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# PLN Statistics

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# 2016



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**PLN Statistics 2016**

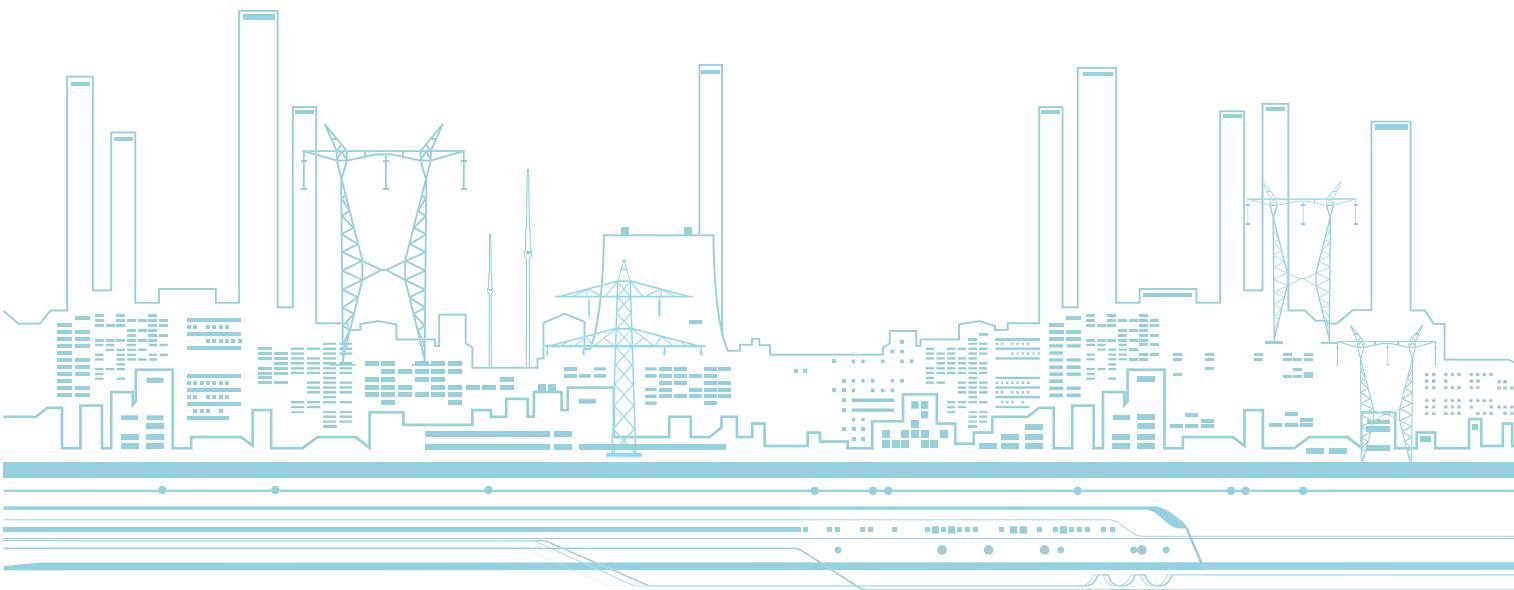
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**PLN**

# PLN Statistics

**2016**



## Preface

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PLN Statistics 2016 contains information on performances of PT PLN (Persero) and its Subsidiary Companies for Calender Year 2016 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, May 2017

PT PLN (Persero)

# Summary

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## 1. Generation

### **Installed Capacity**

At the end of Desember 2016 PT PLN (Persero) and Subsidiary Companies owned and operated about 5,235 generating units with total installed capacity of 39,785.06 MW, of which 29,602.37 MW (74.41%) was installed in Java. The total installed capacity was up 3.97% compared to the end of December 2015.

The total generating plant capacity broken down by type of power plant as follow : Steam Turbine 19,856.35 MW (49.91%), Combine Cycle 9,204.11 MW (23.13%), Diesel 3,353.80MW (8.43%), Hydro 3,567.83 MW (8.97%), Gas Turbine 3,208.15 MW (8.06%), Geothermal 580.89 MW (1.46%), Solar Cell and Wind 13.93 MW (0.03%).

Total installed capacity included rental and IPP were 54,664.50 MW.

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

The system peak load for the calendar year 2016 was 45,323.22 MW, increased 35.78% over the previous year. The peak load for the Java Bali system was 33,208 MW. This is was up 36.83% over the previous year.

### **Energy Production and Purchase**

The own energy production (included rented) throughout th CY 2016 was 183,805.99 GWh, up 4.16% over the previous year. Of the energy production, 60.88% was produced by PT PLN (Persero) Holding, and 39.12% came from Subsidiary Companies, i.e. PT Indonesia Power, PT PJB, PT PLN Batam and PT PLN Tarakan. Of this own energy production (included rented) broken down by type of primary energy as follow : 56,970.64 GWh (30.99%) was produced by natural gas, 92,658.65 GWh (50.41%) was produced by coal fired, 15,117.95 GWh (8.22%) was produced by oil, 13,885.78 GWh (7.55%) was produced by hydro, 3,958.10 GWh (2.15%) came from geothermal and 1,214.86 GWh (0.66%) was produced by other mix fuel. The share of oil and geothermal decreased over the previous year, but natural gas, coal, and hydro was increased.

The total production (including purchase from utilities outside PLN) during the CY 2016 was 248,610.52 GWh, an increased of 14,628.53 GWh or 6.25% over the previous year. Of this energy production, the energy purchased from other utilities outside PLN amounted 64,801.55 GWh (26.07%). This was increased 7,291.78 GWh or 12.68% over the previous year. From the total energy purchased, the greater part were 7,603 GWh (11.73%) from PT Jawa Power, and 8,059 GWh (12.44%) from PT Paiton Energy Company.

## 2. Transmission and Distribution

At the end of CY 2016, the total transmission lines was 44,065.42 kmc of which about 5,056.27 kmc was 500 kV, 1,856.48 kmc was 275 kV, 32,423.02 kmc was 150 kV, 4,669.32 kmc was 70 kV and 60.33 kmc was 25 and 30 kV transmission levels. The total length of distribution lines amounted of 887,241.07 kmc of which about 359,747.24 kmc was medium voltage lines (20 kV, 12 kV, 6-7 kV distribution networks) and 527,493.83 kmc was low voltage lines (220/380 V).

The total capacity of substation transformers operated was 98,898 MVA, increased by 6.74% over the previous year. The total substation transformers was 1,573 unit. This consisted of 58 substation transformers with 500 kV system, 16 substation transformers with 275 kV system, 1,291 substation transformers with 150 kV system, 206 substation transformers with 70 kV system and 2 substation transformers with < 30 kV system.

Total capacity of distribution substation transformers increased by 6.30% to be 50,099 MVA and the total substation transformers increased by 6.90% to be 433,511 units.

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

### 3. Energy Sales

PLN's total energy during the CY 2016 was 216,004.32 GWh, up 6.49% from the previous year. Among group of customers, energy sold to Residential was the major share, consuming 93,634.63 GWh (43.35%) followed by Industry 68,145.32 GWh (31.55%), Commercial 40,074.38 GWh (18.55%), and Others (social, government office building, and public street lighting) 14,149.99 GWh (6.55%).

Electricity sold to Residential, Commercial, Industry, and Others group of customers increased by 5.58%, 8.37%, 6.35%, and 7.96%.

Total number of customers was 64,282,493 at the end of 2016. This was up 5.09% from the end of 2015.

PLN's average power rate per kWh throughout the CY 2016 was 991.37 Rp/kWh, was decreased compared previous year of 1,034.50 Rp/kWh.

### 4. Energy Losses

During the CY 2016, energy losses were 9.48%, consisting of 2.29% transmission losses and 7.19% distribution losses. This was lower than the previous year 9.77%.

### 5. Electrification Ratio \*)

With the growth of total number customers from 61,167,980 at the end of CY 2015 to 64,282,493 at the end of 2016, the electrification ratio reached around 89.10%.

### 6. Financial

In CY 2016, total operation revenues reached Rp. 222,821,956 million out of which electric revenues came to Rp. 214,139,834 million (96.10%), connection fees Rp. 7,052,135 million (3.16%) and other operation revenues Rp. 1,629,986 million (0.73%).

Total operation cost amounted Rp. 254,449,802 million. Government subsidy Rp. 60,411,520 million while the operation profit came to Rp. 28,813,674 million, a significant increased over the previous year that operation profit amounted Rp. 27,887,236 million. The total asset amounted to approximately Rp. 1,274,576,230 million, increased 3.85% from the previous year.

### 7. Human Resources

By the end of December 2016, the total number of PLN employees was 51,158 employee. Employees productivity was 4,222 MWh/employee and 1,257 customer/employee.

\*) Not included non PLN customers

# Explanation

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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*) : 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 2016 means one calendar year as from 1 January 2016 to 31 December 2016.

## 5. Abbreviations

|                |  |                      |  |
|----------------|--|----------------------|--|
| Hydro          | : Hydro Power Plant                          | MMSCF                | : $10^6$ Standard Cubic Foot<br>(MM= $10^6$ )  |
| Steam          | : Steam Power Plant                          | MMBTU                | : $10^6$ British Thermal Unit<br>(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                                   | SOD                  | : System Outage Duration                       |
| kWh            | : kilowatt-hour                              | SOF                  | : System Outage Frequency                      |
| MWh            | : megawatt-hour                              | n.a                  | : not available                                |
| GWh            | : gigawatt-hour                              |                      |  |
| kmc            | : kilometer of circuit                       |                      |  |
| MSCF           | : $10^3$ Standard Cubic Foot<br>(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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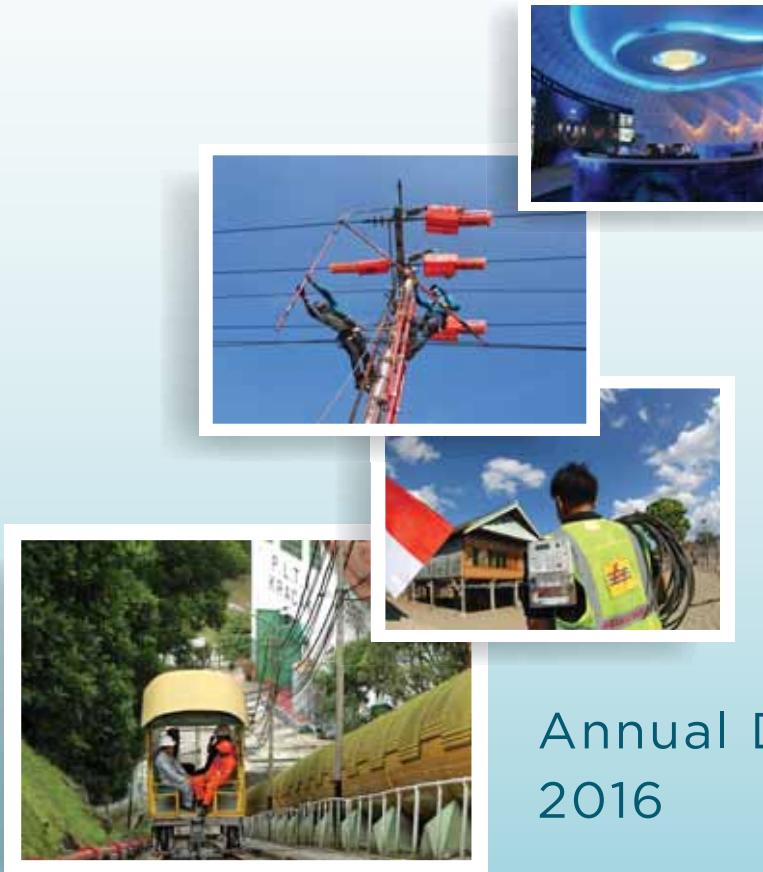
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## Annual Data 2016





# Annual Data 2016

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

**2016**

| PLN Operational Unit/Province                              | Installed Capacity | Rated Capacity   | Peak Load        |
|--|--------------------|------------------|------------------|
| Region of Aceh   | 193.32             | 126.98           | 113.13           |
| Region of North Sumatera                                   | 99.27              | 72.09            | 169.73           |
| Region of West Sumatera                                    | 96.87              | 69.73            | 38.86            |
| Region of Riau   | 481.11             | 377.60           | 312.80           |
| - Riau   | 248.20             | 191.79           | -                |
| - Riau Archipelago   | 232.91             | 185.82           | -                |
| Region of South Sumatera, Jambi & Bengkulu                 | 283.40             | 202.62           | 152.42           |
| - South Sumatera   | 121.43             | 108.52           | -                |
| - Jambi  | 94.51              | 55.38            | -                |
| - Bengkulu   | 67.47              | 38.72            | -                |
| Region of Bangka Belitung                                  | 324.56             | 275.96           | 276.48           |
| Distribution of Lampung                                    | 25.12              | 24.92            | 72.00            |
| Region of West Kalimantan                                  | 851.33             | 597.26           | 768.09           |
| Region of S & C Kalimantan                                 | 890.67             | 777.94           | 729.57           |
| - South Kalimantan   | 710.12             | 642.37           | -                |
| - Central Kalimantan                                       | 180.55             | 135.57           | -                |
| Region of East Kalimantan & North                          | 902.99             | 739.82           | 548.60           |
| Region of N, C Sulawesi & Gorontalo                        | 1,171.26           | 899.32           | 944.62           |
| - North Sulawesi   | 596.23             | 525.88           | -                |
| - Gorontalo  | 77.27              | 48.75            | -                |
| - Central Sulawesi   | 497.76             | 324.70           | -                |
| Region of S, SE & W Sulawesi                               | 1,667.56           | 1,481.69         | 1,374.66         |
| - South Sulawesi   | 1,429.61           | 1,286.80         | -                |
| - Southeast Sulawesi                                       | 231.74             | 190.10           | -                |
| - West Sulawesi  | 6.22               | 4.79             | -                |
| Region of Maluku & North Maluku                            | 361.59             | 228.41           | 178.62           |
| - Maluku   | 290.74             | 175.27           | -                |
| - North Maluku   | 70.85              | 53.14            | -                |
| Region of Papua  | 397.27             | 337.79           | 299.58           |
| - Papua  | 226.05             | 195.46           | -                |
| - West Papua   | 171.23             | 142.33           | -                |
| Distribution of Bali                                       | 16.08              | 11.15            | 6.88             |
| Region of West Nusa Tenggara                               | 447.20             | 373.17           | 377.02           |
| Region of East Nusa Tenggara                               | 381.06             | 241.41           | 162.17           |
| PT PLN Batam   | 562.97             | 460.14           | 401.90           |
| PT PLN Tarakan   | 95.31              | 43.30            | 39.70            |
| Generation of Northern Part of Sumatera                    | 3,587.77           | 2,383.55         | -                |
| Generation of Southern Part of Sumatera                    | 3,056.40           | 2,630.96         | -                |
| Sumatera Trans. & Control Center                           | 1,527.00           | 1,221.60         | 5,148.26         |
| <b>Outside Java</b>  | <b>17,420.13</b>   | <b>13,577.40</b> | <b>12,115.08</b> |
| Dist. East Java  | 59.39              | 43.04            | 16.64            |
| Dist. of Central Java & Yogyakarta                         | 10.93              | 8.00             | 8.84             |
| - Central Java   | 10.75              | 7.82             | -                |
| - D.I. Yogyakarta  | 0.18               | 0.18             | -                |
| Dist. of West Java   | 49.40              | 39.52            | 75.27            |
| Dist. of Banten  | 14.35              | 11.35            | 0.30             |
| Dist. of Jakarta Raya & Tangerang                          | -                  | -                | -                |
| PT Indonesia Power   | 9,207.64           | 8,318.71         | -                |
| PT Java Bali Genco   | 7,322.44           | 7,176.58         | -                |
| Distribution and Load Control Center (P2B)                 | 6,934.87           | 6,836.87         | 33,107.10        |
| Generation of Tanjung Jati B                               | 2,840.00           | 2,840.00         | -                |
| Generation of Western Part of Java                         | 4,711.14           | 4,050.00         | -                |
| Generation of Central Part of Java                         | 3,572.00           | 3,228.00         | -                |
| Generation of Eastern Part of Java & Bali                  | 1,990.00           | 1,821.00         | -                |
| <b>Java</b>  | <b>36,712.15</b>   | <b>34,373.06</b> | <b>33,208.14</b> |
| Power Plant Development Unit (UIP) of Sumatera Power Plant | 110.00             | 110.00           | -                |
| Power Plant Development Unit (UIP) of Central Kalimantan   | 202.22             | 66.16            | -                |
| Power Plant Development Unit (UIP) of East Kalimantan      | 220.00             | 220.00           | -                |
| <b>Indonesia</b>   | <b>54,664.50</b>   | <b>48,346.62</b> | <b>45,323.22</b> |

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

# Annual Data 2016

**Table 2 : Energy Balance**

| PLN Operational Unit/Province                        | Purchased from Outside PLN | Received from Other Unit (GWh) | Own Production (GWh) | Own Use Central |             | Netto Production (GWh) | Own Use Substation Transformer |             |
|--|----------------------------|--------------------------------|----------------------|-----------------|-------------|------------------------|--------------------------------|-------------|
|  |                            |                                |                      | (GWh)           | (%)         |                        | (GWh)                          | (%)         |
| Region of Aceh                                       | 130.15                     | 2,018.12                       | 469.18               | 5.91            | 1.26        | 2,611.54               | -                              | -           |
| Region of North Sumatera                             | 617.97                     | 10,397.19                      | 120.80               | 0.12            | 0.10        | 11,135.84              | -                              | -           |
| Region of West Sumatera                              | 66.84                      | 3,251.27                       | 110.66               | 1.57            | 1.42        | 3,427.20               | -                              | -           |
| Region of Riau                                       | 393.22                     | 3,469.24                       | 1,361.47             | 13.31           | 0.98        | 5,210.62               | 0.32                           | 0.01        |
| Region South Sumatera, Jambi & Bengkulu              | 905.62                     | 7,522.43                       | 119.52               | 0.06            | 0.05        | 8,547.51               | -                              | -           |
| Region of Bangka Belitung                            | 43.30                      | -                              | 1,000.12             | 55.63           | 5.56        | 987.79                 | 0.42                           | 0.04        |
| Distribution of Lampung                              | 139.54                     | 4,649.90                       | 0.13                 | -               | -           | 4,789.57               | -                              | -           |
| Region of West Kalimantan                            | 764.94                     | -                              | 1,805.58             | 34.48           | 1.91        | 2,536.04               | 1.17                           | 0.05        |
| Region of S & C Kalimantan                           | 905.26                     | -                              | 3,187.77             | 196.07          | 6.15        | 3,896.96               | 1.79                           | 0.05        |
| Region of East Kalimantan & North                    | 2,211.20                   | 12.71                          | 1,300.12             | 29.26           | 2.25        | 3,494.77               | 1.44                           | 0.04        |
| Region of N, C Sulawesi & Gorontalo                  | 1,548.90                   | 0.50                           | 1,864.91             | 77.92           | 4.18        | 3,336.39               | 1.27                           | 0.04        |
| Region of S, SE & W Sulawesi                         | 3,928.07                   | 18.83                          | 3,204.92             | 114.74          | 3.58        | 7,037.08               | 3.96                           | 0.06        |
| Region of Maluku & North Maluku                      | -                          | -                              | 1,043.42             | 36.07           | 3.46        | 1,007.35               | -                              | -           |
| Region of Papua                                      | 259.10                     | -                              | 1,247.68             | 52.00           | 4.17        | 1,454.78               | -                              | -           |
| Distribution of Bali                                 | 1.74                       | 5,391.61                       | 0.80                 | 0.02            | 2.50        | 5,394.13               | -                              | -           |
| Region of West Nusa Tenggara                         | 92.91                      | -                              | 1,739.56             | 91.15           | 5.24        | 1,741.32               | 0.71                           | 0.04        |
| Region of East Nusa Tenggara                         | 7.60                       | -                              | 905.75               | 30.47           | 3.36        | 882.88                 | 0.08                           | 0.01        |
| PT PLN Batam   | 787.63                     | -                              | 1,694.67             | 6.65            | 0.39        | 2,475.65               | 1.08                           | 0.04        |
| PT PLN Tarakan                                       | 36.96                      | -                              | 202.44               | 1.69            | 0.83        | 237.71                 | -                              | -           |
| Generation of Northern Part of Sumatera              | -                          | 92.34                          | 13,373.29            | 618.08          | 4.62        | 12,847.55              | -                              | -           |
| Generation of Southern Part of Sumatera              | -                          | 80.53                          | 11,537.14            | 662.99          | 5.75        | 10,954.68              | -                              | -           |
| Sumatera Trans. & Control Center                     | 7,276.33                   | 25,120.69                      | -                    | -               | -           | 32,397.02              | 17.57                          | 0.05        |
| <b>Outside Java</b>                                  | <b>20,117.27</b>           | <b>5,391.61</b>                | <b>46,289.92</b>     | <b>2,028.19</b> | <b>4.38</b> | <b>69,770.61</b>       | <b>29.81</b>                   | <b>0.04</b> |
| Dist. of East Java                                   | 74.38                      | 34,963.45                      | 43.87                | -               | -           | 35,081.70              | -                              | -           |
| Dist. of Central Java & Yogyakarta                   | 34.34                      | 25,995.97                      | -                    | -               | -           | 26,030.31              | -                              | -           |
| Dist. of West Java                                   | 200.71                     | 49,291.30                      | -                    | -               | -           | 49,492.01              | -                              | -           |
| Dist. of Banten                                      | 23.54                      | 22,900.12                      | 0.45                 | -               | -           | 22,924.11              | -                              | -           |
| Dist. of Jakarta Raya & Tangerang                    | -                          | 34,738.77                      | -                    | -               | -           | 34,738.77              | -                              | -           |
| PT Indonesia Power                                   | -                          | 230.72                         | 43,193.97            | 1,879.64        | 4.35        | 41,545.05              | -                              | -           |
| PT Java Bali Genco                                   | -                          | 136.90                         | 26,808.43            | 1,081.22        | 4.03        | 25,864.11              | -                              | -           |
| Distribution and Load Control Center (P2B) Java Bali | -                          | -                              | -                    | -               | -           | -                      | -                              | -           |
| Generation of Tanjung Jati B                         | -                          | 17.17                          | 18,113.77            | 1,190.04        | 6.57        | 16,940.90              | -                              | -           |
| Generation of Western Part of Java                   | -                          | 58.77                          | 25,349.37            | 1,183.40        | 4.67        | 24,224.74              | -                              | -           |
| Generation of Central Part of Java                   | -                          | 97.26                          | 15,142.28            | 978.12          | 6.46        | 14,261.42              | -                              | -           |
| Generation of Eastern Part of Java & Bali            | -                          | 89.24                          | 8,866.91             | 720.06          | 8.12        | 8,236.09               | -                              | -           |
| P2B of Western Part of Java                          | 140.53                     | 57,558.62                      | -                    | -               | -           | 57,699.15              | 26.97                          | 0.05        |
| P2B of Central Part of Java                          | 20,496.31                  | 60,469.79                      | -                    | -               | -           | 80,966.10              | 35.51                          | 0.04        |
| P2B of Eastern Part of Java & Bali                   | 23,714.48                  | 27,456.31                      | -                    | -               | -           | 51,170.79              | 19.38                          | 0.04        |
| <b>Java</b>  | <b>44,684.29</b>           | <b>-</b>                       | <b>137,519.04</b>    | <b>7,032.48</b> | <b>5.11</b> | <b>175,170.85</b>      | <b>81.86</b>                   | <b>0.05</b> |
| <b>Indonesia</b>                                     | <b>64,801.56</b>           | <b>-</b>                       | <b>183,808.96</b>    | <b>9,060.67</b> | <b>4.93</b> | <b>239,549.85</b>      | <b>111.67</b>                  | <b>0.05</b> |

| Transmission Losses<br>(GWh) |        | Send<br>Other<br>Unit | Send to<br>Distribution<br>(GWh) | Own Use |                     |               |                 | Energy Losses |                 |               |                       | Energy Consumption<br>(GWh) (%) |       |   |
|------------------------------|--------|-----------------------|----------------------------------|---------|---------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------------|---------------------------------|-------|---|
|                              | (%)    |                       |                                  | Distr.  | Substation<br>(GWh) | Distr.<br>(%) | Losses<br>(GWh) | Losses<br>(%) | Energy<br>(GWh) | Losses<br>(%) | & Own<br>Use<br>(GWh) | (%)                             |       |   |
| -                            | -      | 0.44                  | 2,611.10                         | 2.35    | 0.09                | 278.82        | 10.68           | 278.82        | 10.68           | 281.17        | 10.77                 | 2,329.93                        | 89.22 |   |
| -                            | -      | 604.88                | 10,530.95                        | 81.22   | 0.73                | 1,209.43      | 10.86           | 1,209.43      | 10.86           | 1,290.65      | 11.59                 | 9,240.31                        | 82.98 |   |
| -                            | -      | 4.14                  | 3,423.06                         | 1.74    | 0.05                | 270.61        | 7.90            | 270.61        | 7.90            | 272.35        | 7.95                  | 3,150.72                        | 91.93 |   |
| 1.83                         | 0.04   | 36.37                 | 5,172.10                         | 4.68    | 0.09                | 556.67        | 10.68           | 558.50        | 10.72           | 563.50        | 10.81                 | 4,610.73                        | 88.49 |   |
| -                            | -      | 631.87                | 7,915.64                         | 7.69    | 0.09                | 1,001.81      | 11.72           | 1,001.81      | 11.72           | 1,009.50      | 11.81                 | 6,906.15                        | 80.80 |   |
| (2.38)                       | (0.24) | -                     | 989.75                           | 0.54    | 0.05                | 69.30         | 7.02            | 66.93         | 6.78            | 67.89         | 6.87                  | 919.91                          | 93.13 |   |
| -                            | -      | 226.58                | 4,562.99                         | 84.05   | 1.75                | 658.64        | 13.75           | 658.64        | 13.75           | 742.70        | 15.51                 | 3,820.30                        | 79.76 |   |
| 29.13                        | 1.15   | -                     | 2,505.73                         | 33.58   | 1.32                | 311.54        | 12.28           | 340.68        | 13.43           | 375.43        | 14.80                 | 2,160.62                        | 85.20 |   |
| 49.10                        | 1.26   | 15.55                 | 3,830.52                         | 0.09    | -                   | 415.76        | 10.67           | 464.86        | 11.93           | 466.74        | 11.98                 | 3,414.67                        | 87.62 |   |
| 23.82                        | 0.68   | -                     | 3,469.50                         | 3.72    | 0.11                | 261.93        | 7.49            | 285.76        | 8.18            | 290.92        | 8.32                  | 3,203.85                        | 91.68 |   |
| 39.84                        | 1.19   | 2.47                  | 3,292.81                         | 1.98    | 0.06                | 407.09        | 12.20           | 446.93        | 13.40           | 450.18        | 13.49                 | 2,883.75                        | 86.43 |   |
| 135.77                       | 1.93   | 0.96                  | 6,896.39                         | -       | -                   | 864.87        | 12.29           | 1,000.64      | 14.22           | 1,004.60      | 14.28                 | 6,031.53                        | 85.71 |   |
| -                            | -      | -                     | 1,007.35                         | -       | -                   | 181.50        | 18.02           | 181.50        | 18.02           | 181.50        | 18.02                 | 825.84                          | 81.98 |   |
| -                            | -      | -                     | 1,454.78                         | -       | -                   | 123.20        | 8.47            | 123.20        | 8.47            | 123.20        | 8.47                  | 1,331.57                        | 91.53 |   |
| -                            | -      | -                     | 5,394.12                         | 4.10    | 0.08                | 290.92        | 5.39            | 290.92        | 5.39            | 295.02        | 5.47                  | 5,099.10                        | 94.53 |   |
| 9.71                         | 0.56   | -                     | 1,730.90                         | 0.18    | 0.01                | 139.40        | 8.01            | 149.11        | 8.56            | 149.99        | 8.61                  | 1,591.32                        | 91.39 |   |
| 1.06                         | 0.12   | -                     | 881.74                           | 0.09    | 0.01                | 52.07         | 5.90            | 53.13         | 6.02            | 53.29         | 6.04                  | 829.59                          | 93.96 |   |
| 4.22                         | 0.17   | 0.07                  | 2,470.29                         | 1.84    | 0.07                | 140.26        | 5.67            | 144.47        | 5.84            | 147.39        | 5.95                  | 2,328.19                        | 94.04 |   |
| -                            | -      | -                     | 237.71                           | -       | -                   | 16.95         | 7.13            | 16.95         | 7.13            | 16.95         | 7.13                  | 220.77                          | 92.87 |   |
| -                            | -      | -                     | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| 1,053.11                     | 3.25   | -                     | -                                | -       | -                   | -             | -               | -             | 1,053.11        | 3.25          | 1,070.68              | 3.30                            | -     | - |
| 1,345.21                     | 1.93   | -                     | 68,377.43                        | 227.85  | 0.33                | 7,250.78      | 10.39           | 8,596.00      | 12.32           | 8,853.65      | 12.69                 | 60,898.87                       | 87.28 |   |
| -                            | -      | 0.20                  | 35,081.49                        | -       | -                   | 2,154.65      | 6.14            | 2,154.65      | 6.14            | 2,154.65      | 6.14                  | 32,926.84                       | 93.86 |   |
| -                            | -      | 0.48                  | 26,029.83                        | -       | -                   | 1,656.74      | 6.36            | 1,656.74      | 6.36            | 1,656.74      | 6.36                  | 24,373.07                       | 93.63 |   |
| -                            | -      | 477.13                | 49,014.89                        | 117.35  | 0.24                | 2,754.30      | 5.57            | 2,754.30      | 5.57            | 2,871.64      | 5.80                  | 46,143.23                       | 93.23 |   |
| -                            | -      | 1,267.88              | 21,656.23                        | 77.94   | 0.34                | 1,209.72      | 5.28            | 1,209.72      | 5.28            | 1,287.66      | 5.62                  | 20,368.56                       | 88.85 |   |
| -                            | -      | 1,133.65              | 33,605.12                        | 118.11  | 0.34                | 2,193.26      | 6.31            | 2,193.26      | 6.31            | 2,311.37      | 6.65                  | 31,293.75                       | 90.08 |   |
| -                            | -      | -                     | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| -                            | -      | 25,864.11             | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| -                            | -      | -                     | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| -                            | -      | -                     | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| -                            | -      | 8,236.08              | -                                | -       | -                   | -             | -               | -             | -               | -             | -                     | -                               | -     |   |
| 1,364.57                     | 2.36   | -                     | -                                | -       | -                   | -             | -               | 1,364.57      | 2.36            | 1,391.54      | 2.41                  | -                               | -     |   |
| 1,796.70                     | 2.22   | -                     | -                                | -       | -                   | -             | -               | 1,796.70      | 2.22            | 1,832.21      | 2.26                  | -                               | -     |   |
| 980.06                       | 1.92   | -                     | -                                | -       | -                   | -             | -               | 980.06        | 1.92            | 999.44        | 1.95                  | -                               | -     |   |
| 4,141.33                     | 2.36   | 5,391.61              | 165,387.56                       | 313.40  | 0.18                | 9,968.67      | 5.69            | 14,110.00     | 8.05            | 14,505.25     | 8.28                  | 155,105.45                      | 88.55 |   |
| 5,486.54                     | 2.29   | 186.65                | 233,764.99                       | 541.25  | 0.23                | 17,219.45     | 7.19            | 22,706.00     | 9.48            | 23,358.90     | 9.75                  | 216,004.32                      | 90.17 |   |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province          | Load Factor<br>(%) | Capacity Factor<br>(%) | Demand Factor<br>(%) |
|--|--------------------|------------------------|----------------------|
| Region of Aceh                             | 60.48              | 35.39                  | 10.44                |
| Region of North Sumatera                   | 49.69              | 84.95                  | 4.38                 |
| Region of West Sumatera                    | 52.14              | 20.92                  | 2.92                 |
| Region of Riau                             | 64.04              | 41.63                  | 15.04                |
| Region of South Sumatera, Jambi & Bengkulu | 76.78              | 41.29                  | 4.75                 |
| Region of Bangka Belitung                  | 42.86              | 36.51                  | 56.31                |
| Distribution of Lampung                    | 22.14              | 63.48                  | 3.75                 |
| Region of West Kalimantan                  | 37.93              | 34.22                  | 75.88                |
| Region of S & C Kalimantan                 | 61.53              | 50.40                  | 48.94                |
| Region of East Kalimantan & North          | 68.74              | 41.76                  | 41.43                |
| Region of N, C Sulawesi & Gorontalo        | 41.26              | 33.27                  | 69.09                |
| Region of S, SE & W Sulawesi               | 59.23              | 48.83                  | 47.52                |
| Region of Maluku & North Maluku            | 66.68              | 32.94                  | 39.18                |
| Region of Papua                            | 57.42              | 43.30                  | 42.13                |
| Distribution of Bali                       | 4.22               | 1.80                   | 0.28                 |
| Region of West Nusa Tenggara               | 54.42              | 45.88                  | 39.94                |
| Region of East Nusa Tenggara               | 64.09              | 27.27                  | 27.78                |
| PT PLN Batam                               | 70.51              | 50.33                  | 38.85                |
| PT PLN Tarakan                             | 68.84              | 28.67                  | 42.30                |
| Generation of Northern Part of Sumatera    | -                  | 42.55                  | -                    |
| Generation of Southern Part of Sumatera    | -                  | 43.09                  | -                    |
| Sumatera Trans. & Control Center           | 15.63              | 52.70                  | -                    |
| <b>Outside Java</b>                        | <b>61.95</b>       | <b>43.09</b>           | <b>42.72</b>         |
| Dist. of East Java                         | 81.14              | 22.73                  | 0.12                 |
| Dist. of Central Java & Yogyakarta         | 44.33              | 35.88                  | 0.09                 |
| Dist. of West Java                         | 30.44              | 46.38                  | 0.42                 |
| Dist. of Banten                            | -                  | 19.08                  | -                    |
| Dist. of Jakarta Raya & Tangerang          | -                  | -                      | -                    |
| PT Indonesia Power                         | -                  | 53.55                  | -                    |
| PT Java Bali Genco                         | -                  | 41.79                  | -                    |
| Distribution and Load Control Center (P2B) | -                  | -                      | -                    |
| Generation of Western Part of Java         | -                  | -                      | -                    |
| Generation of Central Part of Java         | -                  | -                      | -                    |
| Generation of Eastern Part of Java & Bali  | -                  | 72.81                  | -                    |
| Generation of Tanjung Jati B               | -                  | 72.81                  | -                    |
| <b>Java</b>                                | <b>62.40</b>       | <b>56.45</b>           | <b>52.61</b>         |
| <b>Indonesia</b>                           | <b>62.62</b>       | <b>51.92</b>           | <b>49.55</b>         |

**Table 4 : Number of Customers by Type of Customers****2016**

| PLN Operational Unit/<br>Province          | Residential | Industrial | Business  | Social    | Gov. Office<br>Building | Publ<br>Street<br>Lighting | Total      | (%)   |
|--|-------------|------------|-----------|-----------|-------------------------|----------------------------|------------|-------|
| Region of Aceh                             | 1,157,061   | 2,213      | 89,368    | 37,917    | 8,295                   | 1,448                      | 1,296,302  | 2.02  |
| Region of North Sumatera                   | 3,098,909   | 3,867      | 123,284   | 60,699    | 8,498                   | 15,338                     | 3,310,595  | 5.15  |
| Region of West Sumatera                    | 1,141,246   | 408        | 98,665    | 31,629    | 5,891                   | 2,871                      | 1,280,710  | 1.99  |
| Region of Riau                             | 1,397,440   | 365        | 129,009   | 26,534    | 6,376                   | 3,319                      | 1,563,043  | 2.43  |
| - Riau                                     | 1,201,666   | 274        | 105,373   | 22,822    | 4,792                   | 2,845                      | 1,337,772  | 2.08  |
| - Riau Archipelago                         | 195,774     | 91         | 23,636    | 3,712     | 1,584                   | 474                        | 225,271    | 0.35  |
| Region of South Sumatera, Jambi & Bengkulu | 2,671,225   | 953        | 111,533   | 49,283    | 10,786                  | 7,303                      | 2,851,083  | 4.44  |
| - South Sumatera                           | 1,845,736   | 687        | 68,110    | 33,326    | 6,573                   | 5,176                      | 1,959,608  | 3.05  |
| - Jambi                                    | 396,570     | 186        | 26,793    | 7,481     | 1,999                   | 1,375                      | 434,404    | 0.68  |
| - Bengkulu                                 | 428,919     | 80         | 16,630    | 8,476     | 2,214                   | 752                        | 457,071    | 0.71  |
| Region of Bangka Belitung                  | 359,270     | 289        | 22,167    | 6,198     | 2,277                   | 1,188                      | 391,389    | 0.61  |
| Distribution of Lampung                    | 1,736,244   | 716        | 45,380    | 39,223    | 3,498                   | 1,757                      | 1,826,818  | 2.84  |
| Region of West Kalimantan                  | 884,789     | 442        | 64,702    | 19,504    | 4,352                   | 2,575                      | 976,364    | 1.52  |
| Region of S & C Kalimantan                 | 1,397,652   | 695        | 104,952   | 38,583    | 8,821                   | 3,713                      | 1,554,416  | 2.42  |
| - South Kalimantan                         | 963,395     | 542        | 48,497    | 26,527    | 4,882                   | 2,562                      | 1,046,405  | 1.63  |
| - Central Kalimantan                       | 434,257     | 153        | 56,455    | 12,056    | 3,939                   | 1,151                      | 508,011    | 0.79  |
| Region of East Kalimantan & North          | 838,985     | 331        | 51,721    | 16,053    | 4,604                   | 2,122                      | 913,816    | 1.42  |
| Region of N, C Sulawesi & Gorontalo        | 1,301,966   | 705        | 49,639    | 32,053    | 8,440                   | 1,905                      | 1,394,708  | 2.17  |
| - North Sulawesi                           | 561,399     | 379        | 23,325    | 13,077    | 3,184                   | 749                        | 602,113    | 0.94  |
| - Gorontalo                                | 222,657     | 118        | 6,729     | 5,400     | 1,647                   | 372                        | 236,923    | 0.37  |
| - Central Sulawesi                         | 517,910     | 208        | 19,585    | 13,576    | 3,609                   | 784                        | 555,672    | 0.86  |
| Region of S, SE & W Sulawesi               | 2,306,146   | 1,925      | 119,552   | 43,625    | 13,206                  | 4,079                      | 2,488,533  | 3.87  |
| - South Sulawesi                           | 1,743,496   | 1,662      | 88,658    | 31,139    | 8,250                   | 3,258                      | 1,876,463  | 2.92  |
| - Southeast Sulawesi                       | 386,021     | 192        | 19,711    | 7,895     | 3,549                   | 654                        | 418,022    | 0.65  |
| - West Sulawesi                            | 176,629     | 71         | 11,183    | 4,591     | 1,407                   | 167                        | 194,048    | 0.30  |
| Region of Maluku & North Maluku            | 459,643     | 95         | 27,196    | 10,766    | 4,188                   | 644                        | 502,532    | 0.78  |
| - Maluku                                   | 274,273     | 70         | 17,545    | 6,229     | 2,230                   | 206                        | 300,553    | 0.47  |
| - North Maluku                             | 185,370     | 25         | 9,651     | 4,537     | 1,958                   | 438                        | 201,979    | 0.31  |
| Region of Papua                            | 468,281     | 74         | 49,919    | 12,357    | 5,450                   | 1,273                      | 537,354    | 0.84  |
| - Papua                                    | 279,682     | 52         | 30,519    | 7,390     | 2,982                   | 542                        | 321,167    | 0.50  |
| - West Papua                               | 188,599     | 22         | 19,400    | 4,967     | 2,468                   | 731                        | 216,187    | 0.34  |
| Distribution of Bali                       | 1,019,857   | 967        | 193,189   | 31,935    | 3,795                   | 4,872                      | 1,254,615  | 1.95  |
| Region of West Nusa Tenggara               | 1,032,862   | 263        | 36,228    | 20,983    | 3,816                   | 2,281                      | 1,096,433  | 1.71  |
| Region of East Nusa Tenggara               | 590,982     | 158        | 32,638    | 13,597    | 5,434                   | 578                        | 643,387    | 1.00  |
| PT PLN Batam                               | 196,127     | 343        | 96,745    | 2,326     | 372                     | 953                        | 296,866    | 0.46  |
| PT PLN Tarakan                             | 43,701      | 44         | 3,828     | 590       | 452                     | 287                        | 48,902     | 0.08  |
| Outside Java                               | 22,102,386  | 14,853     | 1,449,715 | 493,855   | 108,551                 | 58,506                     | 24,227,866 | 37.69 |
| Dist. of East Java                         | 9,636,944   | 19,896     | 548,672   | 263,238   | 17,494                  | 39,341                     | 10,525,585 | 16.37 |
| Dist. of Central Java & Yogyakarta         | 9,540,163   | 8,374      | 405,790   | 261,667   | 20,597                  | 38,247                     | 10,274,838 | 15.98 |
| - Central Java                             | 8,551,036   | 7,737      | 348,704   | 234,446   | 17,658                  | 32,183                     | 9,191,764  | 14.30 |
| - D.I. Yogyakarta                          | 989,127     | 637        | 57,086    | 27,221    | 2,939                   | 6,064                      | 1,083,074  | 1.68  |
| Dist. of West Java                         | 11,747,972  | 13,999     | 426,509   | 247,926   | 14,178                  | 56,625                     | 12,507,209 | 19.46 |
| Dist. of Banten                            | 2,547,847   | 6,125      | 131,711   | 48,480    | 3,305                   | 4,545                      | 2,742,013  | 4.27  |
| Dist. of Jakarta Raya & Tangerang          | 3,668,360   | 6,382      | 277,367   | 38,844    | 5,353                   | 8,676                      | 4,004,982  | 6.23  |
| Java                                       | 37,141,286  | 54,776     | 1,790,049 | 860,155   | 60,927                  | 147,434                    | 40,054,627 | 62.31 |
| Indonesia                                  | 59,243,672  | 69,629     | 3,239,764 | 1,354,010 | 169,478                 | 205,940                    | 64,282,493 | 100   |
| (%)  | 92.16       | 0.11       | 5.04      | 2.11      | 0.26                    | 0.32                       | 100.00     | -     |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province           | Residential | Industrial | Business  | Social   | Gov. Office<br>Building | Publ. Street<br>Lighting | Total      | (%)   |
|---|-------------|------------|-----------|----------|-------------------------|--------------------------|------------|-------|
| Region of Aceh                              | 856.76      | 63.3       | 248.4     | 92.74    | 64.82                   | 28.07                    | 1,354.09   | 1.18  |
| Region of North Sumatera                    | 2,668.91    | 960.18     | 853.18    | 190.98   | 74.02                   | 91.60                    | 4,838.86   | 4.23  |
| Region of West Sumatera                     | 992.20      | 241.22     | 288.88    | 76.60    | 46.16                   | 17.37                    | 1,662.42   | 1.45  |
| Region of Riau                              | 1,586.08    | 150.03     | 624.78    | 112.22   | 84.33                   | 42.36                    | 2,599.79   | 2.27  |
| - Riau                                      | 1,334.85    | 132.05     | 509.15    | 93.33    | 63.56                   | 37.37                    | 2,170.31   | 1.90  |
| - Riau Archipelago                          | 251.23      | 17.98      | 115.63    | 18.89    | 20.77                   | 4.99                     | 429.49     | 0.38  |
| Region of South Sumatera, Jambi, & Bengkulu | 2,626.25    | 396.52     | 689.68    | 147.01   | 110.35                  | 43.91                    | 4,013.71   | 3.51  |
| - South Sumatera                            | 1,800.16    | 326.90     | 473.45    | 103.27   | 73.30                   | 31.33                    | 2,808.41   | 2.46  |
| - Jambi                                     | 451.87      | 46.26      | 151.50    | 24.82    | 21.00                   | 7.11                     | 702.56     | 0.61  |
| - Bengkulu                                  | 374.22      | 23.36      | 64.73     | 18.92    | 16.05                   | 5.47                     | 502.75     | 0.44  |
| Region of Bangka Belitung                   | 391.09      | 51.46      | 122.12    | 23.02    | 21.39                   | 4.71                     | 613.79     | 0.54  |
| Distribution of Lampung                     | 1,569.75    | 407.33     | 285.18    | 81.99    | 35.92                   | 18.90                    | 2,399.07   | 2.10  |
| Region of West Kalimantan                   | 786.10      | 68.30      | 298.97    | 54.69    | 42.90                   | 14.37                    | 1,265.33   | 1.11  |
| Region of S & C Kalimantan                  | 1,157.15    | 117.25     | 403.96    | 80.69    | 76.93                   | 27.49                    | 1,863.47   | 1.63  |
| - South Kalimantan                          | 773.28      | 100.25     | 260.27    | 55.57    | 44.37                   | 19.89                    | 1,253.63   | 1.10  |
| - Central Kalimantan                        | 383.87      | 17.00      | 143.69    | 25.12    | 32.56                   | 7.60                     | 609.84     | 0.53  |
| Region of East Kalimantan & North           | 961.73      | 75.63      | 426.53    | 78.34    | 96.51                   | 16.48                    | 1,655.22   | 1.45  |
| Region of N, C Sulawesi & Gorontalo         | 1,042.06    | 127.52     | 354.26    | 83.49    | 75.94                   | 25.87                    | 1,709.14   | 1.49  |
| - North Sulawesi                            | 469.98      | 96.75      | 214.73    | 41.01    | 25.87                   | 10.22                    | 858.56     | 0.75  |
| - Gorontalo                                 | 165.50      | 10.62      | 38.37     | 11.70    | 19.85                   | 3.65                     | 249.69     | 0.22  |
| - Central Sulawesi                          | 406.58      | 20.15      | 101.16    | 30.78    | 30.22                   | 12.00                    | 600.89     | 0.53  |
| Region of S, SE & W Sulawesi                | 2,133.62    | 428.73     | 723.14    | 164.50   | 117.24                  | 48.65                    | 3,615.88   | 3.16  |
| - South Sulawesi                            | 1,588.92    | 400.10     | 591.67    | 135.06   | 82.82                   | 39.93                    | 2,838.50   | 2.48  |
| - Southeast Sulawesi                        | 385.73      | 21.92      | 99.92     | 20.33    | 23.37                   | 6.30                     | 557.57     | 0.49  |
| - West Sulawesi                             | 158.97      | 6.71       | 31.55     | 9.11     | 11.05                   | 2.42                     | 219.81     | 0.19  |
| Region of Maluku & North Maluku             | 381.88      | 6.24       | 115.83    | 24.15    | 36.87                   | 4.97                     | 569.94     | 0.50  |
| - Maluku                                    | 222.05      | 4.63       | 80.02     | 15.84    | 23.21                   | 2.10                     | 347.85     | 0.30  |
| - North Maluku                              | 159.83      | 1.61       | 35.81     | 8.31     | 13.66                   | 2.87                     | 222.09     | 0.19  |
| Region of Papua                             | 534.84      | 9.60       | 231.90    | 43.93    | 62.54                   | 6.03                     | 888.84     | 0.78  |
| - Papua                                     | 324.28      | 2.71       | 147.13    | 26.43    | 39.65                   | 3.75                     | 543.95     | 0.48  |
| - West Papua                                | 210.56      | 6.89       | 84.77     | 17.50    | 22.89                   | 2.28                     | 344.89     | 0.30  |
| Distribution of Bali                        | 1,399.55    | 93.38      | 1,389.46  | 104.01   | 63.86                   | 27.41                    | 3,077.67   | 2.69  |
| Region of West Nusa Tenggara                | 848.62      | 36.87      | 212.22    | 41.77    | 26.27                   | 14.18                    | 1,179.93   | 1.03  |
| Region of East Nusa Tenggara                | 501.34      | 15.52      | 135.26    | 40.40    | 32.75                   | 4.43                     | 729.70     | 0.64  |
| PT PLN Batam                                | 361.20      | 302.29     | 568.79    | 29.83    | 22.48                   | 8.69                     | 1,293.28   | 1.13  |
| PT PLN Tarakan                              | 57.89       | 12.02      | 28.99     | 9.45     | 7.22                    | 1.75                     | 117.32     | 0.10  |
| Outside Java                                | 20,857.02   | 3,563.38   | 8,001.52  | 1,479.80 | 1,098.50                | 447.24                   | 35,447.45  | 31.00 |
| Dist. of East Java                          | 7,878.29    | 5,639.88   | 2,793.21  | 699.64   | 254.28                  | 197.77                   | 17,463.07  | 15.27 |
| Dist. of Central Java & Yogyakarta          | 7,141.79    | 2,693.96   | 2,021.08  | 694.07   | 202.91                  | 161.25                   | 12,915.06  | 11.29 |
| - Central Java                              | 6,252.74    | 2,585.39   | 1,640.74  | 556.32   | 159.70                  | 142.74                   | 11,337.63  | 9.92  |
| - D.I. Yogyakarta                           | 889.05      | 108.57     | 380.34    | 137.75   | 43.21                   | 18.51                    | 1,577.43   | 1.38  |
| Dist. of West Java                          | 10,139.76   | 7,778.34   | 3,301.34  | 584.86   | 273.92                  | 100.28                   | 22,178.50  | 19.40 |
| Dist. of Banten                             | 2,486.47    | 5,039.52   | 1,564.86  | 150.38   | 102.90                  | 35.07                    | 9,379.20   | 8.20  |
| Dist. of Jakarta Raya & Tangerang           | 6,781.24    | 1,854.73   | 6,680.28  | 725.73   | 820.99                  | 101.39                   | 16,964.36  | 14.84 |
| Java  | 34,427.55   | 23,006.43  | 16,360.77 | 2,854.68 | 1,655.00                | 595.76                   | 78,900.19  | 69.00 |
| Indonesia                                   | 55,284.57   | 26,569.81  | 24,362.29 | 4,334.48 | 2,753.50                | 1,043.00                 | 114,347.64 | 100   |
| (%)   | 48.35       | 23.24      | 21.31     | 3.79     | 2.41                    | 0.91                     | 100.00     | -     |

