Medium Voltage			Total	Low Voltage
	6 - 7 kV	10 - 12 kV	15 - 20 kV		
2012	55.38	242.86	312,751.82	313,050.06	428,906.52
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

# Data Over Nine Years 2016 - 2020

**Table 62 : Balance Sheet (million Rp)**

Description	2020	2019	2018	2017	2016*)
<b>FIXED ASSET</b>					
- Total Fixed Asset	1,338,905,004	1,433,688,124	1,379,072,382	1,241,160,680	1,173,609,211
- Accumulated Despreciation	-102,773,842	-215,711,010	-241,773,450	-181,888,400	-131,074,050
<b>Total Fixed Asset (Net)</b>	<b>1,236,131,162</b>	<b>1,217,977,114</b>	<b>1,137,298,932</b>	<b>1,059,272,280</b>	<b>1,042,535,161</b>
P D P & ATTB	165,757,325	182,708,004	199,179,301	145,296,149	102,994,366
Other Non-Current Assets	58,434,612	20,487,649	25,258,299	19,909,825	14,104,322
Receivables from Government	17,275,490	-	1,031,237	237,181	263,064
Investments in Associates and Joint Ventures	14,112,585	10,300,177	8,726,339	6,878,498	3,829,982
Defferred Tax Assets	195,289	2,215,396	7,578,386	9,566,473	9,882,003
<b>CURRENT ASSETS</b>					
- Cash & Bank	54,735,434	46,598,783	33,294,560	42,291,959	41,909,223
- Receivables from Government	819,067	45,426,981	23,173,464	7,588,977	12,446,110
- Temporary Investment	366,708	334,153	1,216,886	286,697	374,771
- Receivable	21,278,416	25,130,538	23,802,663	22,466,843	21,710,961
- Inventories	10,277,289	12,934,233	15,506,567	12,828,118	11,569,596
- Other Current Assets	9,676,404	20,941,985	16,421,111	8,334,657	10,558,416
<b>Total Current Assets</b>	<b>97,153,318</b>	<b>151,366,673</b>	<b>113,415,251</b>	<b>93,797,251</b>	<b>98,569,077</b>
<b>TOTAL ASSETS</b>	<b>1,589,059,781</b>	<b>1,585,055,013</b>	<b>1,492,487,745</b>	<b>1,334,957,657</b>	<b>1,272,177,975</b>
<b>EQUITY</b>					
<b>TOTAL EQUITY</b>	<b>939,812,592</b>	<b>929,380,413</b>	<b>927,413,857</b>	<b>869,416,604</b>	<b>878,399,457</b>
<b>LONG TERM LIABILITIES</b>					
- Deffered Tax Liabilities	31,746,600	28,121,544	13,420,136	2,066,363	59,725
- Long Term Loan	407,395,900	417,282,904	349,903,145	279,900,856	230,829,546
- Other Long Term Liabilities	5,835,997	133,622	94,427	940,154	156,781
- Employee Benefit Liabilities	54,609,453	50,838,377	43,760,226	43,559,022	41,110,111
<b>SHORT TERM LIABILTIES</b>					
- Trade Payables	39,148,555	52,002,783	48,607,674	43,711,425	30,191,084
- Short Term Loan	45,016,344	36,890,128	38,363,012	37,095,101	43,686,191
- Other Short Term Liabilities	56,993,558	59,461,604	65,051,710	49,705,205	44,250,593
- Employee Benefit Liabilities	8,500,782	10,943,638	5,873,558	8,562,927	3,494,487
<b>Total Long Term &amp; Short Term Liabilities</b>	<b>649,247,189</b>	<b>655,674,600</b>	<b>565,073,888</b>	<b>465,541,053</b>	<b>393,778,518</b>
<b>TOTAL EQUITY &amp; LIABILITIES</b>	<b>1,589,059,781</b>	<b>1,585,055,013</b>	<b>1,492,487,745</b>	<b>1,334,957,657</b>	<b>1,272,177,975</b>

Note : Restate of Financial Report 2016

## Data Over Nine Years 2016 - 2020

**Table 63 : Profit and Loss (million Rp)**

Description	2020	2019	2018	2017	2016
<b>OPERATION REVENUE</b>					
- Electricity Sales	274,898,464	276,061,925	263,477.55	246,586.86	214,139.83
- Connection Fees	312,725	6,934,597	7,309.17	7,113.45	7,052.14
- Government Subsidiary	47,988,114	51,711,774	48,101.75	45,738.22	58,043.27
- Competition Revenue	17,904,508	22,253,517	23,173.46	-	-
- Others	4,311,826	2,644,067	2,111.02	1,594.93	1,629.99
<b>Total Operation Revenue</b>	<b>345,415,637</b>	<b>359,605,880</b>	<b>344,172.96</b>	<b>301,033.46</b>	<b>280,865.22</b>
<b>OPERATION COST</b>					
- Electricity Purchase and Rented Generator	101,752,938	87,181,367	88,539.69	79,018.80	66,274.50
- Fuel & Lubricant Oil	106,014,285	136,084,482	137,266.68	116,947.82	109,492.38
- Maintenance	21,940,509	22,328,178	20,737.60	19,515.61	21,226.74
- Personnel	24,965,707	25,908,771	22,950.09	23,124.51	22,659.97
- Depreciation	39,142,580	35,318,071	30,744.71	29,160.60	27,512.15
- Others	7,192,146	8,620,069	7,950.12	7,706.75	7,284.06
<b>Total Operation Cost</b>	<b>301,008,165</b>	<b>315,440,938</b>	<b>308,188.89</b>	<b>275,474.09</b>	<b>254,449.80</b>
<b>OPERATING PROFIT (LOSS)</b>					
Other Income (Expenses) - Net	1,916,966	-3,667,666	15,663.36	3,409.94	1,092.37
Other Profit (Loss) - Exchange Rate	-7,742,152	9,486,326	-10,926.74	-2,935.14	4,195.21
Finance Income	1,125,519	755,103	804.32	1,066.84	578.51
Finance Expenses	-27,415,886	-24,619,495	-21,624.18	-18,556.93	-18,703.28
<b>PROFIT (LOSS) BEFORE TAX</b>	<b>12,291,919</b>	<b>26,119,210</b>	<b>19,900.84</b>	<b>8,544.07</b>	<b>13,578.23</b>
<b>TAX BENEFIT (EXPENSES)</b>	<b>-6,298,491</b>	<b>-21,797,080</b>	<b>-8,325.08</b>	<b>-4,115.96</b>	<b>-5,427.84</b>
<b>PROFIT (LOSS) FOR THE YEAR</b>	<b>5,993,428</b>	<b>4,322.130</b>	<b>11,575.76</b>	<b>4,428.12</b>	<b>8,150,38</b>

**Table 64 : Fixed Asset & Depreciation (million Rp)**

Year	Sal do	Accumulated Depreciation	Book Value
2020	1,338,905,004	-102,773,842	1,236,131,162
2019	1,433,688,124	-215,711,010	1,217,977,114
2018	1,379,072,382	-241,773,450	1,137,298,932
2017	1,241,160,680	-181,888,400	1,059,272,280
2016	1,173,609,211	-131,074,050	1,042,535,161

**Table 65 : Accounts Receivable (million Rp)****2016 - 2020**

Year	Public	Armed Forced	Non Armed Forced	Local Government	BUMN	Total
2016	20,475,894.69	603,381.57	287,610.55	833,577.53	568,122.63	22,768,586.97
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

**Table 66 : Sales, Accounts Receivable and Average Collection Rate****2016 - 2020**

Year	Sales (Million Rp)	Account Receivable (Million Rp)	Average (day)
2016	214,139,821.41	22,768,586.97	38.81
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

