



**DIREKTORAT JENDERAL LISTRIK DAN PEMANFAATAN ENERGI  
DEPARTEMEN ENERGI DAN SUMBER DAYA MINERAL**

Jalan H.R. Rasuna Said Blok X-2, Kav. 07-08, Kuningan, Jakarta Selatan  
Telpon 021-5225180, Fax. 021-5225381  
[www.djlpe.esdm.go.id](http://www.djlpe.esdm.go.id) e-mail: [statistik@djlpe.esdm.go.id](mailto:statistik@djlpe.esdm.go.id)



# STATISTIK KETENAGALISTRIKAN DAN ENERGI TAHUN 2009



**DIREKTORAT JENDERAL LISTRIK DAN PEMANFAATAN ENERGI  
KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL  
2010**

## KATA PENGANTAR

Buku Statistik Ketenagalistrikan dan Energi No. 23 - 2010 disusun berdasarkan data dari beberapa unit di lingkungan Kementerian Energi dan Sumber Daya Mineral dan stakeholders terkait. Data Ketenagalistrikan berasal dari PT. PLN (Persero) dan Direktorat Jenderal Listrik dan Pemanfaatan Energi, sedangkan data mengenai Energi berasal dari Direktorat Jenderal Minyak dan Gas Bumi, dan Direktorat Jenderal Mineral, Batubara dan Panas Bumi.

Tujuan penyusunan buku Statistik Ketenagalistrikan ini adalah untuk memberikan informasi tentang data Ketenagalistrikan dan energi serta informasi lainnya. Data Statistik disajikan dalam bentuk tabel dan grafik untuk mempermudah pembacaan, dan ringkasan dalam bentuk narasi.

Buku Statistik Ketenagalistrikan dan Energi No. 23 - 2010 ini berisi data tahun 2008 meliputi penyediaan tenaga listrik, pengusaha tenaga listrik dan pemanfaatan energi dimaksudkan agar data dapat terkumpul dalam satu buku, sehingga dapat dipergunakan serta dapat digunakan berbagai pihak. Data yang ada dalam buku ini dapat dilihat dalam website Direktorat Jenderal Listrik dan Pemanfaatan Energi melalui : <http://www.djlpe.esdm.go.id>.

Saran dan kritik membangun untuk penerbitan selanjutnya dapat disampaikan melalui e-mail : [kslr@djlpe.esdm.go.id](mailto:kslr@djlpe.esdm.go.id)

Jakarta,     November 2010

Sekretaris Direktorat Jenderal  
Listrik dan Pemanfaatan Energi

Ir. Agoes Triboesono, M.Eng



## FOREWORD

*Statistics book of Electricity and Energy Number 23 - 2010, was developed based on electricity and energy data that collected from several units in the Ministry of Energy and Mineral Resources and related stakeholders. Electricity data sources were gathered from the Directorate General of Electricity and Energy Utilization and PT. PLN (Persero). Energy data were gathered from the Directorate General of Oil and Gas, and Directorate General Mineral, Coal and Geothermal.*

*The aims of publishing this book is to provide information about electricity and energy. The statistic data was presented in a table form, graphics to simplify observation, and narration summary.*

*This statistic book of Electricity and Energy No.23-2010 including electricity supply facilities, electricity business and energy utilization in order to provide comprehensive data in single statistical book, therefore it can be utilized by either party. Data from this statistic book can be accessed on website of Directorate General of Electricity and Energy Utilization <http://www.djlpe.esdm.go.id>*

*Futher valuable suggestion and constructive critism can be sent to e-mail address: [kslr@djlpe.esdm.go.id](mailto:kslr@djlpe.esdm.go.id)*

Jakarta, November 2010

The Secretary of Directorate General  
of Electricity and Energy Utilization

Ir. Agoes Triboesono, M.Eng

**DAFTAR ISI**  
**TABLE OF CONTENT**

|                                                                                                                                                                                        |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>KATA PENGANTAR</b><br><i>FOREWORD</i>                                                                                                                                               | i  |
| <b>RINGKASAN</b><br><i>SUMMARY</i>                                                                                                                                                     | vi |
| <b>TABEL</b><br><i>TABLE</i>                                                                                                                                                           |    |
| 1 SARANA PENYEDIAAN TENAGA LISTRIK NASIONAL<br><i>NATIONAL ELECTRICITY SUPPLY FACILITIES</i>                                                                                           | 1  |
| 2 KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK NASIONAL<br><i>NATIONAL INSTALLED CAPACITIES BY TYPE OF POWER PLANT</i>                                                                | 1  |
| 3 SARANA PENYEDIAAN TENAGA LISTRIK PLN<br><i>PLN'S ELECTRICITY SUPPLY FACILITIES</i>                                                                                                   | 4  |
| 4 KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT JENIS PEMBANGKIT<br><i>PLN'S INSTALLED CAPACITIES BY TYPE OF POWER PLANT</i>                                               | 4  |
| 5 KAPASITAS TERPASANG LISTRIK PLN MENURUT JENIS PEMBANGKIT PER WILAYAH 2008<br><i>PLN'S INSTALLED CAPACITY BY TYPE OF POWER PLANT AND BY REGION 2008</i>                               | 5  |
| 6 PEMBANGUNAN PEMBANGKIT ENERGI BARU TERBARUKAN<br><i>THE PRIVATE POWER BY REGION DECEMBER 2008</i>                                                                                    | 7  |
| 7 JUMLAH UNIT PEMBANGKIT TENAGA LISTRIK PLN PER JENIS PEMBANGKIT PER WILAYAH 2008<br><i>NUMBER OF UNIT PLN'S POWER PLANT BY TYPE OF POWER PLANT AND BY REGION 2008</i>                 | 9  |
| 8 DAYA MAMPU KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN<br><i>RATED CAPACITY OF POWER PLANT (MW)</i>                                                                            | 10 |
| 9 PEMBANGKIT LISTRIK SWASTA PER WILAYAH 2008<br><i>THE PRIVATE POWER BY REGION 2008</i>                                                                                                | 10 |
| 10 DAYA MAMPU KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT JENIS PEMBANGKIT PER WILAYAH (MW) 2008<br><i>RATED CAPACITY OF POWER PLANT BY TYPE AND BY REGION (MW) 2008</i> | 11 |
| 11 JARINGAN TRANSMISI DAN DISTRIBUSI PLN<br><i>PLN'S TRANSMISSION AND DISTRIBUTION LINES</i>                                                                                           | 13 |
| 12 JARINGAN TRANSMISI PLN TEGANGAN EXTRA TINGGI<br><i>PLN'S TRANSMISSION EXTRA HIGH VOLTAGE LINES BY REGION 2008</i>                                                                   | 14 |
| 13 JARINGAN TRANSMISI PLN TEGANGAN TINGGI PER WILAYAH 2008<br><i>PLN'S TRANSMISSION HIGH VOLTAGE LINES BY REGION 2008</i>                                                              | 15 |
| 14 JARINGAN DISTRIBUSI PLN TEGANGAN MENENGAH DAN RENDAH PER WILAYAH 2008<br><i>PLN'S DISTRIBUTION MEDIUM AND LOW VOLTAGE LINES BY REGION 2008</i>                                      | 17 |
| 15 PRODUKSI DAN PEMBELIAN TENAGA LISTRIK PLN<br><i>PLN'S PRODUCTION AND PURCHASE OF ELECTRICITY</i>                                                                                    | 19 |
| 16 PRODUKSI TENAGA LISTRIK PLN PER JENIS PEMBANGKIT PER WILAYAH 2008<br><i>PLN'S ELECTRICITY PRODUCTION OF POWER PLANT BY TYPE AND BY REGION 2008</i>                                  | 21 |

|    |                                                                                                                                                       |    |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 17 | SEWA DAN PEMBELIAN TENAGA LISTRIK DARI LUAR PLN PER WILAYAH 2008<br><i>RENTED AND PURCHASE ELECTRICITY BY PLN AND BY REGION 2008</i>                  | 23 |
| 18 | PEMBELIAN TENAGA LISTRIK OLEH PLN<br><i>PLN'S ELECTRICITY PURCHASE</i>                                                                                | 21 |
| 19 | DAYA TERSAMBUNG PER SEKTOR PELANGGAN<br><i>POWER CONNECTED BY TYPE OF COSTUMERS</i>                                                                   | 27 |
| 20 | DAYA TERSAMBUNG PER SEKTOR PELANGGAN PER WILAYAH<br><i>POWER CONNECTED OF COSTUMERS BY TYPE AND BY REGION 2008</i>                                    | 29 |
| 21 | PENJUALAN TENAGA LISTRIK PLN PER SEKTOR PELANGGAN<br><i>PLN'S ELECTRICITY SALES BY SECTOR OF CUSTOMERS</i>                                            | 31 |
| 22 | JUMLAH PELANGGAN MENURUT SEKTOR<br><i>NUMBER OF CUSTOMERS BY SECTOR</i>                                                                               | 31 |
| 23 | PENJUALAN TENAGA LISTRIK PLN MENURUT KELOMPOK PELANGGAN PER WILAYAH 2008<br><i>PLN'S ELECTRICITY SALES BY SECTOR OF CUSTOMERS AND BY REGION 2008</i>  | 33 |
| 24 | JUMLAH PELANGGAN PER KELOMPOK PELANGGAN DAN PER WILAYAH 2008<br><i>NUMBER OF CUSTOMERS BY SECTOR AND BY REGION 2008</i>                               | 35 |
| 25 | KONSUMSI TENAGA LISTRIK PLN PER KAPITA DAN PER PELANGGAN<br><i>PLN S ELECTRICITY CONSUMPTION PER CAPITA AND PER CUSTOMER</i>                          | 37 |
| 26 | RASIO ELEKTRIFIKASI INDONESIA<br><i>INDONESIA RATIO ELECTRIFICATION</i>                                                                               | 37 |
| 27 | RASIO ELEKTRIFIKASI TAHUN 2008<br><i>ELECTRIFICATION RATIO YEAR 2008</i>                                                                              | 39 |
| 28 | NERACA PENGUSAHAAN TENAGA LISTRIK PLN PER WILAYAH 2008<br><i>PLN'S ELECTRICITY BALANCE 2008</i>                                                       | 41 |
| 29 | PROSENTASE SUSUT TENAGA LISTRIK PLN<br><i>PLN'S LOSSES PERCENTAGE</i>                                                                                 | 43 |
| 30 | PEMAKAIAN BAHAN BAKAR PER JENIS PEMBANGKIT<br><i>FUEL CONSUMPTION BY TYPE OF POWER PLANT</i>                                                          | 43 |
| 31 | PEMAKAIAN BAHAN BAKAR PER JENIS PEMBANGKIT DAN PER WILAYAH 2008<br><i>FUEL CONSUMPTION BY TYPE OF POWER PLANT AND BY REGION 2008</i>                  | 45 |
| 32 | PEMAKAIAN BAHAN BAKAR SPESIFIK 2008<br><i>SPECIFIC FUEL CONSUMPTION 2008</i>                                                                          | 47 |
| 33 | LISTRIK PERDESAAN PLN DAN NON PLN PER PROPINSI 2008<br><i>RURAL ELECTRIFICATION BY PROVINCE 2008</i>                                                  | 49 |
| 34 | LISTRIK PERDESAAN PLN<br><i>RURAL ELECTRIFICATION 2008</i>                                                                                            | 51 |
| 35 | PEMAKAIAN ENERGI PRIMER MENURUT JENIS (SBM)<br><i>PRIMARY ENERGY CONSUMPTION BY SOURCES (BOE)</i>                                                     | 54 |
| 36 | KONSUMSI ENERGI FINAL MENURUT SUMBER DAN SEKTOR PEMAKAI 2008 (RIBU SBM)<br><i>FINAL ENERGY CONSUMPTION BY SOURCE AND BYSECTOR 2008 (THOUSAND BOE)</i> | 55 |

|    |                                                                                                    |    |
|----|----------------------------------------------------------------------------------------------------|----|
| 37 | PEMAKAIAN ENERGI FINAL MENURUT JENIS<br><i>FINAL ENERGY CONSUMPTION BY TYPE</i>                    | 56 |
| 38 | PEMAKAIAN ENERGI FINAL MENURUT SEKTOR (SBM)<br><i>FINAL ENERGY CONSUMPTION BY SECTOR (BOE)</i>     | 57 |
| 39 | KONSUMSI BBM PER SEKTOR<br><i>OIL CONSUMPTION BY SECTOR</i>                                        | 58 |
| 40 | KONSUMSI GAS BUMI PER SEKTOR (RIBU SBM)<br><i>NATURAL GAS CONSUMPTION BY SECTOR (THOUSAND BOE)</i> | 59 |
| 41 | KONSUMSI BATUBARA PER SEKTOR (RIBU SBM)<br><i>COAL CONSUMPTION BY SECTOR (THOUSAND BOE)</i>        | 60 |
| 42 | KONSUMSI LPG PER SEKTOR (RIBU SBM)<br><i>LPG CONSUMPTION BY SECTOR (THOUSAND BOE)</i>              | 61 |
| 43 | KONSUMSI LISTRIK PER SEKTOR (RIBU SBM)<br><i>ELECTRICITY CONSUMPTION BY SECTOR (THOUSAND BOE)</i>  | 62 |
| 45 | KONSUMSI ENERGI PERKAPITA<br><i>PER CAPITA OF ENERGY CONSUMPTION</i>                               | 63 |

GRAFIK GRAPH

|    |                                                                                                                                                                       |    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1  | KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK TAHUN 2008<br><i>INSTALLED CAPACITY ELECTRICITY GENERATING YEAR 2008</i>                                                | 2  |
| 2  | KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT PEMAKA-<br>IAN BAHAN BAKAR 2008<br><i>INSTALLED CAPACITY OF PLN GENERATING ELECTRICITY FUEL USE BY 2008</i> | 3  |
| 3  | KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT JENIS<br>PEMBANGKIT TAHUN 2008<br><i>PLN'S INSTALLED CAPACITIES BY TYPE OF POWER PLANT 2008</i>             | 3  |
| 4  | PEMBANGKIT TENAGA LISTRIK SWASTA PER WILAYAH TAHUN 2008<br><i>ELECTRICITY GENERATING PRIVATE AREA PER YEAR 2008</i>                                                   | 10 |
| 5  | JTT, JTM, DAN JTR TAHUN 2004 - 2008<br><i>JTT, JTM, AND JTR YEAR 2004 - 2008</i>                                                                                      | 13 |
| 6  | JARINGAN TEGANGAN EXTRA TINGGI (JETT) TAHUN 2004-2008<br><i>JETT YEAR 2004-2008</i>                                                                                   | 14 |
| 7  | PENYEDIAAN TENAGA LISTRIK PLN TAHUN 2004 - 2008<br><i>PLN POWER SUPPLY YEAR 2004 - 2008</i>                                                                           | 19 |
| 8  | DAYA TERSAMBUNG PERSEKTOR PELANGGAN TAHUN 2004 - 2008<br><i>PERSEKTOR CUSTOMERS CONNECTED POWER IN 2004 - 2008</i>                                                    | 24 |
| 9  | DAYA TERSAMBUNG PER SEKTOR PELANGGAN TAHUN 2009<br><i>POWER SECTOR CUSTOMERS CONNECTED PER YEAR 2008</i>                                                              | 24 |
| 10 | PENJUALAN TENAGA LISTRIK PLN PER SEKTOR PELANGGAN TAHUN 2004 - 2008<br><i>PLN POWER SALES PER CUSTOMER SECTOR IN 2004 - 2008</i>                                      | 31 |
| 11 | PENJUALAN TENAGA LISTRIK PLN PER SEKTOR PELANGGAN TAHUN 2008<br><i>PLN POWER SALES PER CUSTOMER SECTOR IN 2008</i>                                                    | 32 |
| 12 | JUMLAH PELANGGAN MENURUT SEKTOR TAHUN 2004 - 2008<br><i>NUMBER OF CUSTOMERS BY SECTOR IN 2004 - 2008</i>                                                              | 32 |
| 13 | KONSUMSI TENAGA LISTRIK PER KAPITA DAN PER PELANGGAN TAHUN 2004 -<br>2008<br><i>POWER CONSUMPTION PER CAPITA AND PER CUSTOMER YEAR 2004 - 2008</i>                    | 37 |
| 14 | RASIO ELEKTRIFIKASI TAHUN 2004 - 2008<br><i>ELECTRIFICATION RATIO YEAR 2004 - 2008</i>                                                                                | 38 |
| 15 | PEMAKAIAN ENERGI PRIMER MENURUT JENIS TAHUN 2008<br><i>PRIMARY ENERGY CONSUMPTION BY SOURCES IN 2008</i>                                                              | 53 |
| 16 | PEMAKAIAN ENERGI PRIMER MENURUT JENIS TAHUN 2004 - 2008<br><i>PRIMARY ENERGY CONSUMPTION BY SOURCES 2004 - 2008</i>                                                   | 54 |
| 17 | KONSUMSI ENERGI FINAL MENURUT SUMBER DAN SEKTOR PEMAKAI TAHUN<br>2008<br><i>FINAL ENERGY CONSUMPTION BY SOURCE AND BYSECTOR 2008</i>                                  | 55 |
| 18 | PEMAKAIAN ENERGI FINAL MENURUT JENIS TAHUN 2004 - 2008<br><i>FINAL ENERGY CONSUMPTION BY TYPE 2004 - 2008</i>                                                         | 56 |
| 19 | PEMAKAIAN ENERGI FINAL MENURUT SEKTOR TAHUN 2004- 2008<br><i>FINAL ENERGY CONSUMPTION BY SECTOR 2004-2008</i>                                                         | 57 |
| 20 | KONSUMSI BBM MENURUT SEKTOR 2004 - 2008<br><i>OIL CONSUMPTION BY SECTOR 2004 - 2008</i>                                                                               | 58 |



|    |                                                                                                        |    |
|----|--------------------------------------------------------------------------------------------------------|----|
| 21 | JUMLAH KONSUMSI BBM TAHUN 2008<br><i>TOTAL FUEL CONSUMPTION IN 2008</i>                                | 58 |
| 22 | KONSUMSI GAS BUMI PER SEKTOR TAHUN 2004 - 2008<br><i>NATURAL GAS CONSUMPTION BY SECTOR 2004 - 2008</i> | 59 |
| 23 | JUMLAH KONSUMSI GAS BUMI TAHUN 2008<br><i>TOTAL NATURAL GAS CONSUMPTION IN 2008</i>                    | 59 |
| 24 | KONSUMSI BATUBARA PER SEKTOR TAHUN 2004 - 2008<br><i>COAL CONSUMPTION BY SECTOR 2004 - 2008</i>        | 60 |
| 25 | KONSUMSI LPG PER SEKTOR TAHUN 2004 - 2008<br><i>LPG CONSUMPTION BY SECTOR 2004 - 2008</i>              | 61 |
| 25 | JUMLAH KONSUMSI LPG TAHUN 2008<br><i>TOTAL LPG CONSUMPTION IN 2008</i>                                 | 61 |
| 26 | KONSUMSI LISTRIK PER SEKTOR TAHUN 2004 - 2008<br><i>ELECTRICITY CONSUMPTION BY SECTOR 2004 - 2008</i>  | 62 |
| 27 | JUMLAH KONSUMSI LISTRIK TAHUN 2008<br><i>TOTAL ELECTRICITY CONSUMPTION IN 2008</i>                     | 62 |
| 28 | KONSUMSI ENERGI PER KAPITA TAHUN 2004 - 2008<br><i>PER CAPITA OF ENERGY CONSUMPTION 2004 - 2008</i>    | 63 |

## RINGKASAN

Sampai dengan akhir tahun 2009 kapasitas terpasang pembangkit tenaga listrik di Indonesia mencapai 30.915,35 MW yang terdiri dari pembangkit PLN sebesar 25.466,16 MW dan Non PLN sebesar 5.449,19 MW dibandingkan dengan tahun 2008 sebesar 30.865,85 MW, maka kapasitas terpasang pembangkit tenaga listrik naik sebesar 49,50 MW atau 0,1%.

Pada akhir tahun 2009 total panjang jaringan transmisi naik menjadi 40.041,14 kms, terdiri dari JTET (Jaringan Tegangan Ekstra Tinggi) sepanjang 5.092 kms dan JTT (Jaringan Tegangan Tinggi) sepanjang 34.949,14 kms. Total jaringan distribusi naik menjadi 639.517 kms dari 614.925 kms atau mengalami kenaikan sepanjang 24.592 kms atau 3,99 %, terdiri dari JTM (Jaringan Tegangan Menengah) sepanjang 268.611 kms dan JTR (Jaringan Tegangan Rendah) sepanjang 370.905 kms. Untuk Gardu Induk naik sebesar 22.367 MVA atau 37,58 % yaitu dari 59.508 MVA pada tahun 2008 menjadi 81.875 MVA pada akhir tahun 2009, dan untuk Gardu Distribusi juga mengalami kenaikan sebesar 2.480 MVA atau 7,69 % yaitu dari 32.244 MVA pada tahun 2008 menjadi 34.724 MVA pada akhir tahun 2009.

Untuk jumlah Gardu Induk pada akhir tahun 2009 mengalami kenaikan sejumlah 50 unit atau 4,4%, yaitu dari 1.132 unit menjadi 1.182 unit, dan jumlah Gardu Distribusi juga mengalami kenaikan sejumlah 10.175 unit atau 4 % yaitu dari 276.549 unit menjadi 286.724 unit.

Penyediaan tenaga listrik akhir tahun 2009 sebesar 156.797 GWh yang terdiri atas produksi tenaga listrik PLN sebesar 120.628 GWh dan pembelian sebesar 36.168 GWh. Dibandingkan dengan tahun 2008 produksi tenaga listrik PLN sebesar 118.046 GWh naik sebesar 2.581 GWh atau 2 %; sedangkan pembelian sebesar 31.389 GWh naik sebesar 4.779 GWh atau 15 %.

Penjualan tenaga listrik PLN tahun 2009 sebesar 134.207 GWh. Dibandingkan dengan tahun 2008 penjualan tenaga listrik naik sebesar 5.118 GWh atau 4 % terdiri dari penjualan untuk sektor industri sebesar 46.204 GWh, sektor rumah tangga sebesar 54.945 GWh, sektor komersial atau usaha sebesar 24.528 GWh dan sektor publik atau umum sebesar 8.528 GWh.

Jumlah pelanggan tahun 2009 mencapai 40.117.685 pelanggan. Dibandingkan dengan tahun 2008 naik sebesar 1.273.599 pelanggan atau 3,27%. Dari jumlah pelanggan seluruhnya, kelompok rumah tangga merupakan jumlah pelanggan terbesar yaitu 37.099.830 pelanggan atau 92,4 %.

Susut jaringan transmisi PLN tahun 2009 sebesar 15.358 GWh terdiri dari susut transmisi sebesar 3.303 GWh dan susut distribusi sebesar 11.744 GWh. Dibandingkan dengan produksi netto sebesar 120.628 GWh maka susut jaringan transmisi adalah 2,18 % dan susut distribusi 7,93 %.

Jumlah desa seluruh Indonesia sampai dengan akhir tahun 2009 mencapai 75.666 desa, telah dilistriki sebanyak 70.510 desa atau 93,19 % dengan jumlah pelanggan desa 38.370.672 pelanggan.

Rasio elektrifikasi adalah perbandingan rumah tangga berlistrik dengan jumlah rumah tangga. Rasio elektrifikasi sampai dengan akhir tahun 2009 mencapai 66,28 %.

Daya tersambung tenaga listrik per kapita adalah perbandingan antara jumlah daya tersambung tenaga listrik PLN dengan jumlah penduduk. Daya tersambung PLN tahun 2009 mencapai 62.893,78 MVA dan proyeksi jumlah penduduk pada tahun yang sama sekitar 231.369.500 jiwa, maka daya tersambung tenaga listrik per kapita tahun 2009 adalah sebesar 0,27 KVA/penduduk



Konsumsi tenaga listrik PLN per kapita merupakan perbandingan konsumsi tenaga listrik dengan jumlah penduduk. Jumlah penduduk pada tahun 2009 sebanyak 231.369.500 jiwa dan konsumsi tenaga listrik pada tahun yang sama sebesar 134.207,46 GWh, maka konsumsi tenaga listrik PLN per kapita adalah 0,58 kWh/penduduk.

Rasio desa berlistrik adalah perbandingan antara jumlah desa berlistrik dengan jumlah seluruh desa. Desa berlistrik sampai dengan tahun 2009 adalah 70.510 desa dengan jumlah desa sebanyak 75.666 desa dengan rincian di luar jawa sebanyak 45.400 desa berlistrik dan di jawa 25.060 desa berlistrik. Dengan demikian rasio desa berlistrik tahun 2009 adalah 93,19 %, sedang rasio desa berlistrik di luar jawa mencapai 94 % dan rasio desa berlistrik di jawa sudah mencapai 99,76 %.