**Table 6 : Energy Sold by Type of Customers (GWh)****2016**

| PLN Operational Unit/<br>Province          | Residential      | Industrial       | Business         | Social          | Gov. Office<br>Building | Publ. Street<br>Lighting | Total             | (%)          |
|--|------------------|------------------|------------------|-----------------|-------------------------|--------------------------|-------------------|--------------|
| Region of Aceh                             | 1,510.09         | 106.55           | 362.58           | 147.18          | 88.76                   | 114.77                   | 2,329.93          | 1.08         |
| Region of North Sumatera                   | 4,808.81         | 2,127.51         | 1,447.22         | 332.88          | 114.62                  | 409.27                   | 9,240.31          | 4.28         |
| Region of West Sumatera                    | 1,613.46         | 826.31           | 433.89           | 124.77          | 62.12                   | 90.17                    | 3,150.72          | 1.46         |
| Region of Riau                             | 2,773.08         | 254.59           | 1,117.29         | 188.20          | 120.78                  | 156.79                   | 4,610.73          | 2.13         |
| - Riau                                     | 2,359.28         | 224.33           | 931.33           | 161.75          | 91.77                   | 136.26                   | 3,904.72          | 1.81         |
| - Riau Archipelago                         | 413.80           | 30.26            | 185.96           | 26.45           | 29.01                   | 20.53                    | 706.01            | 0.33         |
| Region of South Sumatera, Jambi & Bengkulu | 4,242.36         | 936.52           | 1,190.97         | 223.28          | 149.74                  | 163.30                   | 6,906.17          | 3.20         |
| - South Sumatera                           | 2,950.30         | 794.57           | 811.25           | 158.03          | 96.35                   | 128.05                   | 4,938.55          | 2.29         |
| - Jambi                                    | 689.62           | 93.54            | 270.00           | 37.34           | 29.07                   | 23.16                    | 1,142.73          | 0.53         |
| - Bengkulu                                 | 602.44           | 48.41            | 109.72           | 27.91           | 24.32                   | 12.09                    | 824.89            | 0.38         |
| Region of Bangka Belitung                  | 620.03           | 69.62            | 163.51           | 28.23           | 28.82                   | 9.70                     | 919.91            | 0.43         |
| Distribution of Lampung                    | 2,334.59         | 798.03           | 431.95           | 116.52          | 55.13                   | 84.08                    | 3,820.30          | 1.77         |
| Region of West Kalimantan                  | 1,398.54         | 107.48           | 471.00           | 79.87           | 69.09                   | 34.64                    | 2,160.62          | 1.00         |
| Region of S & C Kalimantan                 | 2,220.82         | 239.10           | 649.54           | 115.57          | 108.17                  | 81.47                    | 3,414.67          | 1.58         |
| - South Kalimantan                         | 1,490.45         | 210.79           | 412.88           | 78.91           | 60.37                   | 62.40                    | 2,315.80          | 1.07         |
| - Central Kalimantan                       | 730.37           | 28.31            | 236.66           | 36.66           | 47.80                   | 19.07                    | 1,098.87          | 0.51         |
| Region of East Kalimantan & North          | 1,925.87         | 176.43           | 789.78           | 133.47          | 127.19                  | 51.11                    | 3,203.85          | 1.48         |
| Region of N, C Sulawesi & Gorontalo        | 1,735.49         | 200.71           | 588.51           | 126.83          | 113.73                  | 118.48                   | 2,883.75          | 1.34         |
| - North Sulawesi                           | 749.38           | 156.08           | 353.45           | 60.67           | 36.49                   | 44.46                    | 1,400.53          | 0.65         |
| - Gorontalo                                | 300.33           | 18.95            | 65.97            | 20.74           | 29.08                   | 9.52                     | 444.59            | 0.21         |
| - Central Sulawesi                         | 685.78           | 25.68            | 169.09           | 45.42           | 48.16                   | 64.50                    | 1,038.63          | 0.48         |
| Region of S, SE & W Sulawesi               | 3,313.73         | 944.95           | 1,212.26         | 240.81          | 180.41                  | 139.37                   | 6,031.53          | 2.79         |
| - South Sulawesi                           | 2,568.04         | 904.35           | 1,011.71         | 204.69          | 133.50                  | 115.76                   | 4,938.05          | 2.29         |
| - Southeast Sulawesi                       | 545.68           | 32.92            | 151.36           | 25.43           | 30.69                   | 15.51                    | 801.59            | 0.37         |
| - West Sulawesi                            | 200.01           | 7.68             | 49.19            | 10.69           | 16.22                   | 8.10                     | 291.89            | 0.14         |
| Region of Maluku & North Maluku            | 512.29           | 12.31            | 187.69           | 31.57           | 65.29                   | 16.69                    | 825.84            | 0.38         |
| - Maluku                                   | 282.70           | 9.91             | 122.61           | 19.77           | 40.17                   | 8.11                     | 483.27            | 0.22         |
| - North Maluku                             | 229.59           | 2.40             | 65.08            | 11.80           | 25.12                   | 8.58                     | 342.57            | 0.16         |
| Region of Papua                            | 770.88           | 12.93            | 380.58           | 58.85           | 90.89                   | 17.44                    | 1,331.57          | 0.62         |
| - Papua                                    | 472.58           | 4.72             | 245.64           | 37.66           | 60.09                   | 10.19                    | 830.88            | 0.38         |
| - West Papua                               | 298.30           | 8.21             | 134.94           | 21.19           | 30.80                   | 7.25                     | 500.69            | 0.23         |
| Distribution of Bali                       | 2,105.02         | 178.98           | 2,509.86         | 129.65          | 106.89                  | 68.70                    | 5,099.10          | 2.36         |
| Region of West Nusa Tenggara               | 1,026.96         | 77.17            | 331.30           | 56.92           | 37.96                   | 61.01                    | 1,591.32          | 0.74         |
| Region of East Nusa Tenggara               | 492.95           | 41.83            | 201.64           | 43.15           | 35.35                   | 14.67                    | 829.59            | 0.38         |
| PT PLN Batam                               | 637.03           | 527.88           | 1,061.14         | 48.53           | 39.67                   | 13.94                    | 2,328.19          | 1.08         |
| PT PLN Tarakan                             | 111.55           | 31.05            | 50.54            | 9.54            | 12.89                   | 5.20                     | 220.77            | 0.10         |
| <b>Outside Java</b>                        | <b>34,153.55</b> | <b>7,669.95</b>  | <b>13,581.25</b> | <b>2,235.82</b> | <b>1,607.50</b>         | <b>1,650.80</b>          | <b>60,898.87</b>  | <b>28.19</b> |
| Dist. of East Java                         | 12,967.90        | 13,838.62        | 4,147.20         | 1,032.29        | 355.37                  | 585.46                   | 32,926.84         | 15.24        |
| Dist. of Central Java & Yogyakarta         | 11,835.23        | 7,467.42         | 3,245.04         | 1,024.52        | 287.82                  | 513.04                   | 24,373.07         | 11.28        |
| - Central Java                             | 10,369.79        | 7,227.80         | 2,584.69         | 803.81          | 229.20                  | 459.55                   | 21,674.84         | 10.03        |
| - D.I. Yogyakarta                          | 1,465.44         | 239.62           | 660.35           | 220.71          | 58.62                   | 53.49                    | 2,698.23          | 1.25         |
| Dist. of West Java                         | 17,464.02        | 22,187.93        | 4,921.16         | 878.54          | 378.48                  | 313.10                   | 46,143.23         | 21.36        |
| Dist. of Banten                            | 4,543.27         | 12,810.74        | 2,545.45         | 235.78          | 139.16                  | 94.16                    | 20,368.56         | 9.43         |
| Dist. of Jakarta Raya & Tangerang          | 12,670.66        | 4,170.66         | 11,634.28        | 1,223.84        | 1,253.28                | 341.03                   | 31,293.75         | 14.49        |
| <b>Java</b>                                | <b>59,481.08</b> | <b>60,475.37</b> | <b>26,493.13</b> | <b>4,394.97</b> | <b>2,414.11</b>         | <b>1,846.79</b>          | <b>155,105.45</b> | <b>71.81</b> |
| <b>Indonesia</b>                           | <b>93,634.63</b> | <b>68,145.32</b> | <b>40,074.38</b> | <b>6,630.79</b> | <b>4,021.61</b>         | <b>3,497.59</b>          | <b>216,004.32</b> | <b>100</b>   |
| (%)  | 43.35            | 31.55            | 18.55            | 3.07            | 1.86                    | 1.62                     | 100               | -            |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province          | Residential          | Industrial           | Business             | Social              | Gov. Office<br>Building | Publ. Street<br>Lighting | Total                 | (%)          |
|--|----------------------|----------------------|----------------------|---------------------|-------------------------|--------------------------|-----------------------|--------------|
| Region of Aceh                             | 729,884.35           | 105,023.96           | 321,755.92           | 95,090.02           | 108,229.90              | 154,775.97               | 1,514,760.13          | 0.71         |
| Region of North Sumatera                   | 2,857,938.62         | 2,275,676.13         | 1,606,554.94         | 255,946.38          | 142,291.36              | 568,029.49               | 7,706,436.91          | 3.60         |
| Region of West Sumatera                    | 830,850.53           | 825,497.64           | 426,079.95           | 89,763.76           | 77,348.94               | 126,455.41               | 2,375,996.23          | 1.11         |
| Region of Riau                             | 1,740,460.65         | 275,064.70           | 1,209,981.92         | 143,949.54          | 152,439.69              | 220,347.07               | 3,742,243.57          | 1.75         |
| - Riau                                     | 1,269,410.45         | 242,300.48           | 981,380.18           | 122,148.19          | 114,525.25              | 191,537.42               | 2,921,301.97          | 1.36         |
| - Riau Archipelago                         | 471,050.20           | 32,764.22            | 228,601.74           | 21,801.35           | 37,914.44               | 28,809.65                | 820,941.60            | 0.38         |
| Region of South Sumatera, Jambi & Bengkulu | 2,682,936.41         | 1,013,357.41         | 1,362,731.37         | 167,653.49          | 190,529.72              | 229,350.84               | 5,646,559.24          | 2.64         |
| - South Sumatera                           | 1,513,061.82         | 859,774.58           | 899,662.60           | 116,747.65          | 120,509.11              | 179,735.96               | 3,689,491.72          | 1.72         |
| - Jambi                                    | 718,797.05           | 100,302.54           | 332,108.33           | 29,941.20           | 38,331.25               | 32,617.90                | 1,252,098.27          | 0.58         |
| - Bengkulu                                 | 451,077.54           | 53,280.29            | 130,960.45           | 20,964.64           | 31,689.36               | 16,996.98                | 704,969.25            | 0.33         |
| Region of Bangka Belitung                  | 194,501.30           | 75,812.52            | 162,222.26           | 17,221.26           | 34,529.11               | 12,183.42                | 496,469.87            | 0.23         |
| Distribution of Lampung                    | 1,138,887.68         | 852,707.90           | 488,580.82           | 78,963.37           | 67,520.22               | 118,286.17               | 2,744,946.16          | 1.28         |
| Region of West Kalimantan                  | 697,666.41           | 116,965.66           | 456,699.97           | 55,283.60           | 82,610.67               | 48,731.75                | 1,457,958.06          | 0.68         |
| Region of S & C Kalimantan                 | 1,037,720.18         | 253,501.21           | 667,294.12           | 76,175.93           | 135,696.95              | 108,890.03               | 2,279,278.42          | 1.06         |
| - South Kalimantan                         | 489,255.23           | 222,195.88           | 401,627.37           | 48,775.40           | 73,218.06               | 82,030.68                | 1,317,102.63          | 0.62         |
| - Central Kalimantan                       | 548,464.94           | 31,305.33            | 265,666.74           | 27,400.52           | 62,478.90               | 26,859.36                | 962,175.79            | 0.45         |
| Region of East Kalimantan & North          | 966,278.63           | 195,341.90           | 840,475.82           | 94,036.07           | 149,355.70              | 71,124.62                | 2,316,612.74          | 1.08         |
| Region of N, C Sulawesi & Gorontalo        | 772,233.95           | 220,061.56           | 631,980.15           | 86,038.00           | 128,489.22              | 164,365.19               | 2,003,168.07          | 0.94         |
| - North Sulawesi                           | 451,976.95           | 170,312.45           | 343,008.23           | 36,186.86           | 47,797.32               | 60,183.78                | 1,109,465.60          | 0.52         |
| - Gorontalo                                | 211,492.58           | 21,298.42            | 82,318.09            | 15,827.51           | 37,093.50               | 13,318.17                | 381,348.27            | 0.18         |
| - Central Sulawesi                         | 108,764.42           | 28,450.70            | 206,653.83           | 34,023.63           | 43,598.40               | 90,863.23                | 512,354.21            | 0.24         |
| Region of S, SE & W Sulawesi               | 2,001,045.70         | 984,477.97           | 1,392,411.71         | 188,070.46          | 226,339.24              | 195,661.39               | 4,988,006.48          | 2.33         |
| - South Sulawesi                           | 1,399,311.56         | 943,863.90           | 1,162,793.24         | 161,953.56          | 167,382.97              | 162,520.16               | 3,997,825.39          | 1.87         |
| - Southeast Sulawesi                       | 443,927.03           | 32,757.59            | 175,058.03           | 18,274.71           | 38,932.03               | 21,483.05                | 730,432.43            | 0.34         |
| - West Sulawesi                            | 157,807.12           | 7,856.48             | 54,560.45            | 7,842.20            | 20,024.24               | 11,658.18                | 259,748.66            | 0.12         |
| Region of Maluku & North Maluku            | 275,146.83           | 13,179.71            | 203,554.76           | 21,906.29           | 85,101.20               | 23,217.53                | 622,106.32            | 0.29         |
| - Maluku                                   | 140,942.81           | 10,785.30            | 139,778.31           | 15,756.30           | 59,424.04               | 14,544.03                | 381,230.81            | 0.18         |
| - North Maluku                             | 134,204.02           | 2,394.41             | 63,776.44            | 6,149.99            | 25,677.16               | 8,673.50                 | 240,875.51            | 0.11         |
| Region of Papua                            | 378,932.69           | 14,588.90            | 357,445.06           | 40,256.66           | 107,923.02              | 24,058.73                | 923,205.05            | 0.43         |
| - Papua                                    | 295,322.44           | 5,091.26             | 192,260.28           | 22,500.61           | 68,041.71               | 13,852.17                | 597,068.47            | 0.28         |
| - West Papua                               | 83,610.25            | 9,497.63             | 165,184.78           | 17,756.05           | 39,881.32               | 10,206.56                | 326,136.59            | 0.15         |
| Distribution of Bali                       | 1,145,634.19         | 193,824.67           | 2,540,533.78         | 93,462.87           | 133,334.38              | 95,707.90                | 4,202,497.79          | 1.96         |
| Region of West Nusa Tenggara               | 366,082.72           | 85,167.55            | 358,285.63           | 37,959.11           | 45,423.52               | 83,700.30                | 976,618.83            | 0.46         |
| Region of East Nusa Tenggara               | 57,596.91            | 45,054.02            | 163,362.32           | 24,276.09           | 35,828.52               | 19,889.47                | 346,007.32            | 0.16         |
| PT PLN Batam                               | 578,871.88           | 603,504.33           | 1,251,872.85         | 44,883.82           | 65,372.57               | 104,859.70               | 2,649,365.15          | 1.24         |
| PT PLN Tarakan                             | 99,581.50            | -                    | 138,251.55           | 15,965.99           | 42,681.47               | -                        | 296,480.51            | 0.14         |
| <b>Outside Java</b>                        | <b>18,552,251.15</b> | <b>8,148,807.75</b>  | <b>14,580,074.90</b> | <b>1,626,902.68</b> | <b>2,011,045.42</b>     | <b>2,369,634.97</b>      | <b>47,288,716.87</b>  | <b>22.08</b> |
| Dist. of East Java                         | 6,663,517.43         | 14,570,818.46        | 4,331,065.37         | 752,004.00          | 441,178.08              | 822,279.07               | 27,580,862.41         | 12.88        |
| Dist. of Central Java & Yogyakarta         | 5,628,566.76         | 7,987,606.57         | 3,537,332.23         | 751,415.62          | 359,033.12              | 721,676.06               | 18,985,630.36         | 8.87         |
| - Central Java                             | 4,415,185.24         | 7,730,153.27         | 2,732,401.75         | 562,965.24          | 284,951.64              | 646,354.18               | 16,372,011.32         | 7.65         |
| - D.I. Yogyakarta                          | 1,213,381.52         | 257,453.30           | 804,930.48           | 188,450.38          | 74,081.48               | 75,321.88                | 2,613,619.04          | 1.22         |
| Dist. of West Java                         | 8,682,066.76         | 23,847,049.21        | 5,158,877.29         | 624,751.11          | 456,466.86              | 440,137.94               | 39,209,349.17         | 18.31        |
| Dist. of Banten                            | 2,626,122.40         | 13,265,743.30        | 2,723,614.42         | 177,150.62          | 167,232.73              | 123,802.41               | 19,083,665.89         | 8.91         |
| Dist. of Jakarta Raya & Tangerang          | 11,598,485.30        | 4,396,443.91         | 12,855,920.03        | 1,091,361.69        | 1,423,123.29            | 478,716.14               | 31,844,050.36         | 14.87        |
| <b>Java</b>                                | <b>35,198,758.65</b> | <b>64,067,661.45</b> | <b>28,606,809.34</b> | <b>3,396,683.03</b> | <b>2,847,034.08</b>     | <b>2,586,611.62</b>      | <b>136,703,558.17</b> | <b>63.84</b> |
| Prepaid Electricity                        | 25,581,039.84        | 34,040.50            | 5,229,210.61         | 418,252.57          | 134,346.57              | 18,182.58                | 31,415,072.67         |              |
| Central Unit                               | (318,739.29)         | (563,571.41)         | (273,161.31)         | (30,608.48)         | (26,137.75)             | (23,523.87)              | (1,235,742.10)        |              |
| Correction                                 | (11,726.00)          | (10,638.72)          | (7,144.67)           | (803.06)            | (737.02)                | (734.74)                 | (31,784.20)           |              |
| <b>Indonesia (%)</b>                       | <b>79,001,584.35</b> | <b>71,676,299.58</b> | <b>48,135,788.87</b> | <b>5,410,426.75</b> | <b>4,965,551.30</b>     | <b>4,950,170.56</b>      | <b>214,139,821.41</b> | <b>100 -</b> |
|  | 35.31                | 34.98                | 22.62                | 2.3                 | 2.34                    | 2.46                     | 100                   | -            |

**Table 8 : Average Energy Sold by Customers (kWh)****2016**

| PLN Operational Unit/<br>Province          | Residential     | Industrial          | Business         | Social          | Gov. Office<br>Building | Publ. Street<br>Lighting | Total           |
|--|-----------------|---------------------|------------------|-----------------|-------------------------|--------------------------|-----------------|
| Region of Aceh                             | 1,305.11        | 48,147.31           | 4,057.16         | 3,881.64        | 10,700.42               | 79,261.05                | 1,797.37        |
| Region of North Sumatera                   | 1,551.78        | 550,170.67          | 11,738.91        | 5,484.11        | 13,487.88               | 26,683.40                | 2,791.13        |
| Region of West Sumatera                    | 1,413.77        | 2,025,269.61        | 4,397.61         | 3,944.80        | 10,544.90               | 31,407.18                | 2,460.14        |
| Region of Riau                             | 1,984.40        | 697,506.85          | 8,660.56         | 7,092.79        | 18,942.91               | 47,240.13                | 2,949.84        |
| - Riau                                     | 1,963.34        | 818,722.63          | 8,838.41         | 7,087.46        | 19,150.67               | 47,894.55                | 2,918.82        |
| - Riau Archipelago                         | 2,113.66        | 332,527.47          | 7,867.66         | 7,125.54        | 18,314.39               | 43,312.24                | 3,134.05        |
| Region of South Sumatera, Jambi & Bengkulu | 1,588.17        | 982,707.24          | 10,678.18        | 4,530.57        | 13,882.81               | 22,360.67                | 2,422.30        |
| - South Sumatera                           | 1,598.44        | 1,156,579.33        | 11,910.88        | 4,741.94        | 14,658.45               | 24,739.18                | 2,520.17        |
| - Jambi                                    | 1,738.96        | 502,903.23          | 10,077.26        | 4,991.31        | 14,542.27               | 16,843.64                | 2,630.57        |
| - Bengkulu                                 | 1,404.55        | 605,125.00          | 6,597.71         | 3,292.83        | 10,984.64               | 16,077.13                | 1,804.73        |
| Region of Bangka Belitung                  | 1,725.81        | 240,899.65          | 7,376.28         | 4,554.70        | 12,657.00               | 8,164.98                 | 2,350.37        |
| Distribution of Lampung                    | 1,344.62        | 1,114,567.04        | 9,518.51         | 2,970.71        | 15,760.43               | 47,854.30                | 2,091.23        |
| Region of West Kalimantan                  | 1,580.65        | 243,167.42          | 7,279.53         | 4,095.06        | 15,875.46               | 13,452.43                | 2,212.92        |
| Region of S & C Kalimantan                 | 1,588.96        | 344,028.78          | 6,188.92         | 2,995.36        | 12,262.78               | 21,941.83                | 2,196.75        |
| - South Kalimantan                         | 1,547.08        | 388,911.44          | 8,513.52         | 2,974.71        | 12,365.83               | 24,355.97                | 2,213.10        |
| - Central Kalimantan                       | 1,681.88        | 185,032.68          | 4,192.01         | 3,040.81        | 12,135.06               | 16,568.20                | 2,163.08        |
| Region of East Kalimantan & North          | 2,295.48        | 533,021.15          | 15,270.01        | 8,314.33        | 27,625.98               | 24,085.77                | 3,506.01        |
| Region of N, C Sulawesi & Gorontalo        | 1,332.98        | 284,695.04          | 11,855.80        | 3,956.88        | 13,475.12               | 62,194.23                | 2,067.64        |
| - North Sulawesi                           | 1,334.84        | 411,820.58          | 15,153.27        | 4,639.44        | 11,460.43               | 59,359.15                | 2,326.03        |
| - Gorontalo                                | 1,348.85        | 160,593.22          | 9,803.83         | 3,840.74        | 17,656.34               | 25,591.40                | 1,876.52        |
| - Central Sulawesi                         | 1,324.13        | 123,461.54          | 8,633.65         | 3,345.61        | 13,344.42               | 82,270.41                | 1,869.14        |
| Region of S, SE & W Sulawesi               | 1,436.91        | 490,883.12          | 10,140.02        | 5,520.00        | 13,661.21               | 34,167.69                | 2,423.73        |
| - South Sulawesi                           | 1,472.93        | 544,133.57          | 11,411.38        | 6,573.43        | 16,181.82               | 35,531.00                | 2,631.57        |
| - Southeast Sulawesi                       | 1,413.60        | 171,458.33          | 7,678.96         | 3,221.03        | 8,647.51                | 23,715.60                | 1,917.58        |
| - West Sulawesi                            | 1,132.37        | 108,169.01          | 4,398.64         | 2,328.47        | 11,528.07               | 48,502.99                | 1,504.22        |
| Region of Maluku & North Maluku            | 1,114.54        | 129,578.95          | 6,901.38         | 2,932.38        | 15,589.78               | 25,916.15                | 1,643.36        |
| - Maluku                                   | 1,030.72        | 141,571.43          | 6,988.32         | 3,173.86        | 18,013.45               | 39,368.93                | 1,607.94        |
| - North Maluku                             | 1,238.55        | 96,000.00           | 6,743.34         | 2,600.84        | 12,829.42               | 19,589.04                | 1,696.07        |
| Region of Papua                            | 1,646.19        | 174,729.73          | 7,623.95         | 4,762.48        | 16,677.06               | 13,699.92                | 2,478.01        |
| - Papua                                    | 1,689.70        | 90,769.23           | 8,048.76         | 5,096.08        | 20,150.91               | 18,800.74                | 2,587.07        |
| - West Papua                               | 1,581.66        | 373,181.82          | 6,955.67         | 4,266.16        | 12,479.74               | 9,917.92                 | 2,316.00        |
| Distribution of Bali                       | 2,064.03        | 185,087.90          | 12,991.73        | 4,059.81        | 28,166.01               | 14,100.99                | 4,064.27        |
| Region of West Nusa Tenggara               | 994.29          | 293,422.05          | 9,144.86         | 2,712.67        | 9,947.59                | 26,747.04                | 1,451.36        |
| Region of East Nusa Tenggara               | 834.12          | 264,746.84          | 6,178.07         | 3,173.49        | 6,505.34                | 25,380.62                | 1,289.41        |
| PT PLN Batam                               | 3,248.05        | 1,539,008.75        | 10,968.42        | 20,864.14       | 106,639.78              | 14,627.49                | 7,842.56        |
| PT PLN Tarakan                             | 2,552.57        | 705,681.82          | 13,202.72        | 16,169.49       | 28,517.70               | 18,118.47                | 4,514.54        |
| <b>Outside Java</b>                        | <b>1,545.24</b> | <b>516,390.63</b>   | <b>9,368.22</b>  | <b>4,527.28</b> | <b>14,808.71</b>        | <b>28,215.91</b>         | <b>2,513.59</b> |
| Dist. of East Java                         | 1,345.64        | 695,547.85          | 7,558.61         | 3,921.51        | 20,313.82               | 14,881.68                | 3,128.27        |
| Dist. of Central Java & Yogyakarta         | 1,240.57        | 891,738.72          | 7,996.85         | 3,915.36        | 13,973.88               | 13,413.86                | 2,372.11        |
| - Central Java                             | 1,212.69        | 934,186.38          | 7,412.28         | 3,428.55        | 12,979.95               | 14,279.28                | 2,358.07        |
| - D.I. Yogyakarta                          | 1,481.55        | 376,169.54          | 11,567.63        | 8,108.08        | 19,945.56               | 8,820.91                 | 2,491.27        |
| Dist. of West Java                         | 1,486.56        | 1,584,965.35        | 11,538.23        | 3,543.56        | 26,694.88               | 5,529.36                 | 3,689.33        |
| Dist. of Banten                            | 1,783.18        | 2,091,549.39        | 19,326.02        | 4,863.45        | 42,105.90               | 20,717.27                | 7,428.32        |
| Dist. of Jakarta Raya & Tangerang          | 3,454.04        | 653,503.60          | 41,945.44        | 31,506.54       | 234,126.66              | 39,307.28                | 7,813.71        |
| <b>Java</b>                                | <b>1,601.48</b> | <b>1,104,048.67</b> | <b>14,800.23</b> | <b>5,109.51</b> | <b>39,622.99</b>        | <b>12,526.22</b>         | <b>3,872.35</b> |
| <b>Indonesia</b>                           | <b>1,580.50</b> | <b>978,691.64</b>   | <b>12,369.54</b> | <b>4,897.15</b> | <b>23,729.39</b>        | <b>16,983.54</b>         | <b>3,360.24</b> |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province          | Residential | Industrial | Business | Social   | Gov. Office<br>Building | Publ. Street<br>Lighting | Total    |
|--|-------------|------------|----------|----------|-------------------------|--------------------------|----------|
| Region of Aceh                             | 483.34      | 985.68     | 887.41   | 646.08   | 1,219.35                | 1,348.58                 | 650.13   |
| Region of North Sumatera                   | 594.31      | 1,069.64   | 1,110.10 | 768.88   | 1,241.42                | 1,387.91                 | 834.00   |
| Region of West Sumatera                    | 514.95      | 999.02     | 982.00   | 719.43   | 1,245.15                | 1,402.41                 | 754.11   |
| Region of Riau                             | 627.63      | 1,080.42   | 1,082.96 | 764.88   | 1,262.13                | 1,405.36                 | 811.64   |
| - Riau                                     | 538.05      | 1,080.11   | 1,053.74 | 755.17   | 1,247.96                | 1,405.68                 | 748.15   |
| - Riau Archipelago                         | 1,138.35    | 1,082.76   | 1,229.31 | 824.25   | 1,306.94                | 1,403.30                 | 1,162.79 |
| Region of South Sumatera, Jambi & Bengkulu | 632.42      | 1,082.05   | 1,144.22 | 750.87   | 1,272.40                | 1,404.48                 | 817.61   |
| - South Sumatera                           | 512.85      | 1,082.06   | 1,108.98 | 738.77   | 1,250.74                | 1,403.64                 | 747.08   |
| - Jambi                                    | 1,042.31    | 1,072.30   | 1,230.03 | 801.85   | 1,318.58                | 1,408.37                 | 1,095.71 |
| - Bengkulu                                 | 748.75      | 1,100.61   | 1,193.59 | 751.15   | 1,303.02                | 1,405.87                 | 854.62   |
| Region of Bangka Belitung                  | 313.70      | 1,088.95   | 992.12   | 610.03   | 1,198.10                | 1,256.02                 | 539.69   |
| Distribution of Lampung                    | 487.83      | 1,068.52   | 1,131.11 | 677.68   | 1,224.75                | 1,406.83                 | 718.52   |
| Region of West Kalimantan                  | 498.85      | 1,088.26   | 969.64   | 692.17   | 1,195.70                | 1,406.81                 | 674.79   |
| Region of S & C Kalimantan                 | 467.27      | 1,060.23   | 1,027.33 | 659.13   | 1,254.48                | 1,336.57                 | 667.50   |
| - South Kalimantan                         | 328.26      | 1,054.11   | 972.75   | 618.11   | 1,212.82                | 1,314.59                 | 568.75   |
| - Central Kalimantan                       | 750.94      | 1,105.80   | 1,122.57 | 747.42   | 1,307.09                | 1,408.46                 | 875.60   |
| Region of East Kalimantan & North          | 501.74      | 1,107.19   | 1,064.19 | 704.55   | 1,174.27                | 1,391.60                 | 723.07   |
| Region of N, C Sulawesi & Gorontalo        | 444.97      | 1,096.42   | 1,073.86 | 678.37   | 1,129.77                | 1,387.28                 | 694.64   |
| - North Sulawesi                           | 603.13      | 1,091.19   | 970.46   | 596.45   | 1,309.87                | 1,353.66                 | 792.18   |
| - Gorontalo                                | 704.20      | 1,123.93   | 1,247.81 | 763.14   | 1,275.57                | 1,398.97                 | 857.75   |
| - Central Sulawesi                         | 158.60      | 1,107.89   | 1,222.15 | 749.09   | 905.28                  | 1,408.73                 | 493.30   |
| Region of S, SE & W Sulawesi               | 603.87      | 1,041.83   | 1,148.61 | 780.99   | 1,254.58                | 1,403.90                 | 826.99   |
| - South Sulawesi                           | 544.89      | 1,043.69   | 1,149.33 | 791.21   | 1,253.80                | 1,403.94                 | 809.60   |
| - Southeast Sulawesi                       | 813.53      | 995.07     | 1,156.57 | 718.63   | 1,268.56                | 1,385.11                 | 911.23   |
| - West Sulawesi                            | 789.00      | 1,022.98   | 1,109.18 | 733.60   | 1,234.54                | 1,439.28                 | 889.89   |
| Region of Maluku & North Maluku            | 537.09      | 1,070.65   | 1,084.53 | 693.90   | 1,303.43                | 1,391.10                 | 753.30   |
| - Maluku                                   | 498.56      | 1,088.33   | 1,140.02 | 796.98   | 1,479.31                | 1,793.35                 | 788.86   |
| - North Maluku                             | 584.54      | 997.67     | 979.97   | 521.19   | 1,022.18                | 1,010.90                 | 703.14   |
| Region of Papua                            | 491.56      | 1,128.30   | 939.21   | 684.06   | 1,187.40                | 1,379.51                 | 693.32   |
| - Papua                                    | 624.92      | 1,078.66   | 782.69   | 597.47   | 1,132.33                | 1,359.39                 | 718.60   |
| - West Papua                               | 280.29      | 1,156.84   | 1,224.14 | 837.94   | 1,294.85                | 1,407.80                 | 651.37   |
| Distribution of Bali                       | 544.24      | 1,082.94   | 1,012.22 | 720.89   | 1,247.40                | 1,393.13                 | 824.16   |
| Region of West Nusa Tenggara               | 356.47      | 1,103.64   | 1,081.45 | 666.89   | 1,196.62                | 1,371.91                 | 613.72   |
| Region of East Nusa Tenggara               | 116.84      | 1,077.07   | 810.17   | 562.60   | 1,013.54                | 1,355.79                 | 417.08   |
| PT PLN Batam                               | 908.70      | 1,143.26   | 1,179.74 | 924.87   | 1,647.91                | 7,522.22                 | 1,137.95 |
| PT PLN Tarakan                             | 892.71      | -          | 2,735.49 | 1,673.58 | 3,311.21                | -                        | 1,342.94 |
| Outside Java                               | 543.20      | 1,062.43   | 1,073.54 | 727.65   | 1,251.04                | 1,435.45                 | 776.51   |
| Dist. of East Java                         | 513.85      | 1,052.91   | 1,044.33 | 728.48   | 1,241.46                | 1,404.50                 | 837.64   |
| Dist. of Central Java & Yogyakarta         | 475.58      | 1,069.66   | 1,090.07 | 733.43   | 1,247.42                | 1,406.67                 | 778.96   |
| - Central Java                             | 425.77      | 1,069.50   | 1,057.15 | 700.37   | 1,243.24                | 1,406.49                 | 755.35   |
| - D.I. Yogyakarta                          | 828.00      | 1,074.42   | 1,218.95 | 853.84   | 1,263.76                | 1,408.15                 | 968.64   |
| Dist. of West Java                         | 497.14      | 1,074.78   | 1,048.31 | 711.12   | 1,206.05                | 1,405.74                 | 849.73   |
| Dist. of Banten                            | 578.02      | 1,035.52   | 1,069.99 | 751.34   | 1,201.73                | 1,314.81                 | 936.92   |
| Dist. of Jakarta Raya & Tangerang          | 915.38      | 1,054.14   | 1,105.00 | 891.75   | 1,135.52                | 1,403.74                 | 1,017.58 |
| Java                                       | 591.76      | 1,059.40   | 1,079.78 | 772.86   | 1,179.33                | 1,400.60                 | 881.36   |
| Indonesia                                  | 843.72      | 1,051.82   | 1,201.16 | 815.96   | 1,234.72                | 1,415.31                 | 991.37   |

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

2016

| PLN Operational Unit/<br>Province          | Voltage           |                |           |              | Total             | (%)           |
|--|-------------------|----------------|-----------|--------------|-------------------|---------------|
|  | Low               | Medium         | High      | Multipurpose |                   |               |
| Region of Aceh                             | 1,296,150         | 152            | -         | -            | 1,296,302         | 2.02          |
| Region of North Sumatera                   | 3,309,354         | 1,237          | 2         | 2            | 3,310,595         | 5.15          |
| Region of West Sumatera                    | 1,280,545         | 163            | 2         | -            | 1,280,710         | 1.99          |
| Region of Riau                             | 1,562,695         | 348            | -         | -            | 1,563,043         | 2.43          |
| - Riau                                     | 1,337,469         | 303            | -         | -            | 1,337,772         | 2.08          |
| - Riau Archipelago                         | 225,226           | 45             | -         | -            | 225,271           | 0.35          |
| Region of South Sumatera, Jambi & Bengkulu | 2,850,555         | 499            | -         | 29           | 2,851,083         | 4.44          |
| - South Sumatera                           | 1,959,216         | 366            | -         | 26           | 1,959,608         | 3.05          |
| - Jambi                                    | 434,313           | 88             | -         | 3            | 434,404           | 0.68          |
| - Bengkulu                                 | 457,026           | 45             | -         | -            | 457,071           | 0.71          |
| Region of Bangka Belitung                  | 391,084           | 305            | -         | -            | 391,389           | 0.61          |
| Distribution of Lampung                    | 1,826,380         | 438            | -         | -            | 1,826,818         | 2.84          |
| Region of West Kalimantan                  | 976,206           | 158            | -         | -            | 976,364           | 1.52          |
| Region of S & C Kalimantan                 | 1,554,191         | 225            | -         | -            | 1,554,416         | 2.42          |
| - South Kalimantan                         | 1,046,220         | 185            | -         | -            | 1,046,405         | 1.63          |
| - Central Kalimantan                       | 507,971           | 40             | -         | -            | 508,011           | 0.79          |
| Region of East Kalimantan & North          | 913,504           | 312            | -         | -            | 913,816           | 1.42          |
| Region of N, C Sulawesi & Gorontalo        | 1,394,455         | 252            | 1         | -            | 1,394,708         | 2.17          |
| - North Sulawesi                           | 601,941           | 171            | 1         | -            | 602,113           | 0.94          |
| - Gorontalo                                | 236,902           | 21             | -         | -            | 236,923           | 0.37          |
| - Central Sulawesi                         | 555,612           | 60             | -         | -            | 555,672           | 0.86          |
| Region of S, SE & W Sulawesi               | 2,487,984         | 547            | 2         | -            | 2,488,533         | 3.87          |
| - South Sulawesi                           | 1,875,990         | 471            | 2         | -            | 1,876,463         | 2.92          |
| - Southeast Sulawesi                       | 417,958           | 64             | -         | -            | 418,022           | 0.65          |
| - West Sulawesi                            | 194,036           | 12             | -         | -            | 194,048           | 0.30          |
| Region of Maluku & North Maluku            | 502,397           | 135            | -         | -            | 502,532           | 0.78          |
| - Maluku                                   | 300,427           | 126            | -         | -            | 300,553           | 0.47          |
| - North Maluku                             | 201,970           | 9              | -         | -            | 201,979           | 0.31          |
| Region of Papua                            | 537,222           | 132            | -         | -            | 537,354           | 0.84          |
| - Papua                                    | 321,076           | 91             | -         | -            | 321,167           | 0.50          |
| - West Papua                               | 216,146           | 41             | -         | -            | 216,187           | 0.34          |
| Distribution of Bali                       | 1,211,492         | 43,123         | -         | -            | 1,254,615         | 1.95          |
| Region of West Nusa Tenggara               | 1,096,312         | 121            | -         | -            | 1,096,433         | 1.71          |
| Region of East Nusa Tenggara               | 643,078           | 309            | -         | -            | 643,387           | 1.00          |
| PT PLN Batam                               | 236,215           | 60,651         | -         | -            | 296,866           | 0.46          |
| PT PLN Tarakan                             | 48,831            | 71             | -         | -            | 48,902            | 0.08          |
| <b>Outside Java</b>                        | <b>24,118,650</b> | <b>109,178</b> | <b>7</b>  | <b>31</b>    | <b>24,227,866</b> | <b>37.69</b>  |
| Dist. of East Java                         | 10,522,228        | 3,334          | 23        | -            | 10,525,585        | 16.37         |
| Dist. of Central Java & Yogyakarta         | 10,272,081        | 2,751          | 5         | 1            | 10,274,838        | 15.98         |
| - Central Java                             | 9,189,360         | 2,398          | 5         | 1            | 9,191,764         | 14.30         |
| - D.I. Yogyakarta                          | 1,082,721         | 353            | -         | -            | 1,083,074         | 1.68          |
| Dist. of West Java                         | 12,501,491        | 5,675          | 26        | 17           | 12,507,209        | 19.46         |
| Dist. of Banten                            | 2,738,903         | 3,078          | 23        | 9            | 2,742,013         | 4.27          |
| Dist. of Jakarta Raya & Tangerang          | 3,996,229         | 8,723          | 4         | 26           | 4,004,982         | 6.23          |
| <b>Java</b>                                | <b>40,030,932</b> | <b>23,561</b>  | <b>81</b> | <b>53</b>    | <b>40,054,627</b> | <b>62.31</b>  |
| <b>Indonesia (%)</b>                       | <b>64,149,582</b> | <b>132,739</b> | <b>88</b> | <b>84</b>    | <b>64,282,493</b> | <b>100.00</b> |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province          | Voltage          |                  |                 |               | Total             | (%)           |
|--|------------------|------------------|-----------------|---------------|-------------------|---------------|
|  | Low              | Medium           | High            | Multipurpose  |                   |               |
| Region of Aceh                             | 1,278.25         | 75.84            | -               | -             | 1,354.09          | 1.18          |
| Region of North Sumatera                   | 3,716.94         | 1,050.68         | 61              | 10.24         | 4,838.86          | 4.23          |
| Region of West Sumatera                    | 1,370.89         | 151.53           | 140             | -             | 1,662.42          | 1.45          |
| Region of Riau                             | 2,289.00         | 310.79           | -               | -             | 2,599.79          | 2.27          |
| - Riau                                     | 1,896.47         | 273.84           | -               | -             | 2,170.31          | 1.90          |
| - Riau Archipelago                         | 392.53           | 36.95            | -               | -             | 429.48            | 0.38          |
| Region of South Sumatera, Jambi & Bengkulu | 3,435.90         | 562.03           | -               | 15.78         | 4,013.71          | 3.51          |
| - South Sumatera                           | 2,338.89         | 454.45           | -               | 15.06         | 2,808.40          | 2.46          |
| - Jambi                                    | 627.54           | 74.3             | -               | 0.72          | 702.56            | 0.61          |
| - Bengkulu                                 | 469.47           | 33.28            | -               | -             | 502.75            | 0.44          |
| Region of Bangka Belitung                  | 536.72           | 77.07            | -               | -             | 613.79            | 0.54          |
| Distribution of Lampung                    | 1,944.38         | 454.69           | -               | -             | 2,399.07          | 2.10          |
| Region of West Kalimantan                  | 1,150.07         | 115.25           | -               | -             | 1,265.32          | 1.11          |
| Region of S & C Kalimantan                 | 1,665.01         | 198.45           | -               | -             | 1,863.46          | 1.63          |
| - South Kalimantan                         | 1,088.19         | 165.43           | -               | -             | 1,253.62          | 1.10          |
| - Central Kalimantan                       | 576.82           | 33.02            | -               | -             | 609.84            | 0.53          |
| Region of East Kalimantan & North          | 1,372.45         | 282.78           | -               | -             | 1,655.23          | 1.45          |
| Region of N, C Sulawesi & Gorontalo        | 1,471.83         | 207.32           | 30.00           | -             | 1,709.15          | 1.49          |
| - North Sulawesi                           | 682.17           | 146.4            | 30              | -             | 858.57            | 0.75          |
| - Gorontalo                                | 230.27           | 19.42            | -               | -             | 249.69            | 0.22          |
| - Central Sulawesi                         | 559.39           | 41.5             | -               | -             | 600.89            | 0.53          |
| Region of S, SE & W Sulawesi               | 3,041.16         | 452.47           | 122.25          | -             | 3,615.88          | 3.16          |
| - South Sulawesi                           | 2,304.31         | 411.94           | 122.25          | -             | 2,838.50          | 2.48          |
| - Southeast Sulawesi                       | 523.47           | 34.1             | -               | -             | 557.57            | 0.49          |
| - West Sulawesi                            | 213.38           | 6.43             | -               | -             | 219.81            | 0.19          |
| Region of Maluku & North Maluku            | 539.02           | 30.93            | -               | -             | 569.95            | 0.50          |
| - Maluku                                   | 321.19           | 26.67            | -               | -             | 347.86            | 0.30          |
| - North Maluku                             | 217.83           | 4.26             | -               | -             | 222.09            | 0.19          |
| Region of Papua                            | 831.88           | 56.96            | -               | -             | 888.84            | 0.78          |
| - Papua                                    | 505.26           | 38.68            | -               | -             | 543.94            | 0.48          |
| - West Papua                               | 326.62           | 18.28            | -               | -             | 344.90            | 0.30          |
| Distribution of Bali                       | 2,460.15         | 617.53           | -               | -             | 3,077.68          | 2.69          |
| Region of West Nusa Tenggara               | 1,106.57         | 73.37            | -               | -             | 1,179.94          | 1.03          |
| Region of East Nusa Tenggara               | 682.81           | 46.87            | -               | -             | 729.68            | 0.64          |
| PT PLN Batam                               | 670.61           | 622.67           | -               | -             | 1,293.28          | 1.13          |
| PT PLN Tarakan                             | 94.48            | 22.85            | -               | -             | 117.33            | 0.10          |
| <b>Outside Java</b>                        | <b>29,658.12</b> | <b>5,410.08</b>  | <b>353.25</b>   | <b>26.02</b>  | <b>35,447.47</b>  | <b>31.00</b>  |
| Dist. of East Java                         | 11,751.88        | 4,711.53         | 999.66          | -             | 17,463.07         | 15.27         |
| Dist. of Central Java & Yogyakarta         | 9,939.65         | 2,748.28         | 226.00          | 1.11          | 12,915.04         | 11.29         |
| - Central Java                             | 8,642.24         | 2,468.28         | 226.00          | 1.11          | 11,337.63         | 9.92          |
| - D.I. Yogyakarta                          | 1,297.41         | 280              | -               | -             | 1,577.41          | 1.38          |
| Dist. of West Java                         | 13,702.98        | 6,985.41         | 1,405.90        | 84.22         | 22,178.51         | 19.40         |
| Dist. of Banten                            | 3,902.34         | 3,946.80         | 1,490.80        | 39.26         | 9,379.20          | 8.20          |
| Dist. of Jakarta Raya & Tangerang          | 10,270.58        | 6,295.64         | 263.14          | 134.99        | 16,964.35         | 14.84         |
| <b>Java</b>                                | <b>49,567.43</b> | <b>24,687.66</b> | <b>4,385.50</b> | <b>259.58</b> | <b>78,900.17</b>  | <b>69.00</b>  |
| <b>Indonesia</b>                           | <b>79,225.55</b> | <b>30,097.74</b> | <b>4,738.75</b> | <b>285.60</b> | <b>114,347.64</b> | <b>100.00</b> |
| <b>(%)</b>                                 | <b>69.28</b>     | <b>26.32</b>     | <b>4.14</b>     | <b>0.25</b>   | <b>100.00</b>     | <b>-</b>      |