## Data Over Nine Years 2016 - 2020

**Table 67 : Generation Cost (million Rp)** **2016 - 2020**

Year	Hydro	Steam	Diesel	Gas Turbine	Geothermal	Sun	Total
2016	3,775,539.87	51,722,240.34	25,488,964.86	12,016,547.88	4,022,888.00	45,473,117.15	142,533,543.07
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	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	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	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	141,401,022.03

**Table 68 : Average Generation Cost (Rp/kWh)** **2016 - 2020**

Year	Hydro	Steam	Diesel	Gas Turbine	Geothermal	Sun	Total
2016	271.90	532.38	1,828.39	3,103.64	1,016.37	1,085.07	856.28
2017	309.54	806.71	1,879.85	10,090.35	1,980.14	1,094.81	1,087.51
2018	352.39	831.46	2,228.71	5,781.99	2,350.98	1,298.72	1,160.89
2019	599.71	653.12	3,308.26	2,570.03	1,191.25	1,357.75	2,999.73
2020	438.57	636.55	4,746.32	1,611.79	1,107.89	1,322.23	3,097.30

**Table 69 : Financial Ratios****2016 - 2020**

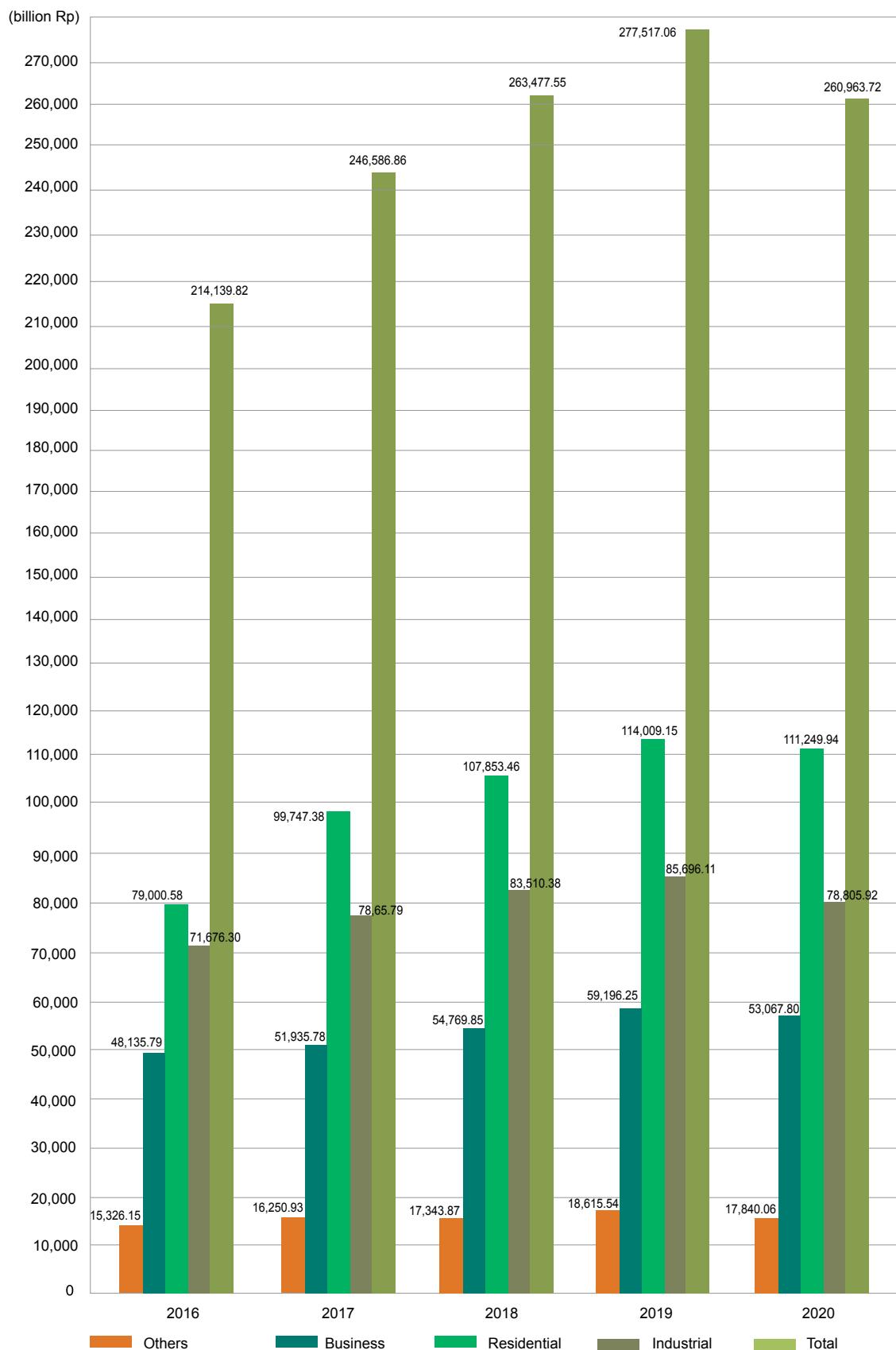
Indicator	Unit	2020	2019	2018	2017	2016
<b>I. Financial Indicator</b>						
- Cash Ratio	%	36.82	0.29	0.21	0.30	0.34
- Rentability Ratio	%	0.64	0.47	1.03	0.51	1.20
- Solvability Ratio	%	40.90	41.37	37.91	34.87	30.95
- Liquidity Ratio	%	64.92	95.02	72.29	67.44	81.05
<b>II. Financial Covenant *)</b>						
- CICR	Kali	2.74	3.11	3.81	3.19	2.98
- Financial Liabilities to Total Assets	%	27.75	28.65	25.35	22.71	20.31
- EBITDA Interest Coverage Ratio	Kali	3.16	3.32	3.50**)	3.05	2.97
<b>III. Operating Activity (Financial)</b>						
- Fixed Assets Turnover	Kali	0.19	0.20	0.21	0.21	0.19
- Average Period of Receivable Collection	Hari	30.89	32.35	32.05	32.70	35.41
- Receivable Turnover	Kali	11.85	11.28	11.39	11.16	10.31
- Material Turnover	Kali	3.16	5.02	0.98	1.07	1.39

\*) 2015 - 2018 Financial Covenant calculation are based on the financial reports, which exclude the impact of ISFAS 8 as stated in the Indenture Global Bonds, Local Bond Trustee Agreement and its amendments, and Consent Solicitation Indenture Global Bonds.

\*\* Adjusted EBITDA includes compensation from Government for reimbursement of Electricity Production Cost ("BPP") of several categories of customers whose tariffs for selling electricity are lower than 2017 BPP, which have not been calculated in 2017 electricity subsidy in amount of IDR 7,456 trillion.