#### **NON PLN POWER PLANT**

Kapasitas terpasang pembangkit tenaga listrik non PLN sampai dengan tahun 2009 sebesar 5.518,22 MW terdiri dari kapasitas terpasang IPP sebesar 5.003,22 MW, Batamindo sebesar 115 MW, Krakatau Daya Listrik sebesar 400 MW. Dibandingkan dengan kapasitas terpasang tahun 2008 yang mencapai 5.271 MW, ada kenaikan sebesar 246MW.

## SUMMARY

*In the end of 2009 the capacity of power system Indonesia is 30.915,35 MW, that consist PLN's Power Plan 25.466,16 MW and Non-PLN 5.449,19. It's compared the last year 30.865,85 MW, so the capacity of the power system increased 49,50 MW or 0,1%.*

*In the end of 2009 The transmission lines increased 40.041,14 kmc. The consisting of each line is as follows: Extra high voltage transmission lines has reached 5.092 kmc, and High voltage transmission lines has reached 34.949 kmc. Total distribution lines increased 24.592 kmc or 3,99 % from 614.925 kmc to 639.517 kmc. The consisting of each line is as follows : Medium voltage distribution lines has reached 268.611 kmc and low voltage distribution lines has reached 370.905 kmc. The sub stations increased 22.367 MVA or 37,58 % as from 59.508 MVA to 81.875 MVA, and distribution sub stations has also increased 2.480 MVA or 7,69 % as from 32.244 MVA to 34.724 MVA.*

*The total units of substation has increased 50 units or 4,4 % as from 1.132 units to 1.182 units, and total units of distribution substation was decreased 10.175 units or 4 % as from 276.549 units to 286.724 units.*

*The supply of electricity in 2009 was 156.797 GWh, consisting of PLN's self production of 120.628 GWh and purchase of 36.168 GWh. Compared to the year 2008, the electricity of PLN's production was 118.046 GWh increased 2.581 GWh or 2 %, while the purchased electricity was 31.389 GWh increased 4.779 GWh or 15 %.*

*The sale of PLN electricity in 2009 was 134.207 GWh, Compared to the year 2008 was increased of 5.118 GWh or 4 % consisting of sales to industrial sector were 46.204 GWh, while that to industrial sector 46.204 GWh, to residential sector 54.945 GWh, to commercial sector or business enterprises 24.528 GWh and to public sector 8.528 GWh.*

*The number of customers in 2009 reached 40.117.685 an increase of 1.273.599 or 3,27 %. Residential was the largest group of customers, numbering in 37.099.830 or 92,4 % of all customers.*

*Transmission lines losses in 2009 reached 15.358 GWh, the consisting of each line is as follows; transmission losses as 3.303 GWh and distribution losses as 11.744 GWh. Compared to the netto production was 120.628 GWh, these represented of 2,18 % and 7,93 % in overall transmission and distribution losses respectively.*

*The group of all Indonesian villages reached 75.666 villages in 2009 the electrified villages has been 70.510 villages or 93,19 %. while the group of customers were 38.370.672.*

*The electrification ratio is the ratio of the electrified household to the total households. Until 2009 electrification ratio has reached 66,28 %. Compared to 2008 where electrification ratio was 66,71 %.*

*The power connected per capita is the percentage of the total power connected to the total of population in Indonesia. The PLN power connected in 2009 is 62.893,78 MVA and the projection of population was about 231.369.500. It means per capita power connected is 0,27 KVA/population.*

*Per capita electricity consumption is the percentage of electricity consumption to the total population. Total population up to 2009 is 231.369.500 and consumption of the electric energy is 134.207,46 GWh. Therefore, the per capita electricity consumption is 0,58 kWh/population.*

*Rural electrification ratio is the percentage of the electrified villages to the total one. The electrified villages up to 2009 has been 70.510 villages, while the total number of villages is 75.666, consisting of 45.400 electrified villages outside of Java and 25.060 electrified villages in Java. Therefore, rural electrification ratio is 93,19 %, while the ratio of outside Java was 94 % and in Java 99,76 %.*

#### **NON PLN POWER PLANT**

*Non PLN installed capacities Power Plant in 2009 was 5.518,22 MW consisted of IPP 5.003,22 MW, Batamindo was 115 MW, Krakatau Daya Listrik was 400 MW. and until in 2008 The Non PLN Power Plant was 5.271 MW, increased 246 MW.*







**TABEL 1**  
**SARANA PENYEDIAAN TENAGA LISTRIK NASIONAL**  
*NATIONAL ELECTRIC SUPPLY FACILITIES*

|      | URAIAN                        | / | DESCRIPTION                |      | 2004       | 2005       | 2006       | 2007       | 2008       | 2009       |
|------|-------------------------------|---|----------------------------|------|------------|------------|------------|------------|------------|------------|
| I.   | PEMBANGKIT                    | / | POWER PLANT                | MW   | 26,424.15  | 26,601.66  | 29,738.87  | 30,300.17  | 30,865.85  | 30.915,35  |
|      | a. Pembangkit PLN             | / | PLN'S POWER PLANT          | MW   | 22,340.59  | 22,515.10  | 24,846.21  | 25,223.49  | 25,593.92  | 25.466,16  |
|      | b. Pembangkit Listrik Non PLN | / | PRIVATE'S POWER            | MW   | 4.421,56   | 4.330,56   | 5.192,66   | 5.379,68   | 5.629,93   | 5.449,19   |
|      | - IPP                         |   |                            | MW   | 3,628.56   | 3,571.56   | 4,377.66   | 4,561.68   | 4,756.93   | 4.163,65   |
|      | - PLN Batam                   |   |                            | MW   | 278.00     | 244.00     | 300.00     | 303.00     | 358.00     | 132,32     |
|      | - Batamindo                   |   |                            | MW   | 115.00     | 115.00     | 115.00     | 115.00     | 115.00     | 115,00     |
|      | - Cikaranglistrindo           |   |                            | MW   |            |            |            |            |            | 600,00     |
|      | - PLN Tarakan                 |   |                            | MW   |            |            |            |            |            | 38,22      |
|      | - Krakatau Daya listrik       |   |                            | MW   | 400.00     | 400.00     | 400.00     | 400.00     | 400.00     | 400,00     |
|      | SARANA TRANSMISI PLN          | / | PLN'S TRANSMISSION LINES   |      |            |            |            |            |            |            |
|      | - Transmisi TET               | / | 500 kV TL (EHVTL)          | kms  | 3.578,27   | 3.578,27   | 5.047,78   | 5.047,78   | 5.092,00   | 5.092,00   |
|      | - Transmisi TT                | / | 25 kV s.d 150 kV TL (HVTL) | kms  | 27.215,70  | 27.367,21  | 27.869,05  | 28.115,09  | 29.091,85  | 34.949,14  |
| II.  | GARDU INDUK                   | / | SUB STATION                |      |            |            |            |            |            |            |
|      | - Kapasitas                   | / | Transformer Capacity       | MVA  | 54.128,00  | 53.976,00  | 54.527,00  | 58.713,00  | 59.508,00  | 81.875,00  |
|      | - Jumlah Gardu                | / | Units                      | unit | 1.129,00   | 1.080,00   | 1.101,00   | 1.136,00   | 1.144,00   | 1.220,00   |
|      | SARANA DISTRIBUSI PLN         | / | PLN'S DISTRIBUTION LINES   | kms  |            |            |            |            |            |            |
|      | - J T M                       | / | Medium Voltage (6 - 20) kV | kms  | 236.386,36 | 239.384,16 | 246.775,43 | 253.908,02 | 261.163,20 | 268.611,87 |
|      | - J T R                       | / | Low Voltage (< 6 kV)       | kms  | 322.702,79 | 324.454,18 | 326.274,01 | 344.589,67 | 353.762,00 | 370.905,36 |
| III. | GARDU DISTRIBUSI              | / | DISTRIBUTION SUBSTATION    |      |            |            |            |            |            |            |
|      | - Kapasitas                   | / | Transformer Capacity       | MVA  | 30.595,13  | 31.734,42  | 32.873,70  | 33.826,37  | 32.244,40  | 34.724,80  |
|      | - Jumlah Gardu                | / | Units                      | unit | 241.394,00 | 254.966,00 | 259.444,00 | 279.454,00 | 276.549,00 | 286.724,00 |

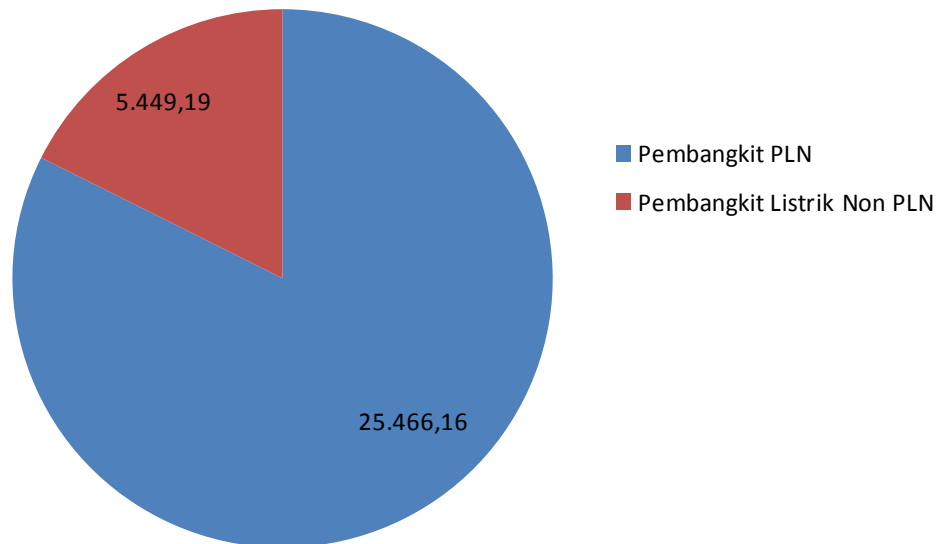
**TABEL 2**  
**KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK NASIONAL**  
*NATIONAL INSTALLED CAPACITY OF POWER PLANT BY TYPE*  
**(MW)**

| TAHUN<br>YEAR | P L T BBM OIL FIRED PP    |                      |                                          |                                 | P L T NON - BBM     |                            |                            |                                      |                                        |
|---------------|---------------------------|----------------------|------------------------------------------|---------------------------------|---------------------|----------------------------|----------------------------|--------------------------------------|----------------------------------------|
|               | PLTU-M<br>STEAM<br>OIL PP | PLTD<br>DIESEL<br>PP | PLTG-M<br>OIL FIRED<br>GAS<br>TURBINE PP | PLTGU-M<br>COMBINED<br>CYCLE PP | PLTA<br>HYDRO<br>PP | PLTP<br>GEOTHER-<br>MAL PP | PLTU-B<br>STEAM<br>COAL PP | PLTU-G<br>STEAM<br>NATURAL<br>GAS PP | PLTG-G<br>NATURAL<br>GAS<br>TURBINE PP |
| 2004          | 1.155,00                  | 2.993,60             | 1.356,52                                 | 2.435,73                        | 3.199,45            | 820,00                     | 7.640,00                   | 955,00                               | 1.446,05                               |
| 2005          | 6.770,00                  | 3.042,12             | 1.865,63                                 | 6.220,97                        | 3.220,96            | 820,00                     | 2.980,00                   | -                                    | 1.321,00                               |
| 2006          | 6.770,00                  | 3.001,49             | 1.869,22                                 | 6.960,97                        | 3.529,11            | 820,00                     | 4.900,00                   | -                                    | 1.527,00                               |
| 2007          | 6.984,00                  | 3.069,77             | 1.925,63                                 | 6.960,97                        | 3.506,54            | 932,50                     | 5.030,00                   | -                                    | 1.527,00                               |
| 2008          | 7.214,00                  | 3.134,40             | 1.638,69                                 | 7.310,97                        | 3.509,28            | 1.002,50                   | 5.095,00                   | -                                    | 1.527,00                               |
| 2009          | 7.214,00                  | 3.094,15             | 1.712,59                                 | 7.310,97                        | 3.513,45            | 1.122,50                   | 5.095,00                   | -                                    | 1,653.00                               |

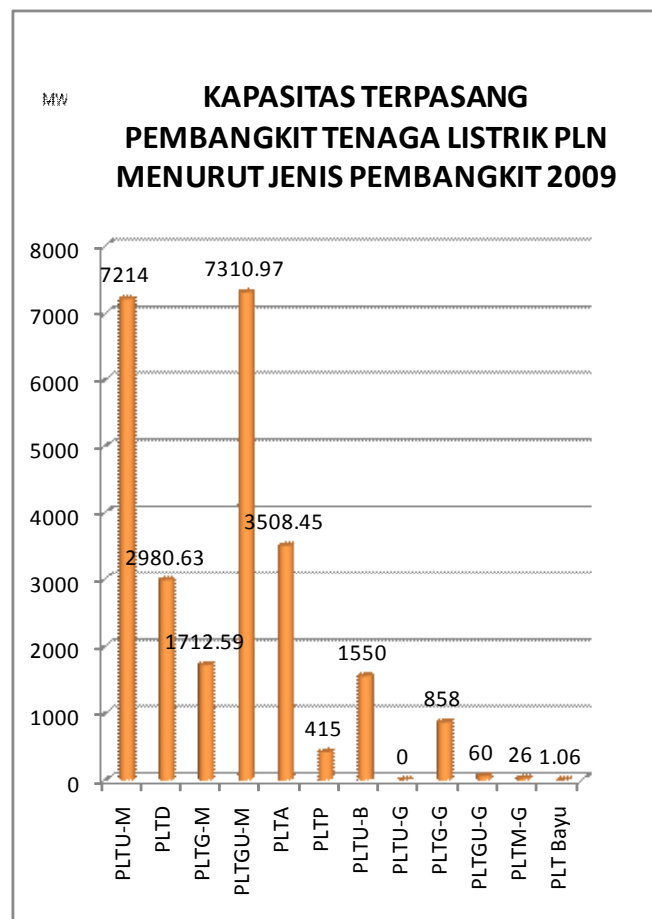
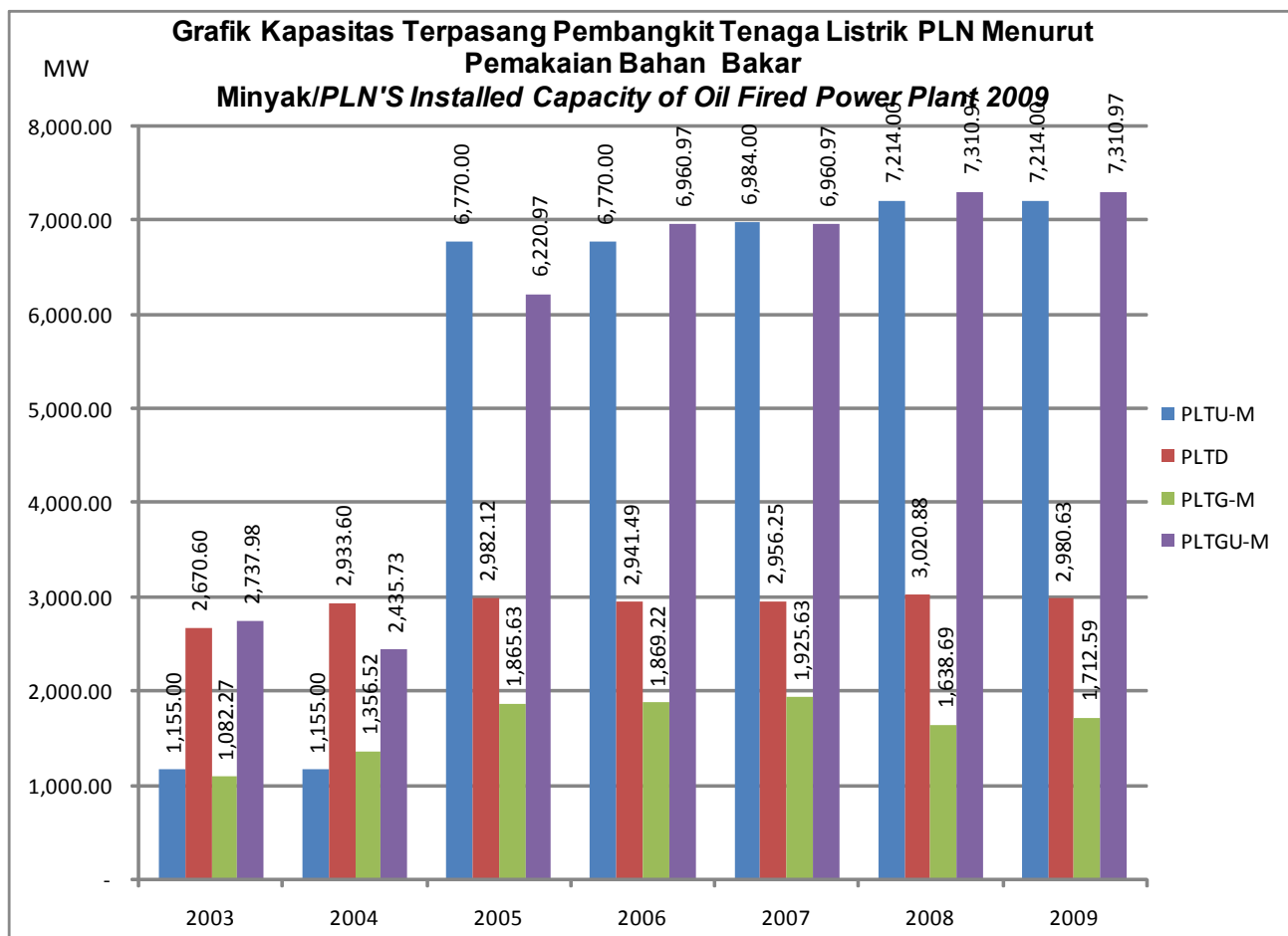
\*) Tidak termasuk captive power / Not included captive power

\*\*) Tidak termasuk captive power dan listrik swasta /  
 Not included captive power and private power

## GRAFIK KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK TAHUN 2009



| NON OIL FIRED PP                |                          |                   |                     |                        | JUMLAH<br>TOTAL |
|---------------------------------|--------------------------|-------------------|---------------------|------------------------|-----------------|
| PLTGU-G<br>COMBINED<br>CYCLE PP | PLTM-G<br>MACHINE<br>GAS | PLTM<br>MINIHYDRO | PLTMH<br>MICROHYDRO | PLT Bayu<br>WIND POWER |                 |
| 4.410,54                        | 12,00                    | -                 | 0,26                | -                      | 26.424,15       |
| 345,00                          | 12,42                    | 3,00              | 0,36                | -                      | 26.601,66       |
| 345,00                          | 12,42                    | 3,00              | 0,36                | -                      | 29.738,87       |
| 345,30                          | 12,00                    | 6,00              | 0,36                | 0,10                   | 30.300,17       |
| 405,30                          | 21,84                    | 6,00              | 0,61                | 0,26                   | 30.865,85       |
| 405,30                          | 26,00                    | 6,00              | 0,90                | 1,06                   | 31.154,92       |





**TABEL 3**  
**SARANA PENYEDIAAN TENAGA LISTRIK PLN**  
*PLN'S ELECTRICITY SUPPLY FACILITIES*

|     | URAIAN             | DESCRIPTION                    |      | 2003       | 2004       | 2005       | 2006       | 2007       | 2008       | 2009       |
|-----|--------------------|--------------------------------|------|------------|------------|------------|------------|------------|------------|------------|
| I.  | PEMBANGKIT         | / POWER PLANT                  | MW   | 21.206,33  | 22.340,59  | 22.515,10  | 24.846,21  | 25.223,49  | 25.593,92  | 25.636,70  |
|     | JUMLAH PLT-BBM     | / TOTAL OIL FIRED PP           | MW   | 7.645,86   | 7.880,86   | 17.838,72  | 18.541,68  | 18.826,85  | 19.184,54  | 19.218,19  |
|     | PLTU               | / Steam PP                     | MW   | 1.155,00   | 1.155,00   | 6.770,00   | 6.770,00   | 6.984,00   | 7.214,00   | 7.214,00   |
|     | PLTD               | / Diesel PP                    | MW   | 2.670,60   | 2.933,60   | 2.982,12   | 2.941,49   | 2.956,25   | 3.020,88   | 2.980,63   |
|     | PLTG               | / Gas Turbine PP               | MW   | 1.082,27   | 1.356,52   | 1.865,63   | 1.869,22   | 1.925,63   | 1.638,69   | 1.712,59   |
|     | PLTGU              | / Combined Cycle PP            | MW   | 2.737,98   | 2.435,73   | 6.220,97   | 6.960,97   | 6.960,97   | 7.310,97   | 7.310,97   |
|     | JUMLAH PLT NON BBM | / TOTAL NON-OIL FIRED PP       | MW   |            |            |            |            |            |            |            |
|     | PLTA               | / Hydro PP                     | MW   | 13.560,47  | 14.459,74  | 4.676,38   | 6.304,53   | 6.396,64   | 6.409,38   | 6.418,51   |
|     | PLTP               | / Geothermal PP                | MW   |            |            |            |            |            |            |            |
|     | PLTU-B             | / Steam Coal PP                | MW   | 3.167,78   | 3.199,45   | 3.220,96   | 3.529,11   | 3.501,54   | 3.504,28   | 3.508,45   |
|     | PLTU-G             | / Steam Natural Gas PP         | MW   | 380,00     | 395,00     | 395,00     | 395,00     | 415,00     | 415,00     | 415,00     |
|     | PLTG-G             | / Gas Turbine PP               | MW   | 4.790,00   | 4.790,00   | 130,00     | 1.450,00   | 1.550,00   | 1.550,00   | 1.550,00   |
|     | PLTGU-G            | / Combined Cycle PP            | MW   | 955,00     | 955,00     | -          | -          | -          | -          | -          |
|     | PLTM-G             | / Machine-Gas                  | MW   | 142,45     | 983,05     | 858,00     | 858,00     | 858,00     | 858,00     | 858,00     |
|     | PLT Bayu           | / Wind Power                   | MW   | 4.125,24   | 4.125,24   | 60,00      | 60,00      | 60,00      | 60,00      | 60,00      |
| II. | SARANA TRANSMISI   | / TRANSMISSION LINES           | kms  |            | 12,00      | 12,42      | 12,42      | 12,00      | 21,84      | 26,00      |
|     | - Transmisi TET    | / 500 kV TL (EHVTL)            | kms  |            | n.a        | n.a        | n.a        | 0,10       | 0,26       | 1,06       |
|     | - Transmisi TT     | / 25 s.d 150 kV TL (HVTL)      | kms  |            |            |            |            |            |            |            |
|     | GARDU INDUK        | / SUB STATION                  |      | 28.172,94  | 30.793,97  | 30.945,48  | 32.916,83  | 33.162,87  | 34.183,85  | 34.183,85  |
|     | - Kapasitas        | / Transformer Capacity         | MVA  | 3.607,61   | 3.578,27   | 3.578,27   | 5.047,78   | 5.047,78   | 5.092,00   | 5.092,00   |
|     | - Jumlah Gardu     | / Units                        | unit | 24.565,33  | 27.215,70  | 27.367,21  | 27.869,05  | 28.115,09  | 29.091,85  | 29.091,85  |
|     | SARANA DISTRIBUSI  | / DISTRIBUTION LINES           | kms  |            |            |            |            |            |            |            |
|     | J T M              | / Medium Voltage (6 s.d 20 kV) | kms  | 53.400,00  | 54.128,00  | 53.976,00  | 54.527,00  | 58.713,00  | 59.508,00  | 59.508,00  |
|     | J T R              | / Low Voltage (< 6 kV)         | kms  | 1.089      | 1.129      | 1.080      | 1.101      | 1.136      | 1.144      | 1.144      |
|     | GARDU DISTRIBUSI   | / DISTRIBUTION SUBSTATION      |      |            |            |            |            |            |            |            |
|     | - Kapasitas        | / Transformer Capacity         | MVA  | 547.210,38 | 607.754,96 | 563.838,34 | 573.049,44 | 598.497,69 | 614.925,20 | 614.925,20 |
|     | - Jumlah Gardu     | / Units                        | unit | 233.381,60 | 285.052,17 | 239.384,16 | 246.775,43 | 253.908,02 | 261.163,20 | 261.163,20 |