**Table 12 : Energy Sold by Type of Voltage (GWh)****2016**

| PLN Operational Unit/<br>Province          | Voltage           |                  |                  |               | Total             | (%)           |
|--|-------------------|------------------|------------------|---------------|-------------------|---------------|
|  | Low               | Medium           | High             | Multipurpose  |                   |               |
| Region of Aceh                             | 2,199.33          | 130.6            | -                | -             | 2,329.93          | 1.08          |
| Region of North Sumatera                   | 6,702.29          | 2,409.49         | 82.87            | 45.65         | 9,240.30          | 4.28          |
| Region of West Sumatera                    | 2,229.47          | 310.17           | 611.08           | -             | 3,150.72          | 1.46          |
| Region of Riau                             | 4,025.30          | 585.43           | -                | -             | 4,610.73          | 2.13          |
| - Riau                                     | 3,376.12          | 528.61           | -                | -             | 3,904.73          | 1.80          |
| - Riau Archipelago                         | 649.185           | 56.82            | -                | -             | 706.01            | 0.32          |
| Region of South Sumatera, Jambi & Bengkulu | 5,555.08          | 1,284.73         | -                | 66.35         | 6,906.16          | 3.20          |
| - South Sumatera                           | 3,834.87          | 1,040.4          | -                | 63.28         | 4,938.55          | 2.29          |
| - Jambi                                    | 968.5             | 171.16           | -                | 3.07          | 1,142.73          | 0.52          |
| - Bengkulu                                 | 751.71            | 73.17            | -                | -             | 824.88            | 0.38          |
| Region of Bangka Belitung                  | 820.12            | 99.78            | -                | -             | 919.90            | 0.43          |
| Distribution of Lampung                    | 2,967.12          | 853.18           | -                | -             | 3,820.30          | 1.77          |
| Region of West Kalimantan                  | 1,961.44          | 199.16           | -                | -             | 2,160.60          | 1.00          |
| Region of S & C Kalimantan                 | 3,041.99          | 372.67           | -                | -             | 3,414.66          | 1.58          |
| - South Kalimantan                         | 2,002.17          | 313.62           | -                | -             | 2,315.79          | 1.07          |
| - Central Kalimantan                       | 1,039.82          | 59.05            | -                | -             | 1,098.87          | 0.51          |
| Region of East Kalimantan & North          | 2,637.00          | 566.85           | -                | -             | 3,203.85          | 1.48          |
| Region of N, C Sulawesi & Gorontalo        | 2,478.90          | 376.72           | 28.14            | -             | 2,883.76          | 1.34          |
| - North Sulawesi                           | 1,096.45          | 275.94           | 28.14            | -             | 1,400.53          | 0.65          |
| - Gorontalo                                | 408.73            | 35.86            | -                | -             | 444.59            | 0.21          |
| - Central Sulawesi                         | 973.72            | 64.92            | -                | -             | 1,038.64          | 0.48          |
| Region of S, SE & W Sulawesi               | 4,792.39          | 795.40           | 443.73           | -             | 6,031.52          | 2.79          |
| - South Sulawesi                           | 3,757.11          | 737.2            | 443.73           | -             | 4,938.04          | 2.29          |
| - Southeast Sulawesi                       | 751.54            | 50.05            | -                | -             | 801.59            | 0.37          |
| - West Sulawesi                            | 283.74            | 8.15             | -                | -             | 291.89            | 0.14          |
| Region of Maluku & North Maluku            | 771.96            | 53.89            | -                | -             | 825.85            | 0.38          |
| - Maluku                                   | 440.97            | 42.31            | -                | -             | 483.28            | 0.22          |
| - North Maluku                             | 330.99            | 11.58            | -                | -             | 342.57            | 0.16          |
| Region of Papua                            | 1,232.55          | 99.03            | -                | -             | 1,331.58          | 0.62          |
| - Papua                                    | 759.59            | 71.29            | -                | -             | 830.88            | 0.38          |
| - West Papua                               | 472.96            | 27.74            | -                | -             | 500.70            | 0.23          |
| Distribution of Bali                       | 3,750.70          | 1,348.40         | -                | -             | 5,099.10          | 2.36          |
| Region of West Nusa Tenggara               | 1,447.66          | 143.68           | -                | -             | 1,591.34          | 0.74          |
| Region of East Nusa Tenggara               | 738.76            | 90.82            | -                | -             | 829.58            | 0.38          |
| PT PLN Batam                               | 1,100.93          | 1,227.27         | -                | -             | 2,328.20          | 1.08          |
| PT PLN Tarakan                             | 178.82            | 41.94            | -                | -             | 220.76            | 0.10          |
| <b>Outside Java</b>                        | <b>48,631.81</b>  | <b>10,989.21</b> | <b>1,165.82</b>  | <b>112.00</b> | <b>60,898.84</b>  | <b>28.19</b>  |
| Dist. of East Java                         | 18,626.71         | 11,090.33        | 3,209.80         | -             | 32,926.84         | 15.24         |
| Dist. of Central Java & Yogyakarta         | 16,167.89         | 7,630.10         | 574.85           | 0.24          | 24,373.08         | 11.28         |
| - Central Java                             | 14,050.39         | 7,049.36         | 574.85           | 0.24          | 21,674.84         | 10.03         |
| - D.I. Yogyakarta                          | 2,117.50          | 580.74           | -                | -             | 2,698.24          | 1.25          |
| Dist. of West Java                         | 22,645.53         | 18,908.18        | 4,507.77         | 81.77         | 46,143.25         | 21.36         |
| Dist. of Banten                            | 6,587.63          | 9,428.70         | 4,333.24         | 18.99         | 20,368.56         | 9.43          |
| Dist. of Jakarta Raya & Tangerang          | 17,831.91         | 12,716.50        | 623.22           | 122.12        | 31,293.75         | 14.49         |
| <b>Java</b>                                | <b>81,859.67</b>  | <b>59,773.81</b> | <b>13,248.88</b> | <b>223.12</b> | <b>155,105.48</b> | <b>71.81</b>  |
| <b>Indonesia</b>                           | <b>130,491.48</b> | <b>70,763.02</b> | <b>14,414.70</b> | <b>335.12</b> | <b>216,004.32</b> | <b>100.00</b> |
| <b>(%)</b>                                 | <b>60.41</b>      | <b>32.76</b>     | <b>6.67</b>      | <b>0.16</b>   | <b>100.00</b>     | <b>-</b>      |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province          | Voltage               |                      |                      |                     | Total                 | (%)          |
|--|-----------------------|----------------------|----------------------|---------------------|-----------------------|--------------|
|  | Low                   | Medium               | High                 | Multipurpose        |                       |              |
| Region of Aceh                             | 1,381,900.10          | 130,474.54           | -                    | 2,385.49            | 1,514,760.13          | 0.71         |
| Region of North Sumatera                   | 4,978,823.79          | 2,631,443.87         | 78,426.68            | 17,742.58           | 7,706,436.91          | 3.60         |
| Region of West Sumatera                    | 1,452,450.55          | 326,093.46           | 590,666.51           | 6,785.71            | 2,375,996.23          | 1.11         |
| Region of Riau                             | 3,100,763.65          | 572,660.50           | -                    | 68,819.43           | 3,742,243.57          | 1.75         |
| - Riau                                     | 2,340,807.57          | 511,674.99           | -                    | 68,819.43           | 2,921,301.98          | 1.36         |
| - Riau Archipelago                         | 759,956.08            | 60,985.51            | -                    | -                   | 820,941.59            | 0.38         |
| Region of South Sumatera, Jambi & Bengkulu | 4,207,430.93          | 1,389,673.60         | -                    | 49,454.72           | 5,646,559.24          | 2.64         |
| - South Sumatera                           | 2,518,736.96          | 1,121,300.05         | -                    | 49,454.72           | 3,689,491.72          | 1.72         |
| - Jambi                                    | 1,062,215.27          | 189,883.00           | -                    | -                   | 1,252,098.27          | 0.58         |
| - Bengkulu                                 | 626,478.70            | 78,490.55            | -                    | -                   | 704,969.25            | 0.33         |
| Region of Bangka Belitung                  | 388,392.65            | 102,947.30           | -                    | 5,129.92            | 496,469.87            | 0.23         |
| Distribution of Lampung                    | 1,823,769.16          | 916,949.84           | -                    | 4,227.17            | 2,744,946.16          | 1.28         |
| Region of West Kalimantan                  | 1,238,796.75          | 204,390.03           | -                    | 14,771.28           | 1,457,958.06          | 0.68         |
| Region of S & C Kalimantan                 | 1,879,645.00          | 370,363.81           | -                    | 29,269.61           | 2,279,278.42          | 1.06         |
| - South Kalimantan                         | 983,932.33            | 303,900.69           | -                    | 29,269.61           | 1,317,102.63          | 0.62         |
| - Central Kalimantan                       | 895,712.67            | 66,463.12            | -                    | -                   | 962,175.79            | 0.45         |
| Region of East Kalimantan & North          | 1,680,405.46          | 604,223.23           | -                    | 31,984.05           | 2,316,612.74          | 1.08         |
| Region of N, C Sulawesi & Gorontalo        | 1,553,695.39          | 396,849.41           | 29,470.73            | 23,152.54           | 2,003,168.07          | 0.94         |
| - North Sulawesi                           | 380,511.27            | 284,648.22           | 29,470.73            | 23,152.54           | 717,782.76            | 0.34         |
| - Gorontalo                                | 341,452.69            | 39,895.58            | -                    | -                   | 381,348.27            | 0.18         |
| - Central Sulawesi                         | 831,731.43            | 72,305.61            | -                    | -                   | 904,037.04            | 0.42         |
| Region of S, SE & W Sulawesi               | 3,683,280.46          | 837,745.65           | 438,160.01           | 28,820.36           | 4,988,006.48          | 2.33         |
| - South Sulawesi                           | 2,697,576.50          | 772,713.93           | 438,160.01           | 28,820.36           | 3,937,270.80          | 1.84         |
| - Southeast Sulawesi                       | 722,749.02            | 55,188.92            | -                    | -                   | 777,937.94            | 0.36         |
| - West Sulawesi                            | 262,954.94            | 9,842.80             | -                    | -                   | 272,797.74            | 0.13         |
| Region of Maluku & North Maluku            | 561,158.77            | 54,221.61            | -                    | 6,725.95            | 622,106.32            | 0.29         |
| - Maluku                                   | 245,376.85            | 40,978.62            | -                    | 6,725.95            | 293,081.41            | 0.14         |
| - North Maluku                             | 315,781.92            | 13,242.99            | -                    | -                   | 329,024.91            | 0.15         |
| Region of Papua                            | 815,824.39            | 102,668.72           | -                    | 4,711.94            | 923,205.05            | 0.43         |
| - Papua                                    | 273,548.97            | 71,787.06            | -                    | 4,711.94            | 350,047.97            | 0.16         |
| - West Papua                               | 542,275.42            | 30,881.66            | -                    | -                   | 573,157.08            | 0.27         |
| Distribution of Bali                       | 2,764,904.10          | 1,403,331.79         | -                    | 34,261.89           | 4,202,497.79          | 1.96         |
| Region of West Nusa Tenggara               | 815,842.94            | 156,954.15           | -                    | 3,821.75            | 976,618.83            | 0.46         |
| Region of East Nusa Tenggara               | 246,231.73            | 88,767.01            | -                    | 11,008.58           | 346,007.32            | 0.16         |
| PT PLN Batam                               | 1,312,997.56          | 1,336,367.59         | -                    | -                   | 2,649,365.15          | 1.24         |
| PT PLN Tarakan                             | 208,897.98            | 78,202.89            | -                    | 9,379.64            | 296,480.51            | 0.14         |
| <b>Outside Java</b>                        | <b>34,095,211.33</b>  | <b>11,704,329.00</b> | <b>1,136,723.93</b>  | <b>352,452.61</b>   | <b>47,288,716.87</b>  | <b>22.08</b> |
| Dist. of East Java                         | 12,494,762.58         | 11,870,133.76        | 3,174,974.30         | 40,991.76           | 27,580,862.41         | 12.88        |
| Dist. of Central Java & Yogyakarta         | 10,198,190.50         | 8,077,040.38         | 556,356.12           | 154,043.35          | 18,985,630.36         | 8.87         |
| - Central Java                             | 8,197,102.29          | 7,464,509.55         | 556,356.12           | 154,043.35          | 16,372,011.32         | 7.65         |
| - D.I. Yogyakarta                          | 2,001,088.21          | 612,530.83           | -                    | -                   | 2,613,619.04          | 1.22         |
| Dist. of West Java                         | 13,873,722.80         | 20,748,546.67        | 4,387,522.85         | 199,556.84          | 39,209,349.17         | 18.31        |
| Dist. of Banten                            | 4,722,349.63          | 9,921,742.37         | 4,225,693.85         | 213,880.04          | 19,083,665.89         | 8.91         |
| Dist. of Jakarta Raya & Tangerang          | 17,451,062.78         | 13,804,474.83        | 588,512.75           | -                   | 31,844,050.36         | 14.87        |
| <b>Java</b>                                | <b>58,740,088.29</b>  | <b>64,421,938.02</b> | <b>12,933,059.87</b> | <b>608,472.00</b>   | <b>136,703,558.17</b> | <b>63.84</b> |
| Prepaid Electricity                        | 31,181,618.60         | 146,069.67           | -                    | 87,384.40           | 31,415,072.67         |              |
| Central Unit                               | (539,397.03)          | (577,285.74)         | (113,422.57)         | (5,636.76)          | (1,235,742.10)        |              |
| Correction                                 | (18,324.72)           | (11,233.55)          | (2,071.20)           | (154.74)            | (31,784.20)           |              |
| <b>Indonesia</b>                           | <b>123,459,196.47</b> | <b>75,683,817.40</b> | <b>13,954,290.04</b> | <b>1,042,517.51</b> | <b>214,139,821.41</b> | <b>100</b>   |
| <b>(%)</b>                                 | <b>57.65</b>          | <b>35.34</b>         | <b>6.52</b>          | <b>0.49</b>         | <b>100</b>            | <b>-</b>     |

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

**2016**

| Tariff Category  | Customers         | Connected (MVA)   | Sold (MWh)        | Revenue *) (thousand Rp)  |
|------------------|-------------------|-------------------|-------------------|---------------------------|
| S-1              | 34,362            | 0.50              | 2.92              | 10,494,172.42             |
| S-2              | 1,352,468         | 3,099.70          | 4,350.71          | 3,331,150,613.03          |
| S-3              | 1,542             | 1,234.76          | 2,280.09          | 2,079,276,133.69          |
| R-1              | 58,080,605        | 48,822.64         | 83,947.51         | 65,452,101,534.23         |
| R-2              | 929,348           | 3,826.41          | 6,108.40          | 8,549,361,281.18          |
| R-3              | 199,357           | 2,635.04          | 3,575.77          | 4,989,627,366.89          |
| B-1              | 2,594,685         | 4,459.30          | 6,205.85          | 6,048,511,553.92          |
| B-2              | 528,192           | 10,607.34         | 15,537.03         | 21,799,397,066.87         |
| B-3 **)          | 7,235             | 8,689.69          | 16,829.22         | 18,542,664,278.96         |
| I-1              | 21,186            | 136.14            | 149.19            | 151,780,382.03            |
| I-2              | 35,441            | 3,147.06          | 4,917.78          | 5,203,770,882.34          |
| I-3              | 12,914            | 18,547.86         | 48,663.64         | 52,366,458,277.80         |
| I-4              | 88                | 4,738.75          | 14,414.70         | 13,954,290,036.51         |
| P-1              | 167,998           | 1,448.46          | 2,198.73          | 2,972,831,051.34          |
| P-2              | 1,480             | 1,305.03          | 1,822.88          | 1,992,720,250.29          |
| P-3              | 205,940           | 1,042.98          | 3,497.58          | 4,950,170,561.84          |
| Traction T-1     | 52                | 258.46            | 222.88            | 74,930,653.50             |
| Bulk C-1         | 32                | 27.13             | 112.23            | 627,767,807.85            |
| Special Services | 109,568           | 320.36            | 1,167.19          | 1,042,517,505.23          |
| <b>Total</b>     | <b>64,282,493</b> | <b>114,347.64</b> | <b>216,004.32</b> | <b>214,139,821,409.93</b> |

\*) Included Prepared Electricity and Auditor Correction

\*\*) Included B4 Customers

# Annual Data 2016

**Table 15 : Waiting List**

**2016**

| PLN Operational Unit/<br>Province          | New Applicants   |                     | Connected        |                     | Discharging/Cancelled |                   | Waiting       |                   |
|--|------------------|---------------------|------------------|---------------------|-----------------------|-------------------|---------------|-------------------|
|  | Total            | Capacity<br>(kVA)   | Total            | Capacity<br>(kVA)   | Total                 | Capacity<br>(kVA) | Total         | Capacity<br>(kVA) |
| Region of Aceh                             | 54,406           | 82,614.19           | 54,307           | 74,469.59           | 94                    | 351.90            | 5             | 7,792.70          |
| Region of North Sumatera                   | 140,043          | 263,116.42          | 138,393          | 245,485.82          | 172                   | 922.40            | 1,478         | 16,708.20         |
| Region of West Sumatera                    | 59,857           | 80,614.75           | 58,592           | 78,826.20           | 539                   | 739.45            | 726           | 1,049.10          |
| Region of Riau                             | 145,799          | 250,192.45          | 142,237          | 243,182.55          | 157                   | 331.00            | 3,405         | 6,678.90          |
| - Riau                                     | 127,276          | 191,392.75          | 123,753          | 185,570.85          | 123                   | 258.20            | 3,400         | 5,563.70          |
| - Riau Archipelago                         | 18,523           | 58,799.70           | 18,484           | 57,611.70           | 34                    | 72.80             | 5             | 1,115.20          |
| Region of South Sumatera, Jambi & Bengkulu | 186,504          | 265,826.95          | 181,697          | 255,370.40          | 936                   | 1,238.95          | 3,871         | 9,217.60          |
| - South Sumatera                           | 102,579          | 144,899.95          | 100,221          | 140,352.05          | 489                   | 648.90            | 1,869         | 3,899.00          |
| - Jambi                                    | 55,789           | 82,674.05           | 53,927           | 79,311.50           | 382                   | 493.85            | 1,480         | 2,868.70          |
| - Bengkulu                                 | 28,136           | 38,252.95           | 27,549           | 35,706.85           | 65                    | 96.20             | 522           | 2,449.90          |
| Region of Bangka Belitung                  | 20,992           | 47,591.70           | 20,220           | 45,048.75           | 741                   | 2,496.65          | 31            | 46.30             |
| Distribution of Lampung                    | 98,398           | 142,663.65          | 96,295           | 135,355.95          | 861                   | 1,485.95          | 1,242         | 5,821.75          |
| Region of West Kalimantan                  | 49,893           | 81,442.85           | 47,272           | 75,444.15           | 307                   | 627.75            | 2,314         | 5,370.95          |
| Region of S & C Kalimantan                 | 86,857           | 132,651.45          | 85,794           | 128,545.55          | 212                   | 314.70            | 851           | 3,791.20          |
| - South Kalimantan                         | 49,618           | 81,225.30           | 48,987           | 77,816.20           | 125                   | 197.30            | 506           | 3,211.80          |
| - Central Kalimantan                       | 37,239           | 51,426.15           | 36,807           | 50,729.35           | 87                    | 117.40            | 345           | 579.40            |
| Region of East Kalimantan & North          | 61,169           | 122,838.32          | 59,564           | 118,691.82          | 214                   | 432.80            | 1,391         | 3,713.70          |
| Region of N, C Sulawesi & Gorontalo        | 61,481           | 149,533.30          | 61,205           | 141,366.75          | 22                    | 309.35            | 254           | 7,857.20          |
| - North Sulawesi                           | 22,475           | 84,415.25           | 22,322           | 79,857.95           | 18                    | 60.25             | 135           | 4,497.05          |
| - Gorontalo                                | 11,556           | 17,720.35           | 11,551           | 17,209.15           | 1                     | 164.00            | 4             | 347.20            |
| - Central Sulawesi                         | 27,450           | 47,397.70           | 27,332           | 44,299.65           | 3                     | 85.10             | 115           | 3,012.95          |
| Region of S, SE & W Sulawesi               | 137,638          | 219,519.77          | 131,410          | 209,811.82          | 95                    | 213.70            | 6,133         | 9,494.25          |
| - South Sulawesi                           | 92,406           | 152,526.87          | 90,980           | 149,351.47          | 67                    | 149.60            | 1,359         | 3,025.80          |
| - Southeast Sulawesi                       | 31,572           | 48,140.75           | 28,431           | 44,073.20           | 4                     | 31.90             | 3,137         | 4,035.65          |
| - West Sulawesi                            | 13,660           | 18,852.15           | 11,999           | 16,387.15           | 24                    | 32.20             | 1,637         | 2,432.80          |
| Region of Maluku & North Maluku            | 21,127           | 36,394.46           | 20,992           | 35,869.21           | 5                     | 74.30             | 130           | 450.95            |
| - Maluku                                   | 11,423           | 19,596.51           | 11,301           | 19,091.26           | 2                     | 67.30             | 120           | 437.95            |
| - North Maluku                             | 9,704            | 16,797.95           | 9,691            | 16,777.95           | 3                     | 7.00              | 10            | 13.00             |
| Region of Papua                            | 40,164           | 72,379.30           | 39,992           | 70,228.40           | 31                    | 157.90            | 141           | 1,993.00          |
| - Papua                                    | 23,694           | 39,935.10           | 23,686           | 39,256.50           | 1                     | 41.50             | 7             | 637.10            |
| - West Papua                               | 16,470           | 32,444.20           | 16,306           | 30,971.90           | 30                    | 116.40            | 134           | 1,355.90          |
| Distribution of Bali                       | 76,688           | 166,950.39          | 74,117           | 158,514.29          | 1,772                 | 6,081.55          | 799           | 2,354.55          |
| Region of West Nusa Tenggara               | 73,395           | 91,558.10           | 71,057           | 87,097.50           | 935                   | 1,611.10          | 1,403         | 2,849.50          |
| Region of East Nusa Tenggara               | 36,684           | 49,219.98           | 36,425           | 47,173.76           | 175                   | 579.73            | 84            | 1,466.50          |
| PT PLN Batam                               | -                | -                   | -                | -                   | -                     | -                 | -             | -                 |
| PT PLN Tarakan                             | -                | -                   | -                | -                   | -                     | -                 | -             | -                 |
| <b>Outside Java</b>                        | <b>1,351,095</b> | <b>2,255,108.03</b> | <b>1,319,569</b> | <b>2,150,482.51</b> | <b>7,268</b>          | <b>17,969.18</b>  | <b>24,258</b> | <b>86,656.35</b>  |
| Dist. of East Java                         | 424,830          | 695,621.10          | 416,043          | 677,713.20          | 8,044                 | 15,321.65         | 743           | 2,586.25          |
| Dist. of Central Java & Yogyakarta         | 382,058          | 644,923.15          | 376,356          | 629,608.45          | 4,618                 | 7,715.00          | 1,084         | 7,599.70          |
| - Central Java                             | 333,536          | 566,723.70          | 328,608          | 554,199.15          | 4,094                 | 6,638.00          | 834           | 5,886.55          |
| - D.I. Yogyakarta                          | 48,522           | 78,199.45           | 47,748           | 75,409.30           | 524                   | 1,077.00          | 250           | 1,713.15          |
| Dist. of West Java                         | 578,276          | 905,087.10          | 569,243          | 876,273.80          | 1,609                 | 3,318.45          | 7,424         | 25,494.85         |
| Dist. of Banten                            | 158,039          | 350,516.50          | 155,984          | 294,322.05          | 282                   | 1,134.00          | 1,773         | 55,060.45         |
| Dist. of Jakarta Raya & Tangerang          | 202,374          | 550,678.00          | 200,362          | 435,084.05          | 1,447                 | 4,377.00          | 565           | 111,216.95        |
| <b>Java</b>                                | <b>1,745,577</b> | <b>3,146,825.85</b> | <b>1,717,988</b> | <b>2,913,001.55</b> | <b>16,000</b>         | <b>31,866.10</b>  | <b>11,589</b> | <b>201,958.20</b> |
| <b>Indonesia</b>                           | <b>3,096,672</b> | <b>5,401,933.89</b> | <b>3,037,557</b> | <b>5,063,484.06</b> | <b>23,268</b>         | <b>49,835.28</b>  | <b>35,847</b> | <b>288,614.55</b> |

**Table 16 : SAIDI and SAIFI****2016**

| PLN Operational Unit/<br>Province          | SAIDI<br>Hours/Customer | SAIFI<br>Times/Customer |
|--|-------------------------|-------------------------|
| Region of Aceh                             | 13.62                   | 6.43                    |
| Region of North Sumatera                   | 43.74                   | 11.65                   |
| Region of West Sumatera                    | 5.48                    | 7.05                    |
| Region of Riau                             | 17.80                   | 12.53                   |
| - Riau                                     | -                       | -                       |
| - Riau Archipelago                         | -                       | -                       |
| Region of South Sumatera, Jambi & Bengkulu | 32.79                   | 23.63                   |
| - South Sumatera                           | -                       | -                       |
| - Jambi                                    | -                       | -                       |
| - Bengkulu                                 | -                       | -                       |
| Region of Bangka Belitung                  | 4.52                    | 2.88                    |
| Distribution of Lampung                    | 27.76                   | 14.36                   |
| Region of West Kalimantan                  | 36.76                   | 15.49                   |
| Region of S & C Kalimantan                 | 23.78                   | 17.62                   |
| - South Kalimantan                         | -                       | -                       |
| - Central Kalimantan                       | -                       | -                       |
| Region of East Kalimantan & North          | 49.01                   | 31.01                   |
| Region of N, C Sulawesi & Gorontalo        | 13.72                   | 10.10                   |
| - North Sulawesi                           | -                       | -                       |
| - Gorontalo                                | -                       | -                       |
| - Central Sulawesi                         | -                       | -                       |
| Region of S, SE & W Sulawesi               | 50.56                   | 50.45                   |
| - South Sulawesi                           | -                       | -                       |
| - Southeast Sulawesi                       | -                       | -                       |
| - West Sulawesi                            | -                       | -                       |
| Region of Maluku & North Maluku            | 12.60                   | 16.07                   |
| - Maluku                                   | -                       | -                       |
| - North Maluku                             | -                       | -                       |
| Region of Papua                            | 10.93                   | 8.45                    |
| Distribution of Bali                       | 2.26                    | 2.02                    |
| Region of West Nusa Tenggara               | 32.32                   | 26.68                   |
| Region of East Nusa Tenggara               | 29.85                   | 17.32                   |
| PT PLN Batam                               | 0.35                    | 0.72                    |
| PT PLN Tarakan                             | 8.86                    | 4.88                    |
| <b>Outside Java</b>                        | <b>27.91</b>            | <b>18.03</b>            |
| Dist. of East Java                         | 29.68                   | 14.01                   |
| Dist. of Central Java & Yogyakarta         | 32.28                   | 21.11                   |
| - Central Java                             | -                       | -                       |
| - D.I. Yogyakarta                          | -                       | -                       |
| Dist. of West Java                         | 21.85                   | 10.91                   |
| Dist. of Banten                            | 11.38                   | 7.77                    |
| Dist. of Jakarta Raya & Tangerang          | 4.17                    | 2.78                    |
| <b>Java</b>                                | <b>24.10</b>            | <b>13.31</b>            |
| <b>Indonesia</b>                           | <b>25.53</b>            | <b>15.09</b>            |

# Annual Data 2016

**Table 17 : SOD and SOF**

**2016**

| PLN Operational Unit/<br>Province          | Interruption<br>Duration<br>(Hours) | Number of<br>Interruption<br>(Times) | Transmission<br>Lines Length<br>(kmc) | System Outage<br>Duration (SOD)<br>(Hours/100 kmc) | System Outage<br>Frequency (SOF)<br>(Times/100 kmc) |
|--|-------------------------------------|--------------------------------------|---------------------------------------|--|---|
| Region of Aceh                             | -                                   | -                                    | -                                     | -  | -   |
| Region of North Sumatera                   | -                                   | -                                    | -                                     | -  | -   |
| Region of West Sumatera                    | -                                   | -                                    | -                                     | -  | -   |
| Region of Riau                             | -                                   | -                                    | 72.90                                 | -  | -   |
| - Riau                                     | -                                   | -                                    | -                                     | -  | -   |
| - Riau Archipelago                         | -                                   | -                                    | 72.90                                 | -  | -   |
| Region of South Sumatera, Jambi & Bengkulu | -                                   | -                                    | -                                     | -  | -   |
| - South Sumatera                           | -                                   | -                                    | -                                     | -  | -   |
| - Jambi                                    | -                                   | -                                    | -                                     | -  | -   |
| - Bengkulu                                 | -                                   | -                                    | -                                     | -  | -   |
| Region of Bangka Belitung                  | 1.33                                | 5.00                                 | 106.34                                | 1.25   | 4.70  |
| Distribution of Lampung                    | -                                   | -                                    | -                                     | -  | -   |
| Region of West Kalimantan                  | 32.09                               | 105                                  | 818.41                                | 3.92   | 12.83   |
| Region of S & C Kalimantan                 | 80.45                               | 83.00                                | 1,998.82                              | 4.02   | 4.15  |
| - South Kalimantan                         | 53.03                               | 55.00                                | 1,442.92                              | 3.68   | 3.81  |
| - Central Kalimantan                       | 27.42                               | 28.00                                | 555.90                                | 4.93   | 5.04  |
| Region of East Kalimantan & North          | 4.80                                | 4                                    | 859.95                                | 0.56   | 0.47  |
| Region of N, C Sulawesi & Gorontalo        | 183.48                              | 62.00                                | 2,396.98                              | 7.65   | 2.59  |
| - North Sulawesi                           | 132.17                              | 45                                   | 775.93                                | 17.03  | 5.80  |
| - Gorontalo                                | 41.31                               | 7                                    | 1,039.23                              | 3.98   | 0.67  |
| - Central Sulawesi                         | 10.00                               | 10                                   | 581.82                                | 1.72   | 1.72  |
| Region of S, SE & W Sulawesi               | 42.63                               | 21.00                                | 2,642.81                              | 1.61   | 0.79  |
| - South Sulawesi                           | 17.97                               | 18.00                                | 2,288.49                              | 0.79   | 0.79  |
| - Southeast Sulawesi                       | 3.70                                | 1.00                                 | 25.40                                 | 14.57  | 3.94  |
| - West Sulawesi                            | 20.97                               | 2.00                                 | 328.92                                | 6.37   | 0.61  |
| Region of Maluku & North Maluku            | -                                   | -                                    | -                                     | -  | -   |
| - Maluku                                   | -                                   | -                                    | -                                     | -  | -   |
| - North Maluku                             | -                                   | -                                    | -                                     | -  | -   |
| Region of Papua                            | -                                   | -                                    | 221.00                                | -  | -   |
| - Papua                                    | -                                   | -                                    | 221.00                                | -  | -   |
| - West Papua                               | -                                   | -                                    | -                                     | -  | -   |
| Distribution of Bali                       | -                                   | -                                    | -                                     | -  | -   |
| Region of West Nusa Tenggara               | 2.23                                | 2                                    | 256.20                                | 0.87   | 0.78  |
| Region of East Nusa Tenggara               | -                                   | -                                    | -                                     | -  | -   |
| PT PLN Batam                               | -                                   | -                                    | 169.47                                | -  | -   |
| PT PLN Tarakan                             | -                                   | -                                    | -                                     | -  | -   |
| Generation of Northern Part of Sumatera    | -                                   | -                                    | -                                     | -  | -   |
| Generation of Southern Part of Sumatera    | -                                   | -                                    | -                                     | -  | -   |
| Sumatera Trans. and Control Center         | 326.33                              | 116                                  | 11,969.10                             | 2.73   | 0.97  |
| <b>Outside Java</b>                        | <b>673.34</b>                       | <b>398.00</b>                        | <b>21,511.98</b>                      | <b>3.13</b>  | <b>1.85</b>   |
| Dist. of East Java                         | -                                   | -                                    | -                                     | -  | -   |
| Dist. of Central Java & Yogyakarta         | -                                   | -                                    | -                                     | -  | -   |
| - Central Java                             | -                                   | -                                    | -                                     | -  | -   |
| - D.I. Yogyakarta                          | -                                   | -                                    | -                                     | -  | -   |
| Dist. of West Java                         | -                                   | -                                    | -                                     | -  | -   |
| Dist. of Banten                            | -                                   | -                                    | -                                     | -  | -   |
| Dist. of Jakarta Raya & Tangerang          | -                                   | -                                    | -                                     | -  | -   |
| PT Indonesia Power                         | -                                   | -                                    | -                                     | -  | -   |
| PT Java Bali Genco                         | -                                   | -                                    | -                                     | -  | -   |
| Distribution and Load Control Center (P2B) | 153.27                              | 42                                   | 22,553.44                             | 0.68   | 0.19  |
| <b>Java</b>                                | <b>153.27</b>                       | <b>42.00</b>                         | <b>22,553.44</b>                      | <b>0.68</b>  | <b>0.19</b>   |
| <b>Indonesia</b>                           | <b>826.61</b>                       | <b>440.00</b>                        | <b>44,065.42</b>                      | <b>1.88</b>  | <b>1.00</b>   |

**Table 18 : Number of Distribution Interruption per 100 kmc****2016**

| PLN Operational Unit/<br>Province          | Number of Interruption<br>(Times) | Medium Voltage Lines<br>Length (kmc) | Number of Interruption<br>(Times/100 kmc) |
|--|-----------------------------------|--------------------------------------|---|
| Region of Aceh                             | 2,003                             | 16,324.38                            | 12.27                                     |
| Region of North Sumatera                   | 8,104                             | 25,455.70                            | 31.84                                     |
| Region of West Sumatera                    | 5,501                             | 10,493.00                            | 52.43                                     |
| Region of Riau                             | 2,529                             | 11,562.16                            | 21.87                                     |
| - Riau                                     | 2,124                             | 9,603.73                             | 22.12                                     |
| - Riau Archipelago                         | 405                               | 1,958.43                             | 20.68                                     |
| Region of South Sumatera, Jambi & Bengkulu | 11,062                            | 23,933.80                            | 46.22                                     |
| - South Sumatera                           | 7,398                             | 12,645.62                            | 58.50                                     |
| - Jambi                                    | 2,504                             | 7,078.98                             | 35.37                                     |
| - Bengkulu                                 | 1,160                             | 4,209.20                             | 27.56                                     |
| Region of Bangka Belitung                  | 825                               | 4,019.18                             | 20.53                                     |
| Distribution of Lampung                    | 2,935                             | 11,476.27                            | 25.57                                     |
| Region of West Kalimantan                  | 1,709                             | 10,638.50                            | 16.06                                     |
| Region of S & C Kalimantan                 | 6,930                             | 13,851.17                            | 50.03                                     |
| - South Kalimantan                         | 4,445                             | 8,264.34                             | 53.79                                     |
| - Central Kalimantan                       | 2,485                             | 5,586.83                             | 44.48                                     |
| Region of East Kalimantan & North          | 1,164                             | 6,910.49                             | 16.84                                     |
| Region of N, C Sulawesi & Gorontalo        | 2,852                             | 15,078.00                            | 18.91                                     |
| - North Sulawesi                           | 1,012                             | 6,422.00                             | 15.76                                     |
| - Gorontalo                                | 620                               | 2,225.00                             | 27.87                                     |
| - Central Sulawesi                         | 1,220                             | 6,431.00                             | 18.97                                     |
| Region of S, SE & W Sulawesi               | 16,174                            | 19,751.07                            | 81.89                                     |
| - South Sulawesi                           | 10,508                            | 13,106.30                            | 80.18                                     |
| - Southeast Sulawesi                       | 4,675                             | 4,677.95                             | 99.94                                     |
| - West Sulawesi                            | 991                               | 1,966.82                             | 50.39                                     |
| Region of Maluku & North Maluku            | 3,077                             | 6,324.54                             | 48.65                                     |
| - Maluku                                   | 2,734                             | 3,989.00                             | 68.54                                     |
| - North Maluku                             | 343                               | 2,335.54                             | 14.69                                     |
| Region of Papua                            | 2,644                             | 5,089.42                             | 51.95                                     |
| - Papua                                    | 1,488                             | 2,853.99                             | 52.14                                     |
| - West Papua                               | 1,156                             | 2,235.43                             | 51.71                                     |
| Distribution of Bali                       | 480                               | 7,097.00                             | 6.76                                      |
| Region of West Nusa Tenggara               | 903                               | 5,381.96                             | 16.78                                     |
| Region of East Nusa Tenggara               | 1,078                             | 6,821.00                             | 15.80                                     |
| PT PLN Batam                               | 221.00                            | 1,515.00                             | 14.59                                     |
| PT PLN Tarakan                             | 86                                | 203.09                               | 42.35                                     |
| Generation of Northern Part of Sumatera    | -                                 | -                                    | -   |
| Generation of Southern Part of Sumatera    | -                                 | -                                    | -   |
| Sumatera Trans. and Control Center         | -                                 | -                                    | -   |
| <b>Outside Java</b>                        | <b>70,277</b>                     | <b>201,925.73</b>                    | <b>34.80</b>                              |
| Dist. of East Java                         | 2,554                             | 35,920.00                            | 7.11                                      |
| Dist. of Central Java & Yogyakarta         | 4,638                             | 49,895.51                            | 9.30                                      |
| - Central Java                             | 3,972                             | 44,376.40                            | 8.95                                      |
| - D.I. Yogyakarta                          | 666                               | 5,519.11                             | 12.07                                     |
| Dist. of West Java                         | 4,041                             | 43,000.00                            | 9.40                                      |
| Dist. of Banten                            | 1,278                             | 14,437.00                            | 8.85                                      |
| Dist. of Jakarta Raya & Tangerang          | 1,977                             | 14,569.00                            | 13.57                                     |
| PT Indonesia Power                         | -                                 | -                                    | -   |
| PT Java Bali Genco                         | -                                 | -                                    | -   |
| Distribution and Load Control Center (P2B) | -                                 | -                                    | -   |
| <b>Java</b>                                | <b>14,488</b>                     | <b>157,821.51</b>                    | <b>9.18</b>                               |
| <b>Indonesia</b>                           | <b>84,765</b>                     | <b>359,747.24</b>                    | <b>23.56</b>                              |

# Annual Data 2016

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

**2016**

| PLN Operational Unit/<br>Province       | Population<br>(x1,000) | Residential<br>(x1,000) | Residential<br>Customers | Electrification *)<br>(%) | kWh Sold/Capita |
|---|------------------------|-------------------------|--------------------------|---------------------------|-----------------|
| Region of Aceh                          | 5,096.2                | 1,209.1                 | 1,157,061                | 95.69                     | 457.2           |
| Region of North Sumatera                | 14,102.9               | 3,299.5                 | 3,098,909                | 93.92                     | 655.2           |
| Region of West Sumatera                 | 5,259.5                | 1,250.5                 | 1,141,246                | 91.26                     | 599.1           |
| Region of Riau                          | 7,296.4                | 1,768.5                 | 1,397,440                | 79.02                     | 631.9           |
| - Riau                                  | 6,501.0                | 1,559.4                 | 1,201,666                | 77.06                     | 108.6           |
| - Riau Archipelago                      | 795.4                  | 209.1                   | 195,774                  | 93.61                     | 4,909.3         |
| Region South Sumatera, Jambi & Bengkulu | 13,524.6               | 3,329.0                 | 2,671,225                | 80.24                     | 510.6           |
| - South Sumatera                        | 8,160.9                | 1,986.4                 | 1,845,736                | 92.92                     | 101.1           |
| - Jambi                                 | 3,458.9                | 862.0                   | 396,570                  | 46.01                     | 330.4           |
| - Bengkulu                              | 1,904.8                | 480.6                   | 428,919                  | 89.24                     | 2,592.7         |
| Region of Bangka Belitung               | 1,401.8                | 356.5                   | 359,270                  | 100.76                    | 656.2           |
| Distribution of Lampung                 | 8,205.1                | 2,086.1                 | 1,736,244                | 83.23                     | 465.6           |
| Region of West Kalimantan               | 4,861.7                | 1,131.4                 | 884,789                  | 78.20                     | 444.4           |
| Region of S & C Kalimantan              | 6,605.7                | 1,750.8                 | 1,397,652                | 79.83                     | 516.9           |
| - South Kalimantan                      | 4,055.5                | 1,090.5                 | 963,395                  | 88.34                     | 571.0           |
| - Central Kalimantan                    | 2,550.2                | 660.3                   | 434,257                  | 65.76                     | 430.9           |
| Region of East Kalimantan & North       | 3,997.6                | 979.9                   | 838,985                  | 85.62                     | 801.5           |
| Region of N, C Sulawesi & Gorontalo     | 6,509.4                | 1,582.3                 | 1,301,966                | 82.28                     | 443.0           |
| - North Sulawesi                        | 2,436.9                | 624.5                   | 561,399                  | 89.90                     | 182.4           |
| - Gorontalo                             | 1,150.8                | 269.9                   | 222,657                  | 82.49                     | 902.5           |
| - Central Sulawesi                      | 2,921.7                | 687.9                   | 517,910                  | 75.29                     | 479.4           |
| Region of S, SE & W Sulawesi            | 12,463.9               | 2,844.5                 | 2,306,146                | 81.07                     | 483.9           |
| - South Sulawesi                        | 8,606.4                | 1,979.3                 | 1,743,496                | 88.09                     | 33.9            |
| - Southeast Sulawesi                    | 2,551.0                | 573.6                   | 386,021                  | 67.29                     | 1,935.7         |
| - West Sulawesi                         | 1,306.5                | 291.6                   | 176,629                  | 60.58                     | 613.5           |
| Region of Maluku & North Maluku         | 2,901.4                | 599.0                   | 459,643                  | 76.73                     | 284.6           |
| - Maluku                                | 1,715.5                | 354.2                   | 274,273                  | 77.44                     | 281.7           |
| - North Maluku                          | 1,185.9                | 244.8                   | 185,370                  | 75.71                     | 288.9           |
| Region of Papua                         | 4,100.8                | 943.0                   | 468,281                  | 49.66                     | 324.7           |
| - Papua                                 | 893.4                  | 745.5                   | 279,682                  | 37.52                     | 930.0           |
| - West Papua                            | 3,207.4                | 197.5                   | 188,599                  | 95.51                     | 156.1           |
| Distribution of Bali                    | 4,200.1                | 1,109.9                 | 1,019,857                | 91.89                     | 1,214.0         |
| Region of West Nusa Tenggara            | 4,896.2                | 1,362.7                 | 1,032,862                | 75.79                     | 325.0           |
| Region of East Nusa Tenggara            | 5,203.5                | 1,126.4                 | 590,982                  | 52.47                     | 159.4           |
| PT PLN Batam                            | 1,232.8                | 324.4                   | 196,127                  | 60.45                     | 1,888.5         |
| PT PLN Tarakan                          | 170.0                  | 41.68                   | 43,701                   | 104.86                    | 1,298.3         |
| <b>Outside Java</b>                     | <b>112,029.6</b>       | <b>27,095.3</b>         | <b>22,102,386</b>        | <b>81.57</b>              | <b>543.6</b>    |
| Dist. of East Java                      | 39,075.3               | 10,822.2                | 9,636,944                | 89.05                     | 842.7           |
| Dist. of Central Java & Yogyakarta      | 37,740.0               | 10,260.3                | 9,540,163                | 92.98                     | 645.8           |
| - Central Java                          | 34,019.1               | 9,143.3                 | 8,551,036                | 93.52                     | 79.3            |
| - D.I. Yogyakarta                       | 3,720.9                | 1,116.9                 | 989,127                  | 88.56                     | 5,825.2         |
| Dist. of West Java                      | 47,379.4               | 12,647.9                | 11,747,972               | 92.89                     | 973.9           |
| Dist. of Banten                         | 12,203.1               | 2,980.1                 | 2,547,847                | 85.50                     | 1,669.1         |
| Dist. of Jakarta Raya & Tangerang       | 10,277.6               | 2,683.8                 | 3,668,360                | 136.69                    | 3,044.8         |
| <b>J a v a</b>                          | <b>146,675.4</b>       | <b>39,394.2</b>         | <b>37,141,286</b>        | <b>94.28</b>              | <b>1,057.5</b>  |
| <b>I n d o n e s i a</b>                | <b>258,705.0</b>       | <b>66,489.4</b>         | <b>59,243,672</b>        | <b>89.10</b>              | <b>834.9</b>    |