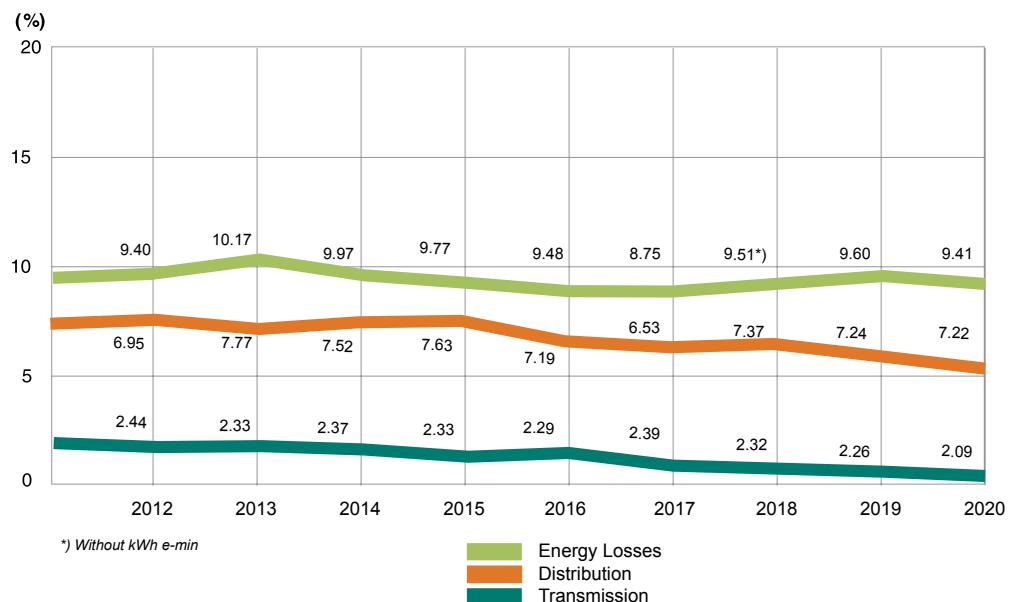
## Data Over Nine Years 2016 - 2020

**Graph 5. Revenues (2015 - 2019)**

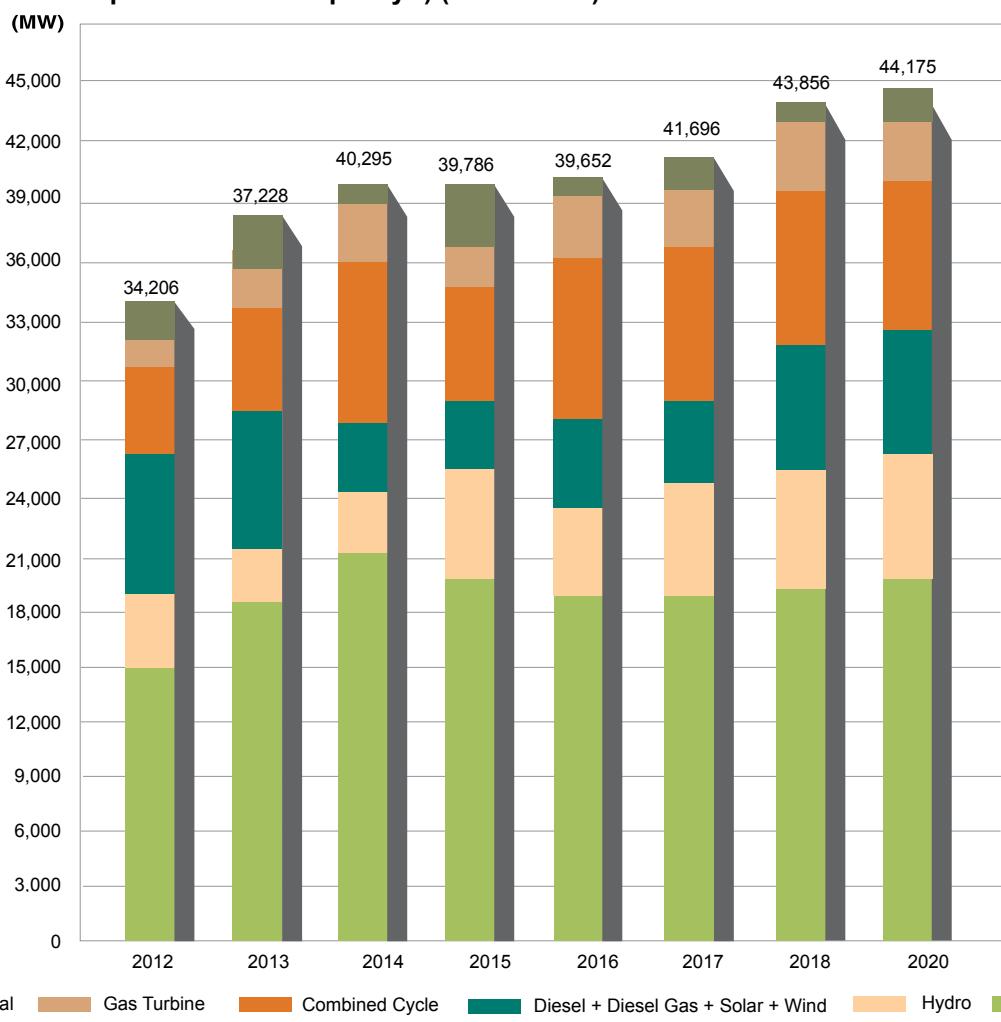


# Data Over Nine Years 2012 - 2020

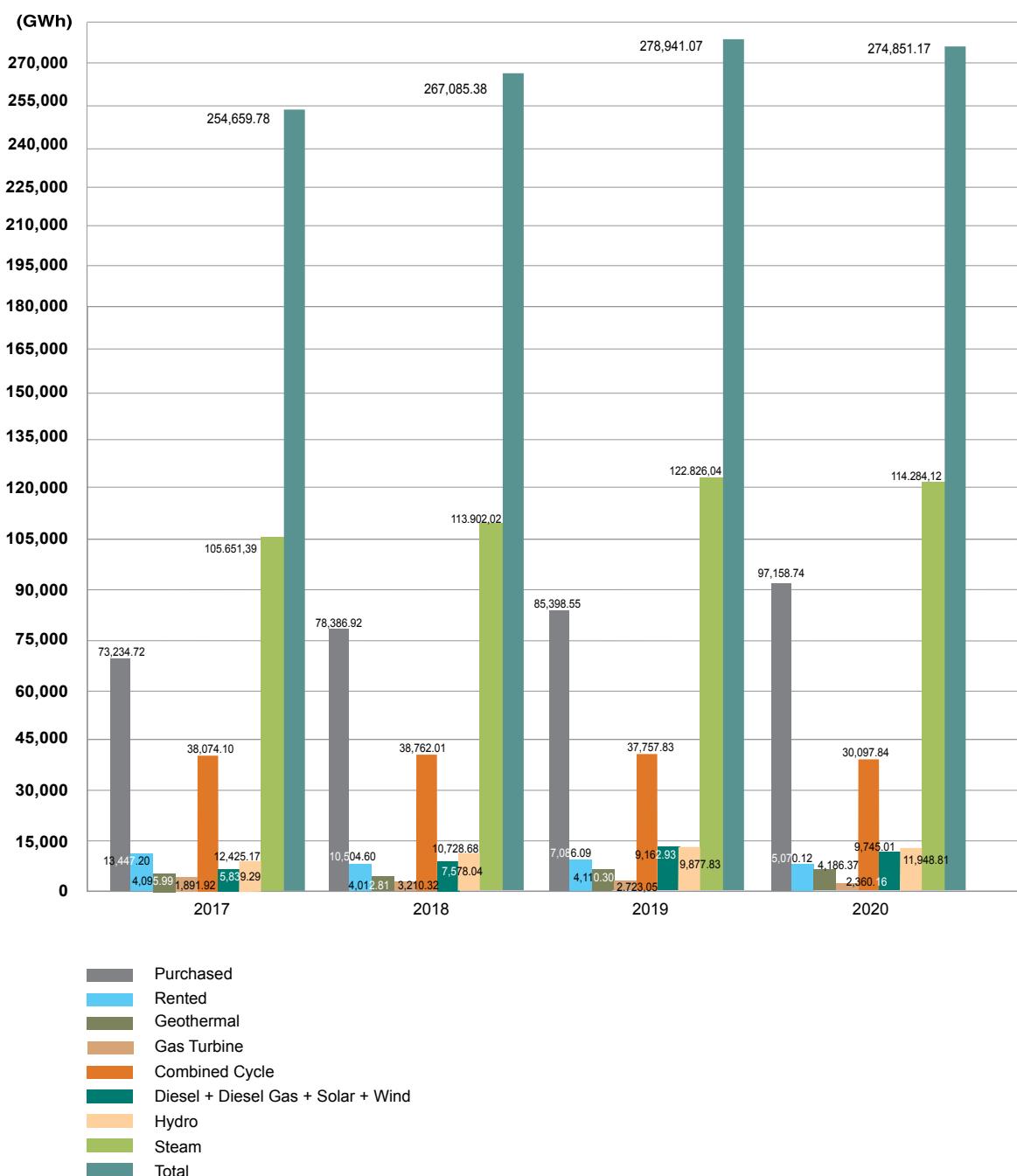
**Graph 6. Energy Losses (2012 - 2020)**