**TABEL 4**  
**KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT JENIS PEMBANGKIT**  
*PLN'S INSTALLED CAPACITY OF POWER PLANT BY TYPE*  
**(MW)**

| TAHUN<br>YEAR | P L T B B M O I L F I R E D P P |                      |                                    |                                 | P L T N O N B B M N O N O I L F I R E D P P |                            |                            |                                      |                                        |                                 |                          |                              | JUMLAH<br>TOTAL |
|---------------|---------------------------------|----------------------|------------------------------------|---------------------------------|---------------------------------------------|----------------------------|----------------------------|--------------------------------------|----------------------------------------|---------------------------------|--------------------------|------------------------------|-----------------|
|               | PLTU-M<br>STEAM<br>OIL<br>PP    | PLTD<br>DIESEL<br>PP | PLTG-M<br>GAS<br>TURBINE<br>OIL PP | PLTGU-M<br>COMBINED<br>CYCLE PP | PLTA<br>HYDRO<br>PP                         | PLTP<br>GEOTHER-<br>MAL PP | PLTU-B<br>STEAM<br>COAL PP | PLTU-G<br>STEAM<br>NATURAL<br>GAS PP | PLTG-G<br>NATURAL<br>GAS<br>TURBINE PP | PLTGU-G<br>COMBINED<br>CYCLE PP | PLTM-G<br>MACHINE<br>GAS | PLT<br>Bayu<br>WIND<br>POWER |                 |
| 2004          | 1.155,00                        | 2.933,60             | 1.356,52                           | 2.435,73                        | 3.199,45                                    | 395,00                     | 4.790,00                   | 955,00                               | 983,05                                 | 4.125,24                        | 12,00                    |                              | 22.340,59       |
| 2005          | 6.770,00                        | 2.982,12             | 1.865,63                           | 6.220,97                        | 3.220,96                                    | 395,00                     | 130,00                     | -                                    | 858,00                                 | 60,00                           | 12,42                    |                              | 22.515,10       |
| 2006          | 6.770,00                        | 2.941,49             | 1.869,22                           | 6.960,97                        | 3.529,11                                    | 395,00                     | 1.450,00                   | -                                    | 858,00                                 | 60,00                           | 12,42                    |                              | 24.846,21       |
| 2007          | 6.984,00                        | 2.956,25             | 1.925,63                           | 6.960,97                        | 3.501,54                                    | 415,00                     | 1.550,00                   | -                                    | 858,00                                 | 60,00                           | 12,00                    | 0,10                         | 25.223,49       |
| 2008          | 7.214,00                        | 3.020,88             | 1.638,69                           | 7.310,97                        | 3.504,28                                    | 415,00                     | 1.550,00                   | -                                    | 858,00                                 | 60,00                           | 21,84                    | 0,26                         | 25.593,92       |
| 2009          | 7.214,00                        | 2.980,63             | 1.712,59                           | 7.310,97                        | 3.508,45                                    | 415,00                     | 1.550,00                   | -                                    | 858,00                                 | 60,00                           | 26,00                    | 1,06                         | 25.636,70       |

TABEL 5

**KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN MENURUT JENIS PEMBANGKIT PER WILAYAH**  
*PLN'S INSTALLED CAPACITY OF POWER PLANT BY TYPE AND BY REGION 2009(MW)*

| No<br>Nr. | WILAYAH/<br>PROPINSI             | REGION<br>PROVINCE                      | PLTA<br>HYDRO | PLTP<br>GEO<br>THERMAL | PLTU-M<br>STEAM<br>OIL | PLTU-B<br>STEAM<br>COAL |
|-----------|----------------------------------|-----------------------------------------|---------------|------------------------|------------------------|-------------------------|
| 1         | Nanggroe Aceh Darussalam         | <i>Nanggroe Aceh Darussalam</i>         | 1,75          | -                      | -                      | -                       |
| 2         | Sumatera Utara                   | <i>North Sumatera</i>                   | -             | -                      | -                      | -                       |
| 3         | Sumatera Barat                   | <i>West Sumatera</i>                    | 0,65          | -                      | -                      | -                       |
| 4         | Riau                             | <i>Riau</i>                             | -             | -                      | -                      | -                       |
| 5         | Sumatera Selatan                 | <i>South Sumatera</i>                   | -             | -                      | -                      | -                       |
| 6         | Jambi                            | <i>Jambi</i>                            | -             | -                      | -                      | -                       |
| 7         | Bengkulu                         | <i>Bengkulu</i>                         | 1,60          | -                      | -                      | -                       |
| 8         | Bangka Belitung                  | <i>Bangka Belitung</i>                  | -             | -                      | -                      | -                       |
| 9         | Lampung                          | <i>Lampung</i>                          | -             | -                      | -                      | -                       |
| 10        | Kalimantan Barat                 | <i>West Kalimantan</i>                  | 0,20          | -                      | -                      | -                       |
| 11        | Kalimantan Selatan               | <i>South Kalimantan</i>                 | 30,00         | -                      | -                      | 130,00                  |
| 12        | Kalimantan Tengah                | <i>Centre Kalimantan</i>                | -             | -                      | -                      | -                       |
| 13        | Kalimantan Timur                 | <i>East Kalimantan</i>                  | -             | -                      | 14,00                  | -                       |
| 14        | Sulawesi Utara                   | <i>North Sulawesi</i>                   | 54,66         | 40,00                  | -                      | -                       |
| 15        | Gorontalo                        | <i>Gorontalo</i>                        | -             | -                      | -                      | -                       |
| 16        | Sulawesi Tengah                  | <i>Centre Sulawesi</i>                  | 5,96          | -                      | -                      | -                       |
| 17        | Sulawesi Selatan                 | <i>South Sulawesi</i>                   | 147,72        | -                      | 25,00                  | -                       |
| 18        | Sulawesi Tenggara                | <i>South East Sulawesi</i>              | 1,60          | -                      | -                      | -                       |
| 19        | Sulawesi Barat                   | <i>West Sulawesi</i>                    | -             | -                      | -                      | -                       |
| 20        | Maluku                           | <i>Maluku</i>                           | -             | -                      | -                      | -                       |
| 21        | Maluku Utara                     | <i>North Maluku</i>                     | -             | -                      | -                      | -                       |
| 22        | Papua                            | <i>Papua</i>                            | 4,04          | -                      | -                      | -                       |
| 23        | Distribusi Bali                  | <i>Dist. Bali</i>                       | -             | -                      | -                      | -                       |
| 24        | Nusa Tenggara Barat              | <i>West Nusa Tenggara</i>               | 0,40          | -                      | -                      | -                       |
| 25        | Nusa Tenggara Timur              | <i>East Nusa Tenggara</i>               | 1,37          | -                      | -                      | -                       |
| 26        | Kit Sumbagut                     | <i>Kit Sumbagut</i>                     | 253,50        | -                      | 490,00                 | -                       |
| 27        | Kit Sumbagsel                    | <i>Kit Sumbagsel</i>                    | 607,96        | -                      | 685,00                 | -                       |
| 28        | P3B Sumatera                     | <i>P3B Sumatera</i>                     | -             | -                      | -                      | -                       |
|           | LUAR JAWA                        | <i>OUT SIDE JAVA</i>                    | 1.111,41      | 40,00                  | 1.214,00               | 130,00                  |
| 29        | Dist. Jawa Timur                 | <i>Dist. East Java</i>                  | 2,45          | -                      | -                      | -                       |
| 30        | Jawa Tengah                      | <i>Dist. Central Java</i>               | 0,38          | -                      | -                      | -                       |
| 31        | D.I. Yogyakarta                  | <i>D.I Yogyakarta</i>                   | 0,32          | -                      | -                      | -                       |
| 32        | Jawa Barat                       | <i>West Java</i>                        | 0,71          | -                      | -                      | -                       |
| 33        | Banten                           | <i>Banten</i>                           | -             | -                      | -                      | -                       |
| 34        | Dist. Jakarta Raya dan Tangerang | <i>Dist. Jakarta Raya dan Tangerang</i> | -             | -                      | -                      | -                       |
| 35        | PT Indonesia Power               | <i>PT Indonesia Power</i>               | 1.103,80      | 375,00                 | 3.900,00               | -                       |
| 36        | PT PJB                           | <i>PT PJB</i>                           | 1.289,38      | -                      | 2.100,00               | -                       |
| 37        | Pembangkitan Muara Tawar         | <i>Pembangkitan Muara Tawar</i>         | -             | -                      | -                      | -                       |
| 38        | Pembangkitan Cilegon             | <i>Pembangkitan Cilegon</i>             | -             | -                      | -                      | -                       |
| 39        | Pembangkitan Tanjung Jati B      |                                         | -             | -                      | -                      | 1.420,00                |
|           | J A W A                          | <i>J A V A</i>                          | 2.397,04      | 375,00                 | 6.000,00               | 1.420,00                |
|           | INDONESIA                        | <i>INDONESIA</i>                        | 3.508,45      | 415,00                 | 7.214,00               | 1.550,00                |

| PLTD<br>DIESEL | PLTG-M<br>GAS<br>TURBINE | PLTG-G<br>NATURAL<br>GAS<br>TURBINE | PLTGU-M<br>COMBINED<br>CYCLE | PLTGU-G<br>COMBINED<br>CYCLE | PLTM-G<br>MACHINE<br>GAS | PLT Bayu<br>WIND<br>POWER | JUMLAH<br>TOTAL |
|----------------|--------------------------|-------------------------------------|------------------------------|------------------------------|--------------------------|---------------------------|-----------------|
| 153,45         | -                        | -                                   | -                            | -                            | -                        | -                         | 155,20          |
| 15,66          | -                        | -                                   | -                            | -                            | -                        | -                         | 15,66           |
| 33,75          | -                        | -                                   | -                            | -                            | -                        | -                         | 34,40           |
| 167,53         | -                        | -                                   | -                            | -                            | -                        | -                         | -               |
| 18,14          | -                        | -                                   | -                            | -                            | -                        | -                         | 18,14           |
| 11,74          | -                        | -                                   | -                            | -                            | -                        | -                         | 11,74           |
| 22,72          | -                        | -                                   | -                            | -                            | -                        | -                         | 24,32           |
| 101,13         | -                        | -                                   | -                            | -                            | -                        | -                         | 101,13          |
| 8,03           | -                        | -                                   | -                            | -                            | -                        | -                         | 8,03            |
| 259,55         | 34,00                    | -                                   | -                            | -                            | -                        | -                         | 293,75          |
| 130,25         | 21,00                    | -                                   | -                            | -                            | -                        | -                         | 311,25          |
| 83,02          | -                        | -                                   | -                            | -                            | -                        | -                         | 83,02           |
| 320,43         | 52,80                    | -                                   | -                            | 60,00                        | 14,00                    | -                         | 461,23          |
| 117,64         | -                        | -                                   | -                            | -                            | -                        | 0,80                      | 213,10          |
| 40,66          | -                        | -                                   | -                            | -                            | -                        | -                         | 40,66           |
| 98,31          | -                        | -                                   | -                            | -                            | -                        | -                         | 104,27          |
| 144,57         | 122,72                   | -                                   | -                            | -                            | -                        | -                         | 440,01          |
| 73,09          | -                        | -                                   | -                            | -                            | -                        | -                         | 74,69           |
| 3,23           |                          |                                     |                              |                              |                          |                           | 3,23            |
| 116,18         | -                        | -                                   | -                            | -                            | -                        | -                         | 116,18          |
| 66,03          | -                        | -                                   | -                            | -                            | -                        | -                         | 66,03           |
| 166,67         | -                        | -                                   | -                            | -                            | -                        | -                         | 170,71          |
| 3,43           | -                        | -                                   | -                            | -                            | -                        | 0,26                      | 3,69            |
| 139,18         | -                        | -                                   | -                            | -                            | -                        | -                         | 139,58          |
| 110,72         | -                        | -                                   | -                            | -                            | -                        | -                         | 112,09          |
| 108,18         | 233,49                   | -                                   | 817,88                       | -                            | -                        | -                         | 1.903,05        |
| 211,42         | 314,82                   | -                                   | 40,00                        | -                            | -                        | -                         | 1.859,20        |
| -              | -                        | -                                   | -                            | -                            | -                        | -                         | -               |
| 2.724,71       | 778,83                   | -                                   | 857,88                       | 60,00                        | 14,00                    | 1,06                      | 6.931,89        |
| 12,26          |                          |                                     |                              |                              | -                        | -                         | 14,71           |
| -              |                          |                                     |                              |                              | -                        | -                         | 0,38            |
| -              |                          |                                     |                              |                              | -                        | -                         | 0,32            |
| -              |                          |                                     |                              |                              | -                        | -                         | 0,71            |
| 0,22           | -                        | -                                   | -                            | -                            | -                        | -                         | 0,22            |
| -              | -                        | -                                   | -                            | -                            | -                        | -                         | -               |
| 91,90          | 846,36                   | -                                   | 2.675,73                     | -                            | -                        | -                         | 8.992,79        |
| -              | 80,40                    | -                                   | 3.037,36                     | -                            | -                        | -                         | 6.507,14        |
| -              |                          | 858,00                              | -                            | -                            | -                        | -                         | 858,00          |
|                |                          |                                     | 740,00                       |                              |                          |                           | 740,00          |
|                |                          |                                     |                              |                              |                          |                           | 1.420,00        |
| 104,38         | 926,76                   | 858,00                              | 6.453,09                     | -                            | -                        | -                         | 18.534,27       |
| 2.829,09       | 1.705,59                 | 858,00                              | 7.310,97                     | 60,00                        | 14,00                    | 1,06                      | 25.466,16       |



**TABEL 6**  
**PEMBANGUNAN PEMBANGKIT ENERGI BARU TERBARUKAN**  
*DEVELOPMENT GENERATING RENEWABLE ENERGY*

| NO. | REGION<br>PROVINCE    | JENIS PEMBANGKIT<br>POWER PLANT BY TYPE                                                      | 2006                        |                                | 2007                         |                                | 2008                              |                                | 2009                              |                                |
|-----|-----------------------|----------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|
|     |                       |                                                                                              | KW                          | UNIT                           | KW                           | UNIT                           | KW                                | UNIT                           | KW                                | UNIT                           |
| 1   | NAD                   | - SHS<br>- PLT BIODIESEL<br>- PLT HYBRID SURYA ANGIN                                         | -<br>-<br>-                 | 963<br>-<br>-                  | -<br>8.296<br>-              | 1.967<br>-<br>-                | -<br>-<br>-                       | 1.420<br>-<br>-                | 1.645<br>-<br>-                   | 3.690<br>-<br>1                |
| 2   | SUMATERA<br>UTARA     | - SHS<br>- PLT HYBRID SURYA ANGIN<br>- PLTMH                                                 | -<br>-<br>-                 | 858<br>-<br>-                  | -<br>-<br>-                  | 1.989<br>-<br>-                | -<br>-<br>-                       | -<br>-<br>-                    | -<br>56<br>-                      | 2.760<br>1<br>-                |
| 3   | SUMATERA<br>BARAT     | - SHS<br>- PLTMH                                                                             | -<br>-                      | 315<br>2                       | -<br>52                      | 828<br>1                       | -<br>-                            | 1.325<br>-                     | 1.663<br>-                        | 3.366<br>-                     |
| 4   | RIAU                  | - SHS<br>- PLTS 10 Wp TERPUSAT<br>- PLT BIODIESEL<br>- PLTMH                                 | -<br>-<br>-<br>-            | 1.378<br>-<br>-<br>-           | -<br>-<br>8.825<br>-         | 1.553<br>1<br>-<br>-           | -<br>-<br>-<br>39                 | 1.760<br>-<br>-<br>1           | -<br>-<br>-<br>-                  | 2.625<br>-<br>-<br>-           |
| 5   | KEPULAUAN RIAU        | - SHS<br>- PLT HYBRID SURYA ANGIN                                                            | -<br>-                      | -<br>-                         | -<br>-                       | -<br>-                         | -<br>-                            | -<br>-                         | -<br>-                            | -<br>4                         |
| 5   | SUMATERA SELATAN      | - SHS                                                                                        | -                           | 678                            | -                            | 2.518                          | -                                 | 1.900                          | 1.911,5                           | 3.823                          |
| 6   | JAMBI                 | - SHS                                                                                        | -                           | 885                            | -                            | 1.412                          | -                                 | 1.300                          | 1.005                             | 2.010                          |
| 7   | BENGKULU              | - SHS<br>- PLTMH                                                                             | -<br>-                      | 506<br>-                       | -<br>-                       | 1.513<br>-                     | -<br>50                           | 1.250<br>1                     | -<br>-                            | -<br>-                         |
| 8   | BANGKA BELITUNG       | - SHS<br>- PLTB                                                                              | -<br>80                     | 1.153<br>-                     | -<br>-                       | 777<br>1                       | -<br>-                            | 1.100<br>-                     | 1.480<br>-                        | 2.960<br>-                     |
| 9   | LAMPUNG               | - SHS<br>- PLTMH                                                                             | -<br>100                    | 400<br>-                       | -<br>-                       | 1.928<br>-                     | -<br>-                            | 1.450<br>-                     | 1.540<br>180                      | 3.080<br>-                     |
| 10  | KALIMANTAN BARAT      | - SHS<br>- PLTMH<br>- PLT BIODIESEL                                                          | -<br>140<br>-               | 345<br>2<br>-                  | -<br>-<br>18.828             | 1.104<br>-<br>-                | -<br>-<br>-                       | 1.380<br>-<br>-                | -<br>115<br>-                     | -<br>-<br>-                    |
| 11  | KALIMANTAN<br>SELATAN | - SHS<br>- PLTMH                                                                             | -<br>90                     | 350<br>3                       | -<br>80                      | 1.205<br>1                     | -<br>40                           | 1.250<br>1                     | -<br>-                            | -<br>-                         |
| 12  | KALIMANTAN TENGAH     | - SHS                                                                                        | -                           | 1.354                          | -                            | 1.403                          | -                                 | 1.950                          | 2.135                             | 4.270                          |
| 13  | KALIMANTAN TIMUR      | - SHS<br>- PLTMH<br>- PLT HYBRID SURYA ANGIN                                                 | -<br>90<br>-                | 1.150<br>3<br>-                | -<br>80<br>-                 | 1.470<br>1<br>-                | -<br>238<br>-                     | 980<br>1<br>-                  | 1.309<br>44,3<br>-                | 2.616<br>-<br>2                |
| 14  | SULAWESI UTARA        | - SHS<br>- PLTS Terpusat 15 kWp<br>- PLTMH<br>- GENSET<br>- PLTB<br>- PLT HYBRID SURYA ANGIN | -<br>-<br>-<br>-<br>80<br>- | 1.236<br>-<br>-<br>-<br>-<br>- | -<br>-<br>160<br>-<br>-<br>- | 1.396<br>-<br>2<br>-<br>-<br>- | -<br>-<br>-<br>1.000,00<br>-<br>- | 1.250<br>1<br>-<br>4<br>-<br>- | 1.542,5<br>-<br>18<br>-<br>-<br>- | 3.085<br>-<br>-<br>-<br>-<br>5 |
| 15  | GORONTALO             | - SHS<br>- PLTS Terpusat 15 kWp<br>- PLTS Hibrid<br>- PLTMH                                  | -<br>-<br>-<br>-            | 1.373<br>-<br>-<br>-           | -<br>-<br>-<br>-             | 1.282<br>-<br>-<br>-           | -<br>-<br>-<br>256                | 900<br>1<br>1<br>1             | 803<br>-<br>-<br>-                | 1.606<br>-<br>-<br>-           |
| 16  | SULAWESI TENGAH       | - PLTS 50 Wp<br>- SHS<br>- PLTMH                                                             | -<br>-<br>890               | 626<br>-<br>1                  | -<br>-<br>890                | 1.493<br>-<br>1                | -<br>-<br>890                     | 880<br>-<br>1                  | -<br>1.103<br>27                  | -<br>2.206<br>-                |
| 17  | SULAWESI SELATAN      | - SHS<br>- PLTS 10 Wp<br>- PLTMH<br>- PLTB                                                   | -<br>-<br>-<br>-            | 1.635<br>1.800<br>-<br>-       | -<br>-<br>-<br>-             | 4.686<br>-<br>-<br>3           | -<br>-<br>34<br>-                 | 2.600<br>-<br>-<br>2           | 1.162,5<br>-<br>301<br>-          | 2.325<br>-<br>-<br>-           |
| 18  | SULAWESI TENGGARA     | - SHS                                                                                        | -                           | 1.186                          | -                            | 2.460                          | -                                 | 2.000                          | 2.465                             | 4.970                          |
| 19  | SULAWESI BARAT        | - PLTS 50 Wp<br>- PLTMH                                                                      | -<br>-                      | -<br>-                         | -<br>-                       | -<br>-                         | -<br>-                            | -<br>-                         | -<br>87                           | -<br>2                         |
| 20  | MALUKU                | - SHS                                                                                        | -                           | 2.290                          | -                            | 1.494                          | -                                 | 1.220                          | 2.087,5                           | 4.175                          |
| 21  | MALUKU UTARA          | - SHS                                                                                        | -                           | 832                            | -                            | 1.311                          | -                                 | 1.500                          | 1.576                             | 3.152                          |
| 22  | PAPUA                 | - SHS<br>- PLTS 10 Wp TERPUSAT<br>- PLTMH<br>- PLT HYBRID SURYA ANGIN                        | -<br>-<br>350<br>-          | 615<br>-<br>2<br>-             | -<br>-<br>-<br>-             | 1.246<br>1<br>-<br>-           | -<br>-<br>-<br>-                  | 1.450<br>-<br>-<br>-           | 1.497,5<br>-<br>-<br>-            | 2.995<br>-<br>-<br>3           |
| 23  | NUSA TENGGARA BARAT   | - SHS<br>- PLTMH<br>- PLTS Terpusat 15 kWp                                                   | -<br>100<br>-               | 746<br>1<br>-                  | -<br>-<br>-                  | 1.810<br>-<br>-                | -<br>88<br>-                      | 1.450<br>-<br>1                | 711,5<br>200<br>-                 | 1.423<br>-<br>-                |

|     |                         |                                       |       |        |        |        |       |        |         |        |
|-----|-------------------------|---------------------------------------|-------|--------|--------|--------|-------|--------|---------|--------|
| 24  | NUSA TENGGARA TIMUR     | - SHS                                 | -     | 2.300  | -      | 2.494  | -     | 2.964  | 1.791   | 3.582  |
|     |                         | - PLTMH                               | 50    | 1      | -      | -      | -     | -      | 30      | -      |
|     |                         | - PLTS Terpusat 15 kWp                | -     | -      | -      | -      | -     | 1      | -       | -      |
|     |                         | - PLT HYBRID SURYA ANGIN              | -     | -      | -      | -      | -     | -      | -       | 2      |
| 25  | JAWA TIMUR              | - SHS                                 | -     | 366    | -      | 355    | -     | 710    | 965     | 1.970  |
|     |                         | - PLTS 10 Wp TERPUSAT                 | -     | -      | -      | 1      | -     | -      | -       | -      |
|     |                         | - PLTMH                               | 100   | 2      | -      | -      | -     | -      | -       | -      |
|     |                         | - PLTS Terpusat 15 kWp                | -     | -      | -      | -      | -     | 1      | -       | -      |
| 26  | JAWA TENGAH & DIY       | - SHS                                 | -     | -      | -      | 303    | -     | 500    | 438,5   | 877    |
|     |                         | - PLTS Terpusat 10 kWp                | -     | -      | -      | 1      | -     | -      | -       | -      |
|     |                         | - PLTMH                               | 50    | 1      | 85     | 4      | -     | -      | 60      | 3      |
|     |                         | - PLTS Terpusat 15 kWp                | -     | -      | -      | -      | -     | 1      | -       | -      |
| 27  | JAWA BARAT              | - SHS                                 | -     | -      | -      | 189    | -     | 700    | 1.313   | 2.626  |
|     |                         | - PLTS Terpusat 10 kWp                | -     | -      | -      | 1      | -     | -      | -       | -      |
|     |                         | - PLTMH                               | 20    | 1      | 67     | 2      | -     | -      | 60      | -      |
|     |                         | - PLTS Terpusat 15 kWp                | -     | -      | -      | -      | -     | 1      | -       | -      |
| 28  | BANTEN                  | - SHS                                 | -     | 215    | -      | 371    | -     | 400    | -       | -      |
|     |                         | - PLTMH                               | -     | -      | 40     | 1      | -     | -      | 138,5   | 277    |
| 29  | BALI                    | - SHS                                 | -     | -      | -      | -      | -     | 550    | 374,5   | 67.186 |
|     |                         | - PLTMH                               | -     | -      | -      | -      | -     | -      | -       | -      |
|     |                         | - PLTB                                | 80    | -      | 80     | 1      | -     | -      | -       | -      |
|     |                         | - PLTS Interkoneksi jaringan          | -     | -      | -      | -      | 30    | -      | -       | -      |
| 330 | DKI JAKARTA             | - PLT HYBRID SURYA ANGIN (KEP SIRIBU) | -     | -      | -      | -      | -     | -      | -       | -      |
|     | DKI JAKARTA (KEP. 1000) | - PLTS Hibrid                         | -     | -      | -      | -      | -     | 2      | -       | -      |
|     | TOTAL                   | - SHS                                 | -     | 23.755 | -      | 40.557 | -     | 37.297 | 33.593  | 67.186 |
|     |                         | - PLTS 10 Wp TERPUSAT                 | -     | -      | -      | 5      | -     | -      | -       | -      |
|     |                         | - PLTS TERPUSAT 15 KWp                | -     | -      | -      | -      | -     | 7      | -       | -      |
|     |                         | - PLTMH                               | 1.942 | 16     | 1.374  | 12     | 1.635 | 6      | 1.178,3 | 15     |
|     |                         | - PLTB                                | 240   | -      | 80     | 5      | -     | 2      | -       | -      |
|     |                         | - PLT ANGIN HAS 50 W                  | -     | -      | -      | -      | -     | -      | -       | -      |
|     |                         | - PLT BIODIESEL                       | -     | -      | 27.653 | -      | -     | -      | -       | -      |
|     |                         | - GENSET                              | -     | -      | -      | -      | 1.000 | 4      | -       | -      |
|     |                         | - PLTS Hibrid                         | -     | -      | -      | -      | -     | 3      | -       | -      |
|     |                         | - PLTS INTERKONEKSI                   | -     | -      | -      | -      | 30    | -      | -       | -      |
|     |                         | - PLT HYBRID SURYA ANGIN              | -     | -      | -      | -      | -     | -      | -       | 15     |