\*) Excluded non PLN Customer

**Table 20 : Number of Generating Units \*)****2016**

| PLN Operational Unit/<br>Province                          | Hydro      | Steam      | Gas<br>Turbine | Combined<br>Cycle | Geo-<br>thermal | Diesel**)    | Solar     | Wind     | Total        | Rental     | IPP        | Total        |
|--|------------|------------|----------------|-------------------|-----------------|--------------|-----------|----------|--------------|------------|------------|--------------|
| Region of Aceh   | 4          | -          | -              | -                 | -               | 198          | -         | -        | 202          | 12         | 7          | 221          |
| Region of North Sumatera                                   | -          | -          | -              | -                 | -               | 27           | -         | -        | 27           | 7          | 17         | 51           |
| Region of West Sumatera                                    | 3          | -          | -              | -                 | -               | 97           | 2         | -        | 102          | 4          | 7          | 113          |
| Region of Riau   | -          | 2          | -              | -                 | -               | 436          | 1         | -        | 439          | 78         | 13         | 530          |
| - Riau   | -          | -          | -              | -                 | -               | 246          | -         | -        | 246          | 59         | 6          | 311          |
| - Riau Archipelago   | -          | 2          | -              | -                 | -               | 190          | 1         | -        | 193          | 19         | 7          | 219          |
| Region of South Sumatera, Jambi & Bengkulu                 | 2          | -          | -              | -                 | -               | 159          | -         | -        | 161          | 4          | 16         | 181          |
| - South Sumatera   | -          | -          | -              | -                 | -               | 48           | -         | -        | 48           | -          | 11         | 59           |
| - Jambi  | -          | -          | -              | -                 | -               | 58           | -         | -        | 58           | 1          | 4          | 63           |
| - Bengkulu   | 2          | -          | -              | -                 | -               | 53           | -         | -        | 55           | 3          | 1          | 59           |
| Region of Bangka Belitung                                  | -          | 4          | -              | -                 | -               | 61           | 4         | -        | 69           | 15         | 5          | 89           |
| Distribution of Lampung                                    | -          | -          | -              | -                 | -               | 34           | -         | -        | 34           | -          | 2          | 36           |
| Region of West Kalimantan                                  | 6          | 4          | 1              | -                 | -               | 250          | 3         | -        | 264          | 34         | 8          | 306          |
| Region of S & C Kalimantan                                 | 3          | 5          | 1              | -                 | -               | 433          | -         | -        | 442          | 59         | 15         | 516          |
| - South Kalimantan   | 3          | 5          | 1              | -                 | -               | 130          | -         | -        | 139          | 25         | 9          | 173          |
| - Central Kalimantan                                       | -          | -          | -              | -                 | -               | 303          | -         | -        | 303          | 34         | 6          | 343          |
| Region of East Kalimantan & North                          | 1          | -          | 4              | 3                 | -               | 344          | 7         | -        | 359          | 72         | 19         | 450          |
| Region of N, C Sulawesi & Gorontalo                        | 23         | 2          | 4              | 1                 | 4               | 457          | 7         | 2        | 500          | 45         | 19         | 564          |
| - North Sulawesi   | 12         | 2          | 4              | 1                 | 4               | 155          | 6         | 1        | 185          | 17         | 4          | 206          |
| - Gorontalo  | 2          | -          | -              | -                 | -               | 22           | 1         | 1        | 26           | 7          | 4          | 37           |
| - Central Sulawesi   | 9          | -          | -              | -                 | -               | 280          | -         | -        | 289          | 21         | 11         | 321          |
| Region of S, SE & W Sulawesi                               | 20         | 4          | 5              | -                 | -               | 255          | 9         | -        | 293          | 36         | 15         | 344          |
| - South Sulawesi   | 15         | 2          | 5              | -                 | -               | 67           | 6         | -        | 95           | 12         | 12         | 121          |
| - Southeast Sulawesi                                       | 5          | 2          | -              | -                 | -               | 177          | 3         | -        | 187          | 23         | 1          | 211          |
| - West Sulawesi  | -          | -          | -              | -                 | -               | 11           | -         | -        | 11           | 1          | -          | 12           |
| Region of Maluku & North Maluku                            | -          | 4          | -              | -                 | -               | 771          | 13        | 1        | 789          | 128        | -          | 917          |
| - Maluku   | -          | 4          | -              | -                 | -               | 512          | 11        | 1        | 528          | 101        | -          | 629          |
| - North Maluku   | -          | -          | -              | -                 | -               | 259          | 2         | -        | 261          | 27         | -          | 288          |
| Region of Papua  | 16         | 1          | -              | -                 | -               | 391          | 6         | -        | 414          | 52         | 9          | 475          |
| - Papua  | 12         | 1          | -              | -                 | -               | 188          | 3         | -        | 204          | 34         | -          | 238          |
| - West Papua   | 4          | -          | -              | -                 | -               | 203          | 3         | -        | 210          | 18         | 9          | 237          |
| Distribution of Bali                                       | -          | -          | -              | -                 | -               | 7            | -         | 3        | 10           | 6          | 11         | 27           |
| Region of West Nusa Tenggara                               | 4          | 2          | -              | -                 | -               | 144          | 5         | -        | 155          | 28         | 5          | 188          |
| Region of East Nusa Tenggara                               | 8          | 2          | -              | -                 | 2               | 424          | 10        | 1        | 447          | 23         | 3          | 473          |
| PT PLN Batam   | -          | -          | 3              | -                 | -               | 23           | -         | -        | 26           | 5          | 25         | 56           |
| PT PLN Tarakan   | -          | -          | 2              | -                 | -               | 9            | -         | -        | 11           | 12         | 2          | 25           |
| Generation of Northern Part of Sumatera                    | 20         | 12         | 10             | 6                 | -               | 55           | -         | -        | 103          | 13         | 1          | 117          |
| Generation of Southern Part of Sumatera                    | 25         | 12         | 15             | 3                 | 2               | 30           | -         | -        | 87           | 17         | -          | 104          |
| Sumatera Trans. and Control Center                         | -          | -          | -              | -                 | -               | -            | -         | -        | -            | -          | 11         | 11           |
| <b>Outside Java</b>  | <b>135</b> | <b>54</b>  | <b>45</b>      | <b>13</b>         | <b>8</b>        | <b>4,605</b> | <b>67</b> | <b>7</b> | <b>4,934</b> | <b>650</b> | <b>210</b> | <b>5,794</b> |
| Dist. of East Java   | 2          | -          | -              | -                 | -               | 42           | -         | -        | 44           | 40         | 6          | 90           |
| Dist. of Central Java & Yogyakarta                         | 3          | -          | -              | -                 | -               | -            | -         | -        | 3            | -          | 10         | 13           |
| - Central Java   | 2          | -          | -              | -                 | -               | -            | -         | -        | 2            | -          | 10         | 12           |
| - D.I. Yogyakarta  | 1          | -          | -              | -                 | -               | -            | -         | -        | 1            | -          | -          | 1            |
| Dist. of West Java   | -          | -          | -              | -                 | -               | -            | -         | -        | -            | -          | 26         | 26           |
| Dist. of Banten  | -          | -          | -              | -                 | -               | 3            | -         | -        | 3            | -          | 5          | 8            |
| Dist. of Jakarta Raya & Tangerang                          | -          | -          | -              | -                 | -               | -            | -         | -        | -            | -          | -          | -            |
| PT Indonesia Power   | 59         | 14         | 18             | 20                | 7               | 13           | -         | -        | 131          | 7          | -          | 138          |
| PT Java Bali Genco   | 33         | 11         | 12             | 20                | -               | 1            | 1         | -        | 78           | -          | -          | 78           |
| Distribution and Load Control Center (P2B) Java & Bali     | -          | -          | -              | -                 | -               | -            | -         | -        | -            | -          | 18         | 18           |
| Generation of Tanjung Jati B                               | -          | 4          | -              | -                 | -               | -            | -         | -        | 4            | -          | -          | 4            |
| Generation Unit of Java Bali                               | -          | -          | -              | -                 | -               | -            | -         | -        | -            | -          | -          | -            |
| Generation of Western Part of Java                         | -          | 6          | -              | 11                | -               | -            | -         | -        | 17           | -          | -          | 17           |
| Generation of Central Part of Java                         | -          | 9          | -              | 2                 | -               | -            | -         | -        | 11           | -          | -          | 11           |
| Generation of Eastern Part of Java & Bali                  | -          | 5          | -              | -                 | -               | -            | -         | -        | 5            | -          | -          | 5            |
| <b>Java</b>  | <b>97</b>  | <b>49</b>  | <b>30</b>      | <b>53</b>         | <b>7</b>        | <b>59</b>    | <b>1</b>  | <b>-</b> | <b>296</b>   | <b>47</b>  | <b>65</b>  | <b>408</b>   |
| Power Plant Development Unit (UIP) of Sumatera Power Plant | -          | 1          | -              | -                 | -               | -            | -         | -        | 1            | -          | -          | 1            |
| Power Plant Development Unit (UIP) of Central Kalimantan   | -          | 1          | -              | -                 | -               | 1            | -         | -        | 2            | -          | -          | 2            |
| Power Plant Development Unit (UIP) of East Kalimantan      | -          | 2          | -              | -                 | -               | -            | -         | -        | 2            | -          | -          | 2            |
| Generation Projects  | -          | 4          | -              | -                 | -               | 1            | -         | -        | 5            | -          | -          | 5            |
| <b>Indonesia</b>   | <b>232</b> | <b>107</b> | <b>75</b>      | <b>66</b>         | <b>15</b>       | <b>4,665</b> | <b>68</b> | <b>7</b> | <b>5,235</b> | <b>697</b> | <b>275</b> | <b>6,207</b> |

\*) Generation own by PLN, Rental and IPP

\*\*) Total Diesel Including Diesel Gas

# Annual Data 2016

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

**2016**

| PLN Operational Unit/ Province                             | Hydro    | Steam     | Gas Turbined | Combined Cycle | Geo-thermal | Diesel*) | Solar | Wind | Total     | Rental   | IPP       | Total     |
|--|----------|-----------|--------------|----------------|-------------|----------|-------|------|-----------|----------|-----------|-----------|
| Region of Aceh   | 2.42     | -         | -            | -              | -           | 118.65   | -     | -    | 121.07    | 46.00    | 26.25     | 193.32    |
| Region of North Sumatera                                   | -        | -         | -            | -              | -           | 8.69     | -     | -    | 8.69      | 66.38    | 24.20     | 99.27     |
| Region of West Sumatera                                    | 0.66     | -         | -            | -              | -           | 33.54    | 0.19  | -    | 34.38     | 38.96    | 23.53     | 96.87     |
| Region of Riau   | -        | 14.00     | -            | -              | -           | 181.22   | 0.20  | -    | 195.42    | 253.81   | 31.88     | 481.11    |
| - Riau   | -        | -         | -            | -              | -           | 75.95    | -     | -    | 75.95     | 172.25   | -         | 248.20    |
| - Riau Archipelago   | -        | 14.00     | -            | -              | -           | 105.27   | 0.20  | -    | 119.47    | 81.56    | 31.88     | 232.91    |
| Region of South Sumatera, Jambi & Bengkulu                 | 1.60     | -         | -            | -              | -           | 54.94    | -     | -    | 56.54     | 36.41    | 190.45    | 283.40    |
| - South Sumatera   | -        | -         | -            | -              | -           | 7.98     | -     | -    | 7.98      | -        | 113.45    | 121.43    |
| - Jambi  | -        | -         | -            | -              | -           | 21.51    | -     | -    | 21.51     | 8.00     | 65.00     | 94.51     |
| - Bengkulu   | 1.60     | -         | -            | -              | -           | 25.46    | -     | -    | 27.06     | 28.41    | 12.00     | 67.47     |
| Region of Bangka Belitung                                  | -        | 93.00     | -            | -              | -           | 89.03    | 0.33  | -    | 182.36    | 79.00    | 63.20     | 324.56    |
| Distribution of Lampung                                    | -        | -         | -            | -              | -           | 1.12     | -     | -    | 1.12      | -        | 24.00     | 25.12     |
| Region of West Kalimantan                                  | 2.03     | 38.00     | 34.00        | -              | -           | 194.39   | 0.18  | -    | 268.59    | 242.00   | 340.74    | 851.33    |
| Region of S & C Kalimantan                                 | 30.00    | 326.00    | 21.00        | -              | -           | 217.67   | -     | -    | 594.67    | 184.40   | 111.60    | 890.67    |
| - South Kalimantan   | 30.00    | 326.00    | 21.00        | -              | -           | 138.47   | -     | -    | 515.47    | 113.85   | 80.80     | 710.12    |
| - Central Kalimantan                                       | -        | -         | -            | -              | -           | 79.20    | -     | -    | 79.20     | 70.55    | 30.80     | 180.55    |
| Region of East Kalimantan & North                          | 0.12     | -         | 198.40       | 60.00          | -           | 204.74   | 1.83  | -    | 465.09    | 136.50   | 301.40    | 902.99    |
| Region of N, C Sulawesi & Gorontalo                        | 66.53    | 50.00     | 104.80       | -              | 80.00       | 257.27   | 1.02  | 0.58 | 560.20    | 140.00   | 471.05    | 1,171.26  |
| - North Sulawesi   | 56.38    | 50.00     | 104.80       | -              | 80.00       | 106.00   | 0.98  | 0.08 | 398.23    | 35.00    | 163.00    | 596.23    |
| - Gorontalo  | 1.20     | -         | -            | -              | -           | 26.22    | 0.05  | 0.50 | 27.97     | 22.00    | 27.30     | 77.27     |
| - Central Sulawesi   | 8.95     | -         | -            | -              | -           | 125.06   | -     | -    | 134.01    | 83.00    | 280.75    | 497.76    |
| Region of S, SE & W Sulawesi                               | 160.00   | 130.00    | 122.72       | -              | -           | 170.67   | 1.98  | -    | 585.36    | 307.00   | 775.20    | 1,667.56  |
| - South Sulawesi   | 155.90   | 110.00    | 122.72       | -              | -           | 62.49    | 1.30  | -    | 452.41    | 216.00   | 761.20    | 1,429.61  |
| - Southeast Sulawesi                                       | 4.10     | 20.00     | -            | -              | -           | 104.96   | 0.68  | -    | 129.74    | 88.00    | 14.00     | 231.74    |
| - West Sulawesi  | -        | -         | -            | -              | -           | 3.22     | -     | -    | 3.22      | 3.00     | -         | 6.22      |
| Region of Maluku & North Maluku                            | -        | 14.25     | -            | -              | -           | 229.04   | 2.47  | 0.02 | 245.77    | 115.82   | -         | 361.59    |
| - Maluku   | -        | 14.25     | -            | -              | -           | 164.09   | 1.27  | 0.02 | 179.62    | 111.12   | -         | 290.74    |
| - North Maluku   | -        | -         | -            | -              | -           | 64.95    | 1.20  | -    | 66.15     | 4.70     | -         | 70.85     |
| Region of Papua  | 29.59    | 10.00     | -            | -              | -           | 164.35   | 1.37  | -    | 205.31    | 133.34   | 58.63     | 397.27    |
| - Papua  | 24.46    | 10.00     | -            | -              | -           | 90.05    | 0.90  | -    | 125.41    | 100.64   | -         | 226.05    |
| - West Papua   | 5.13     | -         | -            | -              | -           | 74.30    | 0.47  | -    | 79.90     | 32.70    | 58.63     | 171.23    |
| Distribution of Bali                                       | -        | -         | -            | -              | -           | 2.76     | -     | 0.30 | 3.06      | 9.60     | 3.42      | 16.08     |
| Region of West Nusa Tenggara                               | 2.02     | 60.00     | -            | -              | -           | 138.25   | 0.83  | -    | 201.10    | 234.40   | 11.70     | 447.20    |
| Region of East Nusa Tenggara                               | 6.04     | 41.10     | -            | -              | 15.89       | 147.45   | 1.56  | 0.09 | 212.13    | 103.90   | 65.03     | 381.06    |
| PT PLN Batam   | -        | -         | 49.52        | -              | -           | 89.53    | -     | -    | 139.05    | 215.46   | 208.46    | 562.97    |
| PT PLN Tarakan   | -        | -         | 12.00        | -              | -           | 15.71    | -     | -    | 27.71     | 60.60    | 7.00      | 95.31     |
| Generation of Northern Part of Sumatera                    | 253.50   | 1,260.00  | 302.46       | 817.88         | -           | 416.93   | -     | -    | 3,050.77  | 462.00   | 75.00     | 3,587.77  |
| Generation of Southern Part of Sumatera                    | 608.42   | 1,094.00  | 325.70       | 120.00         | 110.00      | 233.95   | -     | -    | 2,492.07  | 564.33   | -         | 3,056.40  |
| Sumatera Trans. and Control Center                         | -        | -         | -            | -              | -           | -        | -     | -    | -         | -        | 1,527.00  | 1,527.00  |
| Outside Java   | 1,162.92 | 3,130.35  | 1,170.59     | 997.88         | 205.89      | 2,969.91 | 11.94 | 0.99 | 9,650.48  | 3,429.91 | 4,339.74  | 17,420.13 |
| Dist. of East Java   | 1.85     | -         | -            | -              | -           | 21.29    | -     | -    | 23.14     | 13.65    | 22.60     | 59.39     |
| Dist. of Central Java & Yogyakarta                         | 0.66     | -         | -            | -              | -           | -        | -     | -    | 0.66      | -        | 10.27     | 10.93     |
| - Central Java   | 0.48     | -         | -            | -              | -           | -        | -     | -    | 0.48      | -        | 10.27     | 10.75     |
| - D.I. Yogyakarta  | 0.18     | -         | -            | -              | -           | -        | -     | -    | 0.18      | -        | -         | 0.18      |
| Dist. of West Java   | -        | -         | -            | -              | -           | -        | -     | -    | -         | -        | 49.40     | 49.40     |
| Dist. of Banten  | -        | -         | -            | -              | -           | 0.35     | -     | -    | 0.35      | -        | 14.00     | 14.35     |
| Dist. of Jakarta Raya & Tangerang                          | -        | -         | -            | -              | -           | -        | -     | -    | -         | -        | -         | -         |
| PT Indonesia Power   | 1,119.52 | 3,900.00  | 846.36       | 2,675.73       | 375.00      | 226.03   | -     | -    | 9,142.64  | 65.00    | -         | 9,207.64  |
| PT Java Bali Genco   | 1,282.88 | 2,100.00  | 1,191.20     | 2,747.36       | -           | -        | 1.00  | -    | 7,322.44  | -        | -         | 7,322.44  |
| Distribution and Load Control Center (P2B)                 | -        | -         | -            | -              | -           | -        | -     | -    | -         | -        | 6,934.87  | 6,934.87  |
| Generation of Tanjung Jati B                               | -        | 2,840.00  | -            | -              | -           | -        | -     | -    | 2,840.00  | -        | -         | 2,840.00  |
| Generation of Western Part of Java                         | -        | 2,170.00  | -            | 2,541.14       | -           | -        | -     | -    | 4,711.14  | -        | -         | 4,711.14  |
| Generation of Central Part of Java                         | -        | 3,330.00  | -            | 242.00         | -           | -        | -     | -    | 3,572.00  | -        | -         | 3,572.00  |
| Generation of Eastern Part of Java & Bali                  | -        | 1,990.00  | -            | -              | -           | -        | -     | -    | 1,990.00  | -        | -         | 1,990.00  |
| Java   | 2,404.91 | 16,330.00 | 2,037.56     | 8,206.23       | 375.00      | 247.67   | 1.00  | -    | 29,602.37 | 78.65    | 7,031.14  | 36,712.15 |
| Power Plant Development Unit (UIP) of Sumatera Power Plant | -        | 110.00    | -            | -              | -           | -        | -     | -    | 110.00    | -        | -         | 110.00    |
| Power Plant Development Unit (UIP) of Central Kalimantan   | -        | 66.00     | -            | -              | -           | 136.22   | -     | -    | 202.22    | -        | -         | 202.22    |
| Power Plant Development Unit (UIP) of East Kalimantan      | -        | 220.00    | -            | -              | -           | -        | -     | -    | 220.00    | -        | -         | 220.00    |
| Generation Projects  | -        | 396.00    | -            | -              | -           | 136.22   | -     | -    | 532.22    | -        | -         | 532.22    |
| Indonesia %  | 3,567.83 | 19,856.35 | 3,208.15     | 9,204.11       | 580.89      | 3,353.80 | 12.94 | 0.99 | 39,785.06 | 3,508.56 | 11,370.87 | 54,664.50 |
| *) Total Diesel Including Diesel Gas                       |          |           |              |                |             |          |       |      |           |          |           |           |

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

2016

| PLN Operational Unit/<br>Province                          | Hydro           | Steam            | Gas<br>Turbine  | Combined<br>Cycle | Geo-<br>thermal | Diesel*)        | Solar       | Wind        | Total            | (%)          | Rental          | Purchased       | Total            |
|--|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|-------------|-------------|------------------|--------------|-----------------|-----------------|------------------|
| Region of Aceh   | 2.03            | -                | -               | -                 | -               | 58.51           | -           | -           | 60.54            | 0.18         | 45.46           | 20.98           | 126.98           |
| Region of North Sumatera                                   | -               | -                | -               | -                 | -               | 4.93            | -           | -           | 4.93             | 0.01         | 49.6            | 17.56           | 72.09            |
| Region of West Sumatera                                    | 0.05            | -                | -               | -                 | -               | 18.02           | 0.13        | -           | 18.20            | 0.05         | 32.6            | 18.93           | 69.73            |
| Region of Riau   | -               | 12.00            | -               | -                 | -               | 105.61          | 0.10        | -           | 117.71           | 0.34         | 231.58          | 28.31           | 377.60           |
| - Riau   | -               | -                | -               | -                 | -               | 41.76           | -           | -           | 41.76            | 0.12         | 150.03          | -               | 191.79           |
| - Riau Archipelago   | -               | 12.00            | -               | -                 | -               | 63.86           | 0.10        | -           | 75.96            | 0.22         | 81.55           | 28.31           | 185.82           |
| Region of South Sumatera, Jambi & Bengkulu                 | -               | -                | -               | -                 | -               | 29.45           | -           | -           | 29.45            | 0.09         | 19.4            | 153.77          | 202.62           |
| - South Sumatera   | -               | -                | -               | -                 | -               | 4.75            | -           | -           | 4.75             | 0.01         | -               | 103.77          | 108.52           |
| - Jambi  | -               | -                | -               | -                 | -               | 10.88           | -           | -           | 10.88            | 0.03         | 6.5             | 38.00           | 55.38            |
| - Bengkulu   | -               | -                | -               | -                 | -               | 13.82           | -           | -           | 13.82            | 0.04         | 12.9            | 12.00           | 38.72            |
| Region of Bangka Belitung                                  | -               | 86.00            | -               | -                 | -               | 40.99           | 0.17        | -           | 127.16           | 0.37         | 87.4            | 61.40           | 275.96           |
| Distribution of Lampung                                    | -               | -                | -               | -                 | -               | 0.92            | -           | -           | 0.92             | -            | -               | 24.00           | 24.92            |
| Region of West Kalimantan                                  | 1.86            | 34.00            | 34.00           | -                 | -               | 101.84          | 0.12        | -           | 171.82           | 0.50         | 226.7           | 198.74          | 597.26           |
| Region of S & C Kalimantan                                 | 30.00           | 304.00           | 17.50           | -                 | -               | 113.44          | -           | -           | 464.94           | 1.35         | 184.4           | 128.60          | 777.94           |
| - South Kalimantan   | 30.00           | 304.00           | 17.50           | -                 | -               | 67.52           | -           | -           | 419.02           | 1.22         | 113.85          | 109.50          | 642.37           |
| - Central Kalimantan                                       | -               | -                | -               | -                 | -               | 45.92           | -           | -           | 45.92            | 0.13         | 70.55           | 19.10           | 135.57           |
| Region of East Kalimantan & North                          | 0.08            | -                | 178.00          | 15.00             | -               | 106.18          | 1.29        | -           | 300.55           | 0.87         | 123.32          | 315.95          | 739.82           |
| Region of N, C Sulawesi & Gorontalo                        | 58.63           | 40.00            | 100.00          | -                 | 80.00           | 144.04          | 0.41        | 0.28        | 423.35           | 1.23         | 116.07          | 359.90          | 899.32           |
| - North Sulawesi   | 51.80           | 40.00            | 100.00          | -                 | 80.00           | 63.80           | 0.39        | 0.08        | 336.07           | 0.97         | 26.81           | 163.00          | 525.88           |
| - Gorontalo  | 1.00            | -                | -               | -                 | -               | 15.08           | 0.02        | 0.20        | 16.30            | 0.05         | 16.5            | 15.95           | 48.75            |
| - Central Sulawesi   | 5.83            | -                | -               | -                 | -               | 65.16           | -           | -           | 70.99            | 0.21         | 72.76           | 180.95          | 324.70           |
| Region of S, SE & W Sulawesi                               | 152.84          | 101.64           | 55.00           | -                 | -               | 92.91           | 1.80        | -           | 404.19           | 1.17         | 307.00          | 770.50          | 1481.69          |
| - South Sulawesi   | 150.94          | 80.00            | 55.00           | -                 | -               | 27.06           | 1.30        | -           | 314.30           | 0.91         | 216.00          | 756.50          | 1286.80          |
| - Southeast Sulawesi                                       | 1.90            | 21.64            | -               | -                 | -               | 64.06           | 0.50        | -           | 88.10            | 0.26         | 88.00           | 14.00           | 190.10           |
| - West Sulawesi  | -               | -                | -               | -                 | -               | 1.79            | -           | -           | 1.79             | 0.01         | 3.00            | -               | 4.79             |
| Region of Maluku & North Maluku                            | -               | 1.38             | -               | -                 | -               | 122.50          | 1.71        | 0.02        | 125.61           | 0.36         | 102.80          | -               | 228.41           |
| - Maluku   | -               | 1.38             | -               | -                 | -               | 85.02           | 1.11        | 0.02        | 87.52            | 0.25         | 87.75           | -               | 175.27           |
| - North Maluku   | -               | -                | -               | -                 | -               | 37.49           | 0.60        | -           | 38.09            | 0.11         | 15.05           | -               | 53.14            |
| Region of Papua  | 27.39           | -                | -               | -                 | -               | 113.04          | 0.63        | -           | 141.05           | 0.41         | 140.39          | 56.35           | 337.79           |
| - Papua  | 23.26           | -                | -               | -                 | -               | 63.18           | -           | -           | 86.67            | 0.25         | 108.79          | -               | 195.46           |
| - West Papua   | 4.13            | -                | -               | -                 | -               | 49.86           | 0.39        | -           | 54.38            | 0.16         | 31.60           | 56.35           | 142.33           |
| Distribution of Bali                                       | -               | -                | -               | -                 | -               | 1.40            | -           | -           | 1.40             | -            | 7.80            | 1.95            | 11.15            |
| Region of West Nusa Tenggara                               | 1.55            | 50.00            | -               | -                 | -               | 94.03           | 0.74        | -           | 146.32           | 0.42         | 223.75          | 3.10            | 373.17           |
| Region of East Nusa Tenggara                               | 3.44            | 4.90             | -               | -                 | 12.84           | 56.67           | 1.20        | -           | 79.06            | 0.23         | 109.32          | 53.03           | 241.41           |
| PT PLN Batam   | -               | -                | 47.74           | -                 | -               | 44.00           | -           | -           | 91.74            | 0.27         | 192.10          | 176.30          | 460.14           |
| PT PLN Tarakan   | -               | -                | 3.80            | -                 | -               | -               | -           | -           | 3.80             | 0.01         | 34.50           | 5.00            | 43.30            |
| Generation of Northern Part of Sumatera                    | 198.10          | 803.46           | 136.54          | 469.00            | -               | 305.16          | -           | -           | 1,912.25         | 5.55         | 411.30          | 60.00           | 2,383.55         |
| Generation of Southern Part of Sumatera                    | 602.15          | 817.42           | 269.17          | 112.00            | 103.84          | 162.05          | -           | -           | 2,066.63         | 6.00         | 564.33          | -               | 2,630.96         |
| Sumatera Trans. and Control Center                         | -               | -                | -               | -                 | -               | -               | -           | -           | -                | -            | -               | 1,221.60        | 1,221.60         |
| <b>Outside Java</b>  | <b>1,078.11</b> | <b>2,254.80</b>  | <b>841.75</b>   | <b>596.00</b>     | <b>196.68</b>   | <b>1,715.68</b> | <b>8.28</b> | <b>0.30</b> | <b>6,691.61</b>  | <b>19.41</b> | <b>3,209.82</b> | <b>3,675.97</b> | <b>13,577.40</b> |
| Dist. of East Java   | 1.80            | -                | -               | -                 | -               | 6.82            | -           | -           | 8.62             | 0.03         | 13.83           | 20.59           | 43.04            |
| Dist. of Central Java & Yogyakarta                         | 0.57            | -                | -               | -                 | -               | -               | -           | -           | 0.57             | -            | -               | 7.43            | 8.00             |
| - Central Java   | 0.39            | -                | -               | -                 | -               | -               | -           | -           | 0.39             | -            | -               | 7.43            | 7.82             |
| - D.I. Yogyakarta  | 0.18            | -                | -               | -                 | -               | -               | -           | -           | 0.18             | -            | -               | -               | 0.18             |
| Dist. of West Java   | -               | -                | -               | -                 | -               | -               | -           | -           | -                | -            | -               | 39.52           | 39.52            |
| Dist. of Banten  | -               | -                | -               | -                 | -               | 0.15            | -           | -           | 0.15             | -            | -               | 11.20           | 11.35            |
| Dist. of Jakarta Raya & Tangerang                          | -               | -                | -               | -                 | -               | -               | -           | -           | -                | -            | -               | -               | -                |
| PT Indonesia Power   | 1,113.56        | 3,525.60         | 680.04          | 2,415.23          | 326.6           | 197.68          | -           | -           | 8,258.71         | 23.96        | 60.00           | -               | 8,318.71         |
| PT Java Bali Genco   | 1,216.58        | 1,970.00         | 1,148.00        | 2,469.00          | -               | 372.00          | 1.00        | -           | 7,176.58         | 20.82        | -               | -               | 7,176.58         |
| Distribution and Load Control Center (P2B)                 | -               | -                | -               | -                 | -               | -               | -           | -           | -                | -            | -               | 6,836.87        | 6,836.87         |
| Java & Bali  | -               | -                | -               | -                 | -               | -               | -           | -           | -                | -            | -               | -               | -                |
| Generation of Tanjung Jati B                               | -               | 2,840.00         | -               | -                 | -               | -               | -           | -           | 2,840.00         | 8.24         | -               | -               | 2,840.00         |
| Generation of Western Part of Java                         | -               | 1,990.00         | -               | 2,060.00          | -               | -               | -           | -           | 4,050.00         | 11.75        | -               | -               | 4,050.00         |
| Generation of Central Part of Java                         | -               | 3,014.00         | -               | 214.00            | -               | -               | -           | -           | 3,228.00         | 9.36         | -               | -               | 3,228.00         |
| Generation of Eastern Part of Java & Bali                  | -               | 1,821.00         | -               | -                 | -               | -               | -           | -           | 1,821.00         | 5.28         | -               | -               | 1,821.00         |
| <b>Java</b>  | <b>2,332.50</b> | <b>15,160.60</b> | <b>1,828.04</b> | <b>7,158.23</b>   | <b>326.60</b>   | <b>576.65</b>   | <b>1.00</b> | <b>-</b>    | <b>27,383.62</b> | <b>79.44</b> | <b>73.83</b>    | <b>6,915.61</b> | <b>34,373.06</b> |
| Power Plant Development Unit (UIP) of Sumatera Power Plant | -               | 110.00           | -               | -                 | -               | -               | -           | -           | 110.00           | 0.32         | -               | -               | 110.00           |
| Power Plant Development Unit (UIP) of Central Kalimantan   | -               | 66.00            | -               | -                 | -               | 0.16            | -           | -           | 66.16            | 0.19         | -               | -               | 66.16            |
| Power Plant Development Unit (UIP) of East Kalimantan      | -               | 220              | -               | -                 | -               | -               | -           | -           | 220.00           | 0.64         | -               | -               | 220.00           |
| Generation Projects  | -               | 396.00           | -               | -                 | -               | 0.16            | -           | -           | 396.16           | 1.15         | -               | -               | 396.16           |
| Indonesia %  | 3,410.62        | 17,811.40        | 2,669.80        | 7,754.23          | 523.28          | 2,292.49        | 9.28        | 0.30        | 34,471.39        | 100.00       | 3,283.65        | 10,591.58       | 48,346.62        |
| 9.89   | 51.67           | 7.74             | 22.49           | 1.52              | 6.65            | 0.03            | -           | 100.00      | -                | -            | -               | -               | -                |

\*) Total diesel Including Diesel Gas

# Annual Data 2016

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

| PLN Operational Unit/<br>Province                          | Own Generated   |                  |                 |                   |                 |                 |                 |             |
|--|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-------------|
|  | Hydro           | Steam            | Gas Turbine     | Combined<br>Cycle | Geothermal      | Diesel          | Diesel Gas      | Solar       |
| Region of Aceh   | 6.78            | -                | -               | -                 | -               | 142.79          | -               | -           |
| Region of North Sumatera                                   | -               | -                | -               | -                 | -               | 8.03            | -               | -           |
| Region of West Sumatera                                    | 0.88            | -                | -               | -                 | -               | 32.62           | -               | -           |
| Region of Riau   | -               | 19.59            | -               | -                 | -               | 172.44          | -               | 0.09        |
| - Riau   | -               | -                | -               | -                 | -               | 47.90           | -               | -           |
| - Riau Archipelago   | -               | 19.59            | -               | -                 | -               | 124.54          | -               | 0.09        |
| Region of South Sumatera, Jambi & Bengkulu                 | 0.01            | -                | -               | -                 | -               | 21.43           | -               | -           |
| - South Sumatera   | -               | -                | -               | -                 | -               | 0.01            | -               | -           |
| - Jambi  | -               | -                | -               | -                 | -               | 0.79            | -               | -           |
| - Bengkulu   | 0.01            | -                | -               | -                 | -               | 20.64           | -               | -           |
| Region of Bangka Belitung                                  | -               | 330.83           | -               | -                 | -               | 108.66          | -               | 0.10        |
| Distribution of Lampung                                    | -               | -                | -               | -                 | -               | 0.13            | -               | -           |
| Region of West Kalimantan                                  | 4.58            | 67.58            | 16.36           | -                 | -               | 304.56          | -               | 0.04        |
| Region of S & C Kalimantan                                 | 148.31          | 1,766.56         | 28.75           | -                 | -               | 226.79          | -               | -           |
| - South Kalimantan   | 148.31          | 1,766.56         | 28.75           | -                 | -               | 125.42          | -               | -           |
| - Central Kalimantan                                       | -               | -                | -               | -                 | -               | 101.37          | -               | -           |
| Region of East Kalimantan & North                          | -               | -                | 223.92          | 0.34              | -               | 240.01          | 75.60           | 0.09        |
| Region of N, C Sulawesi & Gorontalo                        | 228.42          | 188.83           | 86.06           | -                 | 363.22          | 261.06          | -               | 0.49        |
| - North Sulawesi   | 198.40          | 188.83           | 86.06           | -                 | 363.22          | 83.00           | -               | 0.46        |
| - Gorontalo  | 2.94            | 0.01             | -               | -                 | -               | 26.56           | -               | 0.03        |
| - Central Sulawesi   | 27.08           | -                | -               | -                 | -               | 151.50          | -               | -           |
| Region of S, SE & W Sulawesi                               | 1,118.01        | 650.56           | 12.78           | -                 | -               | 227.43          | -               | 0.89        |
| - South Sulawesi   | 1,106.30        | 506.66           | 12.78           | -                 | -               | 53.41           | -               | 0.67        |
| - Southeast Sulawesi                                       | 11.71           | 143.90           | -               | -                 | -               | 172.24          | -               | 0.22        |
| - West Sulawesi  | -               | -                | -               | -                 | -               | 1.78            | -               | -           |
| Region of Maluku & North Maluku                            | -               | 25.95            | -               | -                 | -               | 298.97          | -               | 0.75        |
| - Maluku   | -               | 25.95            | -               | -                 | -               | 232.83          | -               | 0.32        |
| - North Maluku   | -               | -                | -               | -                 | -               | 66.14           | -               | 0.43        |
| Region of Papua  | 106.86          | -                | -               | -                 | -               | 246.74          | -               | 0.22        |
| - Papua  | 95.44           | -                | -               | -                 | -               | 159.78          | -               | 0.04        |
| - West Papua   | 11.42           | -                | -               | -                 | -               | 86.96           | -               | 0.19        |
| Distribution of Bali                                       | -               | -                | -               | -                 | -               | 0.80            | -               | -           |
| Region of West Nusa Tenggara                               | 6.36            | 249.45           | -               | -                 | -               | 314.36          | -               | 0.99        |
| Region of East Nusa Tenggara                               | 16.09           | 86.98            | -               | -                 | 34.84           | 155.02          | -               | 0.90        |
| PT PLN Batam   | -               | -                | 157.73          | -                 | -               | 134.81          | -               | -           |
| PT PLN Tarakan   | -               | -                | 42.31           | -                 | -               | -               | 3.62            | -           |
| Generation of Northern Part of Sumatera                    | 971.20          | 3,948.20         | 441.75          | 3,783.10          | -               | 88.38           | 1,435.68        | -           |
| Generation of Southern Part of Sumatera                    | 2,462.91        | 4,201.72         | 930.56          | 742.78            | 782.89          | 51.53           | 212.10          | -           |
| Sumatera Trans. and Control Center                         | -               | -                | -               | -                 | -               | -               | -               | -           |
| <b>Outside Java</b>  | <b>5,070.41</b> | <b>11,536.25</b> | <b>1,940.22</b> | <b>4,526.22</b>   | <b>1,180.95</b> | <b>3,036.56</b> | <b>1,727.00</b> | <b>4.56</b> |
| Dist. of East Java   | 0.24            | -                | -               | -                 | -               | 6.11            | -               | -           |
| Dist. of Central Java & Yogyakarta                         | -               | -                | -               | -                 | -               | -               | -               | -           |
| - Central Java   | -               | -                | -               | -                 | -               | -               | -               | -           |
| - D.I. Yogyakarta  | -               | -                | -               | -                 | -               | -               | -               | -           |
| Dist. of West Java   | -               | -                | -               | -                 | -               | -               | -               | -           |
| Dist. of Banten  | -               | -                | -               | -                 | -               | 0.45            | -               | -           |
| Dist. of Jakarta Raya & Tangerang                          | -               | -                | -               | -                 | -               | -               | -               | -           |
| PT Indonesia Power   | 5,322.42        | 22,786.10        | 244.41          | 11,129.80         | 2,777.15        | 2.48            | 885.37          | -           |
| PT Java Bali Genco   | 3,492.52        | 9,839.97         | 1,687.13        | 11,770.77         | -               | 16.74           | -               | 1.29        |
| P2B of Western Part of Java                                | -               | -                | -               | -                 | -               | -               | -               | -           |
| P2B of Central Part of Java                                | -               | -                | -               | -                 | -               | -               | -               | -           |
| P2B of Eastern Part of Java & Bali                         | -               | -                | -               | -                 | -               | -               | -               | -           |
| Generation of Tanjung Jati B                               | -               | 18,113.77        | -               | -                 | -               | -               | -               | -           |
| Generation of Western Part of Java                         | -               | 12,522.84        | -               | 12,826.53         | -               | -               | -               | -           |
| Generation of Central Part of Java                         | -               | 13,487.49        | -               | 1,654.79          | -               | -               | -               | -           |
| Generation of Eastern Part of Java & Bali                  | -               | 8,866.91         | -               | -                 | -               | -               | -               | -           |
| <b>Java</b>  | <b>8,815.18</b> | <b>85,617.08</b> | <b>1,931.54</b> | <b>37,381.89</b>  | <b>2,777.15</b> | <b>25.78</b>    | <b>885.37</b>   | <b>1.29</b> |
| Power Plant Development Unit (UIP) XI                      | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of Sumatera Power Plant | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of West Kalimantan      | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of Central Kalimantan   | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of East Kalimantan      | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of Central Java         | -               | -                | -               | -                 | -               | -               | -               | -           |
| Power Plant Development Unit (UIP) of East Java and Bali   | -               | -                | -               | -                 | -               | -               | -               | -           |
| <b>Generation Projects</b>                                 | <b>-</b>        | <b>-</b>         | <b>-</b>        | <b>-</b>          | <b>-</b>        | <b>-</b>        | <b>-</b>        | <b>-</b>    |
| Indonesia %  | 13,885.59       | 97,153.33        | 3,871.76        | 41,908.11         | 3,958.10        | 3,062.34        | 2,612.37        | 5.85        |
|  | 5.59            | 39.08            | 1.56            | 16.86             | 1.59            | 1.23            | 1.05            | -           |

|           |             |                   | Rented   |       |       | Sub Total  | Purchased<br>and Project | Total      | (%)       |
|-----------|-------------|-------------------|----------|-------|-------|------------|--------------------------|------------|-----------|
| Diesel    | Gas Turbine | Combined<br>Cycle | Steam    | Hydro | Solar |            |                          |            |           |
| 319,61    | -           | -                 | -        | -     | -     | 469,18     | 130,15                   | 599,33     | 0,39      |
| 112,77    | -           | -                 | -        | -     | -     | 120,80     | 617,97                   | 738,77     | 0,48      |
| 77,16     | -           | -                 | -        | -     | -     | 110,66     | 66,84                    | 177,50     | 0,12      |
| 1,053,91  | -           | -                 | 115,43   | -     | -     | 1,361,46   | 393,22                   | 1,754,68   | 1,14      |
| 749,70    | -           | -                 | -        | -     | -     | 797,60     | 186,15                   | 983,75     | 0,64      |
| 304,21    | -           | -                 | 115,43   | -     | -     | 563,86     | 207,07                   | 770,93     | 0,5       |
| 98,07     | -           | -                 | -        | -     | -     | 119,51     | 905,62                   | 1,025,13   | 0,66      |
| -         | -           | -                 | -        | -     | -     | 0,01       | 633,35                   | 633,36     | 0,41      |
| 39,04     | -           | -                 | -        | -     | -     | 39,83      | 183,32                   | 223,15     | 0,14      |
| 59,03     | -           | -                 | -        | -     | -     | 79,68      | 88,95                    | 168,63     | 0,11      |
| 560,53    | -           | -                 | -        | -     | -     | 1,000,12   | 38,00                    | 1,038,12   | 0,67      |
| -         | -           | -                 | -        | -     | -     | 0,13       | 139,54                   | 139,67     | 0,09      |
| 1,412,46  | -           | -                 | -        | -     | -     | 1,805,58   | 746,73                   | 2,552,31   | 1,65      |
| 1,017,36  | -           | -                 | -        | -     | -     | 3,187,77   | 744,92                   | 3,932,69   | 2,55      |
| 616,21    | -           | -                 | -        | -     | -     | 2,685,25   | 620,35                   | 3,305,60   | 2,14      |
| 401,16    | -           | -                 | -        | -     | -     | 502,53     | 124,56                   | 627,09     | 0,41      |
| 750,33    | 9,84        | -                 | -        | -     | -     | 1,300,13   | 2,003,55                 | 3,303,68   | 2,14      |
| 720,97    | -           | -                 | 15,85    | -     | -     | 1,864,90   | 1,548,90                 | 3,413,80   | 2,21      |
| 224,31    | -           | -                 | -        | -     | -     | 1,144,28   | 743,55                   | 1,887,83   | 1,22      |
| 166,09    | -           | -                 | -        | -     | -     | 195,63     | 129,70                   | 325,33     | 0,21      |
| 330,56    | -           | -                 | 15,85    | -     | -     | 524,99     | 675,65                   | 1,200,64   | 0,78      |
| 726,67    | -           | 468,58            | -        | -     | -     | 3,204,92   | 3,928,07                 | 7,132,99   | 4,63      |
| 138,52    | -           | 468,58            | -        | -     | -     | 2,286,92   | 3,854,65                 | 6,141,57   | 3,98      |
| 567,75    | -           | -                 | -        | -     | -     | 895,82     | 73,42                    | 969,24     | 0,63      |
| 20,40     | -           | -                 | -        | -     | -     | 22,18      | -                        | 22,18      | 0,01      |
| 717,75    | -           | -                 | -        | -     | -     | 1,043,42   | -                        | 1,043,42   | 0,68      |
| 607,04    | -           | -                 | -        | -     | -     | 866,14     | -                        | 866,14     | 0,56      |
| 110,71    | -           | -                 | -        | -     | -     | 177,28     | -                        | 177,28     | 0,11      |
| 893,85    | -           | -                 | -        | -     | -     | 1,247,67   | 259,10                   | 1,506,77   | 0,98      |
| 695,52    | -           | -                 | -        | -     | -     | 950,78     | -                        | 950,78     | 0,62      |
| 198,32    | -           | -                 | -        | -     | -     | 296,89     | 259,10                   | 555,99     | 0,36      |
| -         | -           | -                 | -        | -     | -     | 0,80       | 1,74                     | 2,54       | -         |
| 1,158,94  | 9,45        | -                 | -        | -     | -     | 1,739,55   | 57,73                    | 1,797,28   | 1,17      |
| 607,35    | -           | -                 | 1,44     | 0,19  | 2,98  | 902,81     | 7,60                     | 910,41     | 0,59      |
| -         | 426,49      | -                 | 975,64   | -     | -     | 1,694,67   | 787,63                   | 2,482,30   | 1,61      |
| 8,38      | 148,13      | -                 | -        | -     | -     | 202,44     | 36,96                    | 239,40     | 0,16      |
| 2,407,73  | 297,24      | -                 | -        | -     | -     | 13,373,28  | -                        | 13,373,28  | 8,67      |
| 719,36    | 1,433,29    | -                 | -        | -     | -     | 11,537,14  | -                        | 11,537,14  | 7,48      |
| -         | -           | -                 | -        | -     | -     | -          | 7,049,13                 | 7,049,13   | 4,57      |
| 13,363,20 | 2,324,44    | 468,58            | 1,108,36 | 0,19  | 2,98  | 46,289,92  | 19,463,40                | 65,753,32  | 42,63     |
| 37,52     | -           | -                 | -        | -     | -     | 43,87      | 74,38                    | 118,25     | 0,08      |
| -         | -           | -                 | -        | -     | -     | -          | 34,34                    | 34,34      | 0,02      |
| -         | -           | -                 | -        | -     | -     | -          | 34,34                    | 34,34      | 0,02      |
| -         | -           | -                 | -        | -     | -     | -          | -                        | -          | -         |
| -         | -           | -                 | -        | -     | -     | -          | 200,71                   | 200,71     | 0,13      |
| -         | -           | -                 | -        | -     | -     | 0,45       | 23,54                    | 23,99      | 0,02      |
| -         | -           | -                 | -        | -     | -     | -          | -                        | -          | -         |
| 46,25     | -           | -                 | -        | -     | -     | 43,193,98  | -                        | 43,193,98  | 28,01     |
| -         | -           | -                 | -        | -     | -     | 26,808,42  | -                        | 26,808,42  | 17,38     |
| -         | -           | -                 | -        | -     | -     | -          | 140,53                   | 140,53     | -         |
| -         | -           | -                 | -        | -     | -     | -          | 19,928,76                | 19,928,76  | -         |
| -         | -           | -                 | -        | -     | -     | -          | 23,613,42                | 23,613,42  | -         |
| -         | -           | -                 | -        | -     | -     | -          | 18,113,77                | -          | 18,113,77 |
| -         | -           | -                 | -        | -     | -     | -          | 25,349,37                | -          | 25,349,37 |
| -         | -           | -                 | -        | -     | -     | -          | 15,142,28                | -          | 15,142,28 |
| -         | -           | -                 | -        | -     | -     | -          | 8,866,91                 | -          | 8,866,91  |
| 83,77     | -           | -                 | -        | -     | -     | 137,519,05 | 44,015,68                | 181,534,73 | 57,37     |
| -         | -           | -                 | -        | -     | -     | -          | 35,18                    | 35,18      | -         |
| -         | -           | -                 | -        | -     | -     | -          | 86,18                    | 86,18      | -         |
| -         | -           | -                 | -        | -     | -     | -          | 18,20                    | 18,20      | -         |
| -         | -           | -                 | -        | -     | -     | -          | 306,66                   | 306,66     | -         |
| -         | -           | -                 | -        | -     | -     | -          | 207,65                   | 207,65     | -         |
| -         | -           | -                 | -        | -     | -     | -          | 567,55                   | 567,55     | -         |
| -         | -           | -                 | -        | -     | -     | -          | 101,05                   | 101,05     | -         |
| 13,446,97 | 2,324,44    | 468,58            | 1,108,36 | 0,19  | 2,98  | 183,808,97 | 64,801,55                | 248,610,52 | 100       |
| 5,41      | 0,93        | 0,19              | 0,45     | -     | -     | 73,93      | 26,07                    | 100,00     | -         |