**Graph 7. Installed Capacity \*) (2012 - 2020)**



**Graph 8. Energy Production (2017 - 2020)**



**PLTS Tonsea Lama**  
Photo: Stenly



## **End of Five Years** (Development Plant Data)



## End of Five Year Development Plan Data

**Table 70 : Number of Customers**

**2020**

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 2020
- Residential	913,940	1,584,851	4,046,692	8,665,543	14,191,414	24,902,763	72,606,681
- Industrial	7,145	8,087	16,879	27,773	38,769	43,088	130,722
- Business	78,080	145,588	239,277	356,942	514,816	847,940	4,001,917
- Others	32,977	44,721	103,229	225,680	412,410	639,698	2,260,713
Total	1,032,142	1,783,247	4,406,077	9,275,938	15,157,409	26,433,489	79,000,033

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

**2020**

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2020
- Residential	3.05	11.64	20.62	16.45	8.00	10.97	4.86
- Industrial	(0.55)	2.51	15.85	10.47	4.20	1.62	5.28
- Business	7.17	13.27	10.45	8.33	6.53	11.89	6.52
- Others	10.75	6.28	18.21	16.93	10.36	8.94	5.80
Total	3.51	11.56	19.83	16.05	8.00	10.93	4.96

\*) to the end of year 1999

**Table 72 : Connected Capacity (MVA)**

**2020**

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 2020
- Residential	398.66	992.56	2,648.60	5,397.11	8,914.86	15,887.50	72,096.64
- Industrial	422.55	973.92	1,857.77	4,080.31	7,781.84	10,698.91	31,146.41
- Business	141.06	307.91	770.00	1,382.57	2,780.64	5,665.04	30,277.65
- Others	114.00	184.66	850.29	1,373.75	1,758.99	2,344.39	11,157.51
Total	1,076.27	2,459.05	6,126.66	12,233.74	21,236.33	34,595.84	144,678.22

## End of Five Year Development Plan Data

**Table 73 : Average Growth Rate of Connected Capacity per Year (%)** 2020

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2020
- Residential	10.81	20.01	21.69	15.30	8.27	11.93	6.67
- Industrial	18.24	18.18	13.79	17.04	9.50	5.90	4.91
- Business	9.33	16.90	20.12	12.42	12.18	14.20	7.64
- Others	8.06	10.13	35.72	10.07	3.68	5.43	7.58
Total	12.81	17.97	20.03	14.83	8.74	9.73	6.46

\*) to the end of year 1999

**Table 74 : Energy Sold (GWh)** 2020

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 2020
- Residential	1,077.30	1,962.20	4,291.50	7,274.63	13,140.74	24,865.45	112,155.85
- Industrial	596.00	1,443.40	3,435.90	9,052.24	19,560.98	27,995.54	72,239.86
- Business	220.90	430.90	1,002.50	1,740.14	3,774.97	8,655.96	42,819.32
- Others	320.80	450.40	1,269.80	1,925.83	2,485.34	3,744.46	16,367.72
Total	2,215.00	4,286.90	9,999.70	19,992.84	38,962.03	65,261.41	243,582.75

**Table 75 : Average Growth Rate of Energy Sold per Year (%)** 2020

Type of Customer	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000-2020
- Residential	9.68	12.74	16.94	11.13	10.61	13.25	6.39
- Industrial	21.20	19.35	18.94	21.38	11.36	8.54	3.65
- Business	13.25	14.30	18.39	11.66	13.73	17.04	6.89
- Others	12.38	7.02	23.03	8.69	3.52	7.61	6.92
Total	12.96	14.12	18.46	14.86	10.70	11.09	5.50

\*) to the end of year 1999

**Table 76 : Energy Losses (%)****2020**

Function	First Year FYDP II (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 2020
Transmission	3.90	3.50	3.90	3.01	2.54	2.35	2.08
Distribution	19.90	18.30	16.90	13.87	9.99	9.99	7.22
Total	23.80	21.80	20.80	16.88	12.53	12.34	9.15

**Table 77 : Installed Capacity (MW)****2020**

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 2020
- Hydro	278.77	349.67	536.44	1,969.57	2,178.75	3,006.76	3,584.07
- Steam	225.00	556.25	1,556.25	3,416.95	4,690.60	6,770.60	20,277.63
- 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	11,232.20
- 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	5,547.88
- Sun	-	-	-	-	-	-	16.71
- Wind	-	-	-	-	-	-	0.47
- Biomass	-	-	-	-	-	-	0.50
Total	776.08	2,288.38	3,934.99	8,529.22	13,600.05	20,580.76	44,174.80

\*) The installed capacity of diesel including diesel gas

**Table 78 : Average Growth Rate of Installed Capacity per Year (%)****2020**

Type of Generating	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000 - 2020
- 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	5.36
- Gas Turbine	-	81.57	4.40	3.72	(4.19)	7.58	4.34
- Combined Cycle	-	-	-	-	60.19	11.20	2.37
- Geothermal	-	-	-	36.08	6.85	11.25	2.29
- Diesel	3.90	14.91	11.19	17.66	3.47	3.88	3.77
- Diesel Gas **)	-	-	-	-	-	-	-
- Wind***)	-	-	-	-	-	-	-
- Sun	-	-	-	-	-	-	-
Total	9.30	24.12	11.45	16.73	8.40	7.48	3.66

\*) to the end of year 1999

\*\*) Since year 2004

\*\*\*) Since year 2007

## End of Five Year Development Plan Data

**Table 79 : Energy Production (GWh)**

**2020**

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 2020
<b>Own Production :</b>							
- Hydro	1,029.58	1,384.28	1,816.27	5,226.86	7,858.66	9,649.00	11,948.81
- Steam	713.45	1,523.10	7,365.49	14,218.38	21,784.23	30,512.37	114,284.12
- Gas Turbine	158.32	1,156.73	1,065.60	1,581.98	2,609.44	1,395.50	2,360.16
- Combined Cycle	-	-	-	-	7,794.75	24,940.78	30,097.84
- Geothermal	-	-	209.31	1,011.96	1,090.00	2,616.80	4,186.37
- Diesel	467.90	845.53	1,654.13	2,900.87	4,331.51	5,306.55	3,043.16
- Diesel Gas	-	-	-	-	-	-	6,696.28
- Wind	-	-	-	-	-	-	-
- Sun	-	-	-	-	-	-	5.57
- Rented	-	-	-	-	-	543.61	5,070.12
<b>Sub Total</b>	<b>2,369.25</b>	<b>4,909.63</b>	<b>12,110.81</b>	<b>24,940.05</b>	<b>45,468.59</b>	<b>74,964.61</b>	<b>177,692.43</b>
<b>Purchased</b>	<b>636.73</b>	<b>813.18</b>	<b>1,281.02</b>	<b>682.71</b>	<b>1,250.17</b>	<b>2,938.76</b>	<b>97,158.74</b>
<b>Total Production</b>	<b>3,005.98</b>	<b>5,722.82</b>	<b>13,391.83</b>	<b>25,622.75</b>	<b>46,718.76</b>	<b>77,903.37</b>	<b>274,851.18</b>