TABEL 7

## JUMLAH UNIT PEMBANGKIT TENAGA LISTRIK PLN PER JENIS PEMBANGKIT PER WILAYAH PER WILAYAH 2009

PLN'S NUMBER OF UNIT POWER PLANT BY TYPE OF POWER PLANT AND BY REGION 2009

(UNIT)

| No<br>Nr. | WILAYAH<br>PROPINSI              | REGION<br>PROVINCE               | PLTA<br>HYDRO | PLTU<br>STEAM | PLTG<br>GAS<br>TURBINE | PLTGU-G<br>COMBINED<br>CYCLE | PLTP<br>GEO-<br>THERMAL | PLTD<br>DIE-<br>SEL | PLTM-G<br>MACHINE-<br>GAS | PLT Bayu<br>WIND<br>POWER | JUMLAH<br>TOTAL |
|-----------|----------------------------------|----------------------------------|---------------|---------------|------------------------|------------------------------|-------------------------|---------------------|---------------------------|---------------------------|-----------------|
| 1         | Nanggroe Aceh Darussalam         | Nanggroe Aceh Darus-salam        | 2             | -             | -                      | -                            | -                       | 215                 | -                         | -                         | 217             |
| 2         | Sumatera Utara                   | North Sumatera                   | -             | -             | -                      | -                            | -                       | 21                  | -                         | -                         | 21              |
| 3         | Sumatera Barat                   | West Sumatera                    | 3             | -             | -                      | -                            | -                       | 101                 | -                         | -                         | 104             |
| 4         | Riau                             | Riau                             | -             | -             | -                      | -                            | -                       | 373                 | -                         | -                         | 373             |
| 5         | Sumatera Selatan                 | South Sumatera                   | -             | -             | -                      | -                            | -                       | 138                 | -                         | -                         | 138             |
| 6         | Jambi                            | Jambi                            | -             | -             | -                      | -                            | -                       | 54                  | -                         | -                         | 54              |
| 7         | Bengkulu                         | Bengkulu                         | 2             | -             | -                      | -                            | -                       | 91                  | -                         | -                         | 93              |
| 8         | Bangka Belitung                  | Bangka Belitung                  | -             | -             | -                      | -                            | -                       | 85                  | -                         | -                         | 85              |
| 9         | Lampung                          | Lampung                          | -             | -             | -                      | -                            | -                       | 40                  | -                         | -                         | 40              |
| 10        | Kalimantan Barat                 | West Kalimantan                  | 2             | -             | 1                      | -                            | -                       | 302                 | -                         | -                         | 305             |
| 11        | Kalimantan Selatan               | South Kalimantan                 | 3             | 2             | 1                      | -                            | -                       | 126                 | -                         | -                         | 132             |
| 12        | Kalimantan Tengah                | Centre Kalimantan                | -             | -             | -                      | -                            | -                       | 282                 | -                         | -                         | 282             |
| 13        | Kalimantan Timur                 | East Kalimantan                  | -             | 2             | 3                      | 3                            | -                       | 368                 | 2                         | -                         | 378             |
| 14        | Sulawesi Utara                   | North Sulawesi                   | 11            | -             | -                      | -                            | 2                       | 145                 | -                         | 1                         | 159             |
| 15        | Gorontalo                        | Gorontalo                        | -             | -             | -                      | -                            | -                       | 46                  | -                         | -                         | 46              |
| 16        | Sulawesi Tengah                  | Centre Sulawesi                  | 6             | -             | -                      | -                            | -                       | 280                 | -                         | -                         | 286             |
| 17        | Sulawesi Selatan                 | South Sulawesi                   | 7             | 2             | 5                      | -                            | -                       | 97                  | -                         | -                         | 111             |
| 18        | Sulawesi Tenggara                | South East Sulawesi              | 2             | -             | -                      | -                            | -                       | 159                 | -                         | -                         | 161             |
| 19        | Sulawesi Barat                   | West Sulawesi                    | -             | -             | -                      | -                            | -                       | 33                  | -                         | -                         | 33              |
| 20        | Maluku                           | Maluku                           | -             | -             | -                      | -                            | -                       | 184                 | -                         | -                         | 184             |
| 21        | Maluku Utara                     | North Maluku                     | -             | -             | -                      | -                            | -                       | 321                 | -                         | -                         | 321             |
| 22        | Papua                            | Papua                            | 9             | -             | -                      | -                            | -                       | 411                 | -                         | -                         | 420             |
| 23        | Distribusi Bali                  | Dist. Bali                       | -             | -             | -                      | -                            | -                       | 11                  | -                         | 1                         | 12              |
| 24        | Nusa Tenggara Barat              | West Nusa Tenggara               | 2             | -             | -                      | -                            | -                       | 157                 | -                         | -                         | 159             |
| 25        | Nusa Tenggara Timur              | East Nusa Tenggara               | 6             | -             | -                      | -                            | -                       | 367                 | -                         | -                         | 373             |
| 26        | PT PLN Batam                     | PT PLN BATAM                     | -             | -             | -                      | -                            | -                       | 29                  | -                         | -                         | 29              |
| 27        | PT PLN Tarakan                   | PT PLN TARAkan                   | -             | -             | 2                      | -                            | -                       | 9                   | 2                         | -                         | 13              |
| 28        | Kit Sumbagut                     | Kit Sumbagut                     | 20            | 6             | 12                     | 6                            | -                       | 39                  | -                         | -                         | 83              |
| 29        | Kit Sumbagsel                    | Kit Sumbagsel                    | 24            | 10            | 15                     | 1                            | -                       | 48                  | -                         | -                         | 98              |
|           | LUAR JAWA                        | OUT SIDE JAVA                    | 99            | 22            | 39                     | 10                           | 2                       | 4.532               | 4                         | 2                         | 4.710           |
| 30        | Dist. Jawa Timur                 | Dist. East Java                  | 3             | -             | -                      | -                            | -                       | 46                  | -                         | 1                         | 50              |
| 31        | Jawa Tengah                      | Dist. Central Java               | 2             | -             | -                      | -                            | -                       | -                   | -                         | -                         | 2               |
| 32        | Yogyakarta                       | D.I Yogyakarta                   | 1             | -             | -                      | -                            | -                       | -                   | -                         | -                         | 1               |
| 33        | Jawa Barat                       | West Java                        | 4             | -             | -                      | -                            | -                       | -                   | -                         | -                         | 4               |
| 34        | Banten                           | Banten                           | -             | -             | -                      | -                            | -                       | 2                   | -                         | -                         | 2               |
| 35        | Dist. Jakarta Raya dan Tangerang | Dist. Jakarta Raya dan Tangerang | -             | -             | -                      | -                            | -                       | -                   | -                         | -                         | -               |
| 36        | PT Indonesia Power               | PT Indonesia Power               | 58            | 14            | 18                     | 20                           | 7                       | 17                  | -                         | -                         | 134             |
| 37        | PT PJB                           | PT PJB                           | 34            | 11            | 6                      | 20                           | -                       | -                   | -                         | -                         | 71              |
| 38        | P3B Jawa Bali                    | Pembangkitan Muara Tawar         | -             | -             | -                      | -                            | -                       | -                   | -                         | -                         | -               |
| 38        | Pembangkitan Muara Tawar         | Pembangkitan Muara Tawar         | -             | -             | -                      | 6                            | -                       | -                   | -                         | -                         | 6               |
| 39        | Pembangkitan Cilegon             | Pembangkitan Cilegon             | -             | -             | -                      | 3                            | -                       | -                   | -                         | -                         | 3               |
| 40        | Pembangkitan Tanjung Jati B      | Pembangkitan Tanjung Jati B      | -             | 2             | -                      | -                            | -                       | -                   | -                         | -                         | 2               |
|           | J A W A                          | J A V A                          | 102           | 27            | 24                     | 49                           | 7                       | 65                  | -                         | 1                         | 275             |
|           | INDONESIA                        | INDONESIA                        | 201           | 49            | 63                     | 59                           | 9                       | 4.597               | 4                         | 3                         | 4.985           |

Catatan / Note :

Jumlah PLTD PT PLN Tarakan, termasuk PLTD/G (Diesel Gas/Dual Fuel) / IP mengubah PLTGU Grati dan PLTGU Pemaron menjadi PLTG

Number of PLTD PT PLN Tarakan is include PLTD/G (Diesel/Dual Fuel) IP change PLTGU Grati and PLTGU Pemaron to PLTG

Catatan tahun 2006 / Note in 2006 :

Jumlah unit pembangkit mengalami penurunan disebabkan koreksi angka dari Wil. NTT.

Pada th 2005 jumlah unit pembangkit Wil NTT sebesar 560 unit, tetapi pada th 2007 dikoreksi menjadi 394 unit pembangkit

Number of unit power plant is discreded cause of correction on NTT  
In 2005 Number of unit power plant NTT is 560, but in 2006 is corrected to 394

**TABEL 8**  
**DAYA MAMPU KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN**  
**RATED CAPACITY OF POWER PLANT**  
**(MW)**

| TAHUN YEAR | PLTA HYDRO PP | PLTU STEAM PP | PLTG GAS PP | PLTGU COMBINED CYCLE PP | PLTP GEOTHERMAL PP | PLTD*) DIESEL PP | PLT Bayu WIND POWER | JUMLAH TOTAL |
|------------|---------------|---------------|-------------|-------------------------|--------------------|------------------|---------------------|--------------|
| 1998       | 2.994,64      | 6.700,40      | 1.086,86    | 6.463,09                | 360,00             | 1.649,36         | -                   | 19.254,35    |
| 1999       | 2.985,10      | 6.671,50      | 997,81      | 6.264,09                | 360,00             | 1.890,45         | -                   | 19.168,95    |
| 2000       | 2.747,42      | 6.508,31      | 901,90      | 6.456,13                | 360,00             | 1.692,64         | -                   | 18.666,40    |
| 2001       | 2.952,45      | 6.502,28      | 1.054,82    | 6.306,19                | 379,62             | 1.694,48         | -                   | 18.889,84    |
| 2002       | 2.836,16      | 6.144,17      | 861,99      | 6.074,35                | 379,88             | 1.657,33         | -                   | 17.953,88    |
| 2003       | 3.122,93      | 6.185,50      | 1.457,00    | 5.923,40                | 360,00             | 1.730,41         | -                   | 18.779,24    |
| 2004       | 2.991,63      | 5.934,52      | 1.435,89    | 5.609,65                | 359,16             | 1.713,02         | -                   | 18.043,87    |
| 2005       | 3.079,53      | 5.657,07      | 2.829,11    | 5.854,39                | 339,86             | 1.776,42         | -                   | 19.536,38    |
| 2006       | 3.283,24      | 7.608,16      | 2.323,48    | 6.493,77                | 373,71             | 1.937,27         | -                   | 22.019,63    |
| 2007       | 3.409,12      | 7.748,73      | 2.455,87    | 6.165,33                | 388,00             | 1.885,56         | -                   | 22.052,61    |
| 2008       | 3.397,87      | 7.406,12      | 2.173,79    | 6.399,79                | 394,00             | 1.808,53         | 0,26                | 21.580,36    |
| 2009       | 3.418,62      | 7.976,65      | 2.236,66    | 6.340,60                | 394,00             | 1.669,11         | 1,06                | 22.047,63    |

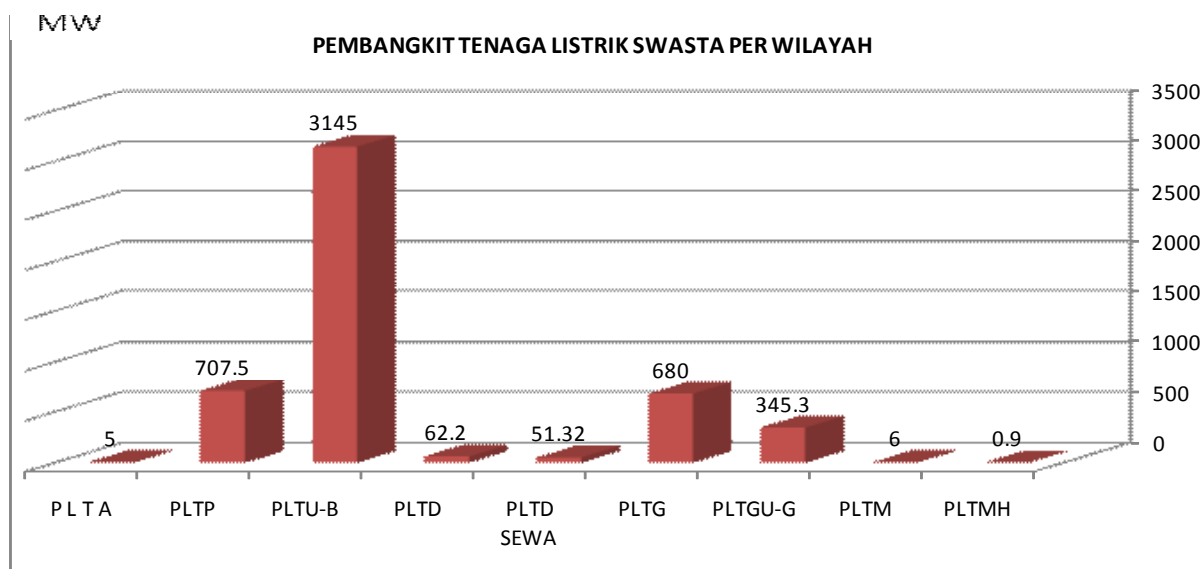
Catatan/Note : \*) Termasuk PLTMG, mulai tahun 2004/include PLTMG since 1994

**TABEL 9**  
**PEMBANGKIT TENAGA LISTRIK SWASTA PER WILAYAH 2009**  
**THE PRIVATE POWER BY REGION 2008**  
**(MW)**

| REGION           | PROVINCE        | PLTA HYDRO | PLTP GEOTHERMAL | PLTU-B STEAM COAL | PLTD DIESEL | PLTG Natural Gas | PLTGU-G COMBINED CYCLE | PLTM MINI-HYDRO | PLTMH MICRO-HYDRO | JUMLAH TOTAL |
|------------------|-----------------|------------|-----------------|-------------------|-------------|------------------|------------------------|-----------------|-------------------|--------------|
| ACEH             | Aceh            |            |                 | 15,00             |             |                  |                        |                 |                   | 15,00        |
| SUMATERA SELATAN | South Sumatera  |            | -               | -                 |             | 80,00            |                        |                 |                   | 80,00        |
| SUMATERA UTARA   | South Sumatera  |            | 10,00           | -                 |             | -                | -                      |                 |                   | 10,00        |
| KALIMANTAN TIMUR | East Kalimantan |            | -               | 50,00             |             |                  |                        |                 |                   | 50,00        |
| SULAWESI SELATAN | South Sulawesi  |            | -               | -                 |             |                  | 60,00                  |                 | 0,29              | 60,29        |
| SULAWESI TENGAH  | Center Sulawesi |            | -               | 30,00             |             |                  | -                      |                 |                   | 30,00        |
| SULAWESI UTARA   | North Sulawesi  |            | -               |                   |             |                  | -                      | 3,00            |                   | 3,00         |
| JAWA TIMUR       | East Jawa       |            | -               | 2.450,00          |             |                  | -                      |                 |                   | 2450,00      |
| JAWA TENGAH      | Central Jawa    |            | 180,00          | 600,00            |             |                  | -                      |                 | 0,14              | 780,14       |
| JAWA BARAT       | West Jawa       |            | 685,00          | -                 |             |                  |                        |                 | 0,22              | 685,22       |
| JUMLAH           | TOTAL           | -          | 875,00          | 3.145,00          | -           | -                | 80,00                  | 60,00           | 3,00              | 4.163,65     |

\* Sewa Pembangkit

**PEMBANGKIT TENAGA LISTRIK SWASTA PER WILAYAH TAHUN 2008**





**TABEL 10**  
**DAYA MAMPU KAPASITAS TERPASANG PEMBANGKIT TENAGA LISTRIK PLN PER JENIS PEMBANGKIT PER WILAYAH 2009**  
*RATED CAPACITY OF POWER PLANT BY TYPE AND BY REGION 2009*

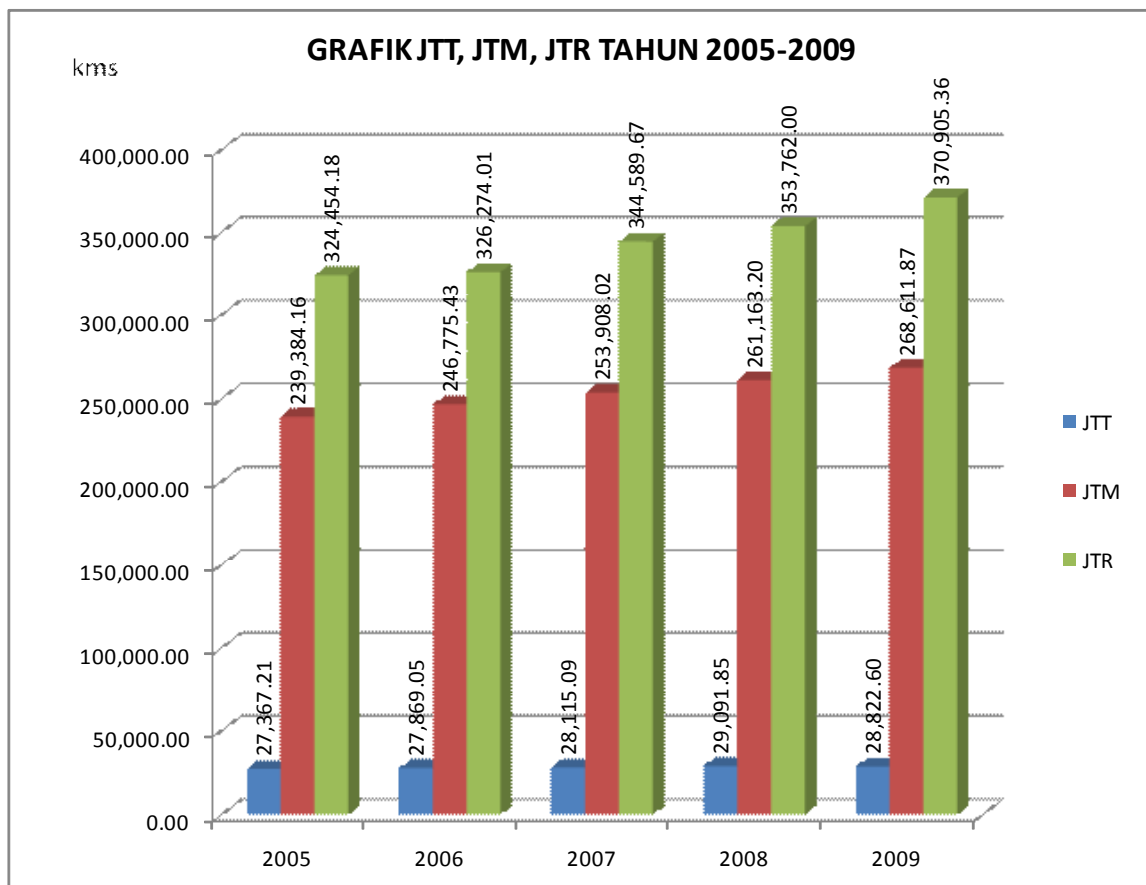
| NO.<br>Nr. | WILAYAH / PROPINSI               | REGION / PROVINCE                       | PLTA<br>HYDRO | PLTU<br>STEAM | PLTG<br>GAS<br>TURBINE |
|------------|----------------------------------|-----------------------------------------|---------------|---------------|------------------------|
| 1          | Nanggroe Aceh Darussalam         | <i>Nanggroe Aceh Darussalam</i>         | 1,60          | -             | -                      |
| 2          | Sumatera Utara                   | <i>North Sumatera</i>                   | -             | -             | -                      |
| 3          | Sumatera Barat                   | <i>West Sumatera</i>                    | 0,40          | -             | -                      |
| 4          | Riau                             | <i>Riau</i>                             | -             | -             | -                      |
| 5          | Sumatera Selatan                 | <i>South Sumatera</i>                   | -             | -             | -                      |
| 6          | Jambi                            | <i>Jambi</i>                            | -             | -             | -                      |
| 7          | Bengkulu                         | <i>Bengkulu</i>                         | 1,47          | -             | -                      |
| 8          | Bangka Belitung                  | <i>Bangka Belitung</i>                  | -             | -             | -                      |
| 9          | Lampung                          | <i>Lampung</i>                          | -             | -             | -                      |
| 10         | Kalimantan Barat                 | <i>West Kalimantan</i>                  | 0,18          | -             | 31,10                  |
| 11         | Kalimantan Selatan               | <i>South Kalimantan</i>                 | 30,00         | 124,00        | 18,00                  |
| 12         | Kalimantan Tengah                | <i>Centre Kalimantan</i>                | -             | -             | -                      |
| 13         | Kalimantan Timur                 | <i>East Kalimantan</i>                  | -             | -             | 50,40                  |
| 14         | Sulawesi Utara                   | <i>North Sulawesi</i>                   | 46,79         | -             | -                      |
| 15         | Gorontalo                        | <i>Gorontalo</i>                        | -             | -             | -                      |
| 16         | Sulawesi Tengah                  | <i>Centre Sulawesi</i>                  | 7,07          | -             | -                      |
| 17         | Sulawesi Selatan                 | <i>South Sulawesi</i>                   | 145,96        | 9,00          | 84,50                  |
| 18         | Sulawesi Tenggara                | <i>South East Sulawesi</i>              | 1,55          | -             | -                      |
| 19         | Sulawesi Barat                   | <i>West Sulawesi</i>                    | -             | -             | -                      |
| 20         | Maluku                           | <i>Maluku</i>                           | -             | -             | -                      |
| 21         | Maluku Utara                     | <i>North Maluku</i>                     | -             | -             | -                      |
| 22         | Papua                            | <i>Papua</i>                            | 2,62          | -             | -                      |
| 23         | Distribusi Bali                  | <i>Dist. Bali</i>                       | -             | -             | -                      |
| 24         | Nusa Tenggara Barat              | <i>West Nusa Tenggara</i>               | 0,25          | -             | -                      |
| 25         | Nusa Tenggara Timur              | <i>East Nusa Tenggara</i>               | 0,94          | -             | -                      |
| 26         | PT PLN Batam                     | <i>PT PLN BATAM</i>                     | -             | -             | -                      |
| 27         | PT PLN Tarakan                   | <i>PT PLN TARAkan</i>                   | -             | -             | 5,20                   |
| 28         | Kit Sumbagut                     | <i>Kit Sumbagut</i>                     | 252,80        | 400,00        | 112,10                 |
| 29         | Kit Sumbagsel                    | <i>Kit Sumbagsel</i>                    | 597,23        | 574,95        | 266,67                 |
| 30         | P3B Sumatera                     | <i>P3B Sumatera</i>                     | -             | -             | -                      |
|            | LUAR JAWA                        | <i>OUT SIDE JAVA</i>                    | 1.088,43      | 1.107,95      | 567,97                 |
| 31         | Dist. Jawa Timur                 | <i>Dist. East Java</i>                  | 2,20          | -             | -                      |
| 32         | Dist. Jawa Tengah                | <i>Dist. Central Java</i>               | 0,28          | -             | -                      |
| 33         | D.I. Yogyakarta                  | <i>D.I Yogyakarta</i>                   | 0,20          | -             | -                      |
| 34         | Dist. Jawa Barat                 | <i>West Java</i>                        | -             | -             | -                      |
| 35         | Dist. Banten                     | <i>Banten</i>                           | -             | -             | -                      |
| 36         | Dist. Jakarta Raya dan Tangerang | <i>Dist. Jakarta Raya dan Tangerang</i> | -             | -             | -                      |
| 37         | PT Indonesia Power               | <i>PT Indonesia Power</i>               | 1.098,13      | 3.589,60      | 764,69                 |
| 38         | PT PJB                           | <i>PT PJB</i>                           | 1.229,38      | 1.859,10      | 64,00                  |
| 39         | P3B Jawa Bali                    | <i>P3B Jawa Bali</i>                    | -             | -             | -                      |
| 40         | Pembangkitan Muara Tawar         | <i>Pembangkitan Muara Tawar</i>         | -             | -             | 840,00                 |
| 41         | Pembangkitan Cilegon             | <i>Pembangkitan Cilegon</i>             | -             | -             | -                      |
| 42         | Pembangkitan Tanjung Jati B      | <i>Pembangkitan Tanjung Jati B</i>      | -             | 1.420,00      | -                      |
|            | J a w a                          | <i>J A V A</i>                          |               |               |                        |
|            | I n d o n e s i a                | <i>INDONESIA</i>                        | 2.330,19      | 6.868,70      | 1.668,69               |
|            |                                  |                                         | 3.418,62      | 7.976,65      | 2.236,66               |