# Annual Data 2016

**Table 24 : Consumption of Fuel**

**2016**

| PLN Operational Unit/<br>Province                        | Oil (kilo litre)    |               |                   |                   | Coal<br>(ton)       | Natural Gas<br>(MMSCF) |
|--|---------------------|---------------|-------------------|-------------------|---------------------|------------------------|
|  | HSD                 | IDO           | MFO               | Other *)          |                     |                        |
| Region of Aceh   | 94,880.52           | -             | -                 | 32,005.97         | 126,886.49          | -                      |
| Region of North Sumatera                                 | 26,609.41           | -             | -                 | 6,911.81          | 33,521.22           | -                      |
| Region of West Sumatera                                  | 33,081.81           | -             | -                 | -                 | 33,081.81           | -                      |
| Region of Riau   | 240,564.78          | -             | -                 | 67,612.23         | 308,177.01          | 154,079.23             |
| - Riau   | 147,655.08          | -             | -                 | 41,555.05         | 189,210.13          | 1,302.46               |
| - Riau Archipelago                                       | 92,909.71           | -             | -                 | 26,057.17         | 118,966.88          | 154,079.23             |
| Region of South Sumatera, Jambi & Bengkulu               | 21,355.01           | -             | -                 | 1,988.09          | 23,343.10           | -                      |
| - South Sumatera   | 1.55                | -             | -                 | -                 | 1.55                | -                      |
| - Jambi  | 221.63              | -             | -                 | 15.00             | 236.63              | -                      |
| - Bengkulu   | 21,131.83           | -             | -                 | 1,973.09          | 23,104.92           | -                      |
| Region of Bangka Belitung                                | 150,247.21          | -             | -                 | 28,465.71         | 178,712.92          | 316,022.43             |
| Distribution of Lampung                                  | 51.62               | -             | -                 | 12.91             | 64.53               | -                      |
| Region of West Kalimantan                                | 247,939.37          | -             | 200,202.87        | 6,685.96          | 454,828.20          | 78,238.56              |
| Region of S & C Kalimantan                               | 307,972.31          | -             | 850.96            | 49,017.94         | 357,841.21          | 1,397,278.20           |
| - South Kalimantan                                       | 205,529.29          | -             | 850.96            | 8,971.94          | 215,352.19          | 1,397,278.20           |
| - Central Kalimantan                                     | 102,443.03          | -             | -                 | 40,046.00         | 142,489.03          | -                      |
| Region of East Kalimantan & North                        | 260,667.37          | -             | 54,300.32         | -                 | 314,967.69          | -                      |
| Region of N, C Sulawesi & Gorontalo                      | 245,329.64          | -             | 12,497.36         | 48,484.85         | 306,311.85          | 182,016.65             |
| - North Sulawesi   | 92,155.86           | -             | 4,912.78          | 17,600.19         | 114,668.83          | 182,016.65             |
| - Gorontalo  | 41,419.59           | -             | -                 | 10,354.90         | 51,774.49           | -                      |
| - Central Sulawesi                                       | 111,754.20          | -             | 7,584.58          | 20,529.77         | 139,868.55          | -                      |
| Region of S, SE & W Sulawesi                             | 190,830.40          | 2.07          | 38,671.33         | 34,933.19         | 264,436.99          | 578,352.52             |
| - South Sulawesi   | 23,343.28           | -             | 27,284.69         | 4,642.35          | 55,270.32           | 404,022.00             |
| - Southeast Sulawesi                                     | 162,806.00          | 2.07          | 11,386.63         | 28,730.47         | 202,925.17          | 174,330.52             |
| - West Sulawesi  | 4,681.12            | -             | -                 | 1,560.37          | 6,241.49            | -                      |
| Region of Maluku & North Maluku                          | 244,255.63          | -             | 20,449.82         | 12,816.66         | 277,522.11          | 41,284.70              |
| - Maluku   | 197,832.32          | -             | 20,449.82         | 8,544.63          | 226,826.77          | 41,284.70              |
| - North Maluku   | 46,423.31           | -             | -                 | 4,272.04          | 50,695.35           | -                      |
| Region of Papua  | 278,022.26          | -             | -                 | 30,438.90         | 308,461.16          | -                      |
| - Papua  | 199,441.69          | -             | -                 | 22,050.32         | 221,492.01          | -                      |
| - West Papua   | 78,580.57           | -             | -                 | 8,388.59          | 86,969.16           | -                      |
| Distribution of Bali                                     | 6,204.34            | -             | -                 | 1,939.74          | 8,144.08            | -                      |
| Region of West Nusa Tenggara                             | 252,916.47          | -             | 115,177.60        | 23,448.30         | 391,542.37          | 209,977.78             |
| Region of East Nusa Tenggara                             | 184,596.69          | -             | 1,014.18          | 28,133.71         | 213,744.58          | 83,087.96              |
| PT PLN Batam   | 9,595.01            | -             | 25,291.72         | -                 | 34,886.73           | 578,593.81             |
| PT PLN Tarakan   | 5,744.17            | -             | -                 | -                 | 5,744.17            | 1,998.65               |
| Generation of Northern Part of Sumatera                  | 290,740.29          | -             | 451,758.93        | 6,244.70          | 748,743.92          | 2,259,002.10           |
| Generation of Southern Part of Sumatera                  | 86,630.40           | 913.00        | -                 | 3,564.18          | 91,107.58           | 2,634,353.20           |
| Sumatera Trans. and Control Center                       | -                   | -             | -                 | -                 | -                   | 41,632.86              |
| <b>Outside Java</b>                                      | <b>3,178,234.71</b> | <b>915.07</b> | <b>920,215.09</b> | <b>382,704.85</b> | <b>4,482,069.72</b> | <b>8,512,287.14</b>    |
| Dist. of East Java                                       | 12,599.19           | -             | -                 | -                 | 12,599.19           | -                      |
| Dist. of Central Java & Yogyakarta                       | -                   | -             | -                 | -                 | -                   | -                      |
| - Central Java   | -                   | -             | -                 | -                 | -                   | -                      |
| - D.I. Yogyakarta  | -                   | -             | -                 | -                 | -                   | -                      |
| Dist. of West Java                                       | -                   | -             | -                 | -                 | -                   | -                      |
| Dist. of Banten  | 189.90              | -             | -                 | -                 | 189.90              | -                      |
| Dist. of Jakarta Raya & Tangerang                        | -                   | -             | -                 | -                 | -                   | -                      |
| PT Indonesia Power                                       | 47,247.19           | -             | 12,013.43         | -                 | 59,260.62           | 11,589,039.04          |
| PT Java Bali Genco                                       | 44,256.34           | -             | 14,798.70         | -                 | 59,055.04           | 2,420,033.54           |
| Distribution and Load Control Center (P2B)               | -                   | -             | -                 | -                 | -                   | 169,518.92             |
| Generation of Tanjung Jati B                             | 3,566.54            | -             | -                 | -                 | 3,566.54            | 7,242,834.10           |
| Generation of Unit of Java Bali                          | -                   | -             | -                 | -                 | -                   | -                      |
| Generation of Western Part of Java                       | 5,048.13            | -             | -                 | 363.57            | 5,411.70            | 7,250,673.46           |
| Generation of Central Part of Java                       | 8,297.18            | -             | -                 | 2,329.17          | 10,626.35           | 7,618,615.49           |
| Generation of Eastern Part of Java & Bali                | 4,256.88            | -             | -                 | -                 | 4,256.88            | 11,366.09              |
| <b>Java</b>  | <b>125,461.35</b>   | <b>-</b>      | <b>26,812.13</b>  | <b>2,692.74</b>   | <b>154,966.22</b>   | <b>41,398,971.45</b>   |
| Power Plant Development Unit (UIP) XI                    | -                   | -             | -                 | -                 | -                   | 30,701.20              |
| Power Plant Development Unit (UIP) of Sumatera           | -                   | -             | -                 | -                 | -                   | 73,067.00              |
| Power Plant  | -                   | -             | -                 | -                 | -                   | -                      |
| Power Plant Development Unit (UIP) of West Kalimantan    | 72.42               | -             | -                 | -                 | 72.42               | 31,864.52              |
| Power Plant Development Unit (UIP) of Central Kalimantan | 20,770.36           | -             | -                 | -                 | 20,770.36           | 313.25                 |
| Power Plant Development Unit (UIP) of East Kalimantan    | 595.64              | -             | -                 | -                 | 595.64              | 539.86                 |
| Power Plant Development Unit (UIP) of East Java Bali 1   | 5,990.33            | -             | -                 | 2,567.28          | 8,557.61            | 205,173.59             |
| Generation Projects                                      | 27,428.75           | -             | -                 | 2,567.28          | 29,996.03           | 304,068.01             |
| <b>Indonesia</b>   | <b>3,331,124.81</b> | <b>915.07</b> | <b>947,027.22</b> | <b>387,964.87</b> | <b>4,667,031.97</b> | <b>50,556,446.16</b>   |
| <i>*) Olein, biodiesel, and etc</i>                      |                     |               |                   |                   |                     | <b>505,124.53</b>      |

*\*) Olein, biodiesel, and etc*

**Table 25 : Unit Price of Fuel****2016**

| PLN Operational Unit/Province              | Oil (Rp/litre) * |                 |                 |                 | Coal<br>(Rp/kg) | Natural Gas<br>(Rp/MMSCF) | Geothermal<br>(Rp/kWh) |
|--|------------------|-----------------|-----------------|-----------------|-----------------|---------------------------|------------------------|
|  | HSD **)          | IDO             | MFO             | Average         |                 |                           |                        |
| Region of Aceh                             | 5,204.91         | -               | -               | 5,204.91        | -               | -                         | -                      |
| Region of North Sumatera                   | 5,690.77         | -               | -               | 5,690.77        | -               | -                         | -                      |
| Region of West Sumatera                    | 5,154.99         | -               | -               | 5,154.99        | -               | -                         | -                      |
| Region of Riau                             | 5,148.26         | -               | -               | 5,148.26        | 592.77          | 85,247.86                 | -                      |
| - Riau                                     | -                | -               | -               | -               | -               | -                         | -                      |
| - Riau Archipelago                         | -                | -               | -               | -               | -               | -                         | -                      |
| Region of South Sumatera, Jambi & Bengkulu | 5,398.79         | -               | -               | 5,398.79        | -               | 110,198.90                | -                      |
| - South Sumatera                           | -                | -               | -               | -               | -               | -                         | -                      |
| - Jambi                                    | -                | -               | -               | -               | -               | -                         | -                      |
| - Bengkulu                                 | -                | -               | -               | -               | -               | -                         | -                      |
| Region of Bangka Belitung                  | 5,600.17         | -               | -               | 5,600.17        | 568.92          | -                         | -                      |
| Distribution of Lampung                    | 5,647.63         | -               | -               | 5,647.63        | -               | -                         | -                      |
| Region of West Kalimantan                  | 5,366.72         | -               | 3,401.54        | 4,422.81        | 655.47          | -                         | -                      |
| Region of S & C Kalimantan                 | 5,962.44         | -               | 8,156.80        | 5,151.01        | 396.46          | -                         | -                      |
| - South Kalimantan                         | -                | -               | -               | -               | -               | -                         | -                      |
| - Central Kalimantan                       | -                | -               | -               | -               | -               | -                         | -                      |
| Region of East Kalimantan & North          | 5,575.68         | -               | 7,370.94        | 5,885.70        | -               | 66,098.04                 | -                      |
| Region of N, C Sulawesi & Gorontalo        | 8,806.54         | -               | 3,831.87        | 7,213.11        | 624.93          | -                         | 787.05                 |
| - North Sulawesi                           | -                | -               | -               | -               | -               | -                         | -                      |
| - Gorontalo                                | -                | -               | -               | -               | -               | -                         | -                      |
| - Central Sulawesi                         | -                | -               | -               | -               | -               | -                         | -                      |
| Region of S, SE & W Sulawesi               | 6,112.90         | -               | 3,720.90        | 4,959.56        | 541.32          | -                         | -                      |
| - South Sulawesi                           | -                | -               | -               | -               | -               | -                         | -                      |
| - Southeast Sulawesi                       | -                | -               | -               | -               | -               | -                         | -                      |
| - West Sulawesi                            | -                | -               | -               | -               | -               | -                         | -                      |
| Region of Maluku & North Maluku            | 5,359.99         | -               | 3,613.15        | 4,983.88        | -               | -                         | -                      |
| - Maluku                                   | -                | -               | -               | -               | -               | -                         | -                      |
| - North Maluku                             | -                | -               | -               | -               | -               | -                         | -                      |
| Region of Papua                            | 5,367.61         | -               | -               | 5,367.61        | -               | -                         | -                      |
| - Papua                                    | -                | -               | -               | -               | -               | -                         | -                      |
| - West Papua                               | -                | -               | -               | -               | -               | -                         | -                      |
| Distribution of Bali                       | 6,111.31         | -               | -               | 6,111.31        | -               | -                         | -                      |
| Region of West Nusa Tenggara               | 5,649.70         | -               | 3,807.48        | 4,769.44        | 594.04          | -                         | -                      |
| Region of East Nusa Tenggara               | 6,081.74         | -               | 5,157.50        | 5,277.33        | 701.03          | -                         | -                      |
| PT PLN Batam                               | 4,694.86         | -               | 3,152.77        | 3,576.90        | 765.02          | 75,979.43                 | -                      |
| PT PLN Tarakan                             | 5,257.82         | -               | -               | 5,257.82        | -               | 78,372.86                 | -                      |
| Generation of Northern Part of Sumatera    | 5,404.43         | -               | 3,551.17        | 4,255.30        | 689.14          | 115,252.59                | -                      |
| Generation of Southern Part of Sumatera    | 4,982.62         | 4,726.47        | -               | 5,062.90        | 598.05          | 110,575.82                | 629.43                 |
| <b>Outside Java</b>                        | <b>5,714.80</b>  | <b>4,715.78</b> | <b>3,783.50</b> | <b>5,098.44</b> | <b>594.90</b>   | <b>105,881.28</b>         | <b>679.38</b>          |
| Dist. of East Java                         | 5,723.76         | -               | -               | 5,723.76        | -               | -                         | -                      |
| Dist. of Central Java & Yogyakarta         | -                | -               | -               | -               | -               | -                         | -                      |
| - Central Java                             | -                | -               | -               | -               | -               | -                         | -                      |
| - D.I. Yogyakarta                          | -                | -               | -               | -               | -               | -                         | -                      |
| Dist. of West Java                         | -                | -               | -               | -               | -               | -                         | -                      |
| Dist. of Banten                            | 5,049.61         | -               | -               | 5,049.61        | -               | -                         | -                      |
| Dist. of Jakarta Raya & Tangerang          | -                | -               | -               | -               | -               | -                         | -                      |
| PT Indonesia Power                         | 6,692.39         | -               | 3,075.84        | 6,358.47        | 690.13          | 103,364.70                | 740.17                 |
| PT Java Bali Genco                         | 7,662.03         | -               | 4,329.03        | 7,216.50        | 671.59          | 96,618.42                 | -                      |
| Generation of Tanjung Jati B               | 6,068.97         | -               | -               | 6,068.97        | 760.12          | -                         | -                      |
| Generation of Western Part of Java         | 7,961.18         | -               | -               | 7,961.18        | 594.23          | 101,116.41                | -                      |
| Generation of Central Part of Java         | -                | -               | -               | -               | -               | -                         | -                      |
| Generation of Eastern Part of Java & Bali  | -                | -               | -               | -               | -               | -                         | -                      |
| <b>J a v a</b>                             | <b>7,248.54</b>  | <b>-</b>        | <b>3,767.52</b> | <b>7,090.46</b> | <b>654.62</b>   | <b>99,783.28</b>          | <b>740.17</b>          |
| <b>I n d o n e s i a **)</b>               | <b>5,725.51</b>  | <b>4,715.78</b> | <b>3,783.04</b> | <b>4,855.19</b> | <b>611.23</b>   | <b>101,123.24</b>         | <b>722.41</b>          |

\*) BBM unit price (HSD, IDO, MFO) including transportation costs

\*\*) HSD price including biodiesel

# Annual Data 2016

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

**2016**

| PLN Operational Unit/Province               | Oil (Kilo litre) |             |                 |                     |                  | Coal<br>(ton)    | Natural<br>Gas<br>(MMSCF) | Total             |
|---|------------------|-------------|-----------------|---------------------|------------------|------------------|---------------------------|-------------------|
|   | HSD              | IDO         | MFO             | Other Fuel<br>Mix * | Total            |                  |                           |                   |
| Region of Aceh                              | 352.72           | -           | -               | 109.68              | 462.4            | -                | -                         | 462.40            |
| Region of North Sumatera                    | 95.99            | -           | -               | 24.81               | 120.8            | -                | -                         | 120.80            |
| Region of West Sumatera                     | 109.78           | -           | -               | -                   | 109.78           | -                | -                         | 109.78            |
| Region of Riau                              | 877.05           | -           | -               | 218.95              | 1096             | 135.02           | 130.35                    | 1,361.37          |
| - Riau                                      | 535.18           | -           | -               | 132.07              | 667.25           | -                | 130.35                    | 797.60            |
| - Riau Archipelago                          | 341.87           | -           | -               | 86.88               | 428.75           | 135.02           | -                         | 563.77            |
| Region of South Sumatera, Jambi, & Bengkulu | 75.28            | -           | -               | 5.19                | 80.47            | -                | 39.04                     | 119.5             |
| - South Sumatera                            | 0.01             | -           | -               | -                   | 0.01             | -                | -                         | 0.01              |
| - Jambi                                     | 0.71             | -           | -               | 0.07                | 0.78             | -                | 39.04                     | 39.82             |
| - Bengkulu                                  | 74.56            | -           | -               | 5.11                | 79.67            | -                | -                         | 79.67             |
| Region of Bangka Belitung                   | 578.48           | -           | -               | 90.71               | 669.19           | 330.83           | -                         | 1,000.02          |
| Distribution of Lampung                     | 0.11             | -           | -               | 0.02                | 0.13             | -                | -                         | 0.13              |
| Region of West Kalimantan                   | 891.40           | -           | 819.26          | 22.72               | 1733.38          | 67.58            | -                         | 1,800.96          |
| Region of S & C Kalimantan                  | 1,107.07         | -           | 3.29            | 162.54              | 1272.9           | 1,766.56         | -                         | 3,039.46          |
| - South Kalimantan                          | 737.31           | -           | 3.29            | 29.78               | 770.38           | 1,766.56         | -                         | 2,536.94          |
| - Central Kalimantan                        | 369.76           | -           | -               | 132.76              | 502.52           | -                | -                         | 502.52            |
| Region of East Kalimantan & North           | 830.38           | -           | 218.44          | -                   | 1048.82          | -                | 251.22                    | 1,300.04          |
| Region of N, C Sulawesi & Gorontalo         | 875.66           | -           | 46.01           | 162.27              | 1083.94          | 188.83           | -                         | 1,272.77          |
| - North Sulawesi                            | 318.00           | -           | 17.32           | 58.06               | 393.38           | 188.83           | -                         | 582.21            |
| - Gorontalo                                 | 156.49           | -           | -               | 36.16               | 192.65           | -                | -                         | 192.65            |
| - Central Sulawesi                          | 401.17           | -           | 28.69           | 68.05               | 497.91           | -                | -                         | 497.91            |
| Region of S, SE & W Sulawesi                | 693.71           | -           | 154.18          | 118.99              | 966.88           | 650.56           | 468.58                    | 2,086.02          |
| - South Sulawesi                            | 78.03            | -           | 110.86          | 15.82               | 204.71           | 506.66           | 468.58                    | 1,179.95          |
| - Southeast Sulawesi                        | 598.73           | -           | 43.32           | 97.94               | 739.99           | 143.9            | -                         | 883.89            |
| - West Sulawesi                             | 16.94            | -           | -               | 5.23                | 22.17            | -                | -                         | 22.17             |
| Region of Maluku & North Maluku             | 908.79           | -           | 70.07           | 37.86               | 1016.72          | 25.95            | -                         | 1,042.67          |
| - Maluku                                    | 745.54           | -           | 70.07           | 24.25               | 839.86           | 25.95            | -                         | 865.81            |
| - North Maluku                              | 163.24           | -           | -               | 13.61               | 176.85           | -                | -                         | 176.85            |
| Region of Papua                             | 1,028.59         | -           | -               | 112.00              | 1140.59          | -                | -                         | 1,140.59          |
| - Papua                                     | 773.86           | -           | -               | 81.45               | 855.31           | -                | -                         | 855.31            |
| - West Papua                                | 254.73           | -           | -               | 30.55               | 285.28           | -                | -                         | 285.28            |
| Distribution of Bali                        | 0.73             | -           | -               | 0.07                | 0.8              | -                | -                         | 0.80              |
| Region of West Nusa Tenggara                | 929.99           | -           | 465.34          | 87.42               | 1482.75          | 249.45           | -                         | 1,732.20          |
| Region of East Nusa Tenggara                | 729.04           | -           | 4.05            | 29.28               | 762.37           | 88.42            | -                         | 850.79            |
| PT PLN Batam                                | 36.56            | -           | 98.24           | -                   | 134.8            | 840.78           | 719.09                    | 1,694.67          |
| PT PLN Tarakan                              | 21.13            | -           | -               | -                   | 21.13            | -                | 181.31                    | 202.44            |
| Generation of Northern Part of Sumatera     | 829.98           | -           | 1,641.96        | 20.96               | 2492.9           | 3,367.93         | 6,541.25                  | 12,402.08         |
| Generation of Southern Part of Sumatera     | 149.38           | 3.94        | -               | -                   | 153.32           | 4,201.72         | 3,936.30                  | 8,291.34          |
| Sumatera Trans. and Control Center          | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| <b>Outside Java</b>                         | <b>11,121.82</b> | <b>3.94</b> | <b>3,520.84</b> | <b>1,203.47</b>     | <b>15,850.07</b> | <b>11,913.62</b> | <b>12,267.14</b>          | <b>40,030.83</b>  |
| Dist. of East Java                          | 43.63            | -           | -               | -                   | 43.63            | -                | -                         | 43.63             |
| Dist. of Central Java & Yogyakarta          | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| - Central Java                              | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| - D.I. Yogyakarta                           | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| Dist. of West Java                          | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| Dist. of Banten                             | 0.45             | -           | -               | -                   | 0.45             | -                | -                         | 0.45              |
| Dist. of Jakarta Raya & Tangerang           | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| PT Indonesia Power                          | 173.51           | -           | 52.57           | 5.54                | 231.62           | 22,786.10        | 12,076.69                 | 35,094.41         |
| PT Java Bali Genco                          | 131.64           | -           | 44.77           | -                   | 176.41           | 4,992.72         | 18,145.49                 | 23,314.62         |
| Distribution and Load Control Center (P2B)  | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| Java Bali                                   | -                | -           | -               | -                   | -                | -                | -                         | -                 |
| Generation of Tanjung Jati B                | -                | -           | -               | -                   | -                | 18,113.77        | -                         | 18,113.77         |
| Generation of Western Part of Java          | -                | -           | -               | -                   | -                | 12,522.84        | 12,826.53                 | 25,349.37         |
| Generation of Central Part of Java          | 8.15             | -           | -               | -                   | 8.15             | 13,479.34        | 1,654.79                  | 15,142.28         |
| Generation of Eastern Part of Java & Bali   | 16.63            | -           | -               | -                   | 16.63            | 8,850.28         | -                         | 8,866.91          |
| <b>Java</b>                                 | <b>374.01</b>    | <b>-</b>    | <b>97.34</b>    | <b>5.54</b>         | <b>476.89</b>    | <b>80,745.03</b> | <b>44,703.50</b>          | <b>125,925.42</b> |
| <b>Indonesia</b>                            | <b>11,495.83</b> | <b>3.94</b> | <b>3,618.18</b> | <b>1,209.01</b>     | <b>16,326.96</b> | <b>92,658.65</b> | <b>56,970.64</b>          | <b>165,956.25</b> |

\*) Olein, biodisel, and etc.

**Table 27 : Captive Power****2016**

| PLN Operational Unit/Province               | Number of Captive Power (CP) |              |              | Installed Capacity (kVA) |                  |                  | kVA PLN<br>Connected with<br>Reserve CP |
|---|------------------------------|--------------|--------------|--------------------------|------------------|------------------|---|
|   | Pure CP                      | Reserve CP   | Total        | Pure CP                  | Reserve CP       | Total            |   |
| Region of Aceh                              | -                            | -            | -            | -                        | -                | 196,707          | 196,707                                 |
| Region of North Sumatera                    | 171                          | -            | 171          | 146,605                  | -                | 146,605          | -                                       |
| Region of West Sumatera                     | 273                          | 348          | 621          | 121,500                  | 223,349          | 344,849          | 344,849                                 |
| Region of Riau                              | -                            | -            | -            | -                        | -                | -                | -                                       |
| - Riau                                      | -                            | -            | -            | -                        | -                | -                | -                                       |
| - Riau Archipelago                          | -                            | -            | -            | -                        | -                | -                | -                                       |
| Region of South Sumatera, Jambi, & Bengkulu | 35                           | 79           | 114          | 30,283                   | 19,835           | 50,118           | 13,151                                  |
| - South Sumatera                            | -                            | -            | -            | -                        | -                | -                | -                                       |
| - Jambi                                     | 3                            | -            | 3            | 7,353                    | -                | 7,353            | 4,343                                   |
| - Bengkulu                                  | 32                           | 79           | 111          | 22,930                   | 19,835           | 42,765           | 8,808                                   |
| Region of Bangka Belitung                   | 252                          | 220          | 472          | 55,230                   | 24,919           | 80,149           | 1,145                                   |
| Distribution of Lampung                     | 6                            | 250          | 256          | 47,000                   | 240,137          | 287,137          | 172,662                                 |
| Region of West Kalimantan                   | 2                            | 77           | 79           | 6,685                    | 37,787           | 44,472           | 26,662                                  |
| Region of S & C Kalimantan                  | 31                           | 190          | 221          | 7,981                    | 136,302          | 144,283          | 170,378                                 |
| - South Kalimantan                          | 31                           | 159          | 190          | 7,981                    | 113,154          | 121,135          | 141,443                                 |
| - Central Kalimantan                        | -                            | 31           | 31           | -                        | 23,148           | 23,148           | 28,935                                  |
| Region of East Kalimantan & North           | -                            | -            | -            | -                        | -                | -                | -                                       |
| Region of N, C Sulawesi & Gorontalo         | 183                          | -            | 183          | 138,754                  | -                | 138,754          | -                                       |
| - North Sulawesi                            | 104                          | -            | 104          | 87,338                   | -                | 87,338           | -                                       |
| - Gorontalo                                 | 23                           | -            | 23           | 40,748                   | -                | 40,748           | -                                       |
| - Central Sulawesi                          | 56                           | -            | 56           | 10,668                   | -                | 10,668           | -                                       |
| Region of S, SE & W Sulawesi                | -                            | -            | -            | -                        | -                | -                | -                                       |
| - South Sulawesi                            | -                            | -            | -            | -                        | -                | -                | -                                       |
| - Southeast Sulawesi                        | -                            | -            | -            | -                        | -                | -                | -                                       |
| - West Sulawesi                             | -                            | -            | -            | -                        | -                | -                | -                                       |
| Region of Maluku & North Maluku             | 72                           | 118          | 190          | 12,665                   | 9,296            | 21,961           | -                                       |
| - Maluku                                    | -                            | -            | -            | -                        | -                | -                | -                                       |
| - North Maluku                              | 72                           | 118          | 190          | 12,665                   | 9,296            | 21,961           | -                                       |
| Region of Papua                             | -                            | 159          | 159          | -                        | 28,642           | 28,642           | 41,354                                  |
| - Papua                                     | -                            | 141          | 141          | -                        | 20,397           | 20,397           | 38,028                                  |
| - West Papua                                | -                            | 18           | 18           | -                        | 8,245            | 8,245            | 3,326                                   |
| Distribution of Bali                        | -                            | -            | -            | -                        | -                | -                | -                                       |
| Region of West Nusa Tenggara                | -                            | -            | -            | -                        | 22,607           | 22,607           | -                                       |
| Region of East Nusa Tenggara                | 35                           | 96           | 131          | 11,418                   | 10,718           | 22,136           | 12,743                                  |
| PT PLN Batam                                | 1                            | 6            | 7            | 2,500                    | 49,500           | 52,000           | 23,216                                  |
| PT PLN Tarakan                              | -                            | 65           | 65           | -                        | 20,333           | 20,333           | -                                       |
| <b>Outside Java</b>                         | <b>1,061</b>                 | <b>1,608</b> | <b>2,669</b> | <b>580,621</b>           | <b>1,020,132</b> | <b>1,600,753</b> | <b>849,466</b>                          |
| Dist. of East Java                          | 254                          | 981          | 1,235        | 439,870                  | 780,679          | 1,220,549        | 534,810                                 |
| Dist. of Central Java & Yogyakarta          | -                            | -            | -            | -                        | -                | -                | -                                       |
| - Central Java                              | -                            | -            | -            | -                        | -                | -                | -                                       |
| - D.I. Yogyakarta                           | -                            | -            | -            | -                        | -                | -                | -                                       |
| Dist. of West Java                          | 3                            | 12           | 15           | 85,380                   | 568,350          | 653,730          | -                                       |
| Dist. of Banten                             | 13                           | 103          | 116          | 710,800                  | 289,120          | 999,920          | 1,032,540                               |
| Dist. of Jakarta Raya & Tangerang           | 15                           | 1,086        | 1,101        | 109,662                  | 1,991,570        | 2,101,232        | 2,053,930                               |
| <b>Java</b>                                 | <b>285</b>                   | <b>2,182</b> | <b>2,467</b> | <b>1,345,712</b>         | <b>3,629,719</b> | <b>4,975,431</b> | <b>3,621,280</b>                        |
| <b>Indonesia</b>                            | <b>1,346</b>                 | <b>3,790</b> | <b>5,136</b> | <b>1,926,333</b>         | <b>4,649,851</b> | <b>6,576,184</b> | <b>4,470,746</b>                        |

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

CP Reserve = Captive Power that become a customer of PLN

# Annual Data 2016

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

**2016**

| PLN Operational Unit/Province               | Voltage      |                 |                  |                 |                 | Total            |
|---|--------------|-----------------|------------------|-----------------|-----------------|------------------|
|   | 25 - 30 kV   | 70 kV           | 150 kV           | 275 kV          | 500 kV          |                  |
| Region of Aceh                              | -            | -               | -                | -               | -               | -                |
| Region of North Sumatera                    | -            | -               | -                | -               | -               | -                |
| Region of West Sumatera                     | -            | -               | -                | -               | -               | -                |
| Region of Riau                              | -            | -               | 72.90            | -               | -               | 72.90            |
| - Riau                                      | -            | -               | -                | -               | -               | -                |
| - Riau Archipelago                          | -            | -               | 72.90            | -               | -               | 72.90            |
| Region of South Sumatera, Jambi & Bengkulu  | -            | -               | -                | -               | -               | -                |
| - South Sumatera                            | -            | -               | -                | -               | -               | -                |
| - Jambi                                     | -            | -               | -                | -               | -               | -                |
| - Bengkulu                                  | -            | -               | -                | -               | -               | -                |
| Region of Bangka Belitung                   | -            | 40.48           | 65.86            | -               | -               | 106.34           |
| Distribution of Lampung                     | -            | -               | -                | -               | -               | -                |
| Region of West Kalimantan                   | -            | -               | 655.66           | 162.75          | -               | 818.41           |
| Region of S & C Kalimantan                  | -            | 123.10          | 1,875.72         | -               | -               | 1,998.82         |
| - South Kalimantan                          | -            | 123.10          | 1,319.82         | -               | -               | 1,442.92         |
| - Central Kalimantan                        | -            | -               | 555.90           | -               | -               | 555.90           |
| Region of East Kalimantan & North           | -            | -               | 859.95           | -               | -               | 859.95           |
| Region of N, C Sulawesi & Gorontalo         | 0.78         | 753.88          | 1,642.32         | -               | -               | 2,396.98         |
| - North Sulawesi                            | 0.78         | 275.82          | 499.33           | -               | -               | 775.93           |
| - Gorontalo                                 | -            | 324.24          | 714.99           | -               | -               | 1,039.23         |
| - Central Sulawesi                          | -            | 153.82          | 428.00           | -               | -               | 581.82           |
| Region of S, SE & W Sulawesi                | 3.40         | 157.60          | 2,481.81         | -               | -               | 2,642.81         |
| - South Sulawesi                            | 3.40         | 132.20          | 2,152.89         | -               | -               | 2,288.49         |
| - Southeast Sulawesi                        | -            | 25.40           | -                | -               | -               | 25.40            |
| - West Sulawesi                             | -            | -               | 328.92           | -               | -               | 328.92           |
| Region of Maluku & North Maluku             | -            | -               | -                | -               | -               | -                |
| - Maluku                                    | -            | -               | -                | -               | -               | -                |
| - North Maluku                              | -            | -               | -                | -               | -               | -                |
| Region of Papua                             | -            | 221.00          | -                | -               | -               | 221.00           |
| - Papua                                     | -            | 221.00          | -                | -               | -               | 221.00           |
| - West Papua                                | -            | -               | -                | -               | -               | -                |
| Distribution of Bali                        | -            | -               | -                | -               | -               | -                |
| Region of West Nusa Tenggara                | -            | -               | 256.20           | -               | -               | 256.20           |
| Region of East Nusa Tenggara                | -            | -               | -                | -               | -               | -                |
| PT PLN Batam                                | -            | -               | 169.47           | -               | -               | 169.47           |
| PT PLN Tarakan                              | -            | -               | -                | -               | -               | -                |
| Generation of Northern Part of Sumatera     | -            | -               | -                | -               | -               | -                |
| Generation of Southern Part of Sumatera     | -            | -               | -                | -               | -               | -                |
| Sumatera Trans. and Control Center          | -            | 338.43          | 9,936.94         | 1,693.73        | -               | 11,969.10        |
| <b>Outside Java</b>                         | <b>4.18</b>  | <b>1,634.49</b> | <b>18,016.83</b> | <b>1,856.48</b> | <b>-</b>        | <b>21,511.98</b> |
| Dist. of East Java                          | -            | -               | -                | -               | -               | -                |
| Dist. of Central Java & Yogyakarta          | -            | -               | -                | -               | -               | -                |
| - Central Java                              | -            | -               | -                | -               | -               | -                |
| - D.I. Yogyakarta                           | -            | -               | -                | -               | -               | -                |
| Dist. of West Java                          | -            | -               | -                | -               | -               | -                |
| Dist. of Banten                             | -            | -               | -                | -               | -               | -                |
| Dist. of Jakarta Raya & Tangerang           | -            | -               | -                | -               | -               | -                |
| PT Indonesia Power                          | -            | -               | -                | -               | -               | -                |
| PT Java Bali Genco                          | -            | -               | -                | -               | -               | -                |
| Transmission of Western Part of Java        | -            | 237.39          | 1,997.27         | -               | 976.57          | 3,211.23         |
| Transmission of Central Part of Java        | -            | 1,441.23        | 7,331.86         | -               | 2,739.72        | 11,512.81        |
| Transmission of Eastern Part of Java & Bali | 56.15        | 1,356.21        | 5,077.06         | -               | 1,339.98        | 7,829.40         |
| <b>Java</b>                                 | <b>56.15</b> | <b>3,034.83</b> | <b>14,406.19</b> | <b>-</b>        | <b>5,056.27</b> | <b>22,553.44</b> |
| <b>Indonesia</b>                            | <b>60.33</b> | <b>4,669.32</b> | <b>32,423.02</b> | <b>1,856.48</b> | <b>5,056.27</b> | <b>44,065.42</b> |

**Table 29 : Length of Medium and Low Voltage Lines (kmc)****2016**

| PLN Operational Unit/Province              | Medium Voltage |             |                   | Low Voltage       |
|--|----------------|-------------|-------------------|-------------------|
|  | 6 - 7 KV       | 10 - 12 KV  | 15-20 KV          |                   |
| Region of Aceh                             | -              | -           | 16,324.38         | 16,885.62         |
| Region of North Sumatera                   | -              | -           | 25,455.70         | 26,719.00         |
| Region of West Sumatera                    | -              | -           | 10,493.00         | 13,855.00         |
| Region of Riau                             | -              | -           | 11,562.16         | 38,080.40         |
| - Riau                                     | -              | -           | 9,603.73          | 36,393.90         |
| - Riau Archipelago                         | -              | -           | 1,958.43          | 1,686.50          |
| Region of South Sumatera, Jambi & Bengkulu | -              | 3.12        | 23,930.68         | 21,865.19         |
| - South Sumatera                           | -              | 3.12        | 12,642.50         | 10,287.08         |
| - Jambi                                    | -              | -           | 7,078.98          | 5,572.35          |
| - Bengkulu                                 | -              | -           | 4,209.20          | 6,005.76          |
| Region of Bangka Belitung                  | -              | -           | 4,019.18          | 4,353.90          |
| Distribution of Lampung                    | 3.07           | -           | 11,473.20         | 14,559.20         |
| Region of West Kalimantan                  | -              | -           | 10,638.50         | 12,337.10         |
| Region of S & C Kalimantan                 | 2.36           | -           | 13,848.81         | 13,825.45         |
| - South Kalimantan                         | 2.36           | -           | 8,261.98          | 9,690.81          |
| - Central Kalimantan                       | -              | -           | 5,586.83          | 4,134.64          |
| Region of East Kalimantan & North          | -              | -           | 6,910.49          | 7,132.79          |
| Region of N, C Sulawesi & Gorontalo        | -              | -           | 15,078.00         | 11,787.00         |
| - North Sulawesi                           | -              | -           | 6,422.00          | 4,564.00          |
| - Gorontalo                                | -              | -           | 2,225.00          | 1,792.00          |
| - Central Sulawesi                         | -              | -           | 6,431.00          | 5,431.00          |
| Region of S, SE & W Sulawesi               | -              | -           | 19,751.07         | 20,637.84         |
| - South Sulawesi                           | -              | -           | 13,106.30         | 14,477.00         |
| - Southeast Sulawesi                       | -              | -           | 4,677.95          | 4,524.29          |
| - West Sulawesi                            | -              | -           | 1,966.82          | 1,636.55          |
| Region of Maluku & North Maluku            | -              | -           | 6,324.54          | 2,057.95          |
| - Maluku                                   | -              | -           | 3,989.00          | 1,853.50          |
| - North Maluku                             | -              | -           | 2,335.54          | 1,422.46          |
| Region of Papua                            | -              | -           | 5,089.42          | 6,305.44          |
| - Papua                                    | -              | -           | 2,853.99          | 4,546.71          |
| - West Papua                               | -              | -           | 2,235.43          | 1,758.73          |
| Distribution of Bali                       | -              | -           | 7,097.00          | 10,741.00         |
| Region of West Nusa Tenggara               | -              | -           | 5,381.96          | 5,434.92          |
| Region of East Nusa Tenggara               | -              | -           | 6,821.00          | 7,118.86          |
| PT PLN Batam                               | -              | -           | 1,515.00          | 2,490.00          |
| PT PLN Tarakan                             | -              | -           | 203.09            | 280.48            |
| Generation of Northern Part of Sumatera    | -              | -           | -                 | -                 |
| Generation of Southern Part of Sumatera    | -              | -           | -                 | -                 |
| Sumatera Trans. and Control Center         | -              | -           | -                 | -                 |
| <b>Outside Java</b>                        | <b>5.43</b>    | <b>3.12</b> | <b>201,917.18</b> | <b>236,467.14</b> |
| Dist. of East Java                         | -              | -           | 35,920.00         | 72,295.77         |
| Dist. of Central Java & Yogyakarta         | -              | -           | 49,895.51         | 52,889.72         |
| - Central Java                             | -              | -           | 44,376.40         | 47,332.50         |
| - D.I. Yogyakarta                          | -              | -           | 5,519.11          | 5,557.22          |
| Dist. of West Java                         | -              | -           | 43,000.00         | 113,513.00        |
| Dist. of Banten                            | -              | -           | 14,437.00         | 24,013.00         |
| Dist. of Jakarta Raya & Tangerang          | -              | -           | 14,569.00         | 28,315.20         |
| PT Indonesia Power                         | -              | -           | -                 | -                 |
| PT Java Bali Genco                         | -              | -           | -                 | -                 |
| <b>Java</b>                                | <b>-</b>       | <b>-</b>    | <b>157,821.51</b> | <b>291,026.69</b> |
| <b>Indonesia</b>                           | <b>5.43</b>    | <b>3.12</b> | <b>359,738.69</b> | <b>527,493.83</b> |

# Annual Data 2016

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

**2016**

| 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    |
| Region of Aceh                              | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of North Sumatera                    | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of West Sumatera                     | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of Riau                              | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Riau                                      | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Riau Archipelago                          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of South Sumatera, Jambi & Bengkulu  | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - South Sumatera                            | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Jambi                                     | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Bengkulu                                  | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of Bangka Belitung                   | -      | -      | -      | -     | 4      | 150    | 2     | 60    | -      | -   | 6     | 210    |
| Distribution of Lampung                     | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of West Kalimantan                   | -      | -      | 2      | 500   | 16     | 600    | -     | -     | -      | -   | 18    | 1,100  |
| Region of S & C Kalimantan                  | -      | -      | -      | -     | 34     | 939    | 5     | 47    | -      | -   | 39    | 986.00 |
| - South Kalimantan                          | -      | -      | -      | -     | 29     | 779    | 5     | 47    | -      | -   | 34    | 826.00 |
| - Central Kalimantan                        | -      | -      | -      | -     | 5      | 160    | -     | -     | -      | -   | 5     | 160.00 |
| Region of East Kalimantan & North           | -      | -      | -      | -     | 25     | 870    | -     | -     | -      | -   | 25    | 870    |
| Region of N, C Sulawesi & Gorontalo         | -      | -      | -      | -     | 20     | 580    | 26    | 587   | -      | -   | 46    | 1,167  |
| - North Sulawesi                            | -      | -      | -      | -     | 11     | 340    | 21    | 467   | -      | -   | 32    | 807    |
| - Gorontalo                                 | -      | -      | -      | -     | 4      | 110    | -     | -     | -      | -   | 4     | 110    |
| - Central Sulawesi                          | -      | -      | -      | -     | 5      | 130    | 5     | 120   | -      | -   | 10    | 250    |
| Region of S, SE & W Sulawesi                | -      | -      | -      | -     | 53     | 1,558  | 17    | 428   | 2      | 30  | 72    | 2,015  |
| - South Sulawesi                            | -      | -      | -      | -     | 49     | 1,458  | 13    | 327.5 | 2      | 30  | 64    | 1,815  |
| - Southeast Sulawesi                        | -      | -      | -      | -     | 4      | 100    | -     | -     | -      | -   | 4     | 100    |
| - West Sulawesi                             | -      | -      | -      | -     | -      | -      | 4     | 100   | -      | -   | 4     | 100    |
| Region of Maluku & North Maluku             | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Maluku                                    | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - North Maluku                              | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Region of Papua                             | -      | -      | -      | -     | -      | -      | 9     | 124.5 | -      | -   | 9     | 125    |
| - Papua                                     | -      | -      | -      | -     | -      | -      | 9     | 124.5 | -      | -   | 9     | 125    |
| - West Papua                                | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Distribution of Bali                        | -      | -      | -      | -     | 43     | 1,841  | -     | -     | -      | -   | 43    | 1,841  |
| Region of West Nusa Tenggara                | -      | -      | -      | -     | 9      | 270    | -     | -     | -      | -   | 9     | 270    |
| Region of East Nusa Tenggara                | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| PT PLN Batam                                | -      | -      | -      | -     | 17     | 630    | -     | -     | -      | -   | 17    | 630    |
| PT PLN Tarakan                              | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Generation of Northern Part of Sumatera     | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Generation of Southern Part of Sumatera     | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Sumatera Trans. and Control Center          | -      | -      | 14     | 1,660 | 246    | 10,613 | 22    | 555   | -      | -   | 282   | 12,828 |
| <b>Outside Java</b>                         | -      | -      | 16     | 2,160 | 467    | 18,051 | 81    | 1,801 | 2      | 30  | 566   | 22,042 |
| Dist. of East Java                          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Dist. of Central Java & Yogyakarta          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - Central Java                              | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| - D.I. Yogyakarta                           | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Dist. of West Java                          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Dist. of Banten                             | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Dist. of Jakarta Raya & Tangerang           | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| PT Indonesia Power                          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| PT Java Bali Genco                          | -      | -      | -      | -     | -      | -      | -     | -     | -      | -   | -     | -      |
| Transmission of Western Part of Java        | 22     | 10,500 | -      | -     | 271    | 16,246 | 8     | 240   | -      | -   | 301   | 26,986 |
| Transmission of Central Part of Java        | 21     | 10,500 | -      | -     | 303    | 16,316 | 64    | 1,393 | -      | -   | 388   | 28,209 |
| Transmission of Eastern Part of Java & Bali | 15     | 7,500  | -      | -     | 250    | 12,873 | 53    | 1,288 | -      | -   | 318   | 21,661 |
| <b>Java</b>                                 | 58     | 28,500 | -      | -     | 824    | 45,435 | 125   | 2,921 | -      | -   | 1,007 | 76,856 |
| <b>Indonesia</b>                            | 58     | 28,500 | 16     | 2,160 | 1,291  | 63,486 | 206   | 4,722 | 2      | 30  | 1,573 | 98,898 |