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

**2020**

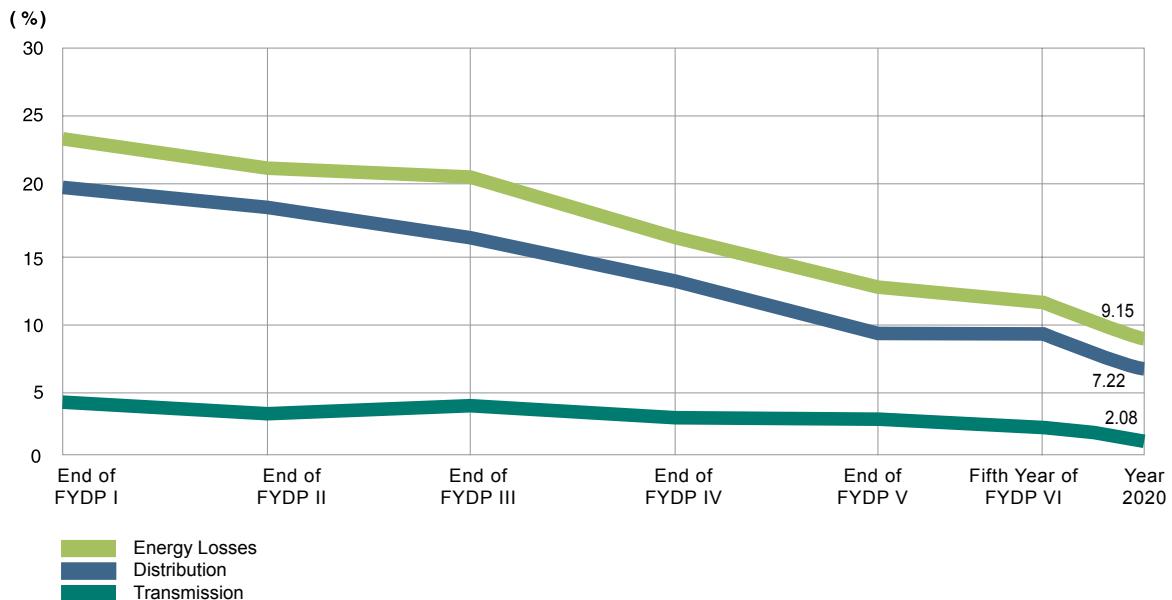
Production	FYDP I	FYDP II	FYDP III	FYDP IV	FYDP V	FYDP VI *)	2000 - 2020
<b>Own Production :</b>							
- Hydro	6.33	6.10	5.58	23.54	3.43	3.11	1.30
- Steam	20.05	16.37	37.05	14.06	5.73	8.05	5.33
- Gas Turbine	16.15	48.85	(1.63)	8.22	12.40	(8.61)	3.07
- Combined Cycle	-	-	-	-	109.54	24.15	0.63
- Geothermal	-	-	-	37.05	1.60	17.30	2.20
- Diesel	12.18	12.56	14.36	11.89	6.53	3.66	(2.92)
- Diesel Gas **)	-	-	-	-	-	-	-
- Wind***)	-	-	-	-	-	-	-
- Sun ***)	-	-	-	-	-	-	-
- Rented	-	-	-	-	-	-	9.99
<b>Sub Total</b>	<b>11.39</b>	<b>15.69</b>	<b>19.79</b>	<b>15.54</b>	<b>9.61</b>	<b>10.44</b>	<b>3.62</b>
<b>Purchased</b>	<b>11.19</b>	<b>5.01</b>	<b>9.52</b>	<b>(11.83)</b>	<b>8.38</b>	<b>23.86</b>	<b>11.92</b>
<b>Total Production</b>	<b>11.34</b>	<b>13.74</b>	<b>18.53</b>	<b>13.86</b>	<b>9.58</b>	<b>10.92</b>	<b>5.28</b>