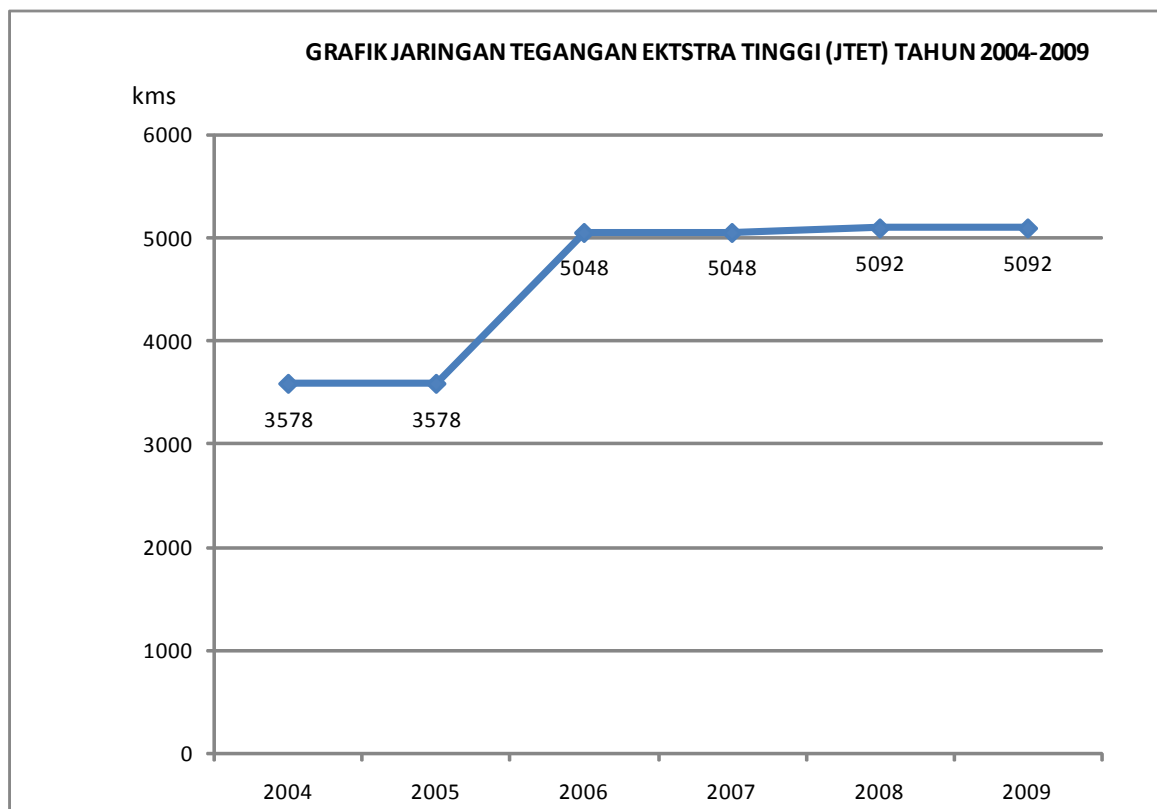
| PLTGU-G<br>COMBINED<br>CYCLE | PLTP<br>GEOTHERMAL | PLTD<br>DIESEL | PLTM-G<br>MACHINE-GAS | PLT Bayu<br>WIND POWER | JUMLAH<br>TOTAL | (%)    |
|------------------------------|--------------------|----------------|-----------------------|------------------------|-----------------|--------|
| -                            | -                  | 96,48          | -                     | -                      | 98,08           | 0,44   |
| -                            | -                  | 8,71           | -                     | -                      | 8,71            | 0,04   |
| -                            | -                  | 19,45          | -                     | -                      | 19,85           | 0,09   |
| -                            | -                  | 98,11          | -                     | -                      | 98,11           | 0,44   |
| -                            | -                  | 4,95           | -                     | -                      | 4,95            | 0,02   |
| -                            | -                  | 18,29          | -                     | -                      | 18,29           | 0,08   |
| -                            | -                  | 12,60          | -                     | -                      | 14,07           | 0,06   |
| -                            | -                  | 54,38          | -                     | -                      | 54,38           | 0,25   |
| -                            | -                  | 2,65           | -                     | -                      | 2,65            | 0,01   |
| -                            | -                  | 149,24         | -                     | -                      | 180,52          | 0,82   |
| -                            | -                  | 73,42          | -                     | -                      | 245,42          | 1,11   |
| -                            | -                  | 60,72          | -                     | -                      | 60,72           | 0,28   |
| 56,00                        | -                  | 145,58         | -                     | -                      | 251,98          | 1,14   |
| -                            | 40,00              | 55,22          | -                     | 0,80                   | 142,81          | 0,65   |
| -                            | -                  | 19,51          | -                     | -                      | 19,51           | 0,09   |
| -                            | -                  | 67,33          | -                     | -                      | 74,40           | 0,34   |
| -                            | -                  | 58,27          | -                     | -                      | 297,73          | 1,35   |
| -                            | -                  | 68,02          | -                     | -                      | 69,57           | 0,32   |
| -                            | -                  | 1,71           | -                     | -                      | 1,71            | 0,01   |
| -                            | -                  | 57,08          | -                     | -                      | 57,08           | 0,26   |
| -                            | -                  | 34,97          | -                     | -                      | 34,97           | 0,16   |
| -                            | -                  | 90,87          | -                     | -                      | 93,49           | 0,42   |
| -                            | -                  | 2,71           | -                     | 0,26                   | 2,97            | 0,01   |
| -                            | -                  | 97,63          | -                     | -                      | 97,88           | 0,44   |
| -                            | -                  | 72,46          | -                     | -                      | 73,40           | 0,33   |
| -                            | -                  | 65,60          | -                     | -                      | 65,60           | 0,30   |
| -                            | -                  | 11,70          | 10,50                 | -                      | 27,40           | 0,12   |
| 550,00                       | -                  | 46,90          | -                     | -                      | 1.361,80        | 6,18   |
| 37,88                        | -                  | 104,37         | -                     | -                      | 1.581,10        | 7,17   |
| -                            | -                  | -              | -                     | -                      | -               | -      |
| 643,88                       | 40,00              | 1.598,93       | 10,50                 | 1,06                   | 5.059,15        | 22,95  |
| -                            | -                  | 8,97           | -                     | -                      | 11,57           | 0,05   |
| -                            | -                  | -              | -                     | -                      | 0,32            | 0,00   |
| -                            | -                  | -              | -                     | -                      | 0,20            | 0,00   |
| -                            | -                  | -              | -                     | -                      | -               | -      |
| -                            | -                  | 0,18           | -                     | -                      | 0,17            | 0,00   |
| -                            | -                  | -              | -                     | -                      | -               | -      |
| 2.411,72                     | 354,00             | 61,03          | -                     | -                      | 8.278,97        | 37,55  |
| 2.545,00                     | -                  | -              | -                     | -                      | 5.796,00        | 25,84  |
| -                            | -                  | -              | -                     | -                      | -               | -      |
| -                            | -                  | -              | -                     | -                      | 840,00          | 3,81   |
| 740,00                       | -                  | -              | -                     | -                      | 470,00          | 3,36   |
| -                            | -                  | -              | -                     | -                      | 1.420,00        | 6,44   |
| -                            | -                  | -              | -                     | -                      | -               | -      |
| 5.696,72                     | 354,00             | 70,18          | -                     | -                      | 16.988,48       | 77,05  |
| 6.340,60                     | 394,00             | 1.669,11       | 10,50                 | 1,06                   | 22.047,63       | 100,00 |

**TABEL 11**  
**JARINGAN TRANSMISI DAN DISTRIBUSI PLN**  
*PLN'S TRANSMISSION AND DISTRIBUTION LINES*

| TAHUN<br>YEAR | SARANA TRANSMISI / TRANSMISSION LINES |                                     |                                     | DISTRIBUSI DISTRIBUTION LINES         |                                    |                                                     |
|---------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|------------------------------------|-----------------------------------------------------|
|               | JTET<br>500 kV<br>(kms)/(kmc)         | JTT<br>(25 - 150) kV<br>(kms)/(kmc) | GARDU INDUK<br>SUB STATION<br>(MVA) | JTM<br>MEDIUM<br>VOLTAGE<br>(kms/kmc) | JTR<br>LOW<br>VOLTAGE<br>(kms/kmc) | GARDU DIST.<br>DISTRIBUTION<br>SUB STATION<br>(MVA) |
| 2001          | 2.849,00                              | 23.139,84                           | 50.486,00                           | 222.355,09                            | 296.743,96                         | 28.585,03                                           |
| 2002          | 3.207,00                              | 24.363,25                           | 51.845,00                           | 228.002,86                            | 307.867,39                         | 29.712,66                                           |
| 2003          | 3.607,61                              | 24.565,33                           | 53.400,00                           | 233.381,60                            | 313.828,78                         | 30.255,52                                           |
| 2004          | 3.578,27                              | 27.215,70                           | 54.128,00                           | 285.052,17                            | 322.702,79                         | 30.595,13                                           |
| 2005*         | 3.578,27                              | 27.367,21                           | 53.976,00                           | 239.384,16                            | 324.454,18                         | 29.013,33                                           |
| 2006          | 5.047,78                              | 27.869,05                           | 54.527,00                           | 246.775,43                            | 326.274,01                         | 32.873,70                                           |
| 2007          | 5.047,78                              | 28.115,09                           | 58.713,00                           | 253.908,02                            | 344.589,67                         | 33.826,37                                           |
| 2008          | 5.092,00                              | 29.091,85                           | 59.508,00                           | 261.163,20                            | 353.762,00                         | 32.244,40                                           |
| 2009          | 5.092,00                              | 28.822,60                           | 63.375,00                           | 268.611,87                            | 370.905,36                         | 34.724,80                                           |

\* terjadi penurunan akibat bencana tsunami di Aceh





**TABEL 12**  
**JARINGAN TRANSMISI PLN TEGANGAN EXTRA TINGGI 2009**  
*PLN'S TRANSMISSION EXTRA HIGH VOLTAGE LINES BY REGION 2009*

| WILAYAH       | REGION                 | SARANA JARINGAN TRANSMISI <i>TRANSMISSION LINES</i> |                                           |           |
|---------------|------------------------|-----------------------------------------------------|-------------------------------------------|-----------|
|               |                        | Jaringan Tegangan Extra Tinggi (JTET) 500 kV        | Gardu Induk <i>Sub Station</i> Buah Units | (MVA)     |
| P3B Jawa Bali | <i>P3B Java - Bali</i> | 5.092,00                                            | 38,00                                     | 18.500,00 |
| J a w a       | <i>J a v a</i>         | 5.092,00                                            | 38,00                                     | 18.500,00 |
| Indonesia     |                        |                                                     |                                           |           |



**TABEL 13**  
**JARINGAN TRANSMISI PLN TEGANGAN TINGGI PER WILAYAH 2009**  
*PLN'S TRANSMISSION HIGH VOLTAGE LINES BY REGION 2009*

| WIILAYAH                         | REGION                     | SARANA JARINGAN TRANSMISI/TRANSMISSION LINES   |            |       |          |            |          | 150 kV    |     |
|----------------------------------|----------------------------|------------------------------------------------|------------|-------|----------|------------|----------|-----------|-----|
|                                  |                            | JARINGAN TEGANGAN TINGGI (JTT) DAN GARDU INDUK |            |       |          |            |          |           |     |
|                                  |                            | 25 - 30 kV                                     |            |       | 70 kV    |            |          |           | Kms |
|                                  |                            | Kms                                            | Buah Units | (MVA) | Kms      | Buah Units | (MVA)    |           |     |
| Nanggroe Aceh Darussalam         | Nanggroe Aceh Darussalam   | -                                              | -          | -     | -        | -          | -        | -         |     |
| Sumatera Utara                   | North Sumatera             | -                                              | -          | -     | -        | -          | -        | -         |     |
| Sumatera Barat                   | West Sumatera              | -                                              | -          | -     | -        | -          | -        | -         |     |
| Riau                             | Riau                       | -                                              | -          | -     | -        | -          | -        | -         |     |
| Kepulauan Riau                   | Riau Island                | -                                              | -          | -     | -        | -          | -        | -         |     |
| Sumatera Selatan                 | South Sumatera             | -                                              | -          | -     | -        | -          | -        | -         |     |
| Jambi                            | Jambi                      | -                                              | -          | -     | -        | -          | -        | -         |     |
| Bengkulu                         | Bengkulu                   | -                                              | -          | -     | -        | -          | -        | -         |     |
| Bangka Belitung                  | Bangka Belitung            | -                                              | -          | -     | -        | -          | -        | -         |     |
| Lampung                          | Lampung                    | -                                              | -          | -     | -        | -          | -        | -         |     |
| Kalimantan Barat                 | West Kalimantan            | -                                              | -          | -     | -        | -          | -        | 154,00    |     |
| Kalimantan Selatan               | South Kalimantan           | -                                              | -          | -     | 123,10   | 16,00      | 157,00   | 487,65    |     |
| Kalimantan Tengah                | Centre Kalimantan          | -                                              | -          | -     | -        | -          | -        | 330,55    |     |
| Kalimantan Timur                 | East Kalimantan            | -                                              | -          | -     | -        | -          | -        | 333,20    |     |
| Sulawesi Utara                   | North Sulawesi             | 0,77                                           | 2,00       | 18,00 | 275,82   | 17,00      | 226,00   | 264,60    |     |
| Gorontalo                        | Gorontalo                  | -                                              | -          | -     | -        | -          | -        | -         |     |
| Sulawesi Tengah                  | Centre Sulawesi            | -                                              | -          | -     | 101,20   | 3,00       | 60,00    | -         |     |
| Sulawesi Selatan                 | South Sulawesi             | 11,20                                          | 4,00       | 40,00 | 150,70   | 15,00      | 260,00   | 2.007,73  |     |
| Sulawesi Tenggara                | South East Sulawesi        | -                                              | -          | -     | -        | -          | -        | -         |     |
| Sulawesi Barat                   | West Sulawesi              | -                                              | -          | -     | -        | -          | -        | -         |     |
| Maluku                           | Maluku                     | -                                              | -          | -     | -        | -          | -        | -         |     |
| Maluku Utara                     | North Maluku               | -                                              | -          | -     | -        | -          | -        | -         |     |
| Papua                            | Papua                      | -                                              | -          | -     | -        | -          | -        | -         |     |
| Distribusi Bali                  | Bali                       | -                                              | -          | -     | -        | -          | -        | -         |     |
| Nusa Tenggara Barat              | West Nusa Tenggara         | -                                              | -          | -     | -        | -          | -        | -         |     |
| Nusa Tenggara Timur              | East Nusa Tenggara         | -                                              | -          | -     | -        | -          | -        | -         |     |
| PT PLN Batam                     | Batam                      | -                                              | -          | -     | -        | -          | -        | 161,67    |     |
| PT PLN Tarakan                   | PT PLN Tarakan             | -                                              | -          | -     | -        | -          | -        | -         |     |
| Kit Sumbagut                     | Sumbagut                   | -                                              | -          | -     | -        | -          | -        | -         |     |
| Kit Sumbagsel                    | Sumbagsel                  | -                                              | -          | -     | -        | -          | -        | -         |     |
| P3B Sumatera                     | P3B of Sumatera            | -                                              | 2,00       | 40,00 | 334,26   | 24,00      | 350,00   | 8.423,20  |     |
| Luar Jawa                        |                            | 11,97                                          | 8,00       | 98,00 | 985,08   | 75,00      | 1.049,00 | 12.165,60 |     |
| Dist. Jawa Timur                 | East Java                  | -                                              | -          | -     | -        | -          | -        | -         |     |
| Jawa Tengah                      | Central Java               | -                                              | -          | -     | -        | -          | -        | -         |     |
| D.I. Yogyakarta                  | D.I Yogyakarta             | -                                              | -          | -     | -        | -          | -        | -         |     |
| Jawa Barat                       | West Java                  | -                                              | -          | -     | -        | -          | -        | -         |     |
| Banten                           | Banten                     | -                                              | -          | -     | -        | -          | -        | -         |     |
| Dist. Jakarta Raya dan Tangerang | Jakarta Raya dan Tangerang | -                                              | -          | -     | -        | -          | -        | -         |     |
| PT Indonesia Power               | PT. Indinesia Power        | -                                              | -          | -     | -        | -          | -        | -         |     |
| PT PJB                           | PT. PJB                    | -                                              | -          | -     | -        | -          | -        | -         |     |
| P3B Jawa Bali                    | P3B Java - Bali            | -                                              | -          | -     | 3.657,10 | 135,00     | 2.747,00 | 12.026,00 |     |
| J a w a                          | J a v a                    | -                                              | -          | -     | 3.657,10 | 135,00     | 2.747,00 | 12.026,00 |     |
| Indonesia                        | Indonesia                  | 11,97                                          | 8,00       | 98,00 | 4.619,03 | 210,00     | 3.796,00 | 24.191,60 |     |

| 150 kV     |           | 275 kV   |            |        | 500 kV   |            |           | Jumlah          |            |           |
|------------|-----------|----------|------------|--------|----------|------------|-----------|-----------------|------------|-----------|
|            |           |          |            |        |          |            |           | JTT GARDU INDUK |            |           |
| Buah Units | (MVA)     | Kms      | Buah Units | (MVA)  | Kms      | Buah Units | (MVA)     | Kms             | Buah Units | (MVA)     |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 6,00       | 180,00    | -        | -          | -      | -        | -          | -         | 154,00          | 6,00       | 180,00    |
| 15,00      | 453,00    | -        | -          | -      | -        | -          | -         | 610,75          | 31,00      | 610,00    |
| 5,00       | 130,00    | -        | -          | -      | -        | -          | -         | 330,55          | 5,00       | 130,00    |
| 19,00      | 620,00    | -        | -          | -      | -        | -          | -         | 333,20          | 19,00      | 620,00    |
| 6,00       | 160,00    | -        | -          | -      | -        | -          | -         | 541,19          | 25,00      | 404,00    |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | 101,20          | 3,00       | 60,00     |
| 38,00      | 884,00    | -        | -          | -      | -        | -          | -         | 2.169,63        | 57,00      | 1.184,00  |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 1,00       | 20,00     | -        | -          | -      | -        | -          | -         | -               | 1,00       | 20,00     |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 30,00      | 1.016,00  | -        | -          | -      | -        | -          | -         | -               | 30,00      | 1.016,00  |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 13,00      | 450,00    | -        | -          | -      | -        | -          | -         | 161,67          | 13,00      | 450,00    |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 154,00     | 5.170,00  | 1.011,39 | 4,00       | 160,00 | -        | -          | -         | 9.768,85        | 184,00     | 5.720,00  |
| 287,00     | 9.083,00  | 1.011,39 | 4,00       | 160,00 | -        | -          | -         | 14.174,04       | 374,00     | 10.390,00 |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| -          | -         | -        | -          | -      | -        | -          | -         | -               | -          | -         |
| 635,00     | 31.738,00 | -        | -          | -      | 5.092,00 | 38,00      | 18.500,00 | 20.775,10       | 808,00     | 52.985,00 |
| 635,00     | 31.738,00 | -        | -          | -      | 5.092,00 | 38,00      | 18.500,00 | 20.775,10       | 808,00     | 52.985,00 |
| 922,00     | 40.821,00 | 1.011,39 | 4,00       | 160,00 | 5.092,00 | 38,00      | 18.500,00 | 34.949,14       | 1.182,00   | 63.375,00 |

**TABEL 14**  
**JARINGAN DISTRIBUSI PLN TEGANGAN MENENGAH DAN RENDAH PER WILAYAH 2009**  
*PLN'S DISTRIBUTION MEDIUM AND LOW VOLTAGE LINES BY REGION 2009*

| SATUAN PLN PROVINSI                  | REGION                           | (6 - 7) KV |               |       | (10 - 12) KV |               |
|--------------------------------------|----------------------------------|------------|---------------|-------|--------------|---------------|
|                                      |                                  | KMS        | BUAH<br>UNITS | (MVA) | KMS          | BUAH<br>UNITS |
| WILAYAH NANGGROE ACEH DARUSSALAM     | NANGGROE ACEH DARUSSALAM         | -          | -             | -     | -            | -             |
| WILAYAH SUMATERA UTARA               | NORTH SUMATERA                   | -          | -             | -     | -            | -             |
| WILAYAH SUMATERA BARAT               | WEST SUMATERA                    | -          | -             | -     | -            | -             |
| WILAYAH RIAU                         | RIAU                             | -          | -             | -     | -            | -             |
| - RIAU                               | - RIAU                           | -          | -             | -     | -            | -             |
| - KEPULAUAN RIAU                     | - RIAU ISLAND                    | -          | -             | -     | -            | -             |
| WILAYAH SUMSEL, JAMBI, DAN BENGKULU  | SOUTH SUMATERA                   | -          | -             | -     | 2.968,84     | 358,00        |
| - SUMATERA SELATAN                   | - SOUTH SUMATERA                 | -          | -             | -     | 2.925,47     | 394,00        |
| - JAMBI                              | - JAMBI                          | -          | -             | -     | 20,90        | -             |
| - BENGKULU                           | - BENGKULU                       | -          | -             | -     | 22,47        | -             |
| WILAYAH BANGKA BELITUNG              | BANGKA BELITUNG                  | -          | 1,00          | 0,20  | -            | -             |
| WILAYAH LAMPUNG                      | LAMPUNG                          | -          | -             | -     | -            | -             |
| WILAYAH KALIMANTAN BARAT             | WEST KALIMANTAN                  | -          | -             | -     | -            | -             |
| WILAYAH KALSEL DAN KALTENG           | SOUTH KALIMANTAN                 | 231,57     | 23,00         | 1,84  | -            | -             |
| - KALIMANTAN SELATAN                 | - SOUTH KALIMANTAN               | 153,98     | 9,00          | 0,80  | -            | -             |
| - KALIMANTAN TENGAH                  | - CENTRE KALIMANTAN              | 77,59      | 14,00         | 1,04  | -            | -             |
| WILAYAH KALIMANTAN TIMUR             | EAST KALIMANTAN                  | -          | -             | -     | -            | -             |
| WILAYAH SULUT, SULTENG DAN GORONTALO | NORTH SULAWESI                   | 46,75      | 24,00         | 1,18  | -            | -             |
| - SULAWESI UTARA                     | - NORTH SULAWESI                 | 46,75      | 24,00         | 1,18  | -            | -             |
| - GORONTALO                          | - GORONTALO                      | -          | -             | -     | -            | -             |
| - SULAWESI TENGAH                    | - CENTRE SULAWESI                | -          | -             | -     | -            | -             |
| WILAYAH SULSEL, SULTRA DAN SULBAR    | SOUTH SULAWESI                   | -          | 6,00          | 1,41  | -            | 7,00          |
| - SULAWESI SELATAN                   | - SOUTH SULAWESI                 | -          | 3,00          | 1,30  | -            | 7,00          |
| - SULAWESI TENGGARA                  | - SOUTH EAST SULAWESI            | -          | 3,00          | 0,11  | -            | -             |
| - SULAWESI BARAT                     | - WEST SULAWESI                  | -          | -             | -     | -            | -             |
| WILAYAH MALUKU DAN MALUKU UTARA      | MALUKU AND NORTH MALUKU          | -          | -             | -     | -            | -             |
| - MALUKU                             | - MALUKU                         | -          | -             | -     | -            | -             |
| - MALUKU UTARA                       | - NORTH MALUKU                   | -          | -             | -     | -            | -             |
| WILAYAH PAPUA                        | PAPUA                            | -          | -             | -     | -            | -             |
| DISTRIBUSI BALI                      | BALI                             | -          | -             | -     | -            | -             |
| WILAYAH NUSA TENGGARA BARAT          | WEST NUSA TENGGARA               | -          | -             | -     | -            | -             |
| WILAYAH NUSA TENGGARA TIMUR          | EAST NUSA TENGGARA               | -          | -             | -     | -            | -             |
| PT PLN BATAM                         | BATAM                            | -          | -             | -     | -            | -             |
| PT PLN TARAKAN                       | PT PLN TARAKAN                   | -          | -             | -     | -            | -             |
| KIT SUMBAGUT                         | SUMBAGUT                         | -          | -             | -     | -            | -             |
| KIT SUMBAGSEL                        | SUMBAGSEL                        | -          | -             | -     | -            | -             |
| P3B SUMATERA                         | P3B OF SUMATERA                  | -          | -             | -     | -            | -             |
| LUAR JAWA                            |                                  | 278,32     | 54,00         | 4,63  | 2.968,84     | 365,00        |
| DIST. JAWA TIMUR                     | EAST JAVA                        | -          | -             | -     | -            | -             |
| DIST. JAWA TENGAH DAN YOGYAKARTA     | DIST. JAWA TENGAH DAN YOGYAKARTA | -          | -             | -     | -            | -             |
| - JAWA TENGAH                        | CENTRAL JAVA                     | -          | -             | -     | -            | -             |
| - D.I. YOGYAKARTA                    | D.I YOGYAKARTA                   | -          | -             | -     | -            | -             |
| DIST. JAWA BARAT DAN BANTEN          | DIST. JAWA BARAT DAN BANTEN      | -          | -             | -     | -            | -             |
| - JAWA BARAT                         | WEST JAVA                        | -          | -             | -     | -            | -             |
| - BANTEN                             | BANTEN                           | -          | -             | -     | -            | -             |
| DIST. JAKARTA RAYA DAN TANGERANG     | JAKARTA RAYA DAN TANGERANG       | -          | -             | -     | -            | 2,00          |
| PT INDONESIA POWER                   | PT. INDINESIA POWER              | -          | -             | -     | -            | -             |
| PT PJB                               | PT. PJB                          | -          | -             | -     | -            | -             |
| P3B                                  | P3B JAVA - BALI                  | -          | -             | -     | -            | -             |
| JAWA                                 | J A V A                          | -          | -             | -     | -            | -             |
| INDONESIA                            | INDONESIA                        | 278,32     | 54,00         | 4,63  | 2.968,84     | 367,00        |