**Table 31 : Number and Total Capacity of Distribution Substation Transformers****2016**

| PLN Operational Unit/Province              | 20 kV             |                  | 12-15 kV |     | 6-7 kV |     | Total             |                  |
|--|-------------------|------------------|----------|-----|--------|-----|-------------------|------------------|
|  | Unit              | MVA              | Unit     | MVA | Unit   | MVA | Unit              | MVA              |
| Region of Aceh                             | 11,036            | 819.70           | -        | -   | -      | -   | 11,036            | 819.70           |
| Region of North Sumatera                   | 26,201            | 2,344.24         | -        | -   | -      | -   | 26,201            | 2,344.24         |
| Region of West Sumatera                    | 8,982             | 841.04           | -        | -   | -      | -   | 8,982             | 841.04           |
| Region of Riau                             | 12,171            | 1,550.99         | -        | -   | -      | -   | 12,171            | 1,550.99         |
| - Riau                                     | 10,182            | 1,268.21         | -        | -   | -      | -   | 10,182            | 1,268.21         |
| - Riau Archipelago                         | 1,989             | 282.78           | -        | -   | -      | -   | 1,989             | 282.78           |
| Region of South Sumatera, Jambi & Bengkulu | 22,869            | 2,518.87         | -        | -   | -      | -   | 22,869            | 2,518.87         |
| - South Sumatera                           | 12,644            | 1,538.90         | -        | -   | -      | -   | 12,644            | 1,538.90         |
| - Jambi                                    | 6,793             | 663.04           | -        | -   | -      | -   | 6,793             | 663.04           |
| - Bengkulu                                 | 3,432             | 316.93           | -        | -   | -      | -   | 3,432             | 316.93           |
| Region of Bangka Belitung                  | 3,177             | 296.86           | -        | -   | -      | -   | 3,177             | 296.86           |
| Distribution of Lampung                    | 10,360            | 1,217.46         | -        | -   | -      | -   | 10,360            | 1,217.46         |
| Region of West Kalimantan                  | 7,722             | 720.73           | -        | -   | -      | -   | 7,722             | 720.73           |
| Region of S & C Kalimantan                 | 13,395            | 1,067.80         | -        | -   | -      | -   | 13,395            | 1,067.80         |
| - South Kalimantan                         | 8,657             | 718.28           | -        | -   | -      | -   | 8,657             | 718.28           |
| - Central Kalimantan                       | 4,738             | 349.52           | -        | -   | -      | -   | 4,738             | 349.52           |
| Region of East Kalimantan & North          | 7,551             | 1,022.00         | -        | -   | -      | -   | 7,551             | 1,022.00         |
| Region of N, C Sulawesi & Gorontalo        | 11,541            | 1,058.00         | -        | -   | -      | -   | 11,541            | 1,058.00         |
| - North Sulawesi                           | 4,293             | 509.00           | -        | -   | -      | -   | 4,293             | 509.00           |
| - Gorontalo                                | 2,226             | 182.00           | -        | -   | -      | -   | 2,226             | 182.00           |
| - Central Sulawesi                         | 5,022             | 367.00           | -        | -   | -      | -   | 5,022             | 367.00           |
| Region of S, SE & W Sulawesi               | 19,936            | 1,582.10         | -        | -   | -      | -   | 19,936            | 1,582.10         |
| - South Sulawesi                           | 14,247            | 1,227.94         | -        | -   | -      | -   | 14,247            | 1,227.94         |
| - Southeast Sulawesi                       | 3,714             | 242.74           | -        | -   | -      | -   | 3,714             | 242.74           |
| - West Sulawesi                            | 1,975             | 111.42           | -        | -   | -      | -   | 1,975             | 111.42           |
| Region of Maluku & North Maluku            | 3,839             | 361.94           | -        | -   | -      | -   | 3,839             | 361.94           |
| - Maluku                                   | 2,399             | 234.93           | -        | -   | -      | -   | 2,399             | 234.93           |
| - North Maluku                             | 1,440             | 127.01           | -        | -   | -      | -   | 1,440             | 127.01           |
| Region of Papua                            | 3,623             | 448.96           | -        | -   | -      | -   | 3,623             | 448.96           |
| - Papua                                    | 2,300             | 298.18           | -        | -   | -      | -   | 2,300             | 298.18           |
| - West Papua                               | 1,323             | 150.78           | -        | -   | -      | -   | 1,323             | 150.78           |
| Distribution of Bali                       | 10,074            | 1,634.00         | -        | -   | -      | -   | 10,074            | 1,634.00         |
| Region of West Nusa Tenggara               | 4,577             | 590.66           | -        | -   | -      | -   | 4,577             | 590.66           |
| Region of East Nusa Tenggara               | 4,329             | 313.08           | -        | -   | -      | -   | 4,329             | 313.08           |
| PT PLN Batam                               | 943               | 438.42           | -        | -   | -      | -   | 943               | 438.42           |
| PT PLN Tarakan                             | 350               | 84.37            | -        | -   | -      | -   | 350               | 84.37            |
| Generation of Northern Part of Sumatera    | -                 | -                | -        | -   | -      | -   | -                 | -                |
| Generation of Southern Part of Sumatera    | -                 | -                | -        | -   | -      | -   | -                 | -                |
| Sumatera Trans. and Control Center         | -                 | -                | -        | -   | -      | -   | -                 | -                |
| <b>Outside Java</b>                        | <b>182,676</b>    | <b>18,911.22</b> | -        | -   | -      | -   | <b>182,676.00</b> | <b>18,911.22</b> |
| Dist. of East Java                         | 58,007            | 7,036.10         | -        | -   | -      | -   | 58,007            | 7,036.10         |
| Dist. of Central Java & Yogyakarta         | 119,642           | 6,018.85         | -        | -   | -      | -   | 119,642           | 6,018.85         |
| - Central Java                             | 104,386           | 5,185.52         | -        | -   | -      | -   | 104,386           | 5,185.52         |
| - D.I. Yogyakarta                          | 15,256            | 833.33           | -        | -   | -      | -   | 15,256            | 833.33           |
| Dist. of West Java                         | 47,619            | 7,856.00         | -        | -   | -      | -   | 47,619            | 7,856.00         |
| Dist. of Banten                            | 12,691            | 3,162.00         | -        | -   | -      | -   | 12,691            | 3,162.00         |
| Dist. of Jakarta Raya & Tangerang          | 12,876            | 7,114.90         | -        | -   | -      | -   | 12,876            | 7,114.90         |
| PT Indonesia Power                         | -                 | -                | -        | -   | -      | -   | -                 | -                |
| PT Jawa Bali Genco                         | -                 | -                | -        | -   | -      | -   | -                 | -                |
| <b>Java</b>                                | <b>250,835.00</b> | <b>31,187.85</b> | -        | -   | -      | -   | <b>250,835.00</b> | <b>31,187.85</b> |
| <b>Indonesia</b>                           | <b>433,511</b>    | <b>50,099.07</b> | -        | -   | -      | -   | <b>433,511</b>    | <b>50,099.07</b> |

# Annual Data 2016

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

**2016**

| Description                      | Description                  | December 2016                              |
|----------------------------------|------------------------------|--|
| <b>FIXED ASSETS</b>              | <b>EQUITY</b>                | 880,797,712                                |
| - Total Fixed Assets             | 1,086,392,645                |  |
| - Accumulation Depreciation      | (45,898,347)                 | DEFERRED REVENUE                           |
| Total Fixed Assets (Net)         | 1,040,494,298                | Total Equity & Deferred Revenue            |
|                                  |                              | 880,797,712                                |
|                                  | <b>LONG TERM LIABILITIES</b> | 272,156,163                                |
| Work in Progress                 | 105,035,230                  | - Deferred Tax 59,725                      |
|                                  |                              | - Long Term Liabilities 29,133,756         |
| Other Assets                     | 14,104,322                   | - Bond Payable 68,824,683                  |
|                                  |                              | - Other Long Term Liabilities 17,933,075   |
| Receivables from Related Parties | 263,064                      | - Electricity Purchase Payable 115,094,813 |
|                                  |                              | - Employee Benefit Obligations 41,110,111  |
| Long Term Investment             | 3,829,982                    |  |
| Deferred Tax Assets              | 9,882,003                    | <b>CURRENT LIABILITIES</b>                 |
|                                  |                              | 121,622,355                                |
| <b>CURRENT ASSETS</b>            |                              |  |
| - Cash & Bank                    | 41,909,223                   |  |
| - Government Subsidy             | 14,844,365                   |  |
| - Temporary Investment           | 374,771                      |  |
| - Receivable                     | 24,122,345                   |  |
| - Inventories                    | 11,569,596                   |  |
| - Other Current Assets           | 8,147,032                    |  |
| Total Current Assets             | 100,967,332                  | Total Long Term & Current Liabilities      |
| <b>TOTAL ASSETS</b>              | 1,274,576,230                | <b>TOTAL EQUITY &amp; LIABILITIES</b>      |
|                                  |                              | 1,274,576,230                              |

**Table 33 : Profit and Loss (million Rp)****2016**

| Description                              | December 2016      |
|--|--------------------|
| <b>OPERATION REVENUE</b>                 |                    |
| - Electricity Sales                      |                    |
| - Connection Fees                        | 214,139,834        |
| - Others                                 | 7,052,136          |
| -  | 1,629,986          |
| <b>Total Operation Revenue</b>           | <b>222,821,956</b> |
| <b>OPERATION COST</b>                    |                    |
| - Electricity Purchase and Diesel Rented | 66,274,504         |
| - Fuel and Lubricant Oil                 | 109,492,383        |
| - Maintenance                            | 21,226,736         |
| - Personnel                              | 22,659,965         |
| - Depreciation                           | 27,512,150         |
| - Others                                 | 7,284,064          |
| <b>Total Operation Cost</b>              | <b>254,449,802</b> |
| <b>PROFIT (LOSS) FROM SUBSIDY</b>        |                    |
| - Government Subsidy                     | (31,627,846)       |
| <b>PROFIT (LOSS) FROM SUBSIDY</b>        | <b>28,813,674</b>  |

**Table 34 : Fixed Asset and Depreciation (million Rp)****2016**

| Function                | Saldo<br>2016         | Accumulated<br>Depreciation | Book Value<br>2016    |
|-------------------------|-----------------------|-----------------------------|-----------------------|
| - Hydro                 | 27,033,599.91         | 839,555.58                  | 26,194,044.32         |
| - Steam                 | 206,542,794.17        | 17,424,728.04               | 189,118,066.13        |
| - Diesel                | 17,592,481.99         | 808,975.92                  | 16,783,506.07         |
| - Gas Turbine           | 32,550,946.71         | 878,551.34                  | 31,672,395.37         |
| - Geothermal            | 13,655,959.95         | 431,932.73                  | 13,224,027.22         |
| - Combined Cycle        | 61,790,841.95         | 2,173,024.89                | 59,617,817.06         |
| - Solar                 | 341,357.88            | 21,818.56                   | 319,539.32            |
| - Transmission          | 150,790,782.05        | 3,394,779.01                | 147,396,003.04        |
| - Data Tele Information | 2,603,918.46          | 408,678.38                  | 2,195,240.07          |
| - Distribution and UPD  | 160,358,017.70        | 5,595,502.85                | 154,762,514.85        |
| - T U L                 | 2,672,002.23          | 481,868.93                  | 2,190,133.29          |
| - T U                   | 30,381,052.03         | 1,337,157.21                | 29,043,894.82         |
| <b>TOTAL</b>            | <b>706,313,755.01</b> | <b>33,796,573.46</b>        | <b>672,517,181.55</b> |

# Annual Data 2016

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

**2016**

| PLN Operational Unit                       | Public               | Armed Force       | Non Armed Force   | Local Government  | BUMN              | Total                |
|--|----------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| Region of Aceh                             | 156,271.82           | 20,395.67         | 2,952.36          | 68,384.91         | 6,298.01          | 254,302.78           |
| Region of North Sumatera                   | 818,895.68           | 17,697.04         | 14,992.99         | 60,925.10         | 19,541.18         | 932,051.99           |
| Region of West Sumatera                    | 154,008.79           | 7,439.11          | 4,722.04          | 23,818.20         | 65,217.60         | 255,205.74           |
| Region of Riau                             | 356,274.90           | 13,990.59         | 6,815.26          | 70,338.21         | 7,048.57          | 454,467.53           |
| Region of South Sumatera, Jambi & Bengkulu | 736,671.60           | 17,572.61         | 7,970.14          | 41,672.73         | 31,423.56         | 835,310.63           |
| Region of Bangka Belitung                  | 34,466.15            | 2,167.59          | 858.31            | 3,321.63          | 2,458.92          | 43,272.60            |
| Distribution of Lampung                    | 371,327.86           | 3,005.38          | 3,105.65          | 22,227.44         | 2,202.83          | 401,869.16           |
| Region of West Kalimantan                  | 170,281.79           | 10,441.72         | 3,173.23          | 14,245.06         | 2,570.16          | 200,711.96           |
| Region of S & C Kalimantan                 | 204,886.74           | 10,340.72         | 5,001.91          | 26,091.80         | 11,229.73         | 257,550.90           |
| Region of East Kalimantan & North          | 197,765.52           | 15,755.74         | 3,787.57          | 29,010.39         | 12,143.76         | 258,462.97           |
| Region of N, C Sulawesi & Gorontalo        | 222,124.73           | 18,085.37         | 8,154.89          | 39,303.61         | 6,141.39          | 293,809.99           |
| Region of S, SE & W Sulawesi               | 466,533.92           | 31,697.34         | 10,305.59         | 32,763.29         | 29,872.78         | 571,172.92           |
| Region of Maluku & North Maluku            | 140,040.55           | 13,342.71         | 4,115.44          | 6,241.01          | 5,493.19          | 169,232.91           |
| Region of Papua                            | 128,608.88           | 20,703.73         | 4,414.46          | 9,491.68          | 5,428.94          | 168,647.69           |
| Distribution of Bali                       | 377,260.00           | 12,215.82         | 4,994.18          | 12,256.73         | 5,731.09          | 412,457.81           |
| Region of West Nusa Tenggara               | 88,120.64            | 3,368.85          | 1,494.79          | 14,229.21         | 3,479.93          | 110,693.42           |
| Region of East Nusa Tenggara               | 68,633.12            | 6,230.32          | 2,176.94          | 4,069.29          | 3,997.55          | 85,107.21            |
| PT PLN Batam                               | 256,878.85           | 2,998.44          | 2,509.23          | 2,308.31          | 760.12            | 265,454.95           |
| PT PLN Tarakan                             | 25,279.13            | 1,772.87          | 875.15            | 4,962.50          | 143.31            | 33,032.97            |
| <b>Outside Java</b>                        | <b>4,974,330.68</b>  | <b>229,221.61</b> | <b>92,420.11</b>  | <b>485,661.11</b> | <b>221,182.62</b> | <b>6,002,816.13</b>  |
| Dist. of East Java                         | 2,469,146.68         | 75,349.23         | 24,815.15         | 91,497.94         | 164,824.71        | 2,825,633.72         |
| Dist. of Central Java & Yogyakarta         | 2,547,365.36         | 33,442.77         | 28,374.40         | 83,292.34         | 21,476.56         | 2,713,951.43         |
| Dist. of West Java                         | 4,696,102.53         | 54,407.51         | 28,176.22         | 79,414.53         | 53,018.35         | 4,911,119.14         |
| Dist. of Banten                            | 2,214,156.81         | 11,524.56         | 9,613.43          | 21,267.11         | 7,693.20          | 2,264,255.10         |
| Dist. of Jakarta Raya & Tangerang          | 3,097,418.04         | 199,435.90        | 104,211.23        | 72,444.51         | 23,109.23         | 3,496,618.91         |
| <b>Java</b>                                | <b>15,024,189.43</b> | <b>374,159.96</b> | <b>195,190.44</b> | <b>347,916.42</b> | <b>270,122.05</b> | <b>16,211,578.29</b> |
| Subsidiaries                               | 475,077.25           | -                 | -                 | -                 | 76,817.96         | 551,895.21           |
| Central Unit                               | 2,297.33             |                   |                   |                   |                   | 2,297.33             |
| <b>Indonesia</b>                           | <b>20,475,894.69</b> | <b>603,381.57</b> | <b>287,610.55</b> | <b>833,577.53</b> | <b>568,122.63</b> | <b>22,768,586.97</b> |

**Table 36 : Average Collection Rate****2016**

| PLN Operational Unit                       | Sales<br>(million Rp) | Accounts Receivable<br>(million Rp) | Average<br>(day) |
|--|-----------------------|-------------------------------------|------------------|
| Region of Aceh                             | 1,514,760.13          | 254,302.78                          | 61.28            |
| Region of North Sumatera                   | 7,706,436.91          | 932,051.99                          | 44.14            |
| Region of West Sumatera                    | 2,375,996.23          | 255,205.74                          | 39.20            |
| Region of Riau                             | 3,742,243.57          | 454,467.53                          | 44.33            |
| Region of South Sumatera, Jambi & Bengkulu | 5,646,559.24          | 835,310.63                          | 54.00            |
| Region of Bangka Belitung                  | 496,469.87            | 43,272.60                           | 31.81            |
| Distribution of Lampung                    | 2,744,946.16          | 401,869.16                          | 53.44            |
| Region of West Kalimantan                  | 1,457,958.06          | 200,711.96                          | 50.25            |
| Region of S & C Kalimantan                 | 2,279,278.42          | 257,550.90                          | 41.24            |
| Region of East Kalimantan & North          | 2,316,612.74          | 258,462.97                          | 40.72            |
| Region of N, C Sulawesi & Gorontalo        | 2,003,168.07          | 293,809.99                          | 53.54            |
| Region of S, SE & W Sulawesi               | 4,988,006.48          | 571,172.92                          | 41.80            |
| Region of Maluku & North Maluku            | 622,106.32            | 169,232.91                          | 99.29            |
| Region of Papua                            | 923,205.05            | 168,647.69                          | 66.68            |
| Distribution of Bali                       | 4,202,497.79          | 412,457.81                          | 35.82            |
| Region of West Nusa Tenggara               | 976,618.83            | 110,693.42                          | 41.37            |
| Region of East Nusa Tenggara               | 346,007.32            | 85,107.21                           | 89.78            |
| PT PLN Batam                               | 2,649,365.15          | 265,454.95                          | 36.57            |
| PT PLN Tarakan                             | 296,480.51            | 33,032.97                           | 40.67            |
| <b>Outside Java</b>                        | <b>47,288,716.87</b>  | <b>6,002,816.13</b>                 | <b>46.33</b>     |
| Dist. of East Java                         | 27,580,862.41         | 2,825,633.72                        | 37.39            |
| Dist. of Central Java & Yogyakarta         | 18,985,630.36         | 2,713,951.43                        | 52.18            |
| Dist. of West Java                         | 39,209,349.17         | 4,911,119.14                        | 45.72            |
| Dist. of Banten                            | 19,083,665.89         | 2,264,255.10                        | 43.31            |
| Dist. of Jakarta Raya & Tangerang          | 31,844,050.36         | 3,496,618.91                        | 40.08            |
| <b>Java</b>                                | <b>136,703,558.17</b> | <b>16,211,578.29</b>                | <b>43.29</b>     |
| Prepaid Electricity                        | 31,415,072.67         | 551,895.21                          | -                |
| Central Unit                               | (1,235,742.10)        | 2,297                               | -                |
| Correction SUD                             | (31,784.20)           |                                     |                  |
| <b>Indonesia</b>                           | <b>214,139,821.41</b> | <b>22,768,586.97</b>                | <b>38.81</b>     |

# Annual Data 2016

**Table 37 : Generation Cost**

**2016**

| Generation Type | Generation Cost (million Rp) |                      |                      |                   |                     |                       |
|-----------------|------------------------------|----------------------|----------------------|-------------------|---------------------|-----------------------|
|                 | Fuel *)                      | Maintenance          | Depreciation         | Other             | Personnel           | Total                 |
| Hydro           | 323,906.89                   | 498,490.96           | 2,544,357.68         | 61,343.27         | 347,441.07          | 3,775,539.87          |
| Steam           | 36,713,013.00                | 5,476,025.59         | 8,667,527.75         | 211,958.84        | 653,715.17          | 51,722,240.34         |
| Diesel **)      | 21,491,336.68                | 2,067,554.87         | 817,340.45           | 116,367.66        | 996,365.21          | 25,488,964.86         |
| Gas Turbine     | 9,926,449.57                 | 339,414.66           | 1,585,693.80         | 35,643.56         | 129,346.29          | 12,016,547.88         |
| Geothermal      | 2,837,942.33                 | 195,332.04           | 903,032.51           | 11,453.79         | 75,127.33           | 4,022,888.00          |
| Combined Cycle  | 38,199,729.08                | 2,084,227.28         | 4,726,002.23         | 179,423.04        | 283,735.52          | 45,473,117.15         |
| Solar           | 5.55                         | 8,218.50             | 24,295.14            | 197.28            | 1,528.51            | 34,244.97             |
| <b>Total</b>    | <b>109,492,383.10</b>        | <b>10,669,263.90</b> | <b>19,268,249.54</b> | <b>616,387.44</b> | <b>2,487,259.09</b> | <b>142,533,543.07</b> |
| Rented ***)     |                              |                      |                      |                   |                     | 6,545,114.19          |

\*) Including Lubricant

\*\*) Including Diesel Gas

\*\*\*) Rental cost of diesel power plant and gas turbine power plant

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

**2016**

| Generation Type | Average Generation Cost per kWh (Rp/kWh) |              |               |             |              |               |
|-----------------|--|--------------|---------------|-------------|--------------|---------------|
|                 | Fuel *)                                  | Maintenance  | Depreciation  | Other       | Personnel    | Total         |
| Hydro           | 23.33                                    | 35.90        | 183.24        | 4.42        | 25.02        | 271.90        |
| Steam           | 377.89                                   | 56.36        | 89.21         | 2.18        | 6.73         | 532.38        |
| Diesel **)      | 1,123.93                                 | 364.35       | 144.03        | 20.51       | 175.58       | 1,828.39      |
| Gas Turbine     | 2,563.81                                 | 87.66        | 409.55        | 9.21        | 33.41        | 3,103.64      |
| Geothermal      | 717.00                                   | 49.35        | 228.15        | 2.89        | 18.98        | 1,016.37      |
| Combined Cycle  | 911.51                                   | 49.73        | 112.77        | 4.28        | 6.77         | 1,085.07      |
| Solar           | 0.95                                     | 1,404.87     | 4,153.01      | 33.72       | -            | 5,853.84      |
| <b>Average</b>  | <b>657.78</b>                            | <b>64.10</b> | <b>115.75</b> | <b>3.70</b> | <b>14.94</b> | <b>856.28</b> |
| Rented ***)     |  |              |               |             |              | 377.27        |

\*) Including Lubricant

\*\*) Including Diesel Gas

\*\*\*) Rental cost of diesel power plant and gas turbine power plant

**Table 39 : Financial Ratios****2016**

| Indicator                                  | Unit  | 2016  |
|--|-------|-------|
| <b>I. Financial Indicators</b>             |       |       |
| - Cash                                     | %     | 0.34  |
| - Rentability Ratio                        | %     | 1.19  |
| - Solvability Ratio                        | %     | 30.89 |
| - Liquidity Ratio                          | %     | 83.02 |
| <b>II. Financial Covenant *)</b>           |       |       |
| - CICR                                     | Times | 3.1   |
| - Financial Liabilities to Total Assets    | %     | 20.3  |
| - EBITDA Interest Coverage Ratio           | Times | 3.1   |
| <b>III. Operating Activity (Financial)</b> |       |       |
| - Fixed Assets Turnover                    | Times | 0.19  |
| - Average Period or Receivable Collection  | Day   | 35.41 |
| - Receivable Turnover                      | Times | 10.31 |
| - Material Turnover                        | Times | 1.39  |

\*) For Calculating Financial Covenant based on Financial Report with excluding the impact of ISAK 8 as stated  
on Global Bonds and Trustee Local Bond Agreement

# Annual Data 2016

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

**2016**

| PLN Operational Unit/Province               | Integration<br>(0-3) | Advance<br>(4-6) | Optimazion<br>(7-10) | System<br>(11-14) | Specific<br>(15-18) | Basic<br>(19-26) | Total         |
|---|----------------------|------------------|----------------------|-------------------|---------------------|------------------|---------------|
| Region of Aceh                              | -                    | 2                | 29                   | 240               | 423                 | 438              | 1,132         |
| Region of North Sumatera                    | -                    | 2                | 28                   | 214               | 567                 | 727              | 1,538         |
| Region of West Sumatera                     | -                    | 1                | 15                   | 117               | 474                 | 429              | 1,036         |
| Region of Riau                              | 1                    | 1                | 10                   | 113               | 466                 | 480              | 1,071         |
| Region of South Sumatera, Jambi & Bengkulu  | -                    | 2                | 19                   | 129               | 483                 | 500              | 1,133         |
| Region of Bangka Belitung                   | -                    | 1                | 3                    | 48                | 170                 | 204              | 426           |
| Distribution of Lampung                     | -                    | -                | 11                   | 60                | 297                 | 312              | 680           |
| Region of West Kalimantan                   | 1                    | 1                | 14                   | 129               | 436                 | 599              | 1,180         |
| Region of S & C Kalimantan                  | -                    | -                | 22                   | 222               | 590                 | 741              | 1,575         |
| Region of East Kalimantan & North           | -                    | 2                | 18                   | 163               | 341                 | 623              | 1,147         |
| Region of N, C Sulawesi & Gorontolo         | -                    | 4                | 8                    | 185               | 583                 | 763              | 1,543         |
| Region of S, SE & W Sulawesi                | -                    | 2                | 49                   | 363               | 821                 | 916              | 2,151         |
| Region of Maluku & North Maluku             | -                    | 1                | 13                   | 95                | 393                 | 489              | 991           |
| Region of Papua                             | -                    | 1                | 11                   | 89                | 412                 | 630              | 1,143         |
| Distribution of Bali                        | -                    | 5                | 12                   | 171               | 387                 | 286              | 861           |
| Region of West Nusa Tenggara                | -                    | 1                | 10                   | 85                | 432                 | 432              | 960           |
| Region of East Nusa Tenggara                | -                    | 3                | 10                   | 83                | 398                 | 403              | 897           |
| PT PLN Batam                                | -                    | -                | -                    | -                 | -                   | -                | 294           |
| PT PLN Tarakan                              | -                    | -                | -                    | -                 | -                   | -                | 54            |
| Generating of Northern Part of Sumatera     | -                    | 2                | 16                   | 93                | 352                 | 680              | 1,143         |
| Generating of Southern Part of Sumatera     | 1                    | -                | 13                   | 121               | 621                 | 620              | 1,376         |
| Sumatera Trans, and Control Center          | -                    | 3                | 16                   | 146               | 603                 | 871              | 1,639         |
| <b>Outside Java</b>                         | <b>3</b>             | <b>34</b>        | <b>327</b>           | <b>2,866</b>      | <b>9,249</b>        | <b>11,143</b>    | <b>23,970</b> |
| Dist. of East Java                          | 1                    | 9                | 68                   | 392               | 1,292               | 872              | 2,634         |
| Dist. of Central Java & Yogyakarta          | 1                    | 7                | 56                   | 235               | 914                 | 818              | 2,031         |
| Dist. of West Java                          | -                    | 8                | 48                   | 509               | 1,158               | 902              | 2,625         |
| Dist. of Banten                             | 1                    | 2                | 9                    | 124               | 338                 | 300              | 774           |
| Dist. of Jakarta Raya & Tangerang           | 1                    | 7                | 42                   | 399               | 830                 | 491              | 1,770         |
| PT Indonesia Power                          | -                    | -                | -                    | -                 | -                   | -                | 3,332         |
| PT Java Bali Genco                          | -                    | -                | -                    | -                 | -                   | -                | 2,695         |
| Transmission of Western Part of Java        | -                    | 2                | 15                   | 141               | 390                 | 370              | 918           |
| Transmission of Central Part of Java        | -                    | 1                | 19                   | 247               | 573                 | 676              | 1,516         |
| Transmission of Eastern Part of Java & Bali | -                    | 2                | 12                   | 89                | 387                 | 529              | 1,019         |
| Distribution and Load Control Center (P2B)  | -                    | 1                | 18                   | 127               | 201                 | 116              | 463           |
| Generation of Tanjung Jati B                | 1                    | 1                | 15                   | 12                | 32                  | 16               | 77            |
| <b>Java</b>                                 | <b>5</b>             | <b>40</b>        | <b>302</b>           | <b>2,275</b>      | <b>6,115</b>        | <b>5,090</b>     | <b>19,854</b> |
| PLN Head Office                             | 42                   | 154              | 233                  | 329               | 1,129               | 239              | 2,126         |
| PLN Supporting & Service Unit               | 2                    | 30               | 111                  | 236               | 812                 | 522              | 1,713         |
| PLN Construction Unit                       | 2                    | 15               | 147                  | 276               | 1,290               | 938              | 2,668         |
| Other Subsidiaries                          | -                    | -                | -                    | -                 | -                   | -                | 827           |
| <b>Indonesia</b>                            | <b>54</b>            | <b>273</b>       | <b>1,120</b>         | <b>5,982</b>      | <b>18,595</b>       | <b>17,932</b>    | <b>51,158</b> |

**Table 41 : Number of Employees by Education****2016**

| PLN Operational Unit/Province               | <= D1-D3      | S1            | S2           | S3       | Total         |
|---|---------------|---------------|--------------|----------|---------------|
| Region of Aceh                              | 901           | 226           | 5            | -        | 1,132         |
| Region of North Sumatera                    | 1,162         | 368           | 8            | -        | 1,538         |
| Region of West Sumatera                     | 798           | 227           | 11           | -        | 1,036         |
| Region of Riau                              | 881           | 183           | 7            | -        | 1,071         |
| Region of South Sumatera, Jambi & Bengkulu  | 843           | 272           | 18           | -        | 1,133         |
| Region of Bangka Belitung                   | 314           | 103           | 9            | -        | 426           |
| Distribution of Lampung                     | 451           | 219           | 10           | -        | 680           |
| Region of West Kalimantan                   | 920           | 245           | 14           | 1        | 1,180         |
| Region of S & C Kalimantan                  | 1,235         | 323           | 17           | -        | 1,575         |
| Region of East Kalimantan & North           | 908           | 223           | 16           | -        | 1,147         |
| Region of N, C Sulawesi & Gorontolo         | 1,203         | 325           | 15           | -        | 1,543         |
| Region of S, SE & W Sulawesi                | 1,540         | 586           | 23           | 2        | 2,151         |
| Region of Maluku & North Maluku             | 852           | 132           | 7            | -        | 991           |
| Region of Papua                             | 938           | 198           | 7            | -        | 1,143         |
| Distribution of Bali                        | 584           | 260           | 17           | -        | 861           |
| Region of West Nusa Tenggara                | 757           | 195           | 8            | -        | 960           |
| Region of East Nusa Tenggara                | 735           | 152           | 10           | -        | 897           |
| PT PLN Batam                                | -             | -             | -            | -        | 294           |
| PT PLN Tarakan                              | -             | -             | -            | -        | 54            |
| Generation of Northern Part of Sumatera     | 869           | 266           | 8            | -        | 1,143         |
| Generation of Southern Part of Sumatera     | 1,093         | 275           | 8            | -        | 1,376         |
| Sumatera Trans. and Control Center          | 1,302         | 321           | 16           | -        | 1,639         |
| <b>Outside Java</b>                         | <b>18,286</b> | <b>5,099</b>  | <b>234</b>   | <b>3</b> | <b>23,970</b> |
| Dist. of East Java                          | 1,797         | 772           | 65           | -        | 2,634         |
| Dist. of Central Java & Yogyakarta          | 1,436         | 546           | 49           | -        | 2,031         |
| Dist. of West Java                          | 1,872         | 717           | 36           | -        | 2,625         |
| Dist. of Banten                             | 546           | 209           | 19           | -        | 774           |
| Dist. of Jakarta Raya & Tangerang           | 1,311         | 429           | 30           | -        | 1,770         |
| PT Indonesia Power                          | -             | -             | -            | -        | 3,332         |
| PT Java Bali Genco                          | -             | -             | -            | -        | 2,695         |
| Transmission of Western Part of Java        | 725           | 180           | 12           | 1        | 918           |
| Transmission of Central Part of Java        | 1,223         | 270           | 23           | -        | 1,516         |
| Transmission of Eastern Part of Java & Bali | 785           | 225           | 9            | -        | 1,019         |
| Distribution and Load Control Center (P2B)  | 256           | 187           | 20           | -        | 463           |
| Generation of Tanjung Jati B                | 26            | 41            | 10           | -        | 77            |
| <b>Java</b>                                 | <b>9,977</b>  | <b>3,576</b>  | <b>273</b>   | <b>1</b> | <b>19,854</b> |
| PLN Head Office                             | 543           | 1,291         | 291          | 1        | 2,126         |
| PLN Supporting & Service Unit               | 774           | 815           | 123          | 1        | 1,713         |
| PLN Construction Unit                       | 1,181         | 1,378         | 109          | 0        | 2,668         |
| Other Subsidiaries                          | -             | -             | -            | -        | 827           |
| <b>Indonesia</b>                            | <b>30,761</b> | <b>12,159</b> | <b>1,030</b> | <b>6</b> | <b>51,158</b> |

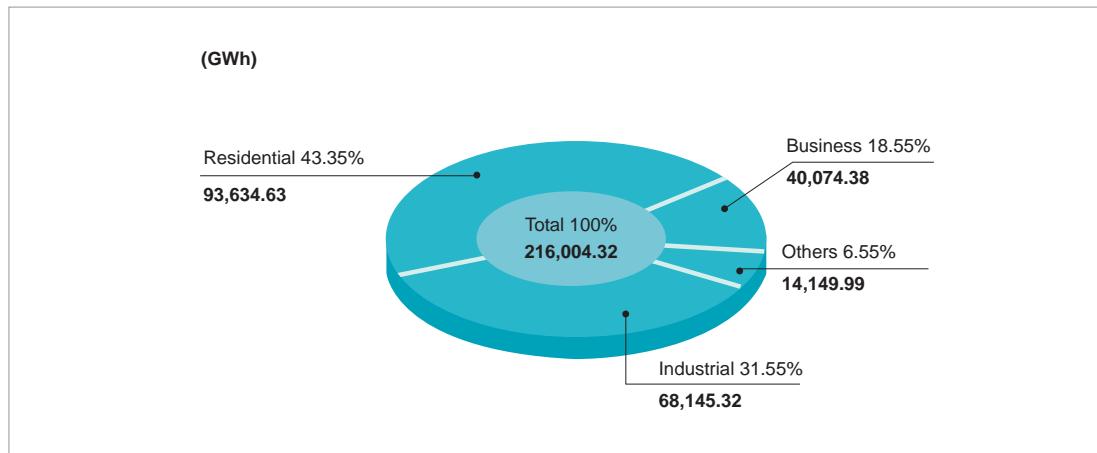
# Annual Data 2016

**Table 42 : Productivity of Employee**

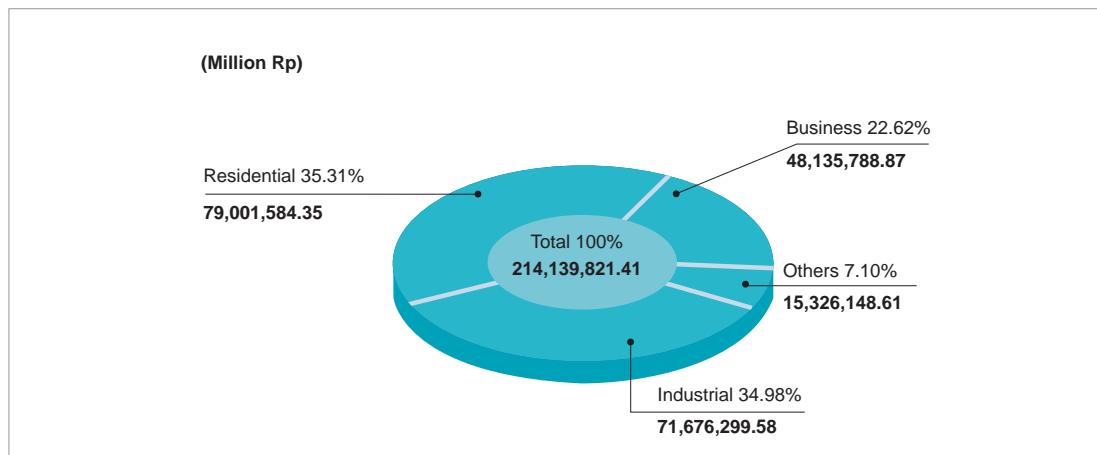
**2016**

| PLN Operational Unit/<br>Province          | Customers<br>per Employee | kWh Sold<br>per Employee |
|--|---------------------------|--------------------------|
| Region of Aceh                             | 1,145.1                   | 2,058,242                |
| Region of North Sumatera                   | 2,152.5                   | 6,008,004                |
| Region of West Sumatera                    | 1,236.2                   | 3,041,236                |
| Region of Riau                             | 1,459.4                   | 4,305,070                |
| Region of South Sumatera, Jambi & Bengkulu | 2,516.4                   | 6,095,472                |
| Region of Bangka Belitung                  | 918.8                     | 2,159,413                |
| Distribution of Lampung                    | 2,686.5                   | 5,618,088                |
| Region of West Kalimantan                  | 827.4                     | 1,831,034                |
| Region of S & C Kalimantan                 | 986.9                     | 2,168,044                |
| Region of East Kalimantan & North          | 796.7                     | 2,793,243                |
| Region of N, C Sulawesi & Gorontolo        | 903.9                     | 1,868,924                |
| Region of S, SE & W Sulawesi               | 1,156.9                   | 2,804,059                |
| Region of Maluku & North Maluku            | 507.1                     | 833,340                  |
| Region of Papua                            | 470.1                     | 1,164,978                |
| Distribution of Bali                       | 1,457.2                   | 5,922,300                |
| Region of West Nusa Tenggara               | 1,142.1                   | 1,657,625                |
| Region of East Nusa Tenggara               | 717.3                     | 924,849                  |
| Generation of Northern Part of Sumatera    | -                         | -                        |
| Generation of Southern Part of Sumatera    | -                         | -                        |
| Sumatera Trans. and Control Center         | -                         | -                        |
| <b>Outside Java</b>                        | <b>1,011.01</b>           | <b>2,434,289</b>         |
| Dist. of East Java                         | 3,996.0                   | 12,500,699               |
| Dist. of Central Java & Yogyakarta         | 5,059.0                   | 12,000,527               |
| Dist. of West Java                         | 4,764.7                   | 17,578,373               |
| Dist. of Banten                            | 3,542.7                   | 26,315,969               |
| Dist. of Jakarta Raya & Tangerang          | 2,262.7                   | 17,680,085               |
| PLN Head Office                            | -                         | -                        |
| PLN Supporting & Service Unit              | -                         | -                        |
| PLN Construction Unit                      | -                         | -                        |
| <b>J a v a</b>                             | <b>1,969.8</b>            | <b>7,627,887</b>         |
| Indonesia (without Subsidiaries)           | 1,454.6                   | 4,856,114.3              |
| PT PLN Batam                               | 1,009.7                   | 7,919,014                |
| PT PLN Tarakan                             | 905.6                     | 4,088,333                |
| PT Indonesia Power                         | -                         | -                        |
| PT Java Bali Genco                         | -                         | -                        |
| Other Subsidiaries                         | -                         | -                        |
| <b>I n d o n e s i a</b>                   | <b>1,256.5</b>            | <b>4,222,298</b>         |

**Graph 1. Energy Sold by Type of Customers (2016)**



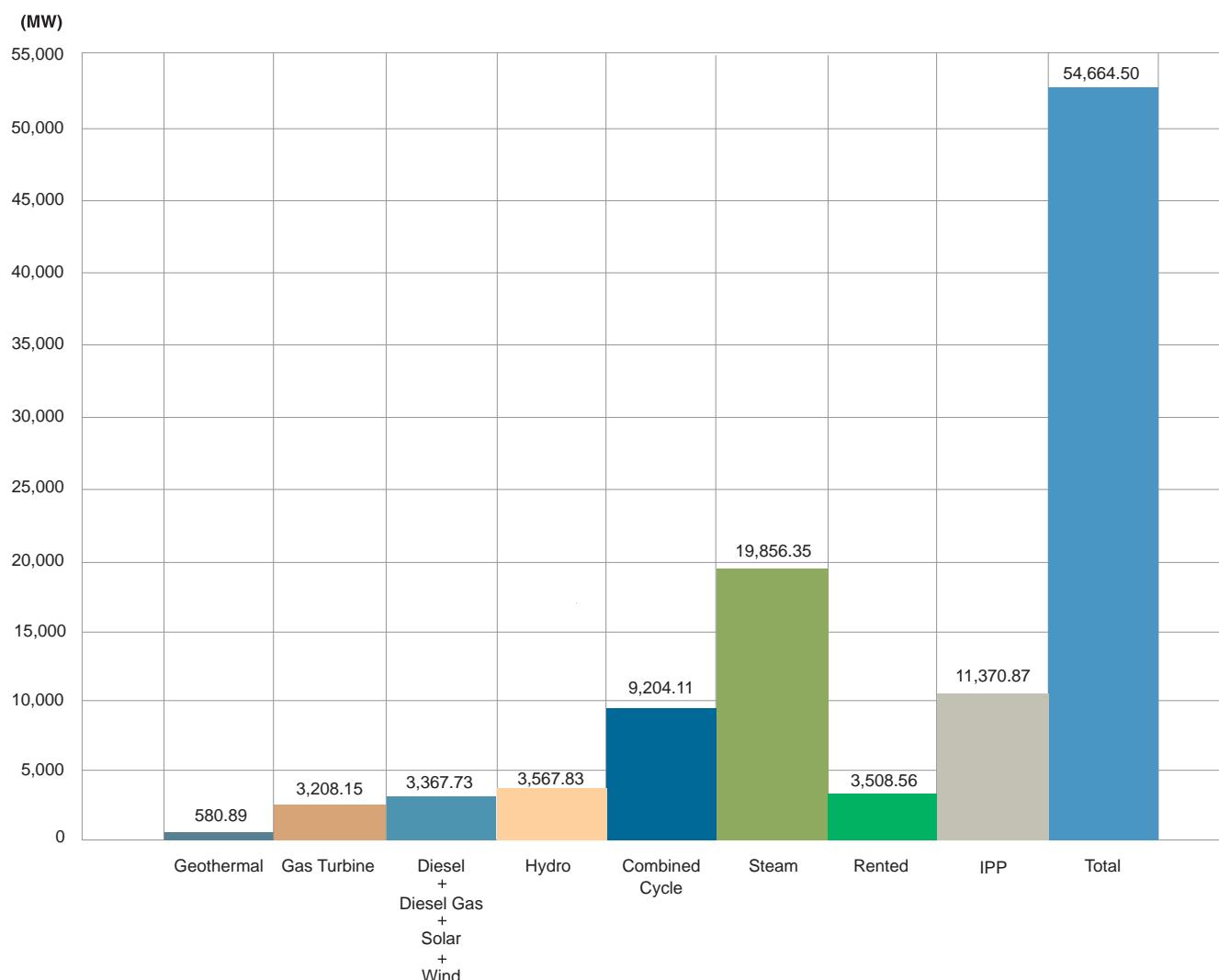
**Graph 2. Revenue (2016)**



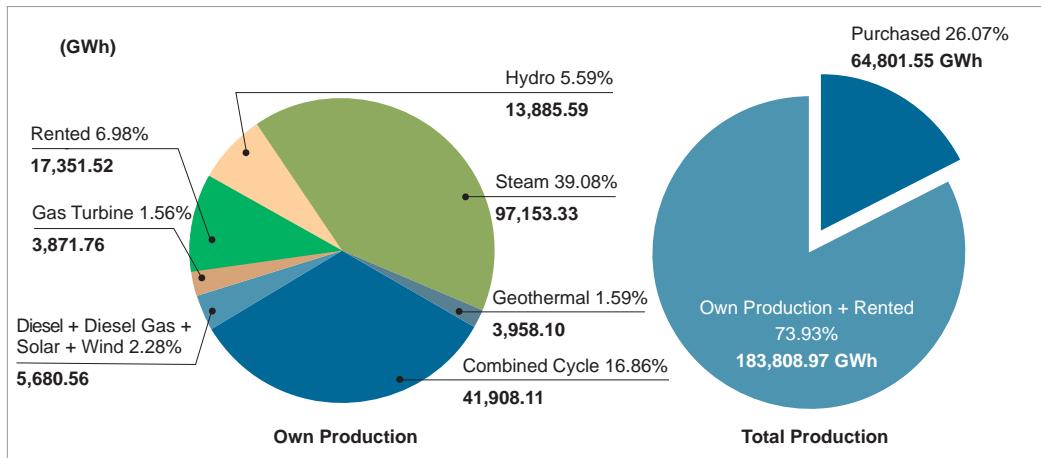
## Annual Data 2016

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**Graph 3. Installed Capacity (2016)**



**Graph 4. Energy Production (2016)**







Data Over Nine Years  
2008 - 2016





## Data Over Nine Years 2008-2016

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

**2008 - 2016**

| Y e a r | Load Factor | Capacity Factor | Demand Factor |
|---------|-------------|-----------------|---------------|
| 2008    | 80.77       | 52.62           | 28.12         |
| 2009    | 76.37       | 53.71           | 29.81         |
| 2010    | 77.78       | 55.90           | 29.56         |
| 2011    | 78.53       | 55.67           | 28.37         |
| 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         |

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

**2008 - 2016**

| Y e a r | Residential | Industrial | Business  | Social    | Gov. Office Building | Publ. Street Lighting | Total      | Δ %  |
|---------|-------------|------------|-----------|-----------|----------------------|-----------------------|------------|------|
| 2008    | 36,025,071  | 47,536     | 1,716,046 | 838,129   | 103,821              | 113,483               | 38,844,086 | 4.05 |
| 2009    | 37,099,830  | 47,900     | 1,879,429 | 861,067   | 114,971              | 114,488               | 40,117,685 | 3.28 |
| 2010    | 39,324,520  | 48,675     | 1,912,150 | 909,312   | 113,676              | 127,054               | 42,435,387 | 5.78 |
| 2011    | 42,577,542  | 50,365     | 2,049,361 | 963,766   | 120,246              | 133,865               | 45,895,145 | 8.15 |
| 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              | 171,299               | 57,493,234 | 6.48 |
| 2015    | 56,605,260  | 63,314     | 2,894,990 | 1,261,516 | 156,782              | 186,118               | 61,167,980 | 6.39 |
| 2016    | 59,243,672  | 69,629     | 3,239,764 | 1,354,010 | 169,478              | 205,940               | 64,282,493 | 5.09 |

## Data Over Nine Years 2008-2016

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

**2008 - 2016**

| Year | Residential | Industrial | Business  | Social   | Gov. Office Building | Publ. Street Lighting | Total      | Δ %   |
|------|-------------|------------|-----------|----------|----------------------|-----------------------|------------|-------|
| 2008 | 29,334.55   | 14,531.35  | 11,941.56 | 2,008.57 | 1,532.43             | 737.07                | 60,085.53  | 6.25  |
| 2009 | 30,699.90   | 14,790.21  | 12,710.06 | 2,252.72 | 1,672.67             | 768.23                | 62,893.78  | 4.67  |
| 2010 | 33,202.76   | 15,565.91  | 13,772.27 | 2,318.65 | 1,766.97             | 812.74                | 67,439.30  | 7.23  |
| 2011 | 37,182.63   | 17,477.84  | 15,236.22 | 2,558.54 | 1,894.82             | 838.80                | 75,188.86  | 11.49 |
| 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                | 93,094.85  | 10.96 |
| 2014 | 48,374.47   | 23,541.96  | 21,223.71 | 3,537.17 | 2,390.43             | 962.79                | 100,030.53 | 7.45  |
| 2015 | 51,654.89   | 25,024.02  | 22,477.28 | 3,861.60 | 2,560.54             | 1,003.91              | 106,582.24 | 6.55  |
| 2016 | 55,284.57   | 26,569.81  | 24,362.29 | 4,334.48 | 2,753.50             | 1,043.00              | 114,347.64 | 7.29  |