\*) To the end of year 1999

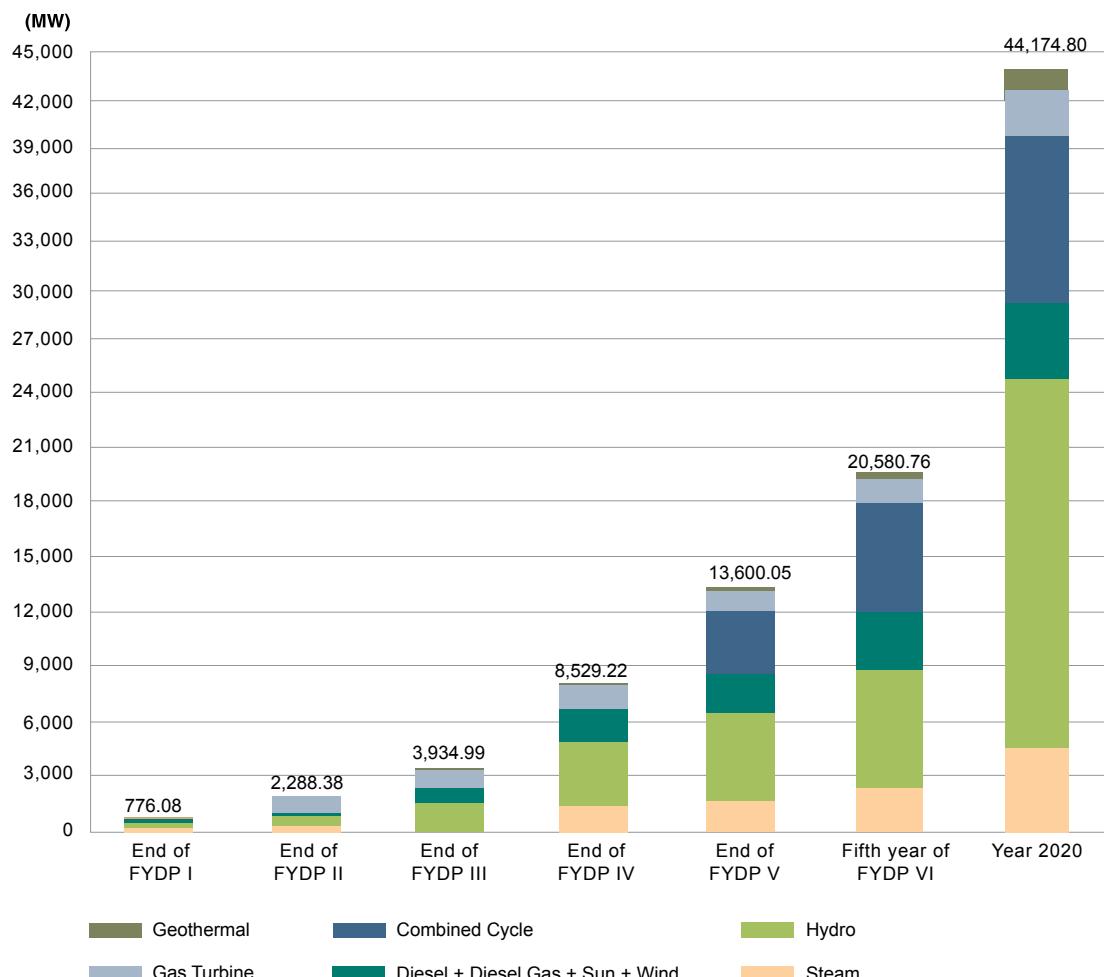
\*\*) Since year 2004

\*\*\*) Since year 2007

**Graph 9. Energy Losses**



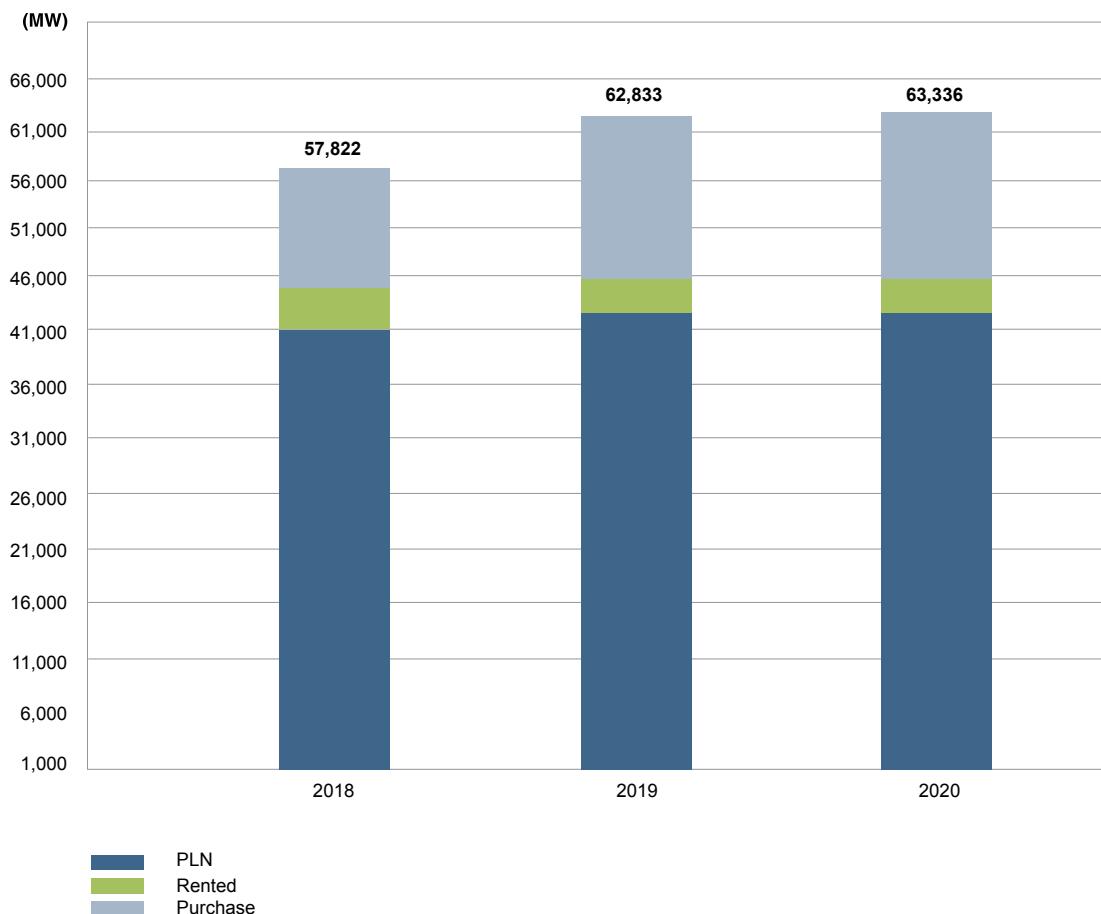
**Graph 10. Installed Capacity**



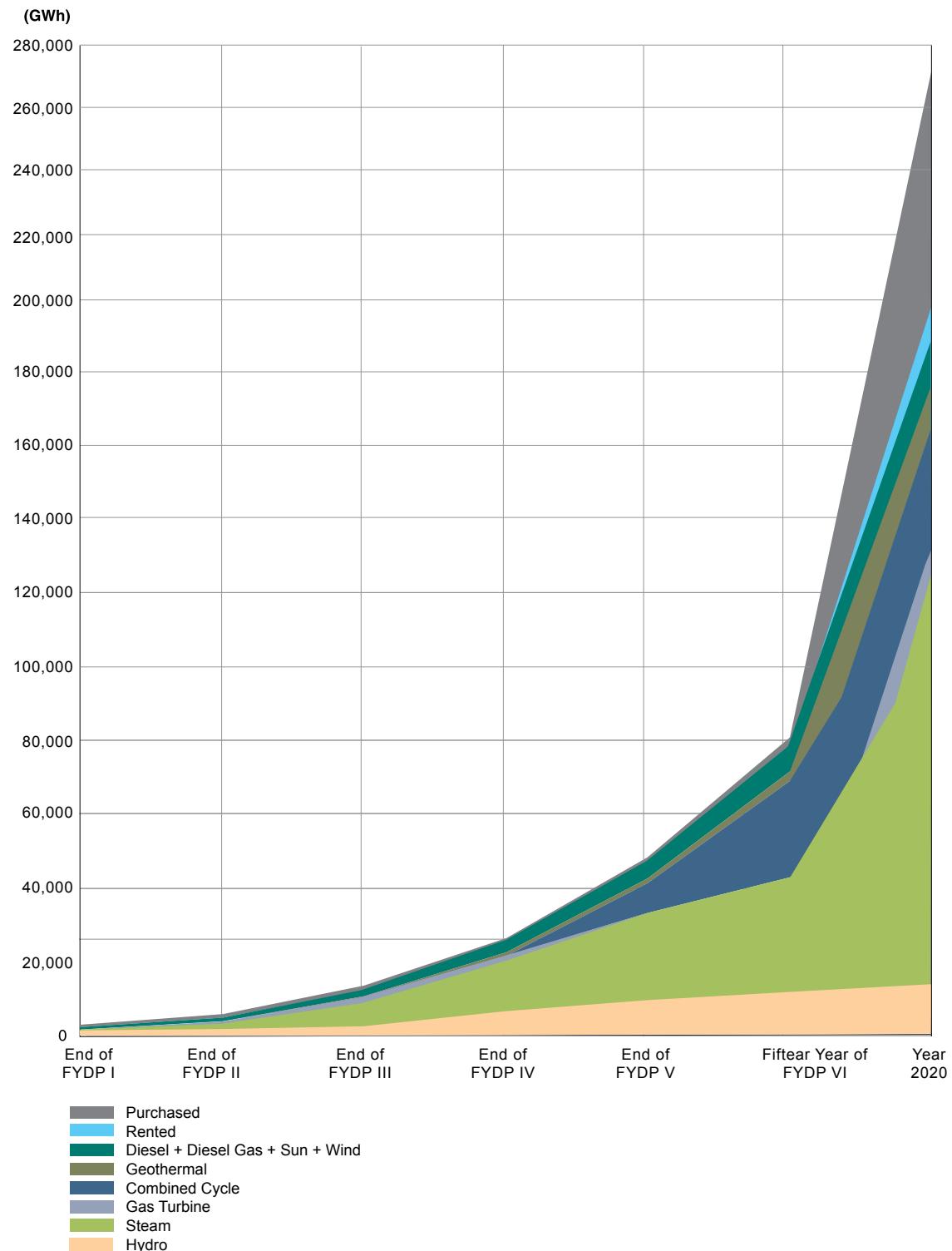
## End of Five Year Development Plant Data

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**Graph 11. Installed Capacity of National**