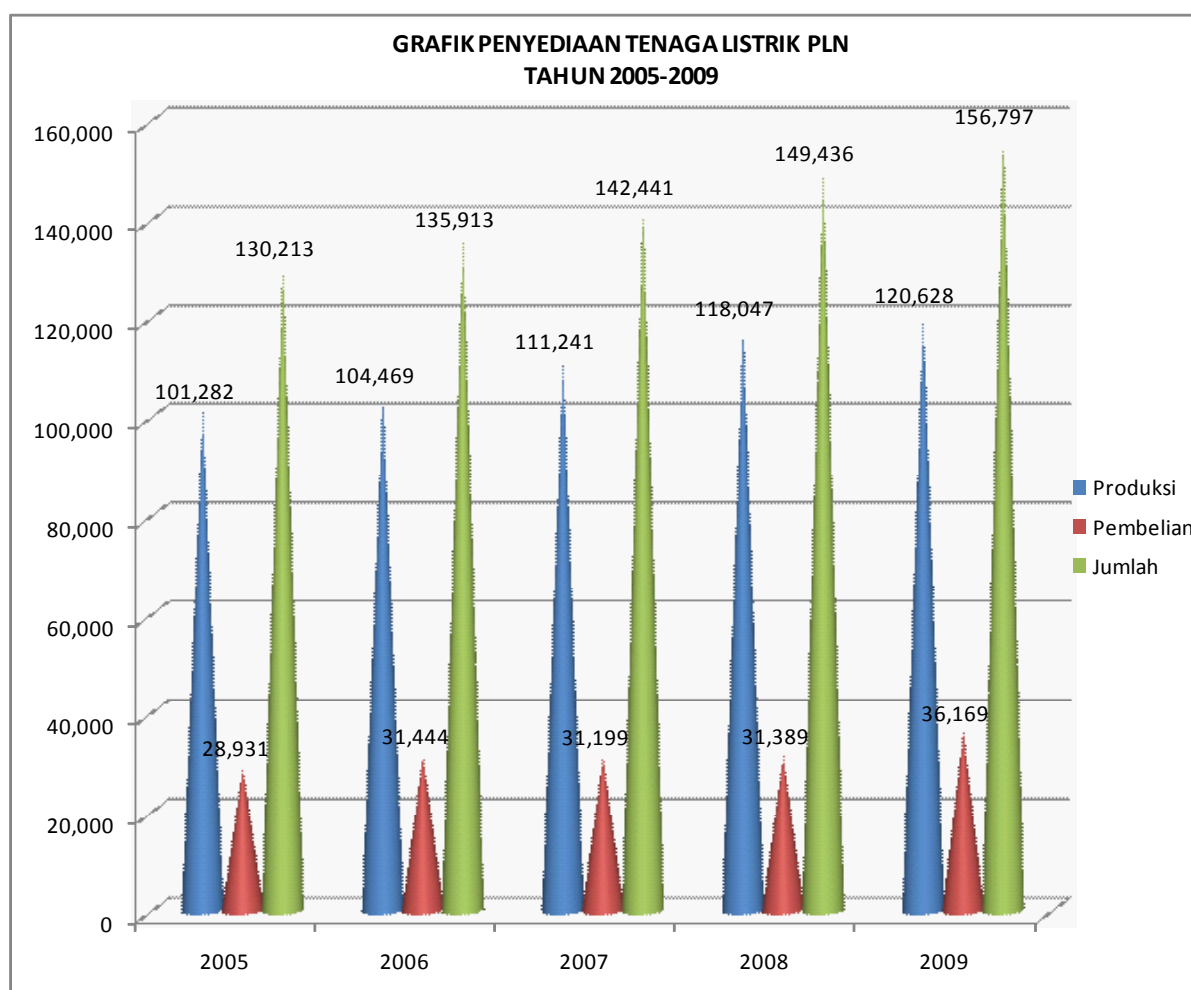
|           | (15-20) KV |               |           | JUMLAH<br>JTM, DAN GARDU DISTRIBUSI |               |           | JTR < 6 KV |               |       | JUMLAH<br>JTM, JTR DAN<br>GARDU DISTRIBUSI |               |           |
|-----------|------------|---------------|-----------|-------------------------------------|---------------|-----------|------------|---------------|-------|--------------------------------------------|---------------|-----------|
| (MVA)     | KMS        | BUAH<br>UNITS | (MVA)     | KMS                                 | BUAH<br>UNITS | (MVA)     | KMS        | BUAH<br>UNITS | (MVA) | KMS                                        | BUAH<br>UNITS | (MVA)     |
| -         | 11.701,00  | 6.202         | 456,84    | 11.701,00                           | 6.202,00      | 456,84    | 12.741,32  | -             | -     | 24.442,32                                  | 6.202,00      | 456,84    |
| -         | 22.851,55  | 17.221        | 1.427,89  | 22.851,55                           | 17.221,00     | 1.427,89  | 24.807,00  | -             | -     | 47.658,55                                  | 17.221,00     | 1.427,89  |
| -         | 7.859,25   | 5.328         | 482,16    | 7.859,25                            | 5.328,00      | 482,16    | 9.797,28   | -             | -     | 17.656,53                                  | 5.328,00      | 482,16    |
| -         | 5.894,63   | 5.883         | 762,43    | 5.894,63                            | 5.883,00      | 762,43    | 19.488,92  | -             | -     | 25.383,55                                  | 5.883,00      | 762,43    |
| -         | 5.009,87   | 4.942         | 631,11    | 5.009,87                            | 4.942,00      | 631,11    | 18.489,02  | -             | -     | 23.498,89                                  | 4.942,00      | 631,11    |
| -         | 884,76     | 941           | 131,33    | 884,76                              | 941,00        | 131,33    | 999,90     | -             | -     | 1.884,66                                   | 941,00        | 131,33    |
| 86,38     | 11.532,16  | 9.417         | 1.104,57  | 14.501,00                           | 9.775,00      | 1.190,95  | 12.494,00  | -             | -     | 26.995,00                                  | 9.775,00      | 1.190,95  |
| 93,68     | 5.064,89   | 5.327         | 696,77    | 7.990,36                            | 5.721,00      | 790,45    | 7.303,06   | -             | -     | 15.293,42                                  | 5.721,00      | 790,45    |
| -         | 3.826,53   | 2.746         | 283,26    | 3.847,43                            | 2.746,00      | 283,26    | 2.848,90   | -             | -     | 6.696,33                                   | 2.746,00      | 283,26    |
| -         | 2.640,76   | 1.344         | 124,54    | 2.663,21                            | 1.344,00      | 124,54    | 2.342,04   | -             | -     | 5.005,25                                   | 1.344,00      | 124,54    |
| -         | 2.124,00   | 1.049         | 114,63    | 2.124,00                            | 1.050,00      | 114,83    | 1.708,25   | -             | -     | 3.832,25                                   | 1.050,00      | 114,83    |
| -         | 7.128,73   | 5.204         | 720,91    | 7.128,73                            | 5.204,00      | 720,91    | 9.702,52   | -             | -     | 16.831,25                                  | 5.204,00      | 720,91    |
| -         | 8.985,00   | 4.765         | 386,06    | 8.985,00                            | 4.765,00      | 386,06    | 7.976,00   | -             | -     | 16.961,00                                  | 4.765,00      | 386,06    |
| -         | 10.122,43  | 6.752         | 540,91    | 10.354,00                           | 6.775,00      | 542,75    | 8.952,00   | -             | -     | 19.306,00                                  | 6.775,00      | 542,75    |
| -         | 6.635,53   | 4.670         | 388,29    | 6.789,51                            | 4.679,00      | 389,09    | 6.214,89   | -             | -     | 13.004,40                                  | 4.679,00      | 389,09    |
| -         | 3.486,90   | 2.082         | 152,62    | 3.564,49                            | 2.096,00      | 153,66    | 2.736,11   | -             | -     | 6.300,60                                   | 2.096,00      | 153,66    |
| -         | 4.418,12   | 4.796         | 588,24    | 4.418,12                            | 4.796,00      | 588,24    | 5.181,78   | -             | -     | 9.599,90                                   | 4.796,00      | 588,24    |
| -         | 10.069,56  | 6.431         | 542,76    | 10.116,31                           | 6.455,00      | 543,94    | 8.011,00   | -             | -     | 18.127,31                                  | 6.455,00      | 543,94    |
| -         | 3.717,94   | 2.771         | 295,96    | 3.764,69                            | 2.795,00      | 297,14    | 2.697,08   | -             | -     | 6.461,77                                   | 2.795,00      | 297,14    |
| -         | 1.480,24   | 948           | 68,32     | 1.480,24                            | 948,00        | 68,32     | 1.636,14   | -             | -     | 3.116,38                                   | 948,00        | 68,32     |
| -         | 4.871,38   | 2.712         | 178,48    | 4.871,38                            | 2.712,00      | 178,48    | 3.677,78   | -             | -     | 8.549,16                                   | 2.712,00      | 178,48    |
| 0,88      | 13.941,69  | 11.878        | 839,97    | 13.941,69                           | 11.891,00     | 842,26    | 17.020,95  | -             | -     | 30.962,64                                  | 11.891,00     | 842,26    |
| 0,88      | 10.043,35  | 8.890         | 684,68    | 10.043,35                           | 8.900,00      | 686,86    | 12.075,33  | -             | -     | 22.118,68                                  | 8.900,00      | 686,86    |
| -         | 2.983,45   | 2.193         | 114,56    | 2.983,45                            | 2.196,00      | 114,67    | 4.058,28   | -             | -     | 7.041,73                                   | 2.196,00      | 114,67    |
| -         | 914,89     | 795           | 40,73     | 914,89                              | 795,00        | 40,73     | 887,34     | -             | -     | 1.802,23                                   | 795,00        | 40,73     |
| -         | 4.528,17   | 2.273         | 171,82    | 4.528,17                            | 2.273,00      | 171,82    | 2.337,00   | -             | -     | 6.865,17                                   | 2.273,00      | 171,82    |
| -         | 2.937,34   | 1.418         | 110,03    | 2.937,34                            | 1.418,00      | 110,03    | 1.360,61   | -             | -     | 4.297,95                                   | 1.418,00      | 110,03    |
| -         | 1.590,83   | 855           | 61,79     | 1.590,83                            | 855,00        | 61,79     | 976,39     | -             | -     | 2.567,22                                   | 855,00        | 61,79     |
| -         | 1.999,00   | 1.823         | 197,52    | 1.999,00                            | 1.823,00      | 197,52    | 3.531,00   | -             | -     | 5.530,00                                   | 1.823,00      | 197,52    |
| -         | 5.251,00   | 5.832         | 1.154,11  | 5.251,00                            | 5.832,00      | 1.154,11  | 6.988,00   | -             | -     | 12.239,00                                  | 5.832,00      | 1.154,11  |
| -         | 3.426,87   | 2.189         | 224,77    | 3.426,87                            | 2.189,00      | 224,77    | 3.189,00   | -             | -     | 6.615,87                                   | 2.189,00      | 224,77    |
| -         | 4.073,00   | 2.281         | 160,19    | 4.073,00                            | 2.281,00      | 160,19    | 4.126,00   | -             | -     | 8.199,00                                   | 2.281,00      | 160,19    |
| -         | 1.067,12   | 581           | 265,95    | 1.067,12                            | 581,00        | 265,95    | 828,22     | -             | -     | 1.895,34                                   | 581,00        | 265,95    |
| -         | 149,43     | 274           | 59,99     | 149,43                              | 274,00        | 59,99     | 252,52     | -             | -     | 401,95                                     | 274,00        | 59,99     |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| 87,26     | 137.122,71 | 100.179       | 10.201,72 | 140.369,87                          | 100.598,00    | 10.293,61 | 159.132,76 | -             | -     | 299.502,63                                 | 100.598,00    | 10.293,61 |
| 30.248,00 | 40.865     | 4.745,14      | 30.248,00 | 40.865,00                           | 4.745,14      | 58.067,00 | -          | -             | -     | 40.865,00                                  | 4.745,14      | -         |
| -         | 46.548,00  | 94.138        | 5.066,01  | 46.548,00                           | 94.138,00     | 5.066,01  | 54.276,27  | -             | -     | 100.824,27                                 | 94.138,00     | 5.066,01  |
| -         | 41.662,94  | 82.584        | 4.078,72  | 41.662,94                           | 82.584,00     | 4.078,72  | -          | -             | -     | 41.662,94                                  | 82.584,00     | 4.078,72  |
| -         | 4.885,06   | 11.554        | 987,29    | 4.885,06                            | 11.554,00     | 987,29    | -          | -             | -     | 4.885,06                                   | 11.554,00     | 987,29    |
| -         | 37.542,00  | 37.360        | 7.871,17  | 37.542,00                           | 37.360,00     | 7.871,17  | 71.527,09  | -             | -     | 109.069,09                                 | 37.360,00     | 7.871,17  |
| -         | 32.117,91  | 32.874        | 7.424,62  | 32.117,91                           | 32.874,00     | 7.424,62  | 55.530,24  | -             | -     | 87.648,15                                  | 32.874,00     | 7.424,62  |
| -         | 5.424,09   | 4.486         | 446,55    | 5.424,09                            | 4.486,00      | 446,55    | 15.996,85  | -             | -     | 21.420,94                                  | 4.486,00      | 446,55    |
| 1,03      | 13.904,00  | 13.761        | 6.747,84  | 13.904,00                           | 13.763,00     | 6.748,87  | 27.902,24  | -             | -     | 41.806,24                                  | 13.763,00     | 6.748,87  |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| -         | -          | -             | -         | -                                   | -             | -         | -          | -             | -     | -                                          | -             | -         |
| -         | 128.242,00 | 186.124,00    | 24.430,16 | 128.242,00                          | 186.126,00    | 24.431,19 | 211.772,60 | -             | -     | 340.014,60                                 | 186.126,00    | 24.431,19 |
| 88,29     | 265.364,71 | 286.303,00    | 34.631,88 | 268.611,87                          | 286.724,00    | 34.724,80 | 370.905,36 | -             | -     | 639.517,23                                 | 286.724,00    | 34.724,80 |

**TABEL 15**  
**PRODUKSI DAN PEMBELIAN TENAGA LISTRIK PLN**  
*PLN'S PRODUCTION AND PURCHASE OF ELECTRICITY*  
**(GWh)**

| TAHUN<br>YEAR | PRODUKSI / OWN GENERATED |                          |                           |                                      |                            |                      |                             |                             |                              |
|---------------|--------------------------|--------------------------|---------------------------|--------------------------------------|----------------------------|----------------------|-----------------------------|-----------------------------|------------------------------|
|               | PLTA<br>HYDRO<br>PP      | PLTP<br>GEOTHERMAL<br>PP | PLTU-M<br>STEAM<br>OIL PP | PLTU-G<br>STEAM<br>NATURAL<br>GAS PP | PLTU-B<br>STEAM<br>COAL PP | PLTD<br>DIESEL<br>PP | PLTG-M<br>GAS TURBINE<br>PP | PLTG-G<br>NATURAL<br>GAS PP | PLTGU-M<br>COMBINED<br>CYCLE |
| 2001          | 10.651,02                | 2.982,12                 | 6.557,15                  | 3.489,44                             | 29.329,71                  | 5.752,43             | 1.270,90                    | 188,49                      | 5.597,14                     |
| 2002          | 8.833,57                 | 3.186,98                 | 8.187,53                  | 1.531,83                             | 29.312,62                  | 5.984,59             | 1.976,31                    | 252,44                      | 7.667,33                     |
| 2003          | 8.472,17                 | 2.958,63                 | 9.107,63                  | 1.333,82                             | 31.736,56                  | 7.646,34             | 2.332,25                    | 484,22                      | 8.820,97                     |
| 2004          | 8.942,81                 | 3.146,54                 | 9.636,49                  | 1.202,55                             | 30.806,40                  | 5.422,19             | 2.880,47                    | 298,86                      | 15.126,88                    |
| 2005          | 9.830,96                 | 3.005,51                 | 8.180,13                  | 834,90                               | 33.253,09                  | 5.706,96             | 2.683,06                    | 676,56                      | 17.933,67                    |
| 2006          | 8.758,62                 | 3.141,42                 | 8.574,75                  | 827,59                               | 38.361,98                  | 8.659,84             | 4.343,59                    | 883,02                      | 16.410,38                    |
| 2007          | 10.627,46                | 3.188,49                 | 9.205,65                  | 1.123,54                             | 41.879,63                  | 8.572,65             | 5.032,40                    | 115,90                      | 16.056,48                    |
| 2008          | 10.739,97                | 3.390,66                 | 10.185,77                 | 855,87                               | 41.311,31                  | 10.101,28            | 4.945,18                    | 675,74                      | 17.498,82                    |
| 2009          | 10.306,91                | 3.504,47                 | 9.030,99                  | 795,22                               | 43.137,63                  | 10.431,80            | 4.270,63                    | 4.403,85                    | 12.122,07                    |

Catatan / Note :

\*) Termasuk sewa genset (PLTD dan PLTG) / Included rent of genset (Diesel PP end Natural Gas Turbine)





| PRODUKSI OWN GENERATED       |                             |              |                | JUMLAH<br>PRODUKSI<br>PLN'S PRODUCTION | PEMBELIAN<br>PURCHASE | JUMLAH<br>TOTAL |
|------------------------------|-----------------------------|--------------|----------------|----------------------------------------|-----------------------|-----------------|
| PLTGU-G<br>COMBINED<br>CYCLE | PLTM-G<br>COMBINED<br>CYCLE | PLT<br>SURYA | SEWA<br>GENSET |                                        |                       |                 |
| 21.769,04                    | 0                           | 0            | 0,77           | 87.588,21                              | 13.299,21             | 100.887,41      |
| 21.135,44                    | 0                           | 0            | 1.224,60       | 89.293,24                              | 19.066,61             | 108.359,85      |
| 19.588,34                    | 0                           | 0            | 0              | 92.480,92                              | 20.538,76             | 113.019,68      |
| 15.573,40                    | 0                           | 0            | 3.154,60       | 96.191,19                              | 23.970,27             | 120.161,46      |
| 13.947,26                    | 54,24                       | 0            | 5.175,73       | 101.282,06                             | 28.930,72             | 130.212,78      |
| 14.507,44                    | 0                           | 0            | 0              | 104.468,64                             | 31.444,07             | 135.912,70      |
| 15.317,91                    | 121,27                      | 0            | 0              | 111.241,38                             | 31.199,41             | 142.440,79      |
| 18.231,90                    | 110,24                      | 0,10         | 0              | 118.046,83                             | 31.389,21             | 149.436,04      |
| 22.624,61                    | 0,00                        | 0,10         | 0,00           | 120.628,28                             | 36.168,92             | 156.797,20      |

**TABEL 16**  
**PRODUKSI TENAGA LISTRIK PLN PER JENIS PEMBANGKIT DAN PER WILAYAH 2009**  
*PLN'S ELECTRICITY PRODUCTION OF POWER PLANT BY TYPE AND BY REGION 2009*  
**(GWh)**