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

**2008 - 2016**

| Year | Residential | Industrial | Business  | Social   | Gov. Office Building | Publ. Street Lighting | Total      | Δ %   |
|------|-------------|------------|-----------|----------|----------------------|-----------------------|------------|-------|
| 2008 | 50,184.17   | 47,968.85  | 22,926.29 | 3,082.42 | 2,095.80             | 2,761.28              | 129,018.81 | 6.41  |
| 2009 | 54,945.41   | 46,204.21  | 24,825.24 | 3,384.36 | 2,334.66             | 2,888.11              | 134,581.98 | 4.31  |
| 2010 | 59,824.94   | 50,985.20  | 27,157.22 | 3,700.09 | 2,629.93             | 3,000.09              | 147,297.47 | 9.45  |
| 2011 | 65,111.57   | 54,725.82  | 28,307.21 | 3,993.82 | 2,786.72             | 3,067.52              | 157,992.66 | 7.26  |
| 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   | 64,381.40  | 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 | 93,634.63   | 68,145.32  | 40,074.38 | 6,630.79 | 4,021.61             | 3,497.59              | 216,004.32 | 8.76  |

**Table 47 : Average Energy Sold by Type of Customers (kWh)****2008 - 2016**

| Y e a r | Residential | Industrial | Business | Social | Gov. Office Building | Publ. Street Lighting | Total | Δ %   |
|---------|-------------|------------|----------|--------|----------------------|-----------------------|-------|-------|
| 2008    | 1,393       | 1,009,106  | 13,360   | 3,678  | 20,187               | 24,332                | 3,321 | 6.25  |
| 2009    | 1,481       | 964,597    | 13,209   | 3,930  | 21,088               | 24,321                | 3,355 | 4.67  |
| 2010    | 1,521       | 1,047,462  | 14,202   | 4,069  | 23,135               | 23,613                | 3,471 | 7.23  |
| 2011    | 1,529       | 1,086,584  | 13,813   | 4,144  | 23,175               | 22,915                | 3,442 | 11.49 |
| 2012    | 1,561       | 1,142,704  | 13,969   | 4,353  | 23,838               | 21,905                | 3,494 | 11.58 |
| 2013    | 1,541       | 1,159,064  | 14,265   | 4,448  | 23,669               | 20,589                | 3,473 | 10.96 |
| 2014    | 1,577       | 1,129,540  | 13,816   | 4,609  | 23,811               | 19,812                | 3,454 | 7.45  |
| 2015    | 1,567       | 1,012,089  | 12,773   | 4,709  | 23,709               | 18,526                | 3,454 | 6.55  |
| 2016    | 1,581       | 978,692    | 12,370   | 4,897  | 23,729               | 16,984                | 3,360 | 7.29  |

**Table 48 : Revenue by Type of Customers (Million Rp)****2008 - 2016**

| Y e a r | Residential | Industrial | Business   | Social    | Gov. Office Building | Publ. Street Lighting | Total       | Δ %   |
|---------|-------------|------------|------------|-----------|----------------------|-----------------------|-------------|-------|
| 2008    | 29,508,717  | 29,838,362 | 19,500,103 | 1,790,547 | 1,775,455            | 1,836,542             | 84,249,726  | 10.44 |
| 2009    | 32,380,858  | 29,771,205 | 22,116,854 | 1,955,366 | 2,032,044            | 1,915,773             | 90,172,100  | 7.03  |
| 2010    | 36,847,221  | 33,700,937 | 25,373,604 | 2,307,981 | 2,506,399            | 2,237,390             | 102,973,531 | 14.20 |
| 2011    | 40,235,456  | 38,059,555 | 26,921,435 | 2,581,448 | 2,618,957            | 2,428,002             | 112,844,853 | 9.59  |
| 2012    | 45,563,161  | 42,719,802 | 29,910,220 | 3,045,953 | 2,961,191            | 2,521,320             | 126,721,647 | 12.30 |
| 2013    | 53,434,178  | 51,270,326 | 38,520,052 | 3,738,259 | 3,561,415            | 2,961,376             | 153,485,606 | 21.12 |
| 2014    | 63,750,951  | 64,443,791 | 45,928,833 | 4,411,530 | 4,376,594            | 3,722,786             | 186,634,484 | 21.60 |
| 2015    | 74,228,270  | 73,225,020 | 47,485,994 | 4,826,716 | 4,923,417            | 5,155,124             | 209,844,540 | 12.44 |
| 2016    | 79,001,584  | 71,676,300 | 48,135,789 | 5,410,427 | 4,965,551            | 4,950,171             | 214,139,821 | 2.05  |

## Data Over Nine Years 2008 - 2016

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

**2008 - 2016**

| Year | Residential | Industrial | Business | Social | Gov. Office Building | Publ. Street Lighting | Total    |
|------|-------------|------------|----------|--------|----------------------|-----------------------|----------|
| 2008 | 588.01      | 622.04     | 850.56   | 580.89 | 847.15               | 665.11                | 653.00   |
| 2009 | 589.33      | 644.34     | 890.90   | 577.77 | 870.38               | 663.33                | 670.02   |
| 2010 | 615.92      | 660.99     | 934.32   | 623.76 | 953.03               | 745.77                | 699.09   |
| 2011 | 617.95      | 695.46     | 951.05   | 646.36 | 939.80               | 791.52                | 714.24   |
| 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   |

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

**2008 - 2016**

| Year | Voltage    |         |      |                                   | Total      | Δ %  |
|------|------------|---------|------|-----------------------------------|------------|------|
|      | Low        | Medium  | High | Multipurpose/<br>Special Services |            |      |
| 2008 | 38,796,351 | 23,901  | 61   | 23,773                            | 38,844,086 | 4.05 |
| 2009 | 39,988,090 | 92,324  | 62   | 37,209                            | 40,117,685 | 3.28 |
| 2010 | 42,395,817 | 30,763  | 60   | 8,747                             | 42,435,387 | 5.78 |
| 2011 | 45,829,980 | 65,041  | 62   | 62                                | 45,895,145 | 8.15 |
| 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 |

**Table 51 : Energy Sold by Type of Voltage (GWh)****2008 - 2016**

| Year | Voltage    |           |           |                                   | Total      | Δ %   |
|------|------------|-----------|-----------|-----------------------------------|------------|-------|
|      | Low        | Medium    | High      | Multipurpose/<br>Special Services |            |       |
| 2008 | 71,250.49  | 44,875.36 | 11,627.80 | 1,265.16                          | 129,018.81 | 6.41  |
| 2009 | 77,899.57  | 44,459.34 | 10,898.28 | 1,324.79                          | 134,581.98 | 4.31  |
| 2010 | 85,038.07  | 49,533.09 | 11,803.55 | 922.76                            | 147,297.47 | 9.45  |
| 2011 | 91,159.20  | 53,535.71 | 12,802.62 | 495.15                            | 157,992.68 | 7.26  |
| 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  |

**Table 52 : Revenue by Type of Voltage (Million Rp)****2008 - 2016**

| Year | Voltage     |            |            |                                   | Total       | Δ %   |
|------|-------------|------------|------------|-----------------------------------|-------------|-------|
|      | Low         | Medium     | High       | Multipurpose/<br>Special Services |             |       |
| 2008 | 46,932,139  | 29,988,613 | 6,103,487  | 1,225,488                         | 84,249,727  | 10.44 |
| 2009 | 51,987,115  | 30,623,517 | 6,156,149  | 1,405,319                         | 90,172,100  | 7.03  |
| 2010 | 59,782,422  | 35,168,268 | 6,816,951  | 1,205,890                         | 102,973,531 | 14.20 |
| 2011 | 64,294,933  | 40,848,085 | 7,701,835  | -                                 | 112,844,853 | 9.59  |
| 2012 | 71,438,336  | 44,156,705 | 8,372,715  | 2,753,891                         | 126,721,647 | 12.30 |
| 2013 | 84,313,921  | 55,756,540 | 9,345,648  | 4,069,498                         | 153,485,607 | 21.12 |
| 2014 | 102,520,584 | 69,033,065 | 12,353,013 | 2,727,823                         | 186,634,484 | 21.60 |
| 2015 | 117,631,504 | 77,659,563 | 13,254,127 | 1,299,347                         | 209,844,541 | 12.44 |
| 2016 | 123,459,196 | 75,683,817 | 13,954,290 | 1,042,518                         | 214,139,821 | 2.05  |

# Data Over Nine Years 2008-2016

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

**2008 - 2016**

| Year | Own Use *) |      | Energy Losses & Own Use |      |              |      |           |       |
|------|------------|------|-------------------------|------|--------------|------|-----------|-------|
|      |            |      | Transmission            |      | Distribution |      | Total     |       |
|      | (GWh)      | (%)  | (GWh)                   | (%)  | (GWh)        | (%)  | (GWh)     | (%)   |
| 2008 | 5,380.35   | 4.51 | 3,126.83                | 2.17 | 11,966.70    | 8.29 | 15,093.53 | 10.67 |
| 2009 | 5,536.04   | 4.54 | 3,303.27                | 2.18 | 11,744.32    | 7.93 | 15,358.63 | 10.13 |
| 2010 | 5,641.05   | 4.24 | 3,700.11                | 2.25 | 12,253.71    | 7.64 | 16,260.19 | 9.89  |
| 2011 | 6,164.52   | 4.32 | 3,996.39                | 2.25 | 12,675.31    | 7.34 | 16,918.14 | 9.54  |
| 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                | 2.33 | 15,841.77    | 7.77 | 21,248.73 | 10.17 |
| 2014 | 7,842.25   | 4.47 | 5,224.63                | 2.37 | 16,198.66    | 7.52 | 22,005.98 | 9.97  |
| 2015 | 8,258.61   | 4.68 | 5,248.08                | 2.33 | 16,808.81    | 7.63 | 22,588.97 | 10.01 |
| 2016 | 9,060.67   | 4.93 | 5,486.54                | 2.29 | 17,219.45    | 7.19 | 23,358.90 | 9.75  |

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

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

**2008 - 2016**

| Year      | Hydro | Steam | Gas Turbine | Combined Cycle | Geothermal | Diesel | Diesel Gas | Solar | Wind | Total | Δ %    |
|-----------|-------|-------|-------------|----------------|------------|--------|------------|-------|------|-------|--------|
| 2008      | 189   | 48    | 58          | 61             | 11         | 4,635  | 2          | -     | 4    | 5,008 | (1.26) |
| 2009      | 201   | 49    | 63          | 59             | 9          | 4,626  | 4          | -     | 3    | 5,014 | 0.16   |
| 2010      | 199   | 55    | 73          | 50             | 11         | 4,619  | 8          | 4     | 4    | 5,023 | 0.18   |
| 2011      | 213   | 59    | 71          | 61             | 10         | 4,842  | 4          | 8     | 1    | 5,269 | 4.90   |
| 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   | 104   | 72          | 65             | 15         | 4,655  | -          | 58    | 7    | 5,208 | 3.85   |
| 2016      | 232   | 107   | 75          | 66             | 15         | 4,665  | -          | 68    | 7    | 5,235 | 0.52   |

\*) 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) \*****2008 - 2016**

| Year     | Hydro    | Steam     | Gas Turbine | Combined Cycle | Geo-thermal | Diesel   | Diesel Gas | Solar | Wind | Total     | Δ %   |
|----------|----------|-----------|-------------|----------------|-------------|----------|------------|-------|------|-----------|-------|
| 2008     | 3,504.28 | 8,764.00  | 2,496.69    | 7,370.97       | 415.00      | 3,020.88 | 21.84      | -     | 0.26 | 25,593.92 | 1.47  |
| 2009     | 3,508.45 | 8,764.00  | 2,570.59    | 7,370.97       | 415.00      | 2,980.63 | 26.00      | -     | 1.06 | 25,636.70 | 0.17  |
| 2010     | 3,522.57 | 9,451.50  | 3,223.68    | 6,951.32       | 438.75      | 3,267.79 | 38.84      | 0.19  | 0.34 | 26,894.98 | 4.91  |
| 2011     | 3,511.20 | 12,052.50 | 2,839.44    | 7,833.97       | 435.00      | 2,568.54 | 25.94      | 1.23  | 0.34 | 29,268.16 | 8.82  |
| 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 | 19,087.15 | 2,981.31    | 8,894.11       | 550.89      | 3,175.77 | -          | 8.86  | 0.99 | 38,265.23 | 2.79  |
| 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  |

\*) PLN's Power Plant

\*\*) Revised Installed Capacity

**Table 56 : Rated Capacity (MW) \*****2008 - 2016**

| Year    | Hydro    | Steam     | Gas Turbine | Combined Cycle | Geo-thermal | Diesel   | Diesel Gas | Solar | Wind | Total     | Δ %    |
|---------|----------|-----------|-------------|----------------|-------------|----------|------------|-------|------|-----------|--------|
| 2008    | 3,397.87 | 7,406.12  | 2,173.79    | 6,399.79       | 394.00      | 1,796.63 | 11.90      | -     | 0.26 | 21,580.36 | (2.14) |
| 2009    | 3,419.05 | 7,976.65  | 2,236.66    | 6,340.60       | 394.00      | 1,669.11 | 10.50      | -     | 1.06 | 22,047.63 | 2.17   |
| 2010    | 3,433.78 | 8,652.01  | 2,792.87    | 6,139.72       | 415.80      | 2,071.90 | 34.60      | 0.17  | -    | 23,540.85 | 6.77   |
| 2011    | 3,430.11 | 10,844.21 | 2,357.43    | 6,817.82       | 434.00      | 1,555.20 | 10.00      | 1.15  | -    | 25,449.92 | 8.11   |
| 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**) | 3,473.17 | 16,606.74 | 2,486.42    | 7,736.23       | 516.44      | 1,902.77 | -          | 6.55  | 0.02 | 32,728.33 | 2.36   |
| 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   |

\*) PLN's Power Plant

\*\*) Revised Rated Capacity

## Data Over Nine Years 2008-2016

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

**2008 - 2016**

| Year | Own Generated |           |          |           |          |          |          |      |       |           | Purchased  | Total     | Δ %        |      |
|------|---------------|-----------|----------|-----------|----------|----------|----------|------|-------|-----------|------------|-----------|------------|------|
|      | Hydro         | Steam     | Gas      | Combined  | Geo-     | Diesel   | Diesel   | Wind | Solar | Rented    | Sub Total  |           |            |      |
|      | Turbine       | Cycle     | Cycle    | thermal   |          | Gas      |          |      |       |           |            |           |            |      |
| 2008 | 10,739.97     | 52,352.96 | 5,310.75 | 35,730.72 | 3,390.66 | 5,704.52 | 110.24   | -    | -     | 4,706.94  | 118,046.84 | 31,389.66 | 149,436.51 | 4.91 |
| 2009 | 10,306.91     | 52,963.84 | 7,818.01 | 34,746.69 | 3,504.47 | 6,093.74 | -        | 0.05 | 0.10  | 5,194.53  | 120,628.34 | 36,168.92 | 156,797.26 | 4.93 |
| 2010 | 15,827.35     | 54,407.02 | 7,861.70 | 36,811.70 | 3,398.02 | 5,096.98 | 73.56    | 0.02 | 0.50  | 8,233.21  | 131,710.07 | 38,076.16 | 169,786.23 | 8.28 |
| 2011 | 10,315.55     | 62,335.23 | 8,246.22 | 40,409.68 | 3,487.39 | 4,010.94 | 47.67    | 0.72 | -     | 13,885.67 | 142,739.07 | 40,681.87 | 183,420.94 | 8.03 |
| 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 | 1,232.81 | -    | 5.28  | 19,841.58 | 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 | 183,805.99 | 64,801.55 | 248,610.52 | 6.25 |

**Table 58 : Consumption of Fuel**

**2008 - 2016**

| Year | Oil (kilo litre) |        |            |                  |  | Total      | Coal       | Natural Gas |
|------|------------------|--------|------------|------------------|--|------------|------------|-------------|
|      | HSD              | IDO    | MFO        | Other Fuel Mix*) |  |            | (ton)      | (MMSCF)     |
| 2008 | 8,127,546        | 28,989 | 3,163,954  | -                |  | 11,320,489 | 20,999,521 | 181,661     |
| 2009 | 6,365,116        | 11,132 | 3,032,657  | -                |  | 9,408,905  | 21,604,464 | 266,539     |
| 2010 | 6,887,455        | 6,895  | 2,430,584  | -                |  | 9,324,934  | 23,958,699 | 283,274     |
| 2011 | 8,943,880        | 13,923 | 2,509,047  | -                |  | 11,466,850 | 27,434,163 | 285,722     |
| 2012 | 6,625,335        | 4,065  | 1,585,395  | -                |  | 8,214,795  | 35,514,791 | 365,927     |
| 2013 | 6,291,667        | 3,221  | 1,179,604  | -                |  | 7,474,492  | 39,601,034 | 409,890     |
| 2014 | 6,330,517        | 3,849  | 1,096,638  | -                |  | 7,431,005  | 44,604,981 | 450,190     |
| 2015 | 4,377,056        | 2,244  | 904,266    | 195,297          |  | 5,478,863  | 48,995,169 | 456,494     |
| 2016 | 3,331,124.81     | 915.07 | 947,027.22 | 387,964.87       |  | 4,667,032  | 50,556,446 | 505,125     |

\*) Including Biodiesel, Olein, and etc.

**Table 59 : Unit Price of Fuel** **2008 - 2016**

| Year | Oil (Rp/litre) *) |           |          |          | Coal     | Natural Gas | Geothermal |
|------|-------------------|-----------|----------|----------|----------|-------------|------------|
|      | HSD               | IDO       | MFO      | Average  | (Rp/kg)  | (Rp/MMSCF)  | (Rp/kWh)   |
| 2008 | 8,738.25          | 8,650.23  | 5,762.10 | 7,906.23 | 489.23   | 29,128.16   | 658.73     |
| 2009 | 5,601.07          | 5,552.33  | 4,315.86 | 5,186.76 | 732.32   | 37,998.48   | 559.63     |
| 2010 | 6,050.35          | 5,870.37  | 5,150.42 | 5,815.65 | 656.71   | 42,287.16   | 653.52     |
| 2011 | 8,513.27          | 8,229.36  | 7,027.21 | 8,188.09 | 698.62   | 39,867.31   | 737.04     |
| 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     |

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

**Table 60 : Length of Transmission Lines (kmc)** **2008 - 2016**

| Year    | Voltage    |          |           |          |          | Total     | % Growth |
|---------|------------|----------|-----------|----------|----------|-----------|----------|
|         | 25 - 30 kV | 70 kV    | 150 kV    | 275 kV   | 500 kV   |           |          |
| 2008    | 11.97      | 4,619.03 | 23,678.60 | 782.25   | 5,092.00 | 34,183.85 | 3.08     |
| 2009    | 11.97      | 4,642.18 | 24,191.60 | 1,011.39 | 5,092.00 | 34,949.14 | 2.24     |
| 2010 *) | 11.20      | 4,724.28 | 24,379.76 | 1,011.39 | 4,923.00 | 35,049.63 | 0.29     |
| 2011    | 11.96      | 4,456.69 | 26,170.79 | 1,028.30 | 5,052.00 | 36,719.74 | 4.76     |
| 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     |

\*) Revised data of 2010

## Data Over Nine Years 2008 - 2016

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

**2008 - 2016**

| Year    | Medium Voltage |            |            | Total      | Low Voltage |
|---------|----------------|------------|------------|------------|-------------|
|         | 6 - 7 kV       | 10 - 12 kV | 15 - 20 kV |            |             |
| 2008    | 278.32         | 2,968.84   | 257,916.04 | 261,163.20 | 353,762.00  |
| 2009    | 278.32         | 2,968.84   | 265,364.71 | 268,611.87 | 370,905.36  |
| 2010    | 72.73          | -          | 275,540.58 | 275,613.31 | 406,149.04  |
| 2011    | 57.74          | 242.26     | 288,419.36 | 288,719.36 | 390,704.94  |
| 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  |

\*) Revised Data for 2014 and 2015

# Data Over Nine Years 2012 - 2016

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

**2012 - 2016**

| Description                           | 2016                 | 2015 *)              | 2014 *)            | 2013 *)            | 2012               |
|---------------------------------------|----------------------|----------------------|--------------------|--------------------|--------------------|
| <b>FIXED ASSET</b>                    |                      |                      |                    |                    |                    |
| - Total Fixed Asset                   | 1,086,392,644.58     | 1,133,420,742        | 598,974,636        | 561,985,697        | 514,852,695        |
| - Accumulated Despreciation           | (45,898,346.66)      | (51,665,214)         | (193,064,264)      | (170,649,245)      | (155,345,122)      |
| Total Fixed Asset (Net)               | 1,040,494,298        | 1,081,755,528        | 405,910,372        | 391,336,453        | 359,507,573        |
| Work in Progres                       | 105,035,230          | 104,984,687          | 94,901,088         | 95,738,736         | 102,810,172        |
| Other Assets                          | 14,104,322.00        | 15,754,257.03        | 11,852,722.51      | 10,169,044.92      | 7,899,582          |
| Long Term Investment                  | -                    | -                    | -                  | -                  | -                  |
| Inclusion                             | 3,829,982.00         | 3,174,698.00         | 2,572,593.00       | 2,029,066.00       | 1,625,439          |
| Defferred Tax Assets                  | 9,882,003.00         | 29,088,271.00        | 6,688,983.75       | 8,279,554.76       | 28,759             |
| Receivables from Related Parties      | 263,064.00           | 268,647.00           | 98,829.00          | 176,032.00         | 22,329             |
| <b>CURRENT ASSETS</b>                 |                      |                      |                    |                    |                    |
| - Cash & Bank                         | 41,909,223.00        | 23,596,339.00        | 27,111,528.00      | 25,529,969.00      | 22,639,853         |
| - Government Subsidy                  | 14,844,365.00        | 17,501,009.00        | 19,280,861.00      | 21,793,929.00      | 20,565,784         |
| - Temporary Investment                | 374,771.00           | 120,059.00           | 100,696.00         | 97,667.00          | 378,208            |
| - Receivable                          | 24,122,345.00        | 20,315,908.00        | 20,361,815.00      | 20,322,053.00      | 13,371,240         |
| - Inventories                         | 11,569,596.00        | 11,415,863.00        | 11,607,860.00      | 11,343,464.00      | 16,738,446         |
| - Other Current Assets                | 8,147,032.00         | 6,395,615.00         | 6,960,978.00       | 5,750,098.00       | 3,616,625          |
| <b>Total Current Assets</b>           | <b>100,967,332</b>   | <b>79,344,793</b>    | <b>85,423,738</b>  | <b>84,837,180</b>  | <b>77,310,156</b>  |
| <b>TOTAL ASSETS</b>                   | <b>1,274,576,230</b> | <b>1,314,370,881</b> | <b>607,448,327</b> | <b>592,566,066</b> | <b>549,204,010</b> |
| <b>EQUITY</b>                         | <b>880,797,712</b>   | <b>804,783,979</b>   | <b>153,303,816</b> | <b>143,290,113</b> | <b>159,269,870</b> |
| <b>DEFERRED REVENUE</b>               | -                    | -                    | -                  | -                  | 19,228,694         |
| <b>LONG TERM LIABILITIES</b>          |                      |                      |                    |                    |                    |
| - Deferred Tax                        | 59,724.54            | 5,475.00             | 3,752,797.00       | 3,902,785.00       | 3,132,717          |
| - Long Term Liabilities               | 29,133,755.79        | 29,205,236.00        | 26,453,073.00      | 29,498,060.00      | 36,001,958         |
| - Bond Payable                        | 68,824,683.00        | 80,043,338.00        | 81,672,556.00      | 81,017,989.00      | 67,250,977         |
| - Customer Deposit                    | -                    | -                    | -                  | -                  | -                  |
| - Other Long Term Liabilities         | 17,933,075.00        | 149,621,763.00       | 128,096,528.00     | 129,718,551.00     | 107,609,232        |
| - Taxes Payable on Revaluation        | -                    | -                    | -                  | -                  | -                  |
| - Electricity Purchase Payable        | 115,094,813.34       | 93,256,797.00        | 85,532,343.00      | 82,048,995.00      | 60,017,027         |
| - Employee Benefit Obligation         | 41,110,111.00        | 37,378,472.00        | 41,078,935.97      | 33,783,614.53      | 22,090,632         |
| <b>Total Long Term Liabilities</b>    | <b>272,156,163</b>   | <b>389,511,081</b>   | <b>366,586,233</b> | <b>359,969,995</b> | <b>315,331,237</b> |
| <b>SHORT TERM LIABILTIES</b>          | <b>121,622,355</b>   | <b>120,075,818</b>   | <b>87,558,277</b>  | <b>89,305,959</b>  | <b>74,602,903</b>  |
| <b>TOTAL EQUITY &amp; LIABILITIES</b> | <b>1,274,576,230</b> | <b>1,314,370,878</b> | <b>607,448,326</b> | <b>592,566,067</b> | <b>549,204,010</b> |

Note :

\*) Financial Report 2013/2014 and 2015, used ISAK 8

## Data Over Nine Years 2011 - 2016

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

| Description                         | 2016               | 2015 **)           | 2014 *)            | 2013               | 2012               |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>OPERATION REVENUE</b>            |                    |                    |                    |                    |                    |
| - Electricity Sales                 | 214,139,834        | 209,844,541        | 186,634,484        | 153,485,606        | 126,721,647        |
| - Connection Fees                   | 7,052,136          | 6,141,335          | 5,623,913          | 6,027,799          | 5,755,017          |
| - Government Subsidiary             | 60,441,520         | 56,552,532         | 99,303,250         | 101,207,859        | 103,331,285        |
| - Others                            | 1,629,986          | 1,361,114          | 1,159,544          | 1,125,778          | 1,297,061          |
| <b>Total Operation Revenue</b>      | <b>283,263,477</b> | <b>273,899,522</b> | <b>292,721,191</b> | <b>261,847,042</b> | <b>237,105,010</b> |
| <b>OPERATION COST</b>               |                    |                    |                    |                    |                    |
| - Electricity Purchase              | 66,274,504         | 12,486,381         | 53,517,212         | 10,507,935         | 9,903,607          |
| - Fuel & Lubricant Oil              | 109,492,383        | 138,408,315        | 153,136,934        | 147,633,751        | 136,535,495        |
| - Maintenance                       | 21,226,736         | 21,861,310         | 16,611,461         | 19,839,465         | 17,567,375         |
| - Personnel                         | 22,659,965         | 20,321,137         | 16,645,797         | 15,555,063         | 14,400,976         |
| - Depreciation                      | 27,512,150         | 25,406,856         | 19,911,211         | 21,893,665         | 19,499,221         |
| - Others                            | 7,284,064          | 7,090,077          | 5,488,617          | 5,481,268          | 5,208,776          |
| <b>Total Operation Cost</b>         | <b>254,449,802</b> | <b>225,574,076</b> | <b>265,311,232</b> | <b>220,911,147</b> | <b>203,115,450</b> |
| <b>PROFIT (LOSS) FROM OPERATION</b> | <b>28,813,675</b>  | <b>48,325,446</b>  | <b>27,409,959</b>  | <b>40,935,895</b>  | <b>33,989,560</b>  |

\*) Restute of Financial Statement Using ISAK 27

\*\*) Data ISAK 8

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

| Year | Saldo            | Accumulated Depreciation | Book Value       |
|------|------------------|--------------------------|------------------|
| 2011 | 374,790,709.35   | 113,564,502.36           | 261,226,206.99   |
| 2012 | 507,560,495.64   | 149,536,012.04           | 358,024,483.60   |
| 2013 | 561,985,697.48   | 170,649,244.61           | 391,336,452.87   |
| 2014 | 598,974,636.42   | 193,064,264.04           | 405,910,372.38   |
| 2015 | 1,028,107,313.10 | 18,579,384.39            | 1,009,527,928.71 |
| 2016 | 706,313,755.01   | 33,796,573.46            | 672,517,181.55   |

**Table 65 : Accounts Receivable (million Rp)****2011 - 2016**

| Y e a r | Public        | Armed<br>Forced | Non Armed<br>Forced | Local<br>Government | BUMN       | Total         |
|---------|---------------|-----------------|---------------------|---------------------|------------|---------------|
| 2011    | 1,926,977.52  | 842,147.12      | 79,163.71           | 158,296.76          | 7,739.59   | 3,014,324.70  |
| 2012    | 2,399,432.04  | 362,994.37      | 54,274.06           | 114,025.32          | 36,639.52  | 2,967,365.31  |
| 2013    | 13,842,868.33 | 339,872.34      | 218,005.85          | 554,161.61          | 409,167.09 | 15,364,075.22 |
| 2014    | 17,031,942.69 | 455,731.61      | 276,433.49          | 798,016.32          | 584,801.85 | 19,146,925.96 |
| 2015    | 17,248,565.63 | 430,669.90      | 295,618.58          | 834,308.66          | 531,635.60 | 19,340,798.37 |
| 2016    | 20,475,894.69 | 603,381.57      | 287,610.55          | 833,577.53          | 568,122.63 | 22,768,586.97 |

**Table 66 : Sales, Accounts Receivable and Average Collection Rate****2011 - 2016**

| Y e a r | Sales<br>(Million Rp) | Account Receivable *)<br>(Million Rp) | Average<br>(day) |
|---------|-----------------------|---------------------------------------|------------------|
| 2011    | 112,844,853.12        | 3,014,324.70                          | 9.75             |
| 2012    | 126,721,646.51        | 2,967,365.31                          | 8.55             |
| 2013    | 153,485,606.31        | 15,364,075.22                         | 36.54            |
| 2014    | 186,634,484.31        | 19,146,925.96                         | 37.45            |
| 2015    | 209,844,540.77        | 19,340,798.37                         | 33.64            |
| 2016    | 214,139,821.41        | 22,768,586.97                         | 38.81            |

\*) Including PLN Head Office

## Data Over Nine Years 2011 - 2016

**Table 67 : Generation Cost (million Rp)**

**2011 - 2016**

| Year | Hydro        | Steam         | Diesel        | Gas           | Geothermal   | Combined Cycle | Solar     | Total          |
|------|--------------|---------------|---------------|---------------|--------------|----------------|-----------|----------------|
| 2011 | 1,607,087.88 | 36,682,295.71 | 36,928,630.82 | 18,644,398.55 | 2,764,130.18 | 38,816,866.09  | -         | 135,443,409.23 |
| 2012 | 1,640,491.16 | 59,807,140.65 | 46,834,465.69 | 13,393,423.26 | 3,989,768.54 | 34,630,859.12  | -         | 160,296,148.42 |
| 2013 | 2,168,221.59 | 58,227,841.65 | 49,114,692.52 | 17,479,043.27 | 4,794,821.53 | 42,222,186.70  | -         | 174,006,807.26 |
| 2014 | 2,112,022.86 | 64,828,004.01 | 59,041,171.65 | 15,753,283.85 | 5,600,458.56 | 50,849,452.45  | -         | 198,184,393.39 |
| 2015 | 2,112,864.50 | 51,910,454.98 | 33,995,897.31 | 11,383,094.48 | 3,863,825.85 | 40,833,899.69  | 34,976.64 | 144,135,013.45 |
| 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  | 34,244.97 | 142,533,543.07 |

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

**2011 - 2016**

| Year   | Hydro  | Steam  | Diesel   | Gas      | Geothermal | Combined Cycle | Solar    | Average  |
|--------|--------|--------|----------|----------|------------|----------------|----------|----------|
| 2011*) | 155.79 | 588.47 | 2,536.85 | 2,260.96 | 792.61     | 960.58         | -        | 1,051.14 |
| 2012   | 155.87 | 810.14 | 3,168.58 | 2,362.99 | 1,121.50   | 1,001.80       | -        | 1,217.28 |
| 2013   | 166.66 | 719.52 | 3,286.13 | 2,954.28 | 1,103.50   | 1,159.20       | -        | 1,206.67 |
| 2014   | 189.19 | 726.37 | 3,064.30 | 2,892.80 | 1,306.88   | 1,335.74       | -        | 1,296.73 |
| 2015   | 211.19 | 541.78 | 7,969.86 | 3,306.22 | 879.83     | 1,054.99       | 6,624.36 | 920.22   |
| 2016   | 271.90 | 532.38 | 1,828.39 | 3,103.64 | 1,016.37   | 1,085.07       | 5,853.84 | 856.28   |

\*) 2011 excluding rent generation

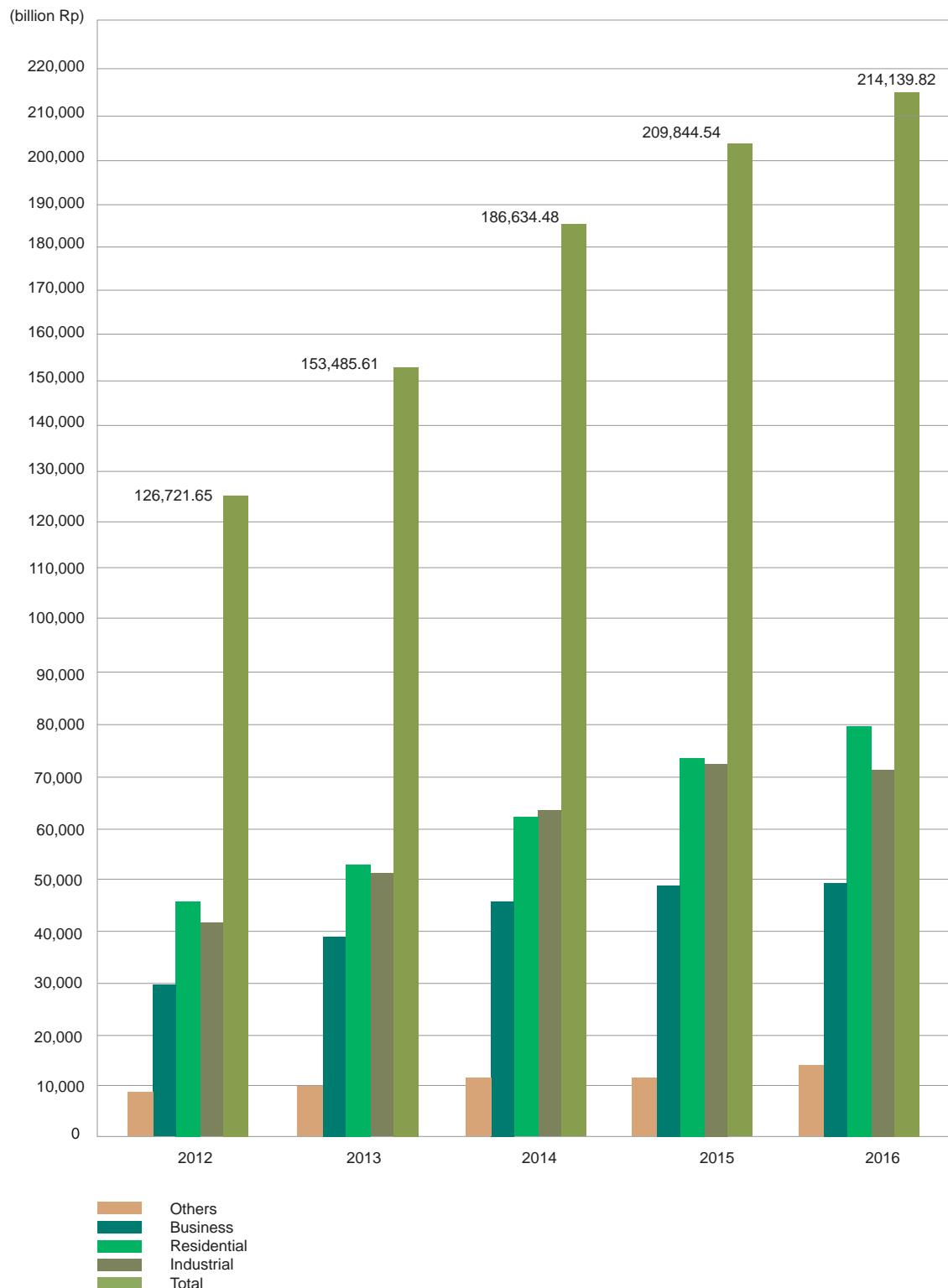
**Table 69 : Financial Ratios****2012 - 2016**

| Indicator                                  | Unit  | 2016  | 2015  | 2014  | 2013   | 2012   |
|--|-------|-------|-------|-------|--------|--------|
| <b>I. Financial Indicator</b>              |       |       |       |       |        |        |
| - Cash Ratio                               | %     | 0.34  | 0.20  | 0.32  | 0.29   | 0.30   |
| - Rentability Ratio                        | %     | 1.19  | 1.84  | 7.48  | (4.65) | 6.58   |
| - Solvability Ratio                        | %     | 30.89 | 30.89 | 65.31 | 66.73  | 61.87  |
| - Liquidity Ratio                          | %     | 83.02 | 67.81 | 99.88 | 96.87  | 103.66 |
| <b>II. Financial Covenant *)</b>           |       |       |       |       |        |        |
| - CICR                                     | Times | 3.11  | 3.00  | 3.10  | 3.60   | 3.60   |
| - Financial Liabilities to Total Assets    | %     | 20.30 | 20.50 | 43.30 | 45.80  | 42.30  |
| - EBITDA Interest Coverage Ratio           | Times | 3.10  | 2.90  | 3.00  | 3.60   | 3.60   |
| <b>III. Operating Activity (Financial)</b> |       |       |       |       |        |        |
| - Fixed Assets Turnover                    | Times | 0.19  | 0.27  | 0.43  | 0.37   | 0.33   |
| - Average Period of Receivable Collection  | Day   | 35.41 | 34.20 | 34.41 | 33.55  | 35.57  |
| - Receivable Turnover                      | Times | 10.31 | 10.67 | 10.61 | 10.88  | 10.26  |
| - Material Turnover                        | Times | 1.39  | 1.44  | 1.25  | 1.16   | 0.97   |

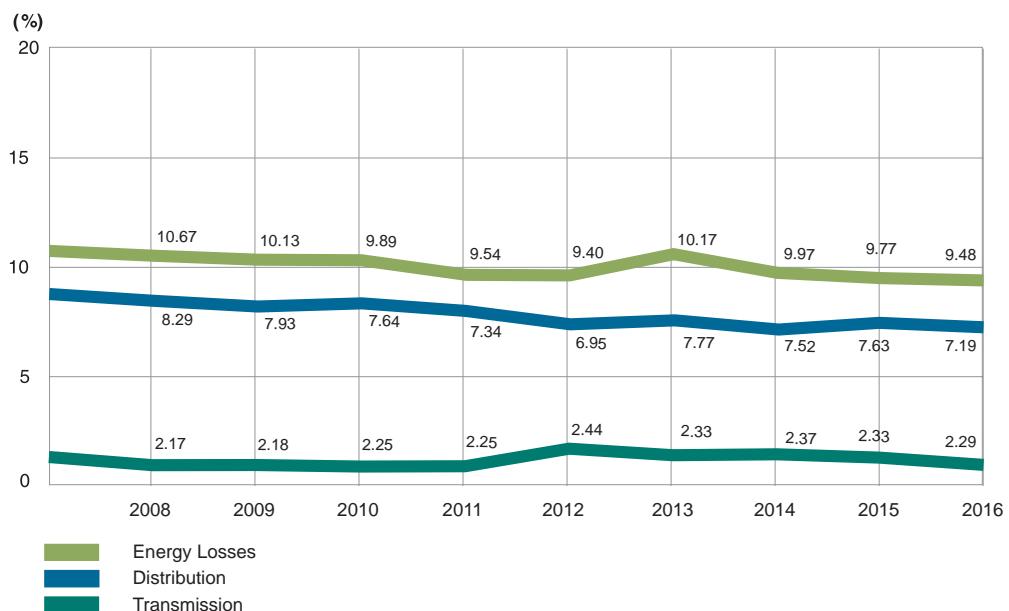
\*) For Calculating Financial Covenant based on Financial Report with excluding the impact of ISAK 8 as stated on Global Bonds and Trustee Local Bond Agreement

## Data Over Nine Years 2008 - 2016

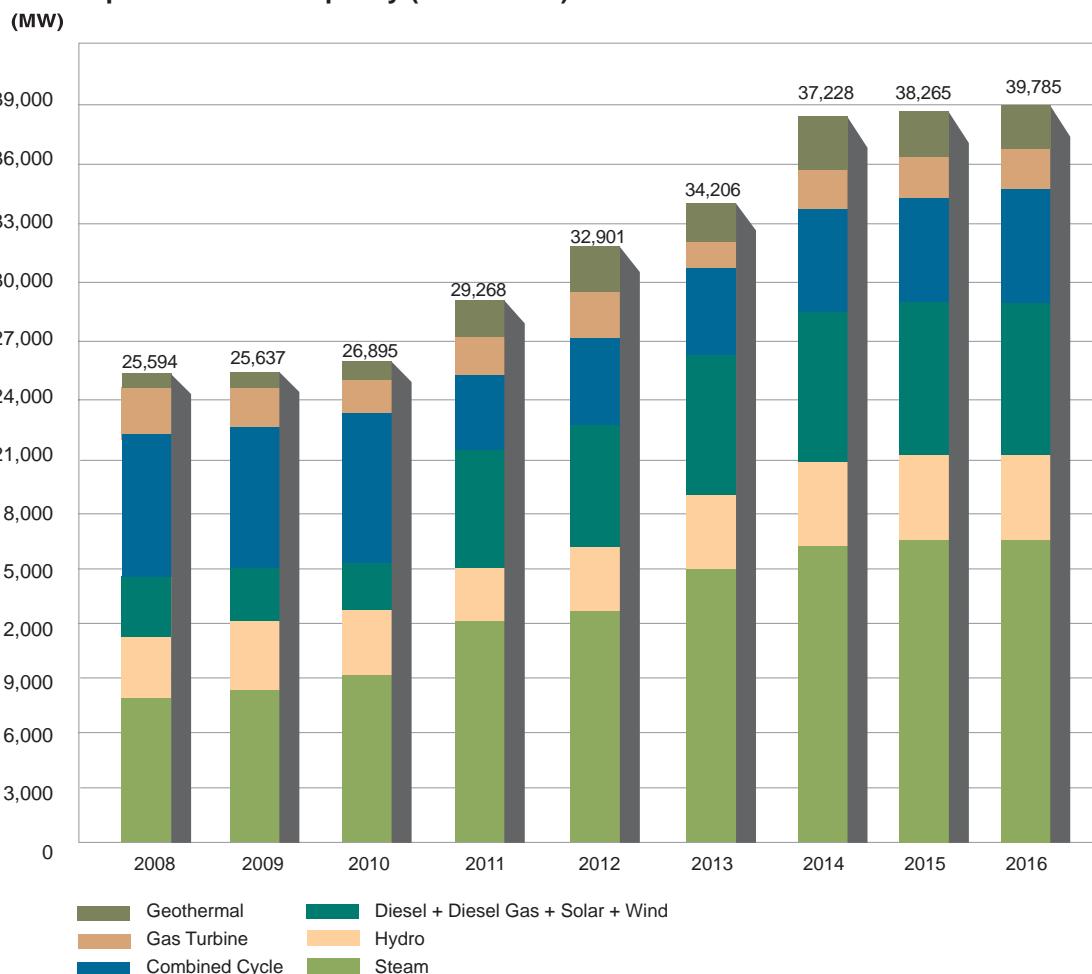
**Graph 5. Revenues (2012 - 2016)**



**Graph 6. Energy Losses (2008 - 2016)**

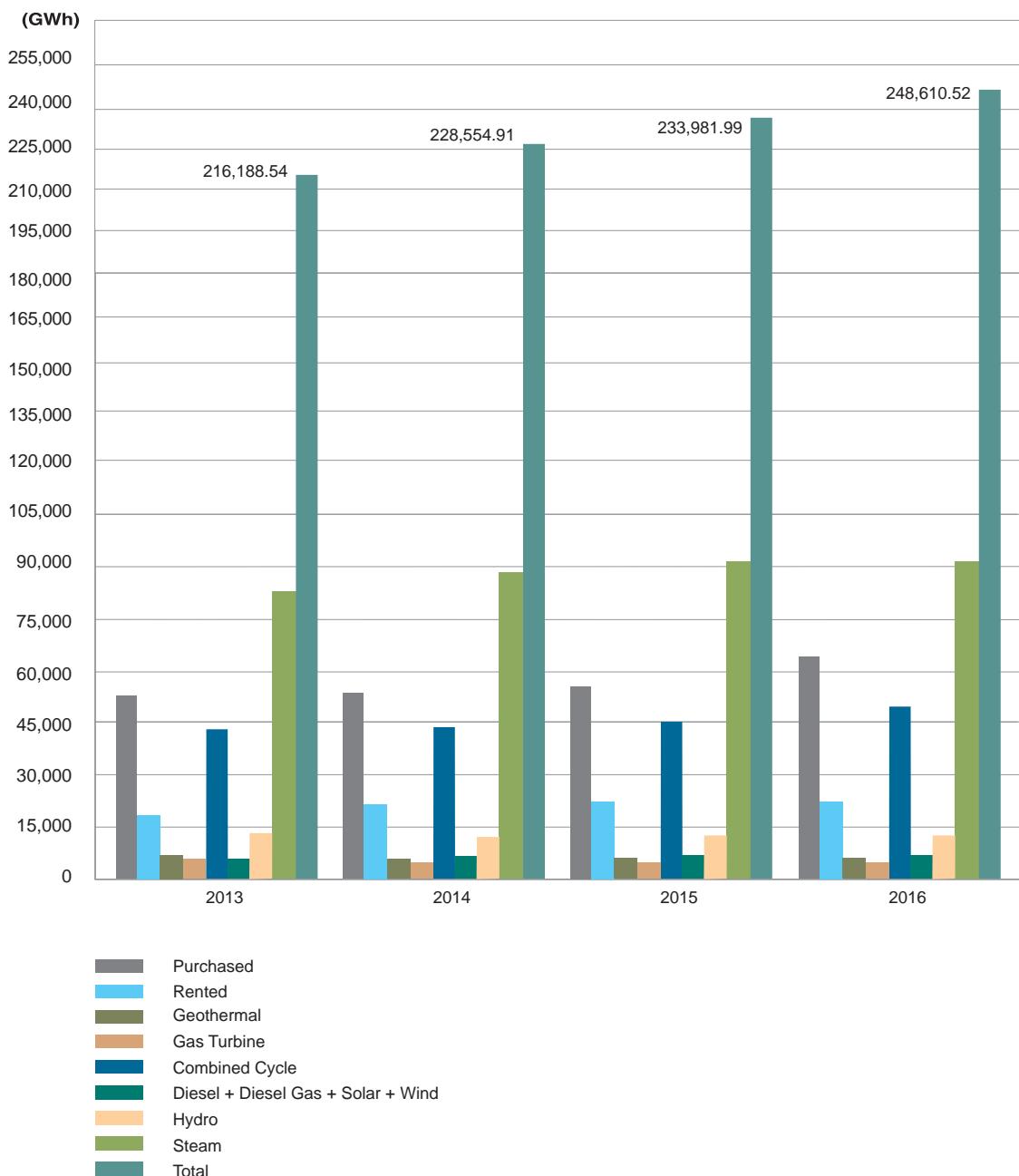


**Graph 7. Installed Capacity (2008 - 2016)**



## Data Over Nine Years 2008 - 2016

**Graph 8. Energy Production (2013 - 2016)**





End of Five Year  
(Development  
Plan Data)