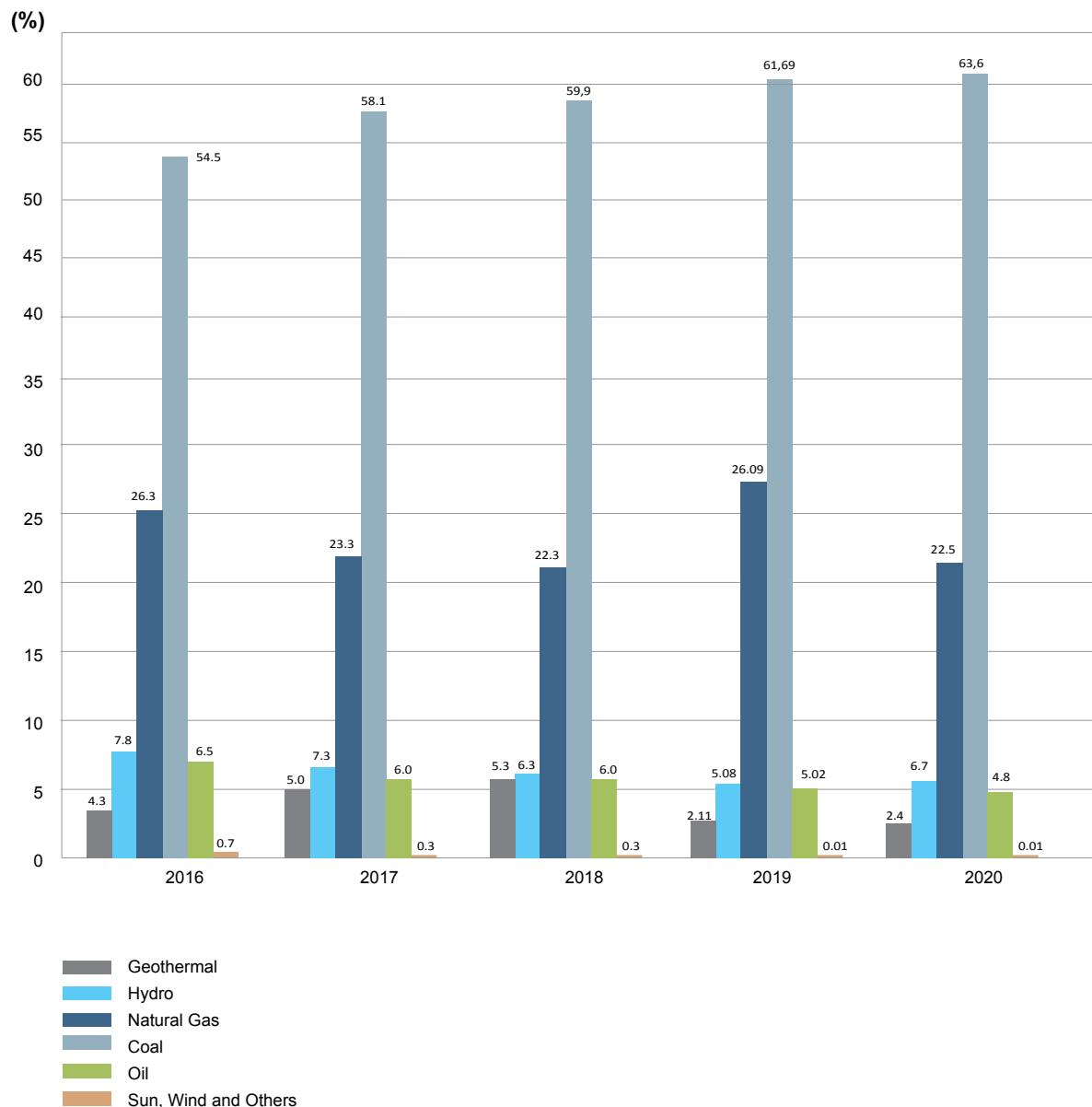
**Graph 12. Energy Production**



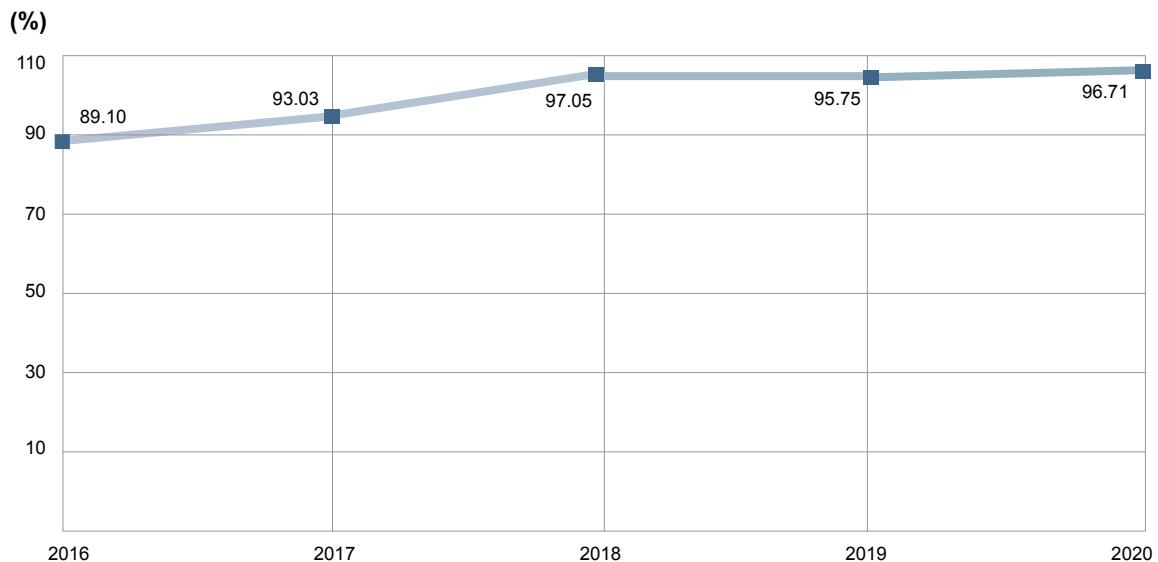
## End of Five Year Development Plant Data

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**Graph 13. Energy Mix in 2016 - 2020**