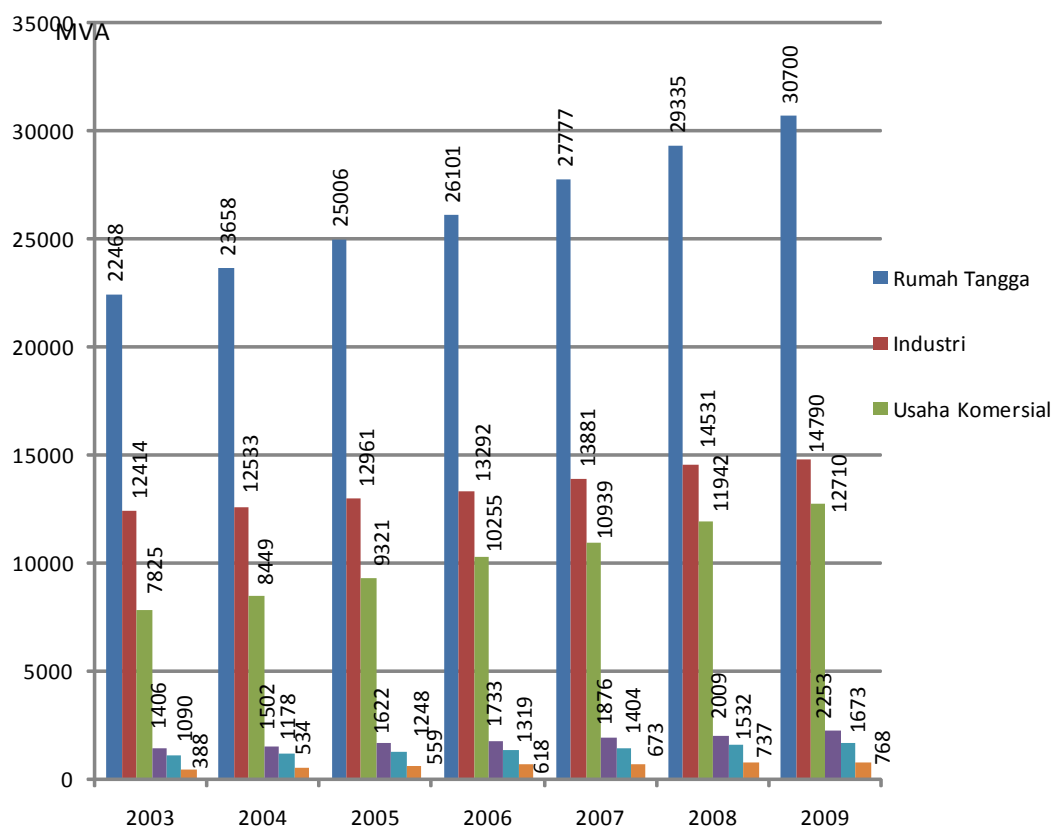
| WILAYAH<br>PROPINSI              | REGION<br>PROVINCE                       | PLTA<br>HYDRO PP | PLTP<br>GEOTHERMAL PP | PLTU-M<br>STEAM OIL PP | PLTU-GA<br>STEAM NATURAL<br>GAS PP | PLTU-B<br>STEAM COAL PP | PLTD<br>DIESEL PP |
|----------------------------------|------------------------------------------|------------------|-----------------------|------------------------|------------------------------------|-------------------------|-------------------|
| Nanggroe Aceh Darussalam         | <i>Nanggroe Aceh Darussalam</i>          | 3,23             |                       |                        |                                    |                         | 285,09            |
| Sumatera Utara                   | <i>North Sumatera</i>                    |                  |                       |                        |                                    |                         | 32,29             |
| Sumatera Barat                   | <i>West Sumatera</i>                     | 0,84             |                       |                        |                                    |                         | 75,19             |
| Riau                             | <i>Riau</i>                              |                  |                       |                        |                                    |                         | 512,17            |
| Sumatera Selatan                 | <i>South Sumatera</i>                    |                  |                       |                        |                                    |                         | 17,69             |
| Jambi                            | <i>Jambi</i>                             |                  |                       |                        |                                    |                         | 18,76             |
| Bengkulu                         | <i>Bengkulu</i>                          | 5,18             |                       |                        |                                    |                         | 24,32             |
| Bangka Belitung                  | <i>Bangka Belitung</i>                   |                  |                       |                        |                                    |                         | 249,06            |
| Lampung                          | <i>Lampung</i>                           |                  |                       |                        |                                    |                         | 2,69              |
| Kalimantan Barat                 | <i>West Kalimantan</i>                   | 0,04             |                       |                        |                                    |                         | 663,30            |
| Kalimantan Selatan               | <i>South Kalimantan</i>                  | 124,67           |                       |                        |                                    | 1.031,00                | 359,42            |
| Kalimantan Tengah                | <i>Centre Kalimantan</i>                 |                  |                       |                        |                                    |                         | 199,86            |
| Kalimantan Timur                 | <i>East Kalimantan</i>                   |                  |                       |                        |                                    |                         | 520,90            |
| Sulawesi Utara                   | <i>North Sulawesi</i>                    | 166,07           | 376,73                |                        |                                    |                         | 161,32            |
| Gorontalo                        | <i>Gorontalo</i>                         |                  |                       |                        |                                    |                         | 95,45             |
| Sulawesi Tengah                  | <i>Centre Sulawesi</i>                   | 48,58            |                       |                        |                                    |                         | 267,61            |
| Sulawesi Selatan                 | <i>South Sulawesi</i>                    | 810,87           |                       | 49,49                  |                                    |                         | 178,45            |
| Sulawesi Tenggara                | <i>South East Sulawesi</i>               | 6,44             |                       |                        |                                    |                         | 250,83            |
| Sulawesi Barat                   | <i>West Sulawesi</i>                     |                  |                       |                        |                                    |                         | 6,98              |
| Maluku                           | <i>Maluku</i>                            |                  |                       |                        |                                    |                         | 256,46            |
| Maluku Utara                     | <i>North Maluku</i>                      |                  |                       |                        |                                    |                         | 123,25            |
| Papua                            | <i>Papua</i>                             | 19,56            |                       |                        |                                    |                         | 391,70            |
| Distribusi Bali                  | <i>Bali</i>                              |                  |                       |                        |                                    |                         | 9,29              |
| Nusa Tenggara Barat              | <i>West Nusa Tenggara</i>                | 1,48             |                       |                        |                                    |                         | 544,29            |
| Nusa Tenggara Timur              | <i>East Nusa Tenggara</i>                | 4,30             |                       |                        |                                    |                         | 274,95            |
| PT PLN Batam                     | <i>PT PLN Batam</i>                      |                  |                       |                        |                                    |                         | 43,45             |
| PT PLN Tarakan                   | <i>PT PLN Tarakan</i>                    |                  |                       |                        |                                    |                         | 120,77            |
| Kit Sumbagut                     | <i>Kit Sumbagut</i>                      | 937,97           |                       | 1.157,91               | 91,37                              | 789,53                  | 124,15            |
| Kit Sumbagsel                    | <i>Kit Sumbagsel</i>                     | 2.232,59         |                       |                        | 106,64                             | 3.963,41                | 136,36            |
| LUAR JAWA                        | <i>OUT SIDE JAVA</i>                     | 4.361,83         | 376,73                | 1.207,40               | 198,01                             | 5.783,94                | 5.946,05          |
| Dist. Jawa Timur                 | <i>Dist. Of East java</i>                | 2,17             |                       |                        |                                    |                         | 18,79             |
| Jawa Tengah & D.I. Yogyakarta    | <i>Central Java &amp; D.I Yogyakarta</i> | 0,44             |                       |                        |                                    |                         |                   |
| Jawa Barat                       | <i>West Java</i>                         |                  |                       |                        |                                    |                         | 0,24              |
| Banten                           | <i>Banten</i>                            |                  |                       |                        |                                    |                         |                   |
| Dist. Jakarta Raya dan Tangerang | <i>Dist. Jakarta Raya dan Tangerang</i>  |                  |                       |                        |                                    |                         |                   |
| PT Indonesia Power               | <i>PT Indonesia Power</i>                | 3.585,81         | 3.127,74              | 1.746,55               |                                    | 22.650,57               | 128,66            |
| PT PJB                           | <i>PT PJB</i>                            | 2.356,66         |                       | 6.077,04               | 597,21                             | 5.802,77                |                   |
| Pembangkitan Muara Tawar         | <i>Pembangkitan Muara Tawar</i>          |                  |                       |                        |                                    |                         |                   |
| Pembangkitan Cilegon             | <i>P3B</i>                               |                  |                       |                        |                                    |                         |                   |
| Pembangkitan Tanjung Jati B      | <i>Pembangkitan Muara Tawar</i>          |                  |                       |                        |                                    | 8.900,35                |                   |
| J A W A                          | <i>J A V A</i>                           | 5.945,08         | 3.127,74              | 7.823,59               | 597,21                             | 37.353,69               | 147,69            |
| INDONESIA                        | <i>INDONESIA</i>                         | 10.306,91        | 3.504,47              | 9.030,99               | 795,22                             | 43.137,63               | 6.093,74          |

| PLTD<br>DIESEL PP<br>Rented | PLTG-M<br>GAS TURBINE<br>PP | PLTG-M<br>GAS<br>TURBINE PP<br>Rented | PLTG-G<br>NATURAL GAS<br>TURBINE<br>PP | PLTGU-M<br>COMBINED<br>CYCLE | PLTGU-G<br>COMBINED<br>CYCLE | PLTM-G<br>COMBINED<br>CYCLE | PLT<br>SURYA<br>Photovoltaic<br>PP | JUMLAH<br>TOTAL |            |
|-----------------------------|-----------------------------|---------------------------------------|----------------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------------|-----------------|------------|
| 34,33                       |                             |                                       |                                        |                              |                              |                             |                                    |                 | 322,65     |
| 0,09                        |                             |                                       |                                        |                              |                              |                             |                                    |                 | 32,38      |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 76,03      |
| 230,12                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 742,29     |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 17,69      |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 18,76      |
| 22,53                       |                             |                                       |                                        |                              |                              |                             |                                    |                 | 52,03      |
| 187,29                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 436,35     |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 2,69       |
| 590,22                      | 77,17                       |                                       |                                        |                              |                              |                             |                                    |                 | 1.330,73   |
| 128,19                      | 43,47                       |                                       |                                        |                              |                              |                             |                                    |                 | 1.686,75   |
| 137,73                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 337,59     |
| 688,01                      | 22,63                       | 35,15                                 | 17,23                                  | 171,90                       | 164,13                       |                             |                                    |                 | 1.619,95   |
| 197,33                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 901,45     |
| 112,27                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 207,72     |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 316,19     |
| 51,50                       | 251,38                      |                                       |                                        |                              |                              |                             |                                    |                 | 1.341,69   |
| 140,63                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 397,90     |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 6,98       |
| 52,78                       |                             |                                       |                                        |                              |                              |                             |                                    |                 | 309,24     |
| 44,01                       |                             |                                       |                                        |                              |                              |                             |                                    |                 | 167,26     |
| 301,61                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 712,87     |
|                             |                             |                                       |                                        |                              |                              |                             |                                    | 0,05            | 9,34       |
| 244,38                      |                             |                                       |                                        |                              |                              |                             |                                    |                 | 790,15     |
| 143,05                      |                             |                                       |                                        |                              |                              |                             | 0,10                               |                 | 422,40     |
| 188,12                      |                             | 337,38                                |                                        |                              |                              |                             |                                    |                 | 568,95     |
| 1,21                        |                             |                                       |                                        |                              |                              |                             |                                    |                 | 121,98     |
| 842,66                      | 341,69                      | 144,63                                | 153,27                                 | 4.221,26                     | 433,52                       |                             |                                    |                 | 9.237,96   |
|                             | 128,98                      | 339,31                                | 957,00                                 |                              | 81,30                        |                             |                                    |                 | 7.945,59   |
| 4.338,06                    | 865,32                      | 856,47                                | 1.127,50                               | 4.393,16                     | 678,95                       | -                           | 0,10                               |                 | 30.133,52  |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 20,96      |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 0,44       |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 0,24       |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | -          |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | -          |
|                             | 1.740,49                    |                                       | 91,50                                  | 6.498,33                     | 3.223,36                     |                             |                                    |                 | 42.793,02  |
|                             | 63,47                       |                                       |                                        | 1.230,58                     | 14.724,38                    |                             |                                    |                 | 30.852,12  |
|                             | 744,88                      |                                       | 3.184,85                               |                              |                              |                             |                                    |                 | 3.929,73   |
|                             |                             |                                       |                                        |                              | 3.997,92                     |                             |                                    |                 | 3.997,92   |
|                             |                             |                                       |                                        |                              |                              |                             |                                    |                 | 8.900,35   |
| -                           | 2.548,84                    | -                                     | 3.276,35                               | 7.728,91                     | 21.945,66                    | -                           |                                    |                 | 90.494,78  |
| 4.338,06                    | 3.414,16                    | 856,47                                | 4.403,85                               | 12.122,07                    | 22.624,61                    | -                           | 0,10                               |                 | 120.628,30 |

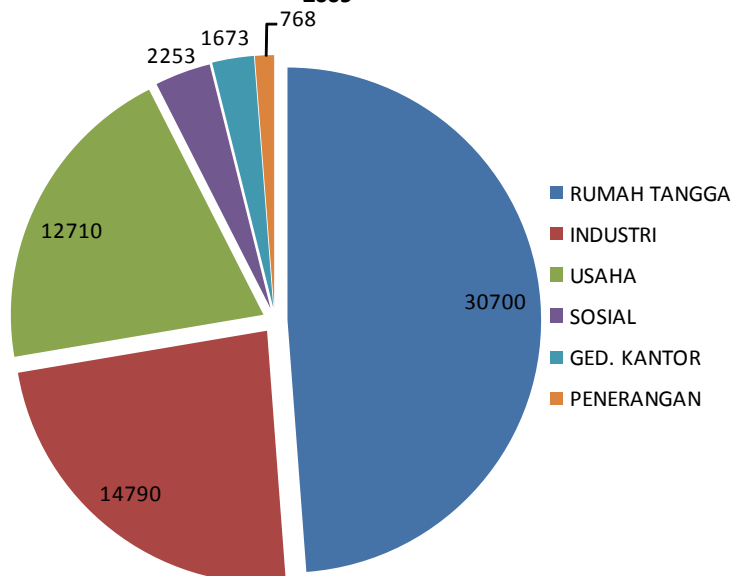
**TABEL 17**  
**SEWA DAN PEMBELIAN TENAGA LISTRIK DARI LUAR PLN PER WILAYAH 2009**  
*RENTED AND PURCHASE ELECTRICITY BY PLN AND BY REGION 2009*  
**(GWh)**

| NO. | WILAYAH<br>REGION                     |                                                  | SEWA<br>RENTED  | BELI<br>PURCHASE | JUMLAH<br>TOTAL  |
|-----|---------------------------------------|--------------------------------------------------|-----------------|------------------|------------------|
| 1.  | Nanggroe Aceh Darussalam              | <i>Nanggroe Aceh Darussalam</i>                  | 34,33           | -                | 34,33            |
| 2   | Sumatera Utara                        | <i>North Sumatera</i>                            | 0,09            | 55,18            | 55,27            |
| 3   | Sumatera Barat                        | <i>West Sumatera</i>                             | -               | 2,31             | 2,31             |
| 4   | Riau                                  | <i>Riau</i>                                      | 148,51          | 38,38            | 186,89           |
| 5   | Kepulauan Riau                        | <i>Riau Island</i>                               | 81,61           | 11,44            | 93,05            |
| 6   | Sumsel, Jambi dan Bengkulu            | <i>South Sumatera, Jambi, &amp; Bengkulu</i>     | 22,53           | 284,44           | 306,97           |
| 7   | Bangka Belitung                       | <i>Bangka Belitung</i>                           | 187,29          | 17,83            | 205,12           |
| 8   | Lampung                               | <i>Lampung</i>                                   | -               | -                | -                |
| 9   | Kalimantan Barat                      | <i>West Kalimantan</i>                           | 590,22          | 1,26             | 591,48           |
| 10  | Kalimantan Selatan, dan Tengah        | <i>South, &amp; Centre Kalimantan</i>            | 265,92          | 101,62           | 367,54           |
| 11  | Kalimantan Timur                      | <i>East Kalimantan</i>                           | 723,16          | 322,20           | 1.045,36         |
| 12  | Sulawesi Utara, Tengah & Gorontalo    | <i>North, Centre Kalimantan, &amp; Gorontalo</i> | 309,60          | 216,85           | 526,45           |
| 13  | Sulawesi Selatan, Tenggara, dan Barat | <i>South, South East, &amp; West Sulawesi</i>    | 192,13          | 1.838,42         | 2.030,55         |
| 14  | Maluku dan Maluku Utara               | <i>Maluku &amp; North of Maluku</i>              | 96,79           | -                | 96,79            |
| 15  | Papua                                 | <i>Papua</i>                                     | 301,61          | 29,97            | 331,58           |
| 16  | Dist Bali                             | <i>Dist. Bali</i>                                | -               | 3,74             | 3,74             |
| 17  | Nusa Tenggara Barat                   | <i>West Nusa Tenggara</i>                        | 244,38          | -                | 244,38           |
| 18  | Nusa Tenggara Timur                   | <i>East Nusa Tenggara</i>                        | 143,05          | -                | 143,05           |
| 19  | PT PLN Batam                          | <i>PT PLN Batam</i>                              | 525,50          | 828,22           | 1.353,72         |
| 20  | PT PLN Tarakan                        | <i>PT PLN Tarakan</i>                            | 1,21            | 56,16            | 57,37            |
| 21  | Kit Sumbagut                          | <i>Kit Sumbagut</i>                              | 987,29          | -                | 987,29           |
| 22  | Kit Sumbagsel                         | <i>Kit Sumbagsel</i>                             | 339,31          | -                | 339,31           |
| 23  | P3B Sumatera                          | <i>P3B Sumatera</i>                              | -               | 2.063,29         | 2.063,29         |
|     | <b>LUAR JAWA</b>                      | <b>OUT SIDE JAVA</b>                             | <b>5.194,53</b> | <b>5.871,30</b>  | <b>11.065,84</b> |
| 24  | Dist Jawa Timur                       | <i>Dist. Of East Java</i>                        | -               | 0,12             | 0,12             |
| 25  | Dist Jawa Tengah & DI. Yogyakarta     | <i>Dist of Center Java</i>                       | -               | 12,49            | 12,49            |
| 26  | Dist Jawa Barat & Banten              | <i>Dist. Of West Java</i>                        | -               | 71,53            | 71,53            |
| 27  | Dist Jakarat Raya & Tangerang         | <i>Dist of Jakarta &amp; Tangerang</i>           | -               | 0,40             | 0,40             |
| 28  | PT Indonesia Power                    | <i>PT Indonesia Power</i>                        | -               | -                | -                |
| 29  | PT PJB                                | <i>PT PJB</i>                                    | -               | -                | -                |
| 30  | P3B Jawa Bali                         | <i>P3B Jawa Bali</i>                             | -               | 30.213,08        | 30.213,08        |
| 31  | PT. Pembangkitan Muara Tawar          | <i>PT. Pembangkitan Muara Tawar</i>              | -               | -                | -                |
| 32  | TJ. JATI B                            |                                                  | -               | -                | -                |
| 33  | PLTGU CILEGON                         |                                                  | -               | -                | -                |
|     | <b>JAWA</b>                           | <b>JAVA</b>                                      | <b>-</b>        | <b>30.297,62</b> | <b>30.297,62</b> |
|     | <b>INDONESIA</b>                      | <b>INDONESIA</b>                                 | <b>5.194,53</b> | <b>36.168,92</b> | <b>41.363,45</b> |

**GRAFIK DAYA TERSAMBUNG PER SEKTOR PELANGGAN  
TAHUN 2003-2009**



**GRAFIK DAYA TERSAMBUNG PER SEKTOR PELANGGAN  
2009**





**TABEL 18**  
**PEMBELIAN TENAGA LISTRIK OLEH PLN**  
*PLN'S ELECTRICITY PURCHASE*  
**(MWh)**

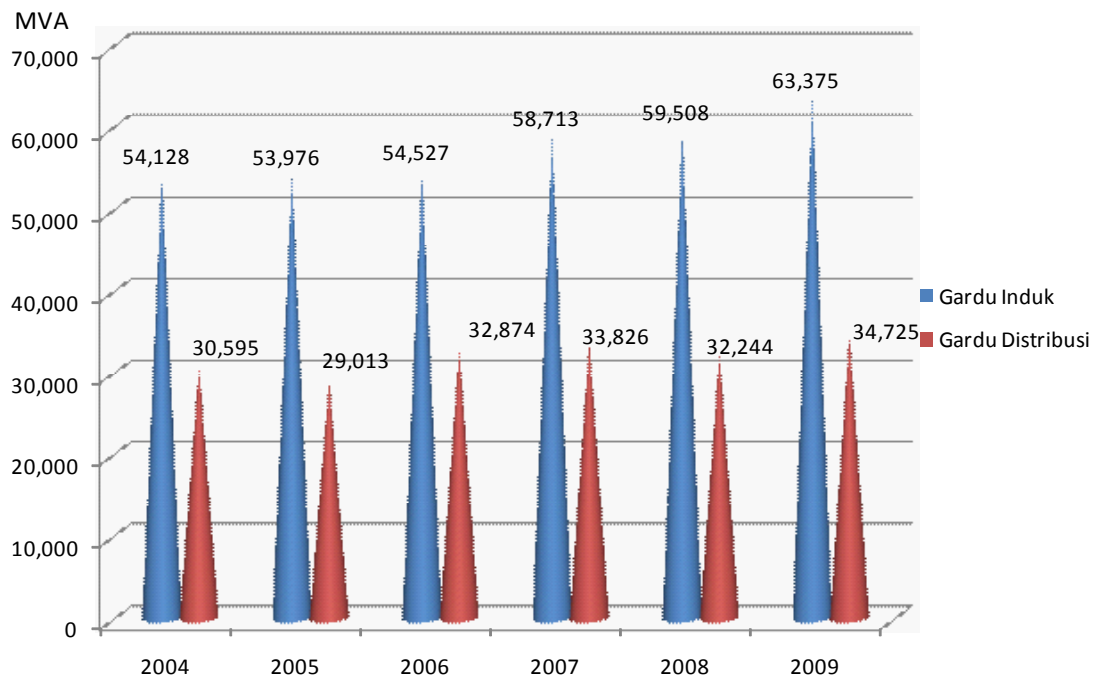
| NO            | WILAYAH                               | REGION                                         | 2001                 | 2002                 |
|---------------|---------------------------------------|------------------------------------------------|----------------------|----------------------|
| 1             | Nanggroe Aceh Darussalam              | <i>Nanggroe Aceh Darussalam</i>                |                      |                      |
| 2             | Sumatera Utara                        | <i>North Sumatera</i>                          |                      |                      |
| 3             | Sumatera Barat                        | <i>West Sumatera</i>                           |                      |                      |
| 4             | Riau                                  | <i>Riau</i>                                    |                      |                      |
| 5             | Kepulauan Riau                        | <i>Riau Island</i>                             |                      |                      |
| 6             | Sumsel, Jambi dan Bengkulu            | <i>South Sumatera, Jambi, &amp; Bengkulu</i>   | 5.144,00             | 41.252,00            |
| 7             | Bangka Belitung                       | <i>Bangka Belitung</i>                         |                      |                      |
| 8             | Lampung                               | <i>Lampung</i>                                 |                      |                      |
| 9             | Kalimantan Barat                      | <i>West Kalimantan</i>                         |                      |                      |
| 10            | Kalimantan Selatan, dan Tengah        | <i>South &amp; Centre Kalimantan</i>           | 35.264,00            | 44.030,00            |
| 11            | Kalimantan Timur                      | <i>East Kalimantan</i>                         | 6.085,00             |                      |
| 12            | Sulawesi Utara, Tengah & Gorontalo    | <i>North, Centre Sulawesi, &amp; Gorontalo</i> |                      |                      |
| 13            | Sulawesi Selatan, Tenggara, dan Barat | <i>South, &amp; South East Sulawesi</i>        | 840.382,00           | 1.091.515,00         |
| 14            | Maluku dan Maluku Utara               | <i>Maluku</i>                                  |                      |                      |
| 15            | Papua                                 | <i>Papua</i>                                   |                      |                      |
| 16            | Dist Bali                             | <i>Dist Bali</i>                               |                      |                      |
| 17            | Nusa Tenggara Barat                   | <i>West Nusa Tenggara</i>                      |                      |                      |
| 18            | Nusa Tenggara Timur                   | <i>East Nusa Tenggara</i>                      |                      |                      |
| 19            | PT PLN Batam                          | <i>PT PLN Batam</i>                            |                      |                      |
| 20            | PT PLN Tarakan                        | <i>PT PLN Tarakan</i>                          |                      |                      |
| 21            | Kit Sumbagut                          | <i>Kit Sumbagut</i>                            |                      |                      |
| 22            | Kit Sumbagsel                         | <i>Kit Sumbagsel</i>                           | 1.161,00             |                      |
| 23            | P3B Sumatera                          | <i>P3B Sumatera</i>                            | 45.192,00            | 65.679,00            |
| 24            | Dist Jawa Timur                       | <i>Dist. Of East java</i>                      |                      |                      |
| 25            | Dist Jawa Tengah & DI. Yogyakarta     | <i>Dist. Of Central Java</i>                   |                      |                      |
| 26            | Dist Jawa Barat & Banten              | <i>Dist. Of West Java</i>                      |                      |                      |
| 27            | Dist Jakarat Raya & Tangerang         | <i>Dist. Jakarta Raya dan Tangerang</i>        |                      |                      |
| 28            | PT Indonesia Power                    | <i>PT Indonesia Power</i>                      |                      |                      |
| 29            | PT PJB                                | <i>PT PJB</i>                                  |                      |                      |
| 30            | P3B Jawa-Bali                         | <i>P3B Jawa-Bali</i>                           | 12.365.978,00        | 17.671.088,00        |
| <b>JUMLAH</b> |                                       |                                                | <b>13.299.206,00</b> | <b>18.913.564,00</b> |

| 2003          | 2004          | 2005          | 2006          | 2007          | 2008          | 2009          |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|               |               | 8.944,80      | 35.762,00     | -             | 13.140,00     | -             |
|               |               | 2.373,40      | 6.137,12      | 4.600,00      | 15.570,00     | 55.177,63     |
|               |               | 26.025,17     | 26.283,49     | -             | 1.800,00      | 2.307,29      |
| 15.248,70     | 18.829,30     | 235.389,40    | 233.573,81    | 27.620,00     | 38.620,00     | 38.376,71     |
| 15.248,70     | 18.829,30     | 235.389,40    | 233.573,81    | 8.830,00      | 7.650,00      | 11.440,00     |
| 41.799,33     | 26.514,00     | 40.767,82     | 115.800,81    | 216.140,00    | 265.370,00    | 284.440,00    |
| 21.028,80     |               | 173.894,91    | 178.532,01    | 3.760,00      | 7.970,00      | 17.830,00     |
| 20.092,56     | 21.874,43     | 57.473,42     | 12.982,20     | -             | -             | -             |
|               |               | 322.565,40    | 374.862,83    | -             | -             | 1.261,82      |
| 55.319,82     | 69.504,68     | 286.072,23    | 212.787,61    | 84.010,00     | 74.490,00     | 101.617,03    |
| -             | 6.198,24      | 494.682,83    | 519.549,51    | 49.530,00     | 81.410,00     | 322.200,00    |
|               |               | 229.261,56    | 295.843,23    | 126.670,00    | 188.900,00    | 216.852,86    |
| 1.179.844,53  | 1.271.622,22  | 1.336.096,10  | 1.626.525,87  | 1.441.840,00  | 1.600.460,00  | 1.838.420,94  |
| -             | 5.767,07      | 115.169,47    | 82.133,71     | -             | -             | -             |
|               |               | 127.814,89    | 182.596,33    | 3.580,00      | 11.210,00     | 29.970,00     |
|               |               | 0,00          | 0,00          | 90,00         | 50,00         | 3.737,05      |
|               |               | 104.503,96    | 88.158,28     | -             | -             | -             |
| -             | 43,99         | 22.768,68     | 23.145,43     | 10,00         | -             | -             |
|               |               | 581.449,99    | 827.800,04    | 857.420,00    | 432.310,00    | 828.217,67    |
| -             |               | 48.057,12     | 51.714,66     | -             | 53.330,00     | 56.160,00     |
|               |               | 98.032,70     | 86.267,60     | -             | -             | -             |
| -             | 38.439,90     | 338.644,38    | 196.192,87    | -             | 58.800,00     | -             |
| 95.160,52     | 272.393,92    | 795.338,08    | 1.398.293,28  | 1.708.170,00  | 1.964.890,00  | 2.063.294,12  |
| 5.462,04      | 14.552,17     | 9.470,64      | 3.702,45      | 140,00        | 130,00        | 124,18        |
| -             | 1.383,81      | 47.774,87     | 57.490,28     | 39.470,00     | 15.470,00     | 12.485,03     |
| 19,86         | 3.941,53      | 6.512,50      | 5.865,04      | 25.590,00     | 49.580,00     | 71.527,09     |
|               |               | 0,00          | 0,00          | 0,00          | 0,00          | 400,74        |
|               |               | 0,00          | 0,00          | 0,00          | 0,00          | -             |
|               |               | 0,00          | 0,00          | 0,00          | 0,00          | -             |
| 19.104.781,75 | 22.219.204,04 | 23.421.634,89 | 24.802.066,93 | 26.601.940,00 | 26.508.060,00 | 30.213.079,15 |
| 20.554.006,59 | 23.989.098,59 | 29.166.108,61 | 31.444.067,38 | 31.199.410,00 | 31.389.210,00 | 36.168.919,31 |