## End of Five Year Development Plan Data

**Table 70 : Number of Customers**

**2016**

| Type of Customer | End of<br>FYDP I<br>(1973/74) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| - Residential    | 913,940                       | 1,584,851                      | 4,046,692                       | 8,665,543                      | 4,191,414                     | 24,902,762                         | 59,243,672   |
| - Industrial     | 7,145                         | 8,087                          | 16,879                          | 27,773                         | 38,769                        | 43,088                             | 69,629       |
| - Business       | 78,080                        | 145,588                        | 239,277                         | 356,942                        | 514,816                       | 847,940                            | 3,239,764    |
| - Others         | 32,977                        | 44,721                         | 103,229                         | 225,680                        | 412,410                       | 639,698                            | 1,729,428    |
| Total            | 1,032,142                     | 1,783,247                      | 4,406,077                       | 9,275,938                      | 15,157,409                    | 26,433,489                         | 64,282,493   |

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

**2016**

| Type of Customer | FYDP I | FYDP II | FYDP III | FYDP IV | FYDP V | FYDP VI *) | 2000-2016 |
|------------------|--------|---------|----------|---------|--------|------------|-----------|
| - Residential    | 3.05   | 11.64   | 20.62    | 16.45   | 8.00   | 10.97      | 5.08      |
| - Industrial     | (0.55) | 2.51    | 15.85    | 10.47   | 4.20   | 1.62       | 2.86      |
| - Business       | 7.17   | 13.27   | 10.45    | 8.33    | 6.53   | 11.89      | 7.21      |
| - Others         | 10.75  | 6.28    | 18.21    | 16.93   | 10.36  | 8.94       | 5.90      |
| Total            | 3.51   | 11.56   | 19.83    | 16.05   | 8.00   | 10.93      | 5.19      |

\*) to the end of year 1999

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

**2016**

| Type of Customer | End of<br>FYDP I<br>(1973/74) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| - Residential    | 398.66                        | 992.56                         | 2,648.60                        | 5,397.11                       | 8,914.86                      | 15,887.50                          | 55,284.57    |
| - Industrial     | 422.55                        | 973.92                         | 1,857.77                        | 4,080.31                       | 7,781.84                      | 10,698.91                          | 26,569.81    |
| - Business       | 141.06                        | 307.91                         | 770.00                          | 1,382.57                       | 2,780.64                      | 5,665.04                           | 24,362.29    |
| - Others         | 114                           | 184.66                         | 850.29                          | 1,373.75                       | 1,758.99                      | 2,344.39                           | 8,130.97     |
| Total            | 1,076.27                      | 2,459.05                       | 6,126.66                        | 12,233.74                      | 21,236.33                     | 34,595.84                          | 114,347.64   |

## End of Five Year Development Plan Data

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

| Type of Customer | FYDP I | FYDP II | FYDP III | FYDP IV | FYDP V | FYDP VI *) | 2000-2016 |
|------------------|--------|---------|----------|---------|--------|------------|-----------|
| - Residential    | 10.81  | 20.01   | 21.69    | 15.30   | 8.27   | 11.93      | 7.05      |
| - Industrial     | 18.24  | 18.18   | 13.79    | 17.04   | 9.50   | 5.90       | 5.44      |
| - Business       | 9.33   | 16.90   | 20.12    | 12.42   | 12.18  | 14.20      | 8.66      |
| - Others         | 8.06   | 10.13   | 35.72    | 10.07   | 3.68   | 5.43       | 7.91      |
| Total            | 12.81  | 17.97   | 20.03    | 14.83   | 8.74   | 9.73       | 6.98      |

\*) to the end of year 1999

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

| Type of Customer | End of<br>FYDP I<br>(1973/74) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| - Residential    | 1,077.30                      | 1,962.20                       | 4,291.50                        | 7,274.63                       | 13,140.74                     | 24,865.45                          | 93,634.63    |
| - Industrial     | 596.00                        | 1,443.40                       | 3,435.90                        | 9,052.24                       | 19,560.98                     | 27,995.54                          | 68,145.32    |
| - Business       | 220.90                        | 430.90                         | 1,002.50                        | 1,740.14                       | 3,774.97                      | 8,655.96                           | 40,074.38    |
| - Others         | 320.80                        | 450.40                         | 1,269.80                        | 1,925.83                       | 2,485.34                      | 3,744.46                           | 14,149.99    |
| Total            | 2,215.00                      | 4,286.90                       | 9,999.70                        | 19,992.84                      | 38,962.03                     | 65,261.41                          | 216,004.32   |

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

| Type of Customer | FYDP I | FYDP II | FYDP III | FYDP IV | FYDP V | FYDP VI *) | 2000-2016 |
|------------------|--------|---------|----------|---------|--------|------------|-----------|
| - Residential    | 9.68   | 12.74   | 16.94    | 11.13   | 10.61  | 13.25      | 7.25      |
| - Industrial     | 21.20  | 19.35   | 18.94    | 21.38   | 11.36  | 8.54       | 4.44      |
| - Business       | 13.25  | 14.30   | 18.39    | 11.66   | 13.73  | 17.04      | 8.68      |
| - Others         | 12.38  | 7.02    | 23.03    | 8.69    | 3.52   | 7.61       | 8.20      |
| Total            | 12.96  | 14.12   | 18.46    | 14.86   | 10.70  | 11.09      | 6.47      |

\*) to the end of year 1999

**Table 76 : Energy Losses (%)****2016**

| Function     | First Year<br>FYDP II<br>(1974/75) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|--------------|------------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| Transmission | 3.90                               | 3.50                           | 3.90                            | 3.01                           | 2.54                          | 2.35                               | 2.29         |
| Distribution | 19.90                              | 18.30                          | 16.90                           | 13.87                          | 9.99                          | 9.99                               | 7.19         |
| Total        | 23.80                              | 21.80                          | 20.80                           | 16.88                          | 12.53                         | 12.34                              | 9.48         |

**Table 77 : Installed Capacity (MW)****2016**

| Type of Generating | End of<br>FYDP I<br>(1973/74) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|--------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| - Hydro            | 278.77                        | 349.67                         | 536.44                          | 1,969.57                       | 2,178.75                      | 3,006.76                           | 3,567.83     |
| - Steam            | 225.00                        | 556.25                         | 1,556.25                        | 3,416.95                       | 4,690.60                      | 6,770.60                           | 19,856.35    |
| - Gas Turbine      | 42.00                         | 882.07                         | 1,027.92                        | 1,233.68                       | 995.92                        | 1,347.41                           | 3,208.15     |
| - Combined Cycle   | -                             | -                              | -                               | -                              | 3,411.31                      | 6,560.97                           | 9,204.11     |
| - Geothermal       | -                             | -                              | 30.00                           | 140.00                         | 195.00                        | 360.00                             | 580.89       |
| - Diesel***)       | 230.31                        | 500.40                         | 784.39                          | 1,769.02                       | 2,128.46                      | 2,535.02                           | 3,353.80     |
| - Diesel Gas*)     | -                             | -                              | -                               | -                              | -                             | -                                  | -            |
| - Wind**)          | -                             | -                              | -                               | -                              | -                             | -                                  | 0.99         |
| - Solar            | -                             | -                              | -                               | -                              | -                             | -                                  | 12.94        |
| Total              | 776.08                        | 2,288.38                       | 3,934.99                        | 8,529.22                       | 13,600.05                     | 20,580.76                          | 39,785.06    |

\*) Since year 2004

\*\*) Since year 2007

\*\*\*) The installed capacity of diesel including diesel gas

**Table 78 : Average Growth Rate of Installed Capacity per Year (%)****2016**

| Type of Generating | FYDP I | FYDP II | FYDP III | FYDP IV | FYDP V | FYDP VI *) | 2000 - 2016 |
|--------------------|--------|---------|----------|---------|--------|------------|-------------|
| - Hydro            | 9.90   | 2.90    | 10.72    | 29.71   | 2.00   | 5.81       | 1.06        |
| - Steam            | 12.50  | 2.13    | 44.16    | 17.03   | 3.51   | 6.59       | 6.96        |
| - Gas Turbine      | -      | 81.57   | 4.40     | 3.72    | (4.19) | 7.58       | 6.32        |
| - Combined Cycle   | -      | -       | -        | -       | 60.19  | 11.20      | 1.85        |
| - Geothermal       | -      | -       | -        | 36.08   | 6.85   | 11.25      | 3.04        |
| - Diesel           | 3.90   | 14.91   | 11.19    | 17.66   | 3.47   | 3.88       | 1.73        |
| - Diesel Gas **)   | -      | -       | -        | -       | -      | -          | -           |
| - Wind***)         | -      | -       | -        | -       | -      | -          | -           |
| - Solar            | -      | -       | -        | -       | -      | -          | -           |
| Total              | 9.30   | 24.12   | 11.45    | 16.73   | 8.40   | 7.48       | 4.15        |

\*) to the end of year 1999

\*\*) Since year 2004

\*\*\*) Since year 2007

## End of Five Year Development Plan Data

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

**2016**

| Type of Generating | End of<br>FYDP I<br>(1973/74) | End of<br>FYDP II<br>(1978/79) | End of<br>FYDP III<br>(1983/84) | End of<br>FYDP IV<br>(1988/89) | End of<br>FYDP V<br>(1993/94) | Fifth Year of<br>FYDP VI<br>(1998) | Year<br>2016 |
|--------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|------------------------------------|--------------|
| Own Production :   |                               |                                |                                 |                                |                               |                                    |              |
| - Hydro            | 1,029.58                      | 1,384.28                       | 1,816.27                        | 5,226.86                       | 7,858.66                      | 9,649.00                           | 13,885.59    |
| - Steam            | 713.45                        | 1,523.10                       | 7,365.49                        | 14,218.38                      | 21,784.23                     | 30,512.37                          | 97,153.33    |
| - Gas Turbine      | 158.32                        | 1,156.73                       | 1,065.60                        | 1,581.98                       | 2,609.44                      | 1,395.50                           | 3,871.76     |
| - Combined Cycle   | -                             | -                              | -                               | -                              | 7,794.75                      | 24,940.78                          | 41,908.11    |
| - Geothermal       | -                             | -                              | 209.31                          | 1,011.96                       | 1,090.00                      | 2,616.80                           | 3,958.10     |
| - Diesel           | 467.90                        | 845.53                         | 1,654.13                        | 2,900.87                       | 4,331.51                      | 5,306.55                           | 3,062.34     |
| - Diesel Gas       | -                             | -                              | -                               | -                              | -                             | -                                  | 2,612.37     |
| - Wind             | -                             | -                              | -                               | -                              | -                             | -                                  | -            |
| - Solar            | -                             | -                              | -                               | -                              | -                             | -                                  | 5.85         |
| - Rented           | -                             | -                              | -                               | -                              | -                             | 543.61                             | 17,351.52    |
| Sub Total          | 2,369.25                      | 4,909.63                       | 12,110.81                       | 24,940.05                      | 45,468.59                     | 74,964.61                          | 183,808.97   |
| Purchased          | 636.73                        | 813.18                         | 1,281.02                        | 682.71                         | 1,250.17                      | 2,938.76                           | 64,801.55    |
| Total Production   | 3,005.98                      | 5,722.82                       | 13,391.83                       | 25,622.75                      | 46,718.76                     | 77,903.37                          | 248,610.52   |

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

**2016**

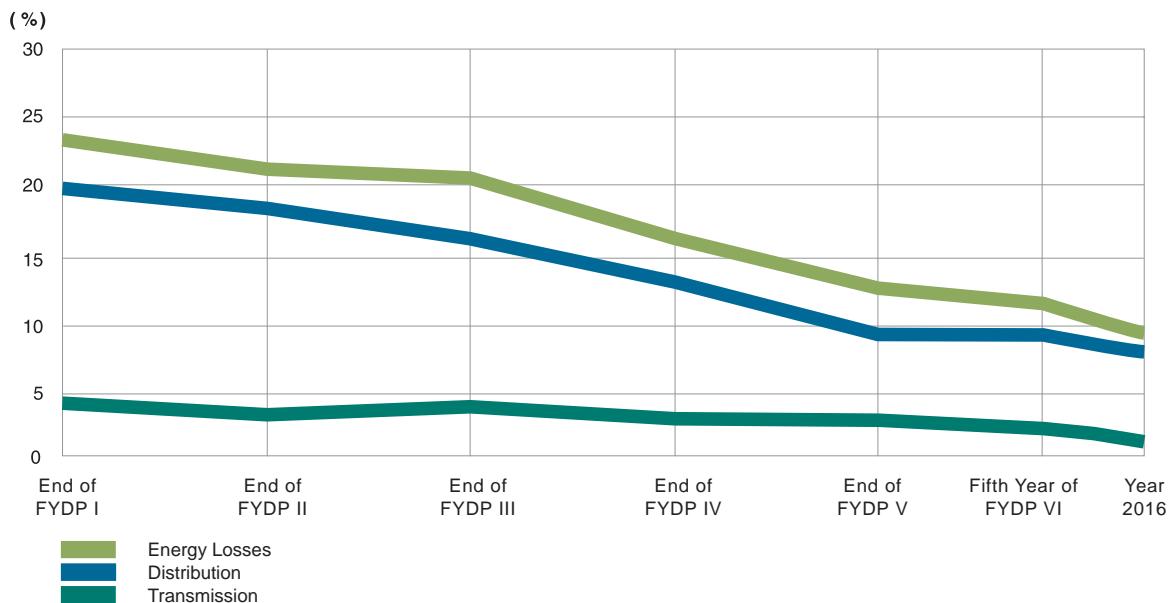
| Production       | FYDP I | FYDP II | FYDP III | FYDP IV | FYDP V | FYDP VI *) | 2000 - 2016 |
|------------------|--------|---------|----------|---------|--------|------------|-------------|
| Own Production : |        |         |          |         |        |            |             |
| - Hydro          | 6.33   | 6.10    | 5.58     | 23.54   | 3.43   | 3.11       | 2.67        |
| - Steam          | 20.05  | 16.37   | 37.05    | 14.06   | 5.73   | 8.05       | 5.97        |
| - Gas Turbine    | 16.15  | 48.85   | (1.63)   | 8.22    | 12.40  | (8.61)     | 7.31        |
| - Combined Cycle | -      | -       | -        | -       | 109.54 | 24.15      | 2.93        |
| - Geothermal     | -      | -       | -        | 37.05   | 1.60   | 17.30      | 2.54        |
| - Diesel         | 12.18  | 12.56   | 14.36    | 11.89   | 6.53   | 3.66       | (3.77)      |
| - Diesel Gas **) | -      | -       | -        | -       | -      | -          | -           |
| - Wind***)       | -      | -       | -        | -       | -      | -          | -           |
| - Solar ***)     | -      | -       | -        | -       | -      | -          | -           |
| - Rented         | -      | -       | -        | -       | -      | -          | 22.37       |
| Sub Total        | 11.39  | 15.69   | 19.79    | 15.54   | 9.61   | 10.44      | 5.00        |
| Purchased        | 11.19  | 5.01    | 9.52     | (11.83) | 8.38   | 23.86      | 13.03       |
| Total Production | 11.34  | 13.74   | 18.53    | 13.86   | 9.58   | 10.92      | 6.32        |

\*) To the end of year 1999

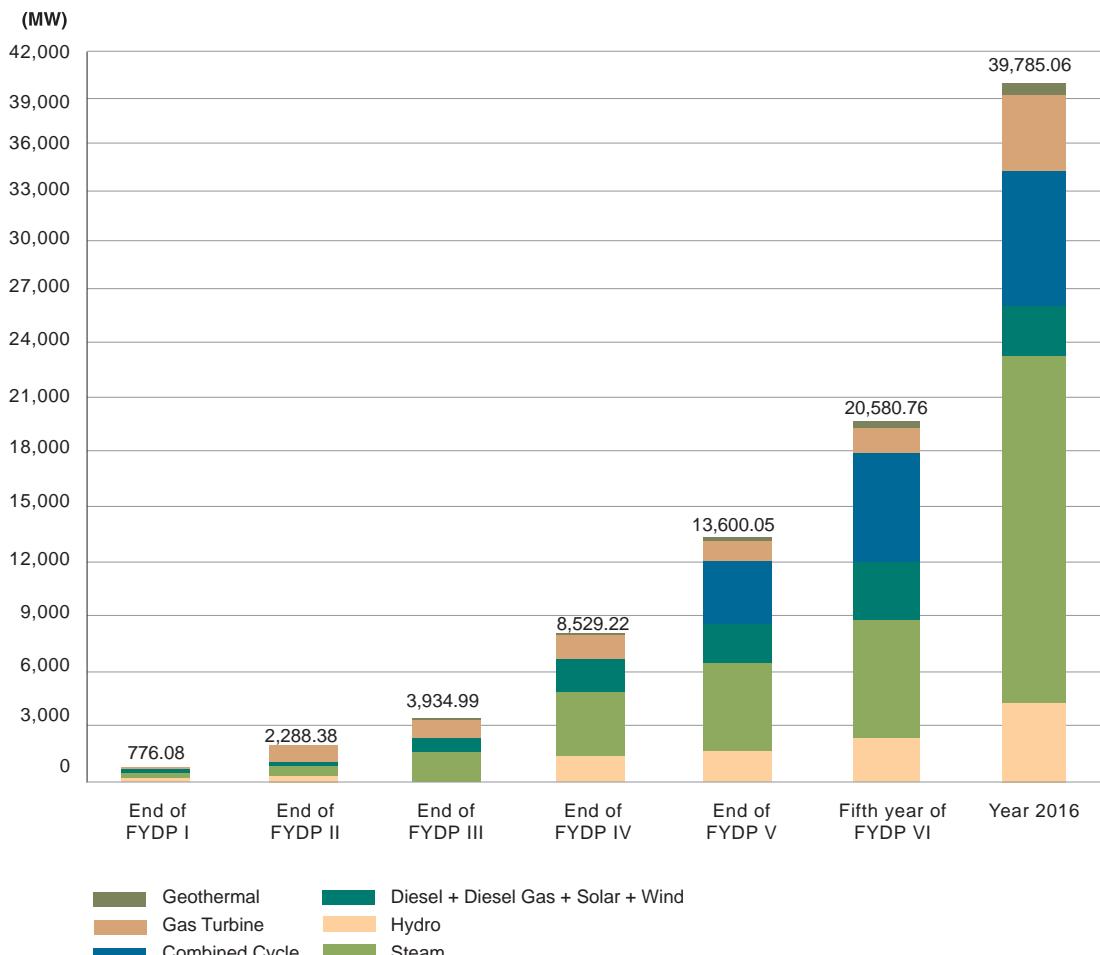
\*\*) Since year 2004

\*\*\*) Since year 2007

### Graph 9. Energy Losses



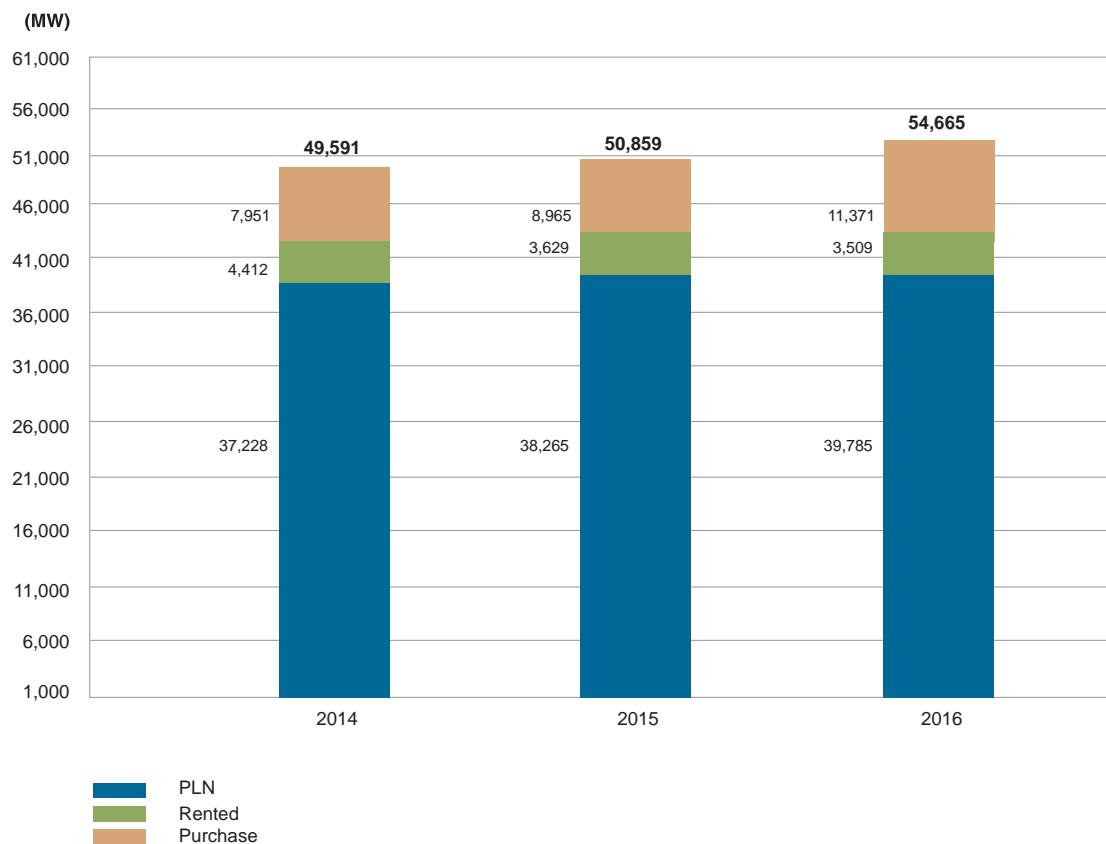
### Graph 10. Installed Capacity



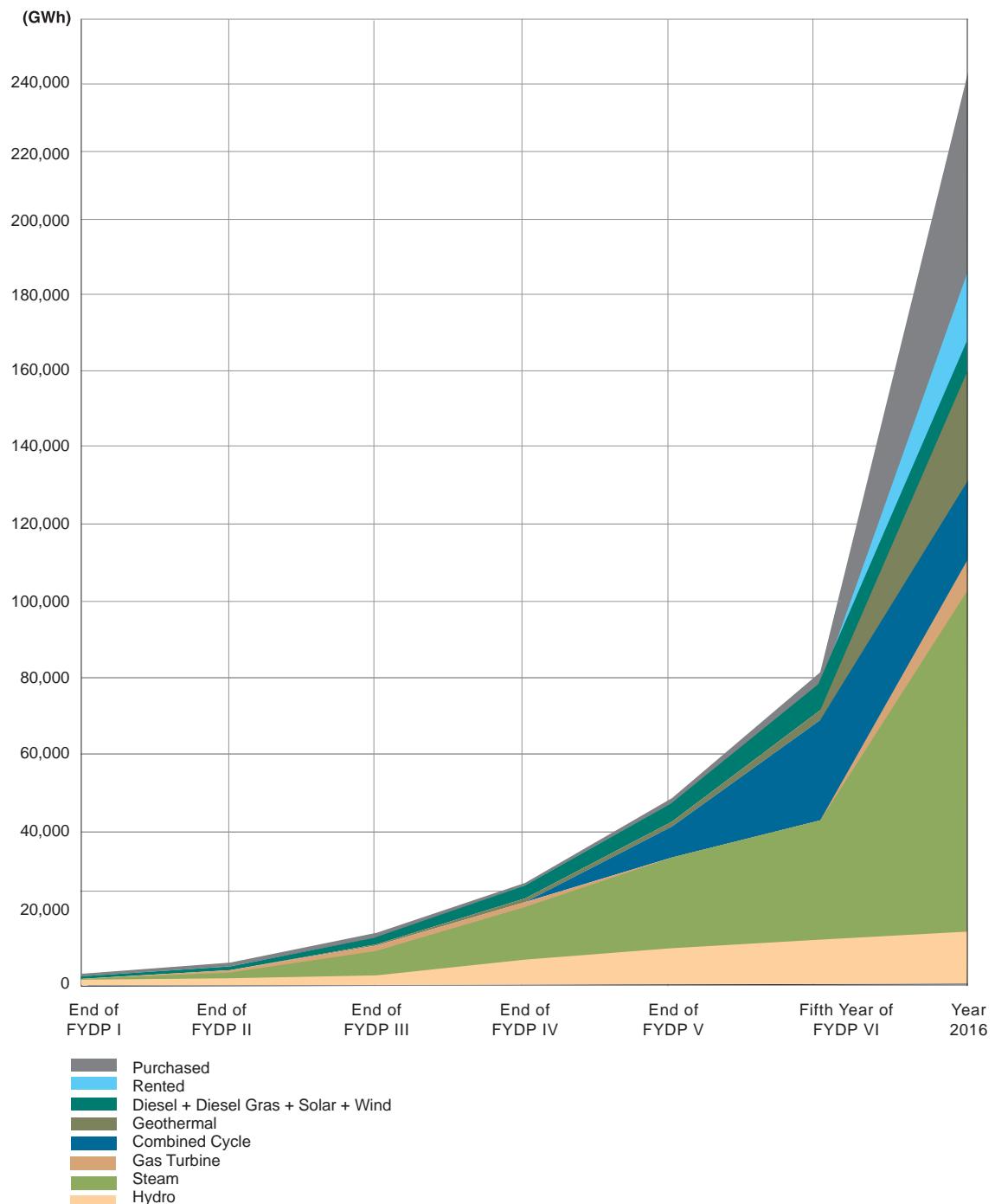
## End of Five Year Development Plan Data

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**Graph 11. Installed Capacity of National**



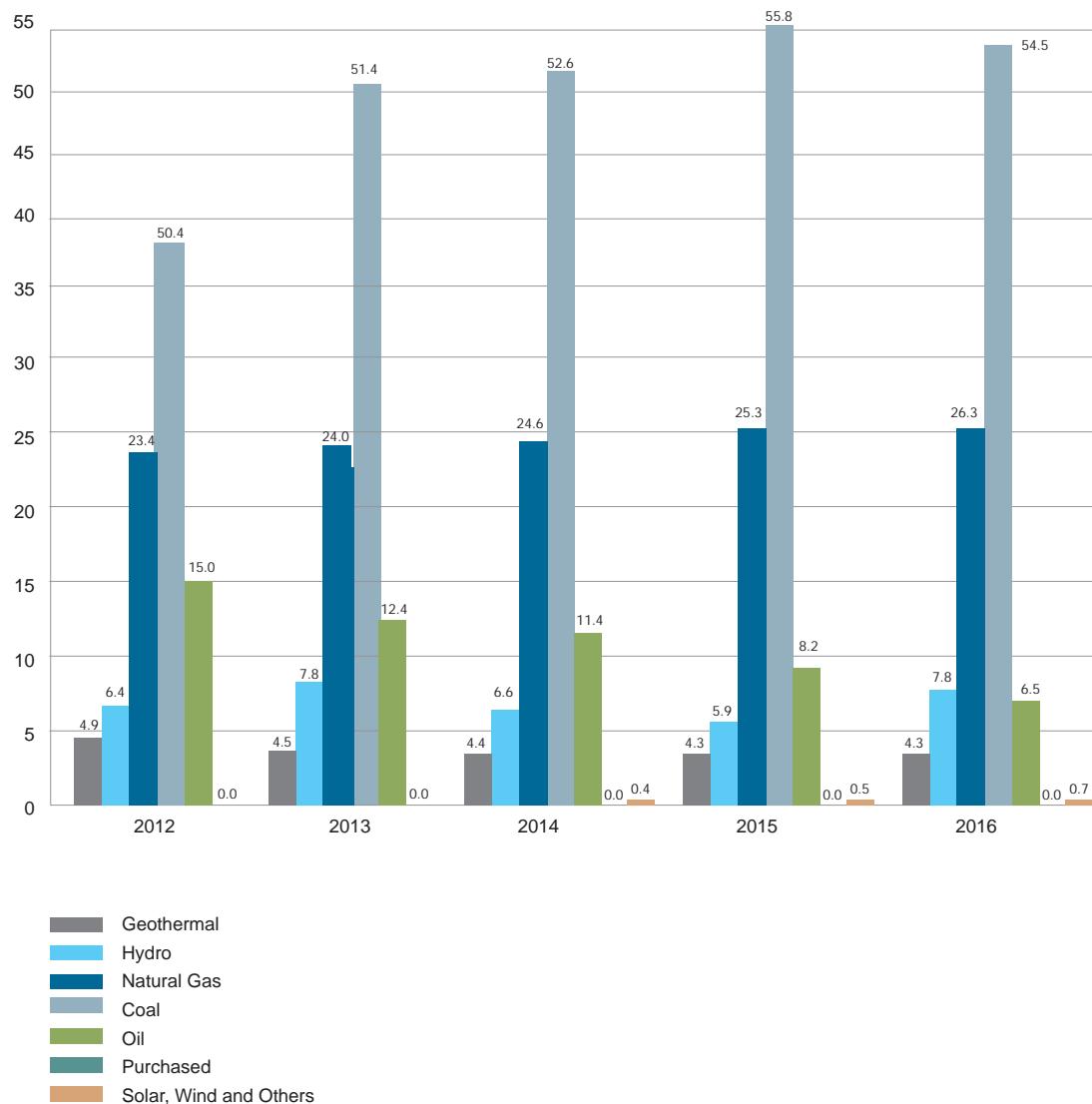
**Graph 12. Energy Production**



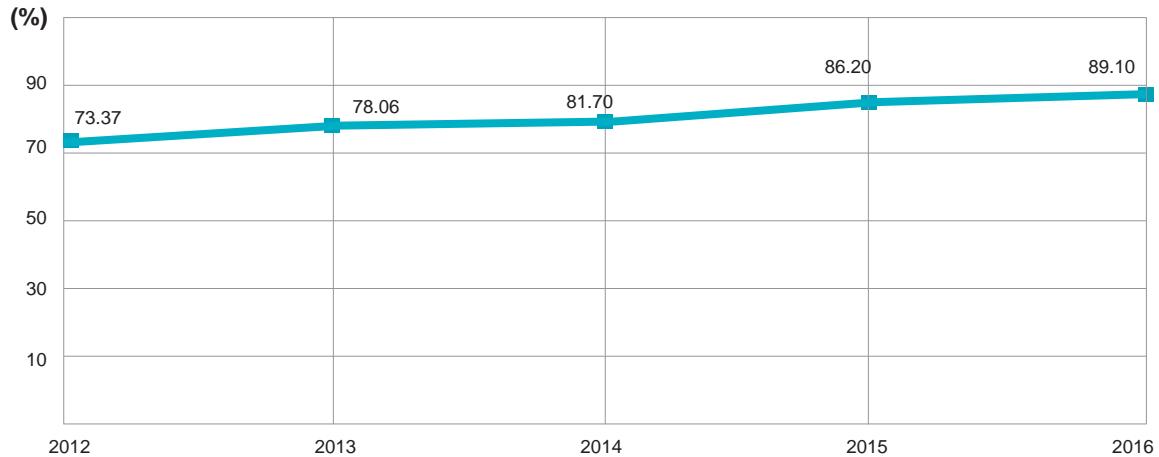
## End of Five Year Development Plan Data

**Graph 13. Energy Mix in 2012 - 2016**

(%)

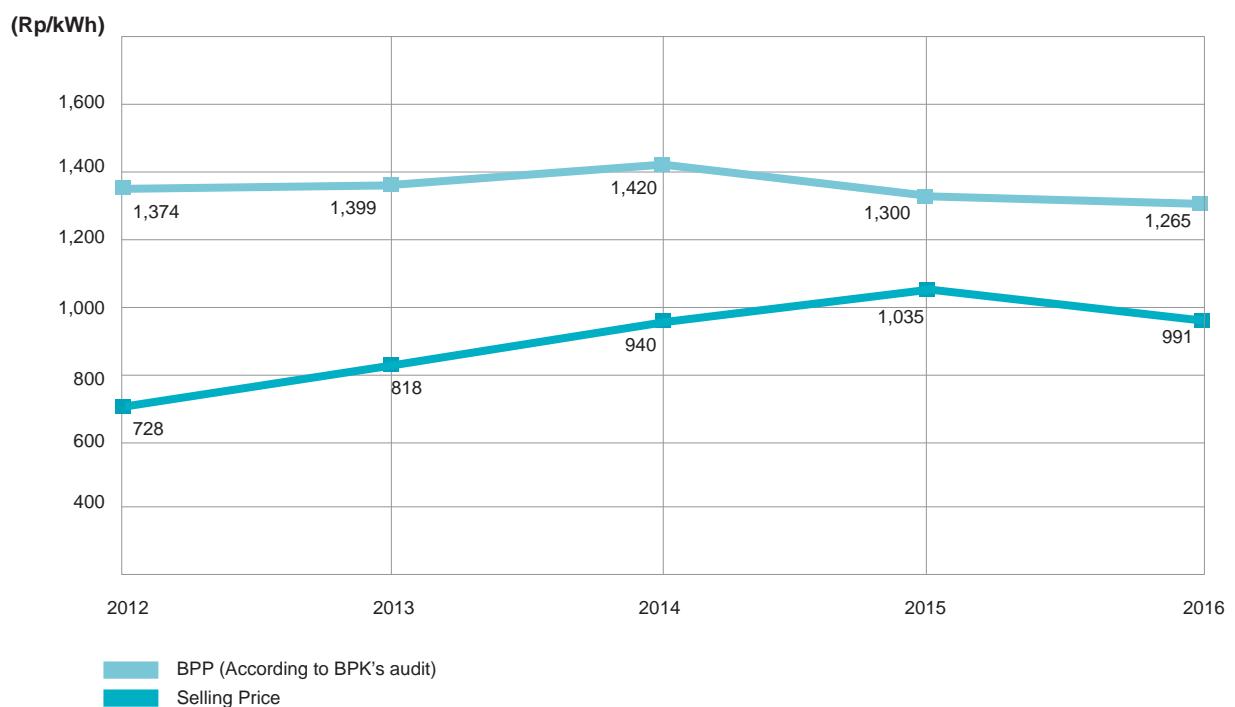


**Graph 14. Electrification Ratio \*)**



\*) Excluding non PLN Customers

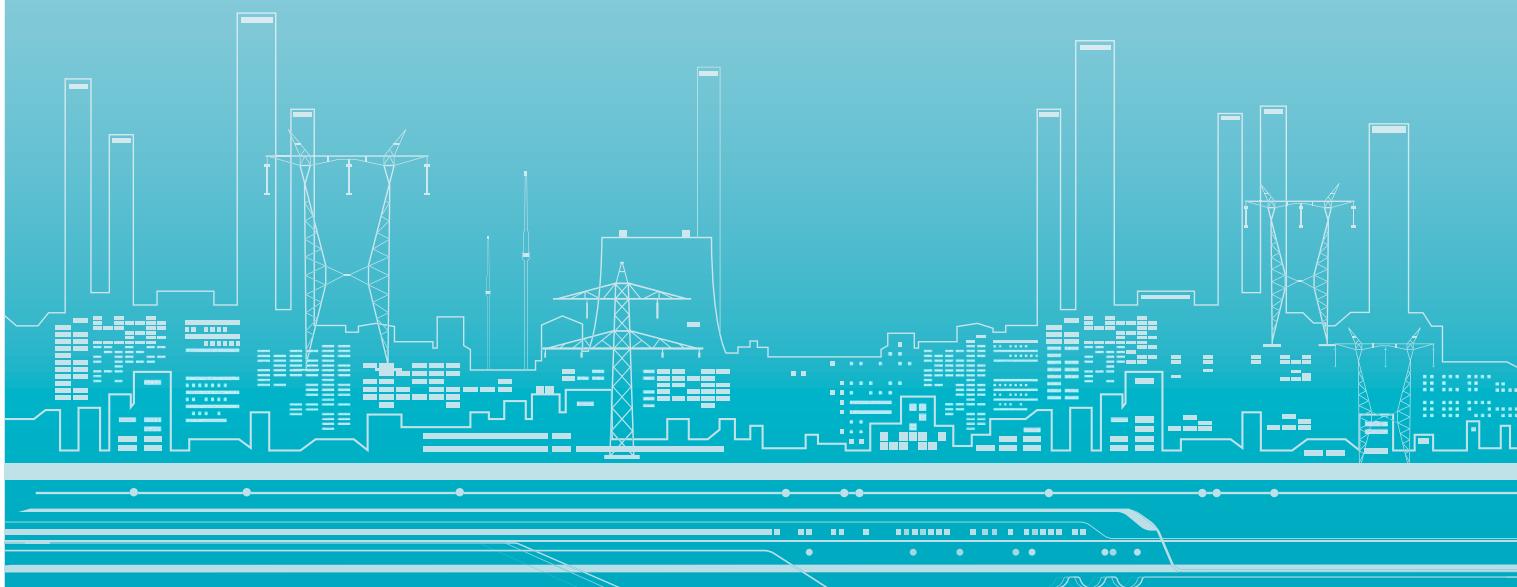
**Graph 15. Basic Cost of Electricity Production and Average Selling Price**







## Operational Regional of PLN



## Operational Region and Location of PLN Region Officers





# PLN Region Officers and Subsidiaries

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## **PT PLN (Persero) Region of Aceh**

Jl. Tgk. H. M. Daud Beureu-eh No. 172, Banda Aceh, Aceh 23243  
Tel. : (0651) 221 88 (Hunting 8 Saluran)  
Facs.: (0651) 215 16

## **PT PLN (Persero) Region of North Sumatera**

Jl. K.L. Yos Soedarso No. 284, Medan 20115, Kotak Pos 2000  
Tel. : (061) 6615 155  
Facs.: (061) 6613 789

## **PT PLN (Persero) Region of West Sumatera**

Jl. Dr. Wahidin No. 8, Padang 25121  
Tel. : (0751) 334 46  
Facs.: (0751) 295 40, 315 64

## **PT PLN (Persero) Region of Riau and Riau Islands**

Jl. Musyawarah, RT. 01 RW. 09, Kel. Labuh Baru, Barat Kec. Payung Sekaki, Pekanbaru, Riau 28295  
Tel. : (0761) 853 737, 855 309, 855 840  
Facs.: (0761) 855 310

## **PT PLN (Persero) Region of Bangka Belitung**

Jl. Soekarno Hatta Km. 5,  
Pangkalpinang 33171, Kep. Bangka Belitung  
Tel. : (0717) 439 300 (Hunting)  
Facs.: (0717) 439 600

## **PT PLN (Persero) Region of South Sumatera, Jambi and Bengkulu**

Jl. Kapten A. Rivai No. 37, Palembang 30129  
Tel. : (0711) 358 355, 358 804, 358 859  
Facs.: (0711) 356 759, 310 376

## **PT PLN (Persero) Region of West Kalimantan**

Jl. Adi Sucipto Km. 7,5 Sei Raya Kubu Raya, Pontianak 78391  
Tel. : (0561) 722 037, 721 960  
Facs.: (0561) 721 395

## **PT PLN (Persero) Region of South and Central Kalimantan**

Jl. Panglima Batur Barat No. 1, Banjarbaru – Kalsel 70711  
Tel. : (0511) 477 2520, 477 4342, 477 2261  
Facs.: (0511) 477 2442

## **PT PLN (Persero) Region of East Kalimantan and North**

Jl. MT. Haryono No. 384, Balikpapan 76114  
Tel. : (0542) 871 840 (Hunting)  
Facs.: (0542) 876 130

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

Jl. Bethesda No. 32, Manado 95116  
Tel. : (0431) 863 644, 865 651, 862 444  
Facs.: (0431) 859 786, 82306

## **PT PLN (Persero) Region of South Sulawesi Southeast Sulawesi and West Sulawesi**

Jl. Letjend. Hertasning Blok B, Kotak Pos 1206, Panakukang, Makassar 90222  
Tel. : (0411) 457 155, 457 157  
Facs.: (0411) 444 800

## **PT PLN (Persero) Region of Maluku and North Maluku**

Jl. Diponegoro No. 2, Ambon 97127  
Tel. : (0911) 311 810, 354 696, 347 766  
Facs.: (0911) 310 910

## **PT PLN (Persero) Region of West Nusa Tenggara**

Jl. Langko No. 25 – 27, Ampenan, Mataram 83114  
Tel. : (0370) 643 123  
Facs.: (0370) 634 401

## **PT PLN (Persero) Region of East Nusa Tenggara**

Jl. Piet A. Tallo 101, Kupang 85228  
Tel. : (0380) 855 4005 (Hunting)  
Facs.: (0380) 855 4010

## **PT PLN (Persero) Region of Papua and West Papua**

Jl. Jend. A. Yani No. 18, Jayapura 99111 Kotak Pos 1045  
Tel. : (0967) 533 891, 533 981, 536 637  
Facs.: (0967) 534 694

## **PT PLN (Persero) Distribution of Jakarta Raya and Tangerang**

Jl. M.I.R Rais No. 1, Jakarta 10110  
Tel. : (021) 345 5000, 345 4000  
Facs.: (021) 345 6694

## **PT PLN (Persero) Distribution of West Java**

Jl. Asia Afrika No. 63, Bandung 40111  
Tel. : (022) 423 0747 (Hunting)  
Facs.: (022) 423 0822

## **PT PLN (Persero) Distribution of Banten**

Jl. Jenderal Sudirman (Akses By Pass) No. 1, Tangerang 15118  
Tel. : (021) 552 6716, 552 6717  
Facs.: (021) 552 6721

## **PT PLN (Persero) Distribution of Central Java and D.I. Yogyakarta**

Jl. Teuku Umar No. 47, Semarang  
Tel. : (024) 841 1991 (Hunting)  
Facs.: (024) 841 2268

## **PT PLN (Persero) Distribution of East Java**

Jl. Embong Trengguli No. 19 – 21, Surabaya 60271  
Tel. : (031) 534 0651-534 0655  
Facs.: (031) 531 0057

## **PT PLN (Persero) Distribution of Bali**

Jl. Letda. Tantular No. 1, Renon, Denpasar 80234  
Tel. : (0361) 221 960-221 968, 221 957  
Facs.: (0361) 227 101

## **PT PLN (Persero) Distribution of Lampung**

Jl. Z.A. Pagar Alam No. 05, Bandar Lampung 35144  
Tel. : (0721) 774 868  
Facs.: (0721) 780 247

## **PT PLN (Persero) Education and Training Center**

Jl. HR. Harsono RM No. 59, Rajabasa, Ragunan, Pasar Minggu, Jakarta 12250  
Tel. : (021) 781 1292, 781 1293, 780 0832  
Facs.: (021) 781 1294, 781 1295

**PT PLN (Persero) Engineering Electricity Center**  
Jl. Aipda KS. Tubun I/2, Petamburan, Jakarta 11420  
Tel. : (021) 564 0141, 563 8644, 563 8642  
Facs.: (021) 563 8658, 563 8661

**PT PLN (Persero) Electricity Maintenance Center**  
Jl. Banten No. 10, Bandung 40272  
Tel. : (022) 723 6791-3  
Facs.: (022) 723 6794

**PT PLN (Persero) Research and Development Center**  
Jl. Duren Tiga No.102, Jakarta 12760  
Tel. : (021) 797 3774, 798 0190, 798 9982  
Facs.: (021) 799 1762, 797 5414

**PT PLN (Persero) Certification Center**  
Jl. Laboratorium, Duren Tiga, Jakarta 12760  
Tel. : (021) 790 0034  
Facs.: (021) 798 2034, 799 2056, 794 3450

**PT PLN (Persero) Construction Management Service**  
Jl. Slamet No. 1, Gajah Mungkur, Semarang 50232  
Tel. : (024) 8310060  
Facs.: (024) 8317241

**PT PLN (Persero) Generation of Southern Part of Sumatera**  
Jl. Demang Lebar Daun No. 375, Palembang 30128  
Tel. : (0711) 374 955 (Hunting)  
Facs.: (0711) 374 958, 374 959

**PT PLN (Persero) Generation of Northern Part of Sumatera**  
Jl. Brigjen Katamso KM 5,5, No. 30 Titikuning, Medan 20146  
Tel. : (061) 786 9025  
Facs.: (061) 786 7967

**PT PLN (Persero) Generator Unit of Java Bali (UPJB)**  
Jl. P. Mangkubumi No. 16, Yogyakarta 55232  
Tel. : (0274) 582 912  
Facs.: (0274) 582 971

**PT PLN (Persero) Tanjung Jati B Power Plant**  
Ds. Tubanan, Kec. Kembang, Kab. Jepara  
Jawa Tengah 59453  
Tel. : (0291) 772 121 s/d 772 124  
Facs.: (0291) 772 125

**PT PLN (Persero) Distribution and Load Control Center (P2B)**  
Krukut – Limo Cinere 16541  
Kotak Pos 159 CNR, Jakarta Selatan  
Tel. : (021) 754 3566, 754 2646  
Facs.: (021) 754 2516

**PT PLN (Persero) Sumatera Transmission and Control Center**  
Jl. Musyawarah/Nangka Ujung, Kel. Labuh Baru Barat  
Kecamatan Payung Sekaki, Pekanbaru, Riau 28233  
Tel. : (0761) 670 0011, 670 0012  
Facs.: (0761) 670 0015

**PT Indonesia Power**  
Jl. Jend. Gatot Subroto Kav. 18, Jakarta Selatan 12950  
Tel. : (021) 526 7666 (Hunting)  
Facs.: (021) 525 2623

**PT Pembangkitan Jawa Bali (PJB)**  
Jl. Ketintang Baru No. 11, Surabaya 60231  
Tel. : (031) 828 3180 (Hunting)  
Facs.: (031) 828 3183

**PT Pelayanan Listrik Nasional Batam**  
Jl. Engku Putri No. 3, Batam Center, Batam 29432  
Tel. : (0778) 463 150 – 53  
Facs.: (0778) 463 143

**PT Indonesia Comnets Plus (ICON+)**  
Kawasan PLN Cawang  
Jl. Mayjend Sutoyo No. 1, Cililitan, Jakarta Timur 13640  
Tel. : (021) 525 3019  
Facs.: (021) 525 3659

**PT Prima Layanan Nasional Enjiniring**  
Jl. KS. Tubun I/2 Lt.2, Jakarta 11420  
Tel. : (021) 560 8918, 560 8432, 560 9044  
Facs.: (021) 564 0132

**PT Pelayanan Listrik Nasional Tarakan**  
Jl. P. Diponegoro No. 1, Tarakan, Kalimantan Timur 77114  
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Facs.: (0551) 341 58, 219 28

**PT PLN Batubara**  
Jl. Warung Buncit Raya No. 10  
Kel. Kalibata, Jakarta Selatan 12740  
Tel. : (021) 2912 2118  
Facs.: (021) 2912 2182

**PT PLN Geothermal**  
PT PLN (Persero) Kantor Pusat, Gedung 1 Lt. 7,  
Jl. Trunojoyo Blok M I/135, Kebayoran Baru  
Jakarta 12160  
Tel. : (021) 725 1234, 726 1122 ext. 4171  
Facs. : (021) 722 7063

**PT Pelayaran Bahtera Adhiguna**  
Jl. Kalibesar Timur No. 10 – 12  
Jakarta 11110  
Tel. : (021) 691 2547, 691 2548, 691 2549  
Facs.: (021) 690 1450, 690 2726

**PT Haleyora Power**  
Pejaten Office Park Blok B  
Jl. Warung Buncit Raya No. 79, Pejaten Barat  
Jakarta 12550  
Tel. : (021) 791 92517  
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