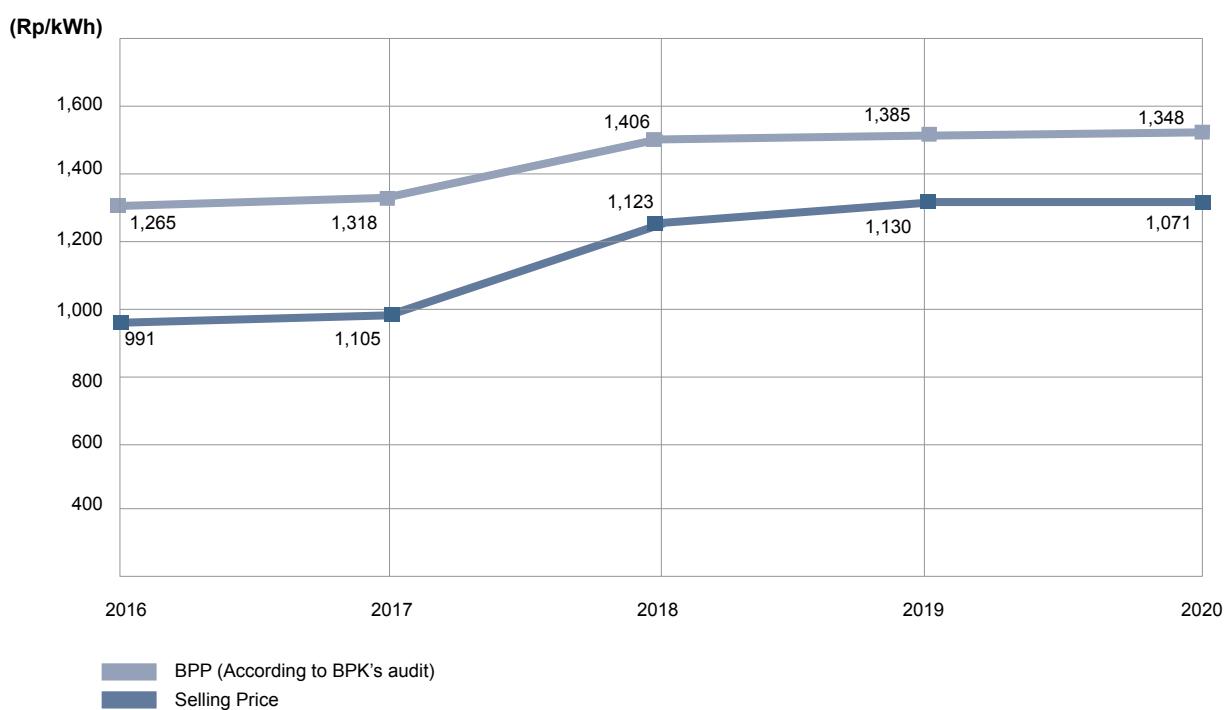


**Graph 14. Electrification Ratio \*)**

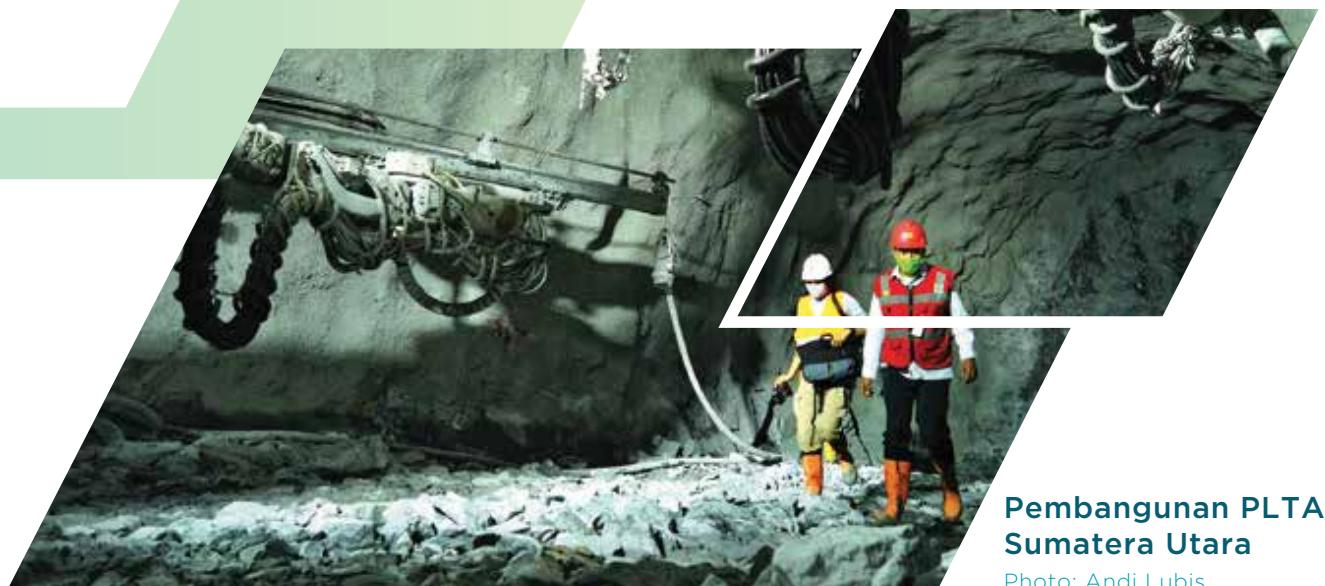


\*) Excluding non PLN Customers

**Graph 15. Basic Cost of Electricity Production and Average Selling Price**







Pembangunan PLTA  
Sumatera Utara

Photo: Andi Lubis

## Operational Regional of PLN

## Operational Region and Location of PLN Region Offices

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# PLN Region Offices and Subsidiaries Address

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## **PT PLN (Persero) UIW Aceh**

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

## **PT PLN (Persero) UIW North Sumatra**

Jl. K.L. Yos Soedarso No. 284, Medan 20115,  
Kotak Pos 2000

## **PT PLN (Persero) UIW West Sumatra**

Jl. Dr. Wahidin No. 8, Padang 25121

## **PT PLN (Persero) UIW Riau and Riau Archipelago**

Jl. Musyawarah, Nangka Ujung  
Kel. Labuh Baru Barat, Kec. Payung Sekaki,  
Pekanbaru, Riau 28233

## **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 – Kalsel

## **PT PLN (Persero) UIW East and North Kalimantan**

Jl. MT. Haryono No. 384,  
Balikpapan 76114

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

Jl. Bethesda No. 32,  
Manado 95116

## **PT PLN (Persero) UIW South Sulawesi, Southeast Sulawesi 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,  
Ambon 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 West Papua and 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) Engineering Electricity Center**

Jl. Aipda KS. Tubun I/2, Petamburan,  
Jakarta 11420

## **PT PLN (Persero) Electricity Maintenance Center**

Jl. Banten No. 10,  
Bandung 40272

## **PT PLN (Persero) 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

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

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

**PT PLN (Persero) Generation of Java Bali**  
Jl. P. Mangkubumi No. 16,  
Yogyakarta 55232

**PT PLN (Persero) Power Plant Development Unit  
of 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**  
Jl. Musyawarah/Nangka Ujung, Kel. Labuh Baru Barat  
Kecamatan Payung Sekaki,  
Pekanbaru, Riau 28233

**PT PLN (Persero) UIT Western Part of Java**  
Jl. JCC, Krukut 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 Interconnection Sumatera  
Java**  
Jl. Aipda K.S. Tubun I No. 2, 3<sup>rd</sup> floor  
Petamburan, Jakarta Barat

**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 Central Part of Java II**  
Jl. Margo Utomo (d/h P. Mangkubumi) No. 16  
Kel. Gowongan, Kec. Jetis  
Yogyakarta 55232

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

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

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

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

**PT PLN (Persero) UIP Central Part of Kalimantan**  
Jl. Mistar Cokrokusumo Km.39  
Banjarbaru, Kalimantan Selatan 70733

**PT PLN (Persero) UIP Northern Part of Sulawesi**  
Jl. Bathesda No. 32  
Kel. Ranotana, Kec. Sario  
Kota Manado 95116

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

## PLN Region Offices and Subsidiaries Address

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### **PT PLN (Persero) UIP Maluku**

Jl. Kapt. Piere Tendean, Halong, Galala  
Ambon 97127

### **PT PLN (Persero) UIP Papua**

Jl. Baru Kotaraja, Kelurahan Wai Mhorock,  
Kecamatan Abepura  
Jayapura, Papua 99225

### **PT Indonesia Power**

Centennial Tower 7-8th Floor  
Jl. Jend. Gatot Subroto Kav. 24-25,  
Jakarta Selatan 12950

### **PT Pembangkitan Jawa Bali (PJTB)**

Jl. Ketintang Baru I, No. 11,  
Surabaya 60231

### **PT Pelayanan Listrik Nasional Batam**

Jl. Engku Putri No. 3, Batam Center,  
Batam 29432

### **PT Indonesia Commets Plus (ICON+)**

Jl. K.H. Abdul Rochim No. 1  
Kuningan Barat, Mampang,  
Jakarta Selatan 12710

### **PT Prima Layanan Nasional Enjiniring**

Jl. Wijaya I, No. 61, Kebayoran Baru,  
Jakarta 12170

### **PT Pelayanan Listrik Nasional Tarakan**

Jl. P. Diponegoro No. 1, Tarakan,  
Kalimantan Timur 77114

### **PT PLN Batubara**

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

### **PT PLN Gas dan Geothermal**

Gedung Kyai Maja, Office Tower Lt. 8  
Jl. Kyai Maja No. 1, Kebayoran Baru,  
Jakarta Selatan 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  
Jakarta Selatan 12760



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Jl. Trunojoyo Blok M 1 - No.135  
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