**TABEL 19**  
**DAYA TERSAMBUNG PER SEKTOR PELANGGAN**  
*POWER CONNECTED BY TYPE OF CUSTOMERS*  
**(MVA)**

| TAHUN<br>YEAR | KELOMPOK PELANGGAN TYPE OF CUSTOMERS |                        |                     |                  |                                                   |                                                       | JUMLAH<br>TOTAL |
|---------------|--------------------------------------|------------------------|---------------------|------------------|---------------------------------------------------|-------------------------------------------------------|-----------------|
|               | RUMAH TANGGA<br>RESIDENTIAL          | INDUSTRI<br>INDUSTRIAL | USAHA<br>COMMERCIAL | SOSIAL<br>SOCIAL | GED. KANTOR<br>PEMERINTAH<br>GOVERNMENT<br>OFFICE | PENERANGAN<br>JALAN UMUM<br>PUBLIC STREET<br>LIGHTING |                 |
| 2001          | 20.250                               | 11.903                 | 6.920               | 1.238            | 1.003                                             | 270                                                   | 41.585          |
| 2002          | 21.342                               | 12.284                 | 7.337               | 1.322            | 1.032                                             | 348                                                   | 43.666          |
| 2003          | 22.468                               | 12.414                 | 7.825               | 1.406            | 1.090                                             | 388                                                   | 45.590          |
| 2004          | 23.658                               | 12.533                 | 8.449               | 1.502            | 1.178                                             | 534                                                   | 47.852          |
| 2005          | 25.006                               | 12.961                 | 9.321               | 1.622            | 1.248                                             | 559                                                   | 50.717          |
| 2006          | 26.101                               | 13.292                 | 10.255              | 1.733            | 1.319                                             | 618                                                   | 53.318          |
| 2007          | 27.777                               | 13.881                 | 10.939              | 1.876            | 1.404                                             | 673                                                   | 56.550          |
| 2008          | 29.335                               | 14.531                 | 11.942              | 2.009            | 1.532                                             | 737                                                   | 60.086          |
| 2009          | 30.700                               | 14.790                 | 12.710              | 2.253            | 1.673                                             | 768                                                   | 62.894          |

**Grafik Gardu Induk dan Gardu Disribusi Tahun 2004-2009**



**TABEL 20**  
**DAYA TERSAMBUNG PER SEKTOR PELANGGAN PER WILAYAH 2009**  
*POWER CONNECTED OF CUSTOMERS BY TYPE AND BY REGION 2009*

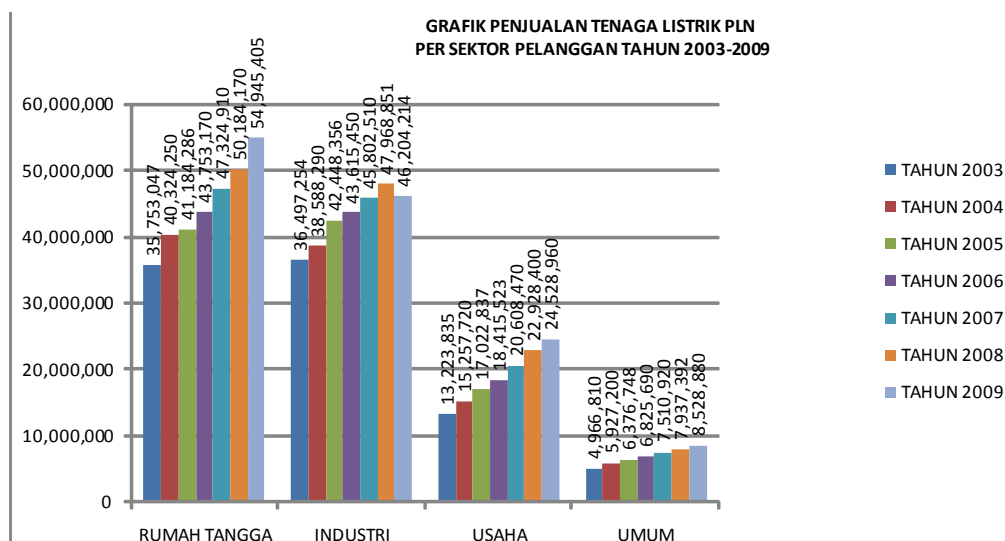
| NO.<br>Nr. | WILAYAH PROPINSI         | PROVINCE REGION          | RUMAH<br>TANGGA<br>RESIDENTIAL | INDUSTRI<br>INDUSTRIAL |
|------------|--------------------------|--------------------------|--------------------------------|------------------------|
| 1          | NANGGROE ACEH DARUSSALAM | NANGGROE ACEH DARUSSALAM | 542,16                         | 22,35                  |
| 2          | SUMATERA UTARA           | NORTH SUMATERA           | 1.642,26                       | 686,62                 |
| 3          | SUMATERA BARAT           | WEST SUMATERA            | 580,45                         | 136,79                 |
| 4          | R I A U                  | RIAU                     | 581,73                         | 48,62                  |
| 5          | SUMATERA SELATAN         | SOUTH SUMATERA           | 808,79                         | 159,71                 |
| 6          | JAMBI                    | JAMBI                    | 191,81                         | 24,25                  |
| 7          | BENGKULU                 | BENGKULU                 | 160,58                         | 8,66                   |
| 8          | BANGKA BELITUNG          | BANGKA BELITUNG          | 104,84                         | 10,19                  |
| 9          | LAMPUNG                  | LAMPUNG                  | 711,81                         | 132,53                 |
| 10         | KALIMANTAN BARAT         | WEST KALIMANTAN          | 342,02                         | 30,40                  |
| 11         | KALIMANTAN SELATAN       | SOUTH KALIMANTAN         | 421,27                         | 66,03                  |
| 12         | KALIMANTAN TENGAH        | CENTRE KALIMANTAN        | 175,31                         | 7,83                   |
| 13         | KALIMANTAN TIMUR         | EAST KALIMANTAN          | 382,67                         | 52,88                  |
| 14         | SULAWESI UTARA           | NORTH SULAWESI           | 258,14                         | 32,99                  |
| 15         | GORONTALO                | GORONTALO                | 65,87                          | 6,20                   |
| 16         | SULAWESI TENGAH          | CENTRE SULAWESI          | 187,66                         | 9,82                   |
| 17         | SULAWESI SELATAN         | SOUTH SULAWESI           | 843,44                         | 204,33                 |
| 18         | SULAWESI TENGGARA        | SOUTH EAST SULAWESI      | 140,31                         | 9,35                   |
| 19         | SULAWESI BARAT           | WEST SULAWESI            | 59,66                          | 1,06                   |
| 20         | MALUKU                   | MALUKU                   | 125,90                         | 3,19                   |
| 21         | MALUKU UTARA             | NORTH MALUKU             | 69,31                          | 0,64                   |
| 22         | PAPUA                    | PAPUA                    | 179,97                         | 2,87                   |
| 23         | BALI                     | BALI                     | 718,08                         | 48,82                  |
| 24         | NUSA TENGGARA BARAT      | WEST NUSA TENGGARA       | 221,73                         | 11,20                  |
| 25         | NUSA TENGGARA TIMUR      | EAST NUSA TENGGARA       | 175,85                         | 2,72                   |
| 26         | PT PLN BATAM             | PT PLN BATAM             | 292,54                         | 206,00                 |
| 27         | PT PLN TARAKAN           | PT PLN TARAKAN           | 26,41                          | -                      |
|            | LUAR JAWA                | OUT SIDE JAVA            | 10.010,56                      | 1.926,02               |
| 28         | JAWA TIMUR               | EAST JAVA                | 4.973,12                       | 3.011,20               |
| 29         | JAWA TENGAH              | CENTRAL JAVA             | 3.913,64                       | 1.269,06               |
| 30         | DI Yogyakarta            | DI YOGYAKARTA            | 566,62                         | 64,48                  |
| 31         | JAWA BARAT               | WEST JAVA                | 5.639,61                       | 4.225,27               |
| 32         | BANTEN                   | BANTEN                   | 456,96                         | 1.124,73               |
| 33         | DKI. JAYA & TANGERANG    | DKI JAYA & TANGERANG     | 5.139,38                       | 3.169,45               |
|            | J A W A                  | JAVA                     | 20.689,34                      | 12.864,18              |
|            | INDONESIA                | INDONESIA                | 30.699,90                      | 14.790,21              |

| USAHA<br>COMMERCIAL | SOSIAL<br>SOCIAL | GED. KANTOR<br>PEMERINTAH<br>GOVERNMENT OF-<br>FICE | PENERANGAN<br>JALAN UMUM<br>PUBLIC STREET<br>LIGHTING | JUMLAH<br>TOTAL |
|---------------------|------------------|-----------------------------------------------------|-------------------------------------------------------|-----------------|
| 131,80              | 45,31            | 38,14                                               | 20,53                                                 | 800,29          |
| 510,21              | 106,05           | 43,97                                               | 76,00                                                 | 3.065,11        |
| 146,15              | 37,54            | 23,41                                               | 11,12                                                 | 935,45          |
| 285,26              | 40,21            | 42,78                                               | 27,17                                                 | 1.025,77        |
| 231,78              | 44,08            | 38,66                                               | 20,18                                                 | 1.303,20        |
| 73,69               | 10,80            | 11,17                                               | 4,25                                                  | 315,97          |
| 32,56               | 8,97             | 8,28                                                | 4,49                                                  | 223,53          |
| 24,16               | 5,46             | 7,39                                                | 2,45                                                  | 154,48          |
| 153,32              | 32,49            | 17,77                                               | 14,97                                                 | 1.062,90        |
| 132,47              | 22,37            | 21,91                                               | 9,94                                                  | 559,12          |
| 119,47              | 22,41            | 21,34                                               | 15,44                                                 | 665,97          |
| 45,55               | 10,66            | 17,50                                               | 5,87                                                  | 262,71          |
| 208,51              | 34,81            | 47,55                                               | 14,98                                                 | 741,40          |
| 110,03              | 21,27            | 13,27                                               | 4,26                                                  | 439,95          |
| 14,06               | 6,53             | 6,17                                                | 2,52                                                  | 101,36          |
| 38,83               | 12,56            | 12,60                                               | 4,48                                                  | 265,95          |
| 273,65              | 53,62            | 49,32                                               | 34,61                                                 | 1.458,97        |
| 30,45               | 7,18             | 11,58                                               | 4,16                                                  | 203,03          |
| 8,99                | 2,59             | 2,97                                                | 2,06                                                  | 77,33           |
| 33,69               | 9,33             | 13,31                                               | 1,51                                                  | 186,93          |
| 14,24               | 3,81             | 6,17                                                | 2,03                                                  | 96,20           |
| 108,80              | 18,29            | 29,37                                               | 4,59                                                  | 343,89          |
| 620,27              | 39,59            | 36,89                                               | 20,57                                                 | 1.484,22        |
| 71,30               | 18,27            | 12,63                                               | 8,28                                                  | 343,41          |
| 53,45               | 16,05            | 14,37                                               | 4,14                                                  | 266,58          |
| 264,48              | 15,55            | 16,77                                               | 6,24                                                  | 801,58          |
| 44,15               | 3,05             | 3,88                                                | 1,27                                                  | 78,77           |
| 3.781,33            | 648,83           | 569,17                                              | 328,12                                                | 17.264,04       |
| 1.427,48            | 345,15           | 141,95                                              | 147,13                                                | 10.046,04       |
| 822,73              | 259,55           | 86,20                                               | 115,35                                                | 6.466,53        |
| 177,04              | 75,82            | 26,65                                               | 14,25                                                 | 924,87          |
| 1.603,84            | 394,03           | 158,32                                              | 62,80                                                 | 12.083,87       |
| 125,59              | 23,58            | 14,03                                               | 10,54                                                 | 1.755,43        |
| 4.772,04            | 505,75           | 676,33                                              | 90,05                                                 | 14.353,01       |
| 8.928,72            | 1.603,89         | 1.103,50                                            | 440,11                                                | 45.629,74       |
| 12.710,06           | 2.252,72         | 1.672,67                                            | 768,23                                                | 62.893,78       |



**TABEL 21**  
**PENJUALAN TENAGA LISTRIK PLN PER SEKTOR PELANGGAN**  
 PLN'S ELECTRICITY SALES BY SECTOR OF CUSTOMERS

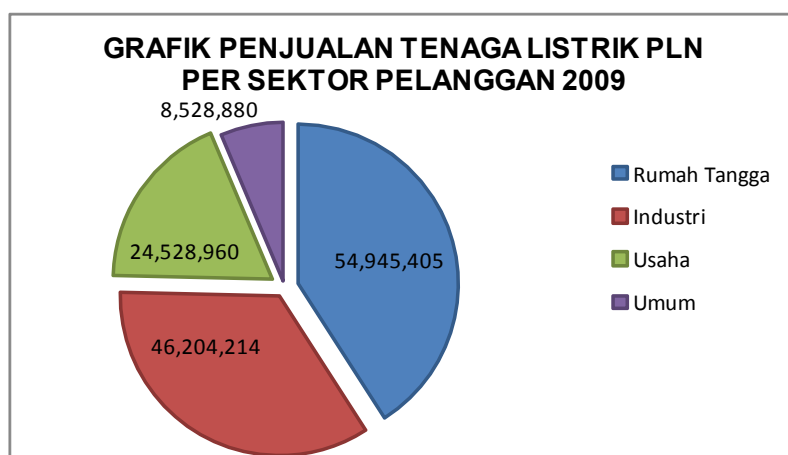
| TAHUN<br>YEAR | RUMAH TANGGA<br>RESIDENTIAL |                       | INDUSTRI<br>INDUSTRIAL |                       | USAHA<br>COMMERCIAL |                       |
|---------------|-----------------------------|-----------------------|------------------------|-----------------------|---------------------|-----------------------|
|               | MWh                         | PELANGGAN<br>CUSTOMER | MWh                    | PELANGGAN<br>CUSTOMER | MWh                 | PELANGGAN<br>CUSTOMER |
| 2001          | 33.339.779,00               | 27.885.612            | 35.593.287,00          | 46.014                | 11.395.312,00       | 1.172.247             |
| 2002          | 33.993.551,00               | 28.903.325            | 36.831.300,00          | 46.824                | 11.845.039,00       | 1.245.709             |
| 2003          | 35.753.046,58               | 29.997.554            | 36.497.254,23          | 46.818                | 13.223.835,01       | 1.310.686             |
| 2004          | 40.324.250,00               | 31.095.970            | 38.588.290,00          | 46.520                | 15.257.720,00       | 1.382.416             |
| 2005          | 41.184.286,41               | 32.174.485            | 42.448.356,40          | 46.476                | 17.022.837,15       | 1.455.884             |
| 2006          | 43.753.170,00               | 33.118.262            | 43.615.450,00          | 46.494                | 18.415.522,95       | 1.655.325             |
| 2007          | 47.324.910,00               | 34.684.540            | 45.802.510,00          | 46.818                | 20.608.470,00       | 1.610.574             |
| 2008          | 50.184.169,56               | 36.025.071            | 47.968.851,30          | 47.536                | 22.928.400,03       | 1.716.046             |
| 2009          | 54.945.405,13               | 37.099.830            | 46.204.214             | 47.900                | 24.528.960,37       | 1.879.429             |



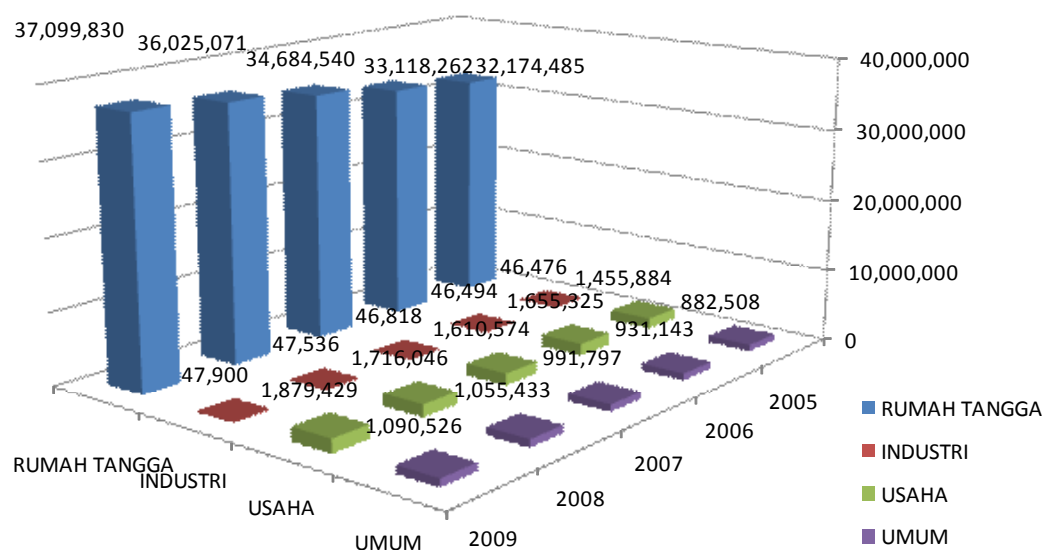
**TABEL 22**  
**JUMLAH PELANGGAN MENURUT SEKTOR**  
 NUMBER OF CUSTOMERS BY SECTOR

| TAHUN<br>YEAR | PELANGGAN CUSTOMERS    |                             |                     |                | JUMLAH<br>PELANGGAN<br>CUSTOMERS |
|---------------|------------------------|-----------------------------|---------------------|----------------|----------------------------------|
|               | INDUSTRI<br>INDUSTRIAL | RUMAH TANGGA<br>RESIDENTIAL | USAHA<br>COMMERCIAL | UMUM<br>PUBLIC |                                  |
| 2001          | 46.014                 | 27.885.612                  | 1.172.247           | 723.855        | 29.827.728                       |
| 2002          | 46.824                 | 28.903.325                  | 1.245.709           | 758.061        | 30.953.919                       |
| 2003          | 46.818                 | 29.997.554                  | 1.310.686           | 796.358        | 32.151.416                       |
| 2004          | 46.520                 | 31.095.970                  | 1.382.416           | 841.540        | 33.366.446                       |
| 2005          | 46.476                 | 32.174.485                  | 1.455.884           | 882.508        | 34.559.353                       |
| 2006          | 46.494                 | 33.118.262                  | 1.655.325           | 931.143        | 35.751.224                       |
| 2007          | 46.818                 | 34.684.540                  | 1.610.574           | 991.797        | 37.333.729                       |
| 2008          | 47.536                 | 36.025.071                  | 1.716.046           | 1.055.433      | 38.844.086                       |
| 2009          | 47.900                 | 37.099.830                  | 1.879.429           | 1.090.526      | 40.117.685                       |

| UMUM<br>PUBLIC |                       | JUMLAH<br>TOTAL |                       |
|----------------|-----------------------|-----------------|-----------------------|
| MWh            | PELANGGAN<br>CUSTOMER | MWh             | PELANGGAN<br>CUSTOMER |
| 4.192.003,00   | 723.855               | 84.520.381,00   | 29.827.728            |
| 4.418.850,00   | 758.061               | 87.088.740,00   | 30.953.919            |
| 4.966.810,00   | 796.358               | 90.440.945,81   | 32.151.416            |
| 5.927.200,00   | 841.540               | 100.097.460,00  | 33.366.446            |
| 6.376.747,95   | 882.508               | 107.032.227,90  | 34.559.353            |
| 6.825.690,00   | 931.143               | 112.609.832,95  | 35.751.224            |
| 7.510.920,00   | 991.797               | 121.246.810,00  | 37.333.729            |
| 7.937.392,42   | 1.055.433             | 129.018.813,31  | 38.844.086            |
| 8.528.879,78   | 1.090.526             | 134.207.459,11  | 40.117.685            |



**GRAFIK JUMLAH PELANGGAN MENURUT SEKTOR 2005-2009**



**TABEL 23**  
**PENJUALAN TENAGA LISTRIK PLN PER KELOMPOK PELANGGAN PER WILAYAH 2009**  
*PLN'S ELECTRICITY SALES OF CUSTOMERS BY SECTOR AND BY REGION 2009*  
**(GWh)**

| NO.<br>Nr. | WILAYAH PROPINSI          | PROVINCE REGION               | KELOMPOK PELANGGAN<br>TYPE OF CUSTOMERS |                        |                     |
|------------|---------------------------|-------------------------------|-----------------------------------------|------------------------|---------------------|
|            |                           |                               | RUMAH TANGGA<br>RESIDENTIAL             | INDUSTRI<br>INDUSTRIAL | USAHA<br>COMMERCIAL |
| 1          | NANGGROE ACEH DARUS-SALAM | NANGGROE ACEH DAR-<br>USSALAM | 823,16                                  | 41,16                  | 217,93              |
| 2          | SUMATERA UTARA            | NORTH SUMATERA                | 2.678,80                                | 1.786,31               | 1.047,54            |
| 3          | SUMATERA BARAT            | WEST SUMATERA                 | 883,13                                  | 694,89                 | 271,98              |
| 4          | R I A U                   | RIAU                          | 1.224,19                                | 132,40                 | 576,55              |
| 5          | SUMATERA SELATAN          | SOUTH SUMATERA                | 1.453,29                                | 461,43                 | 531,27              |
| 6          | JAMBI                     | JAMBI                         | 338,68                                  | 46,65                  | 162,04              |
| 7          | BENGKULU                  | BENGKULU                      | 268,22                                  | 21,16                  | 61,94               |
| 8          | BANGKA BELITUNG           | BANGKA BELITUNG               | 279,44                                  | 27,10                  | 61,18               |
| 9          | LAMPUNG                   | LAMPUNG                       | 1.083,01                                | 353,31                 | 448,60              |
| 10         | KALIMANTAN BARAT          | WEST KALIMANTAN               | 661,44                                  | 60,30                  | 336,38              |
| 11         | KALIMANTAN SELATAN        | SOUTH KALIMANTAN              | 784,31                                  | 122,70                 | 233,28              |
| 12         | KALIMANTAN TENGAH         | CENTRE KALIMANTAN             | 346,90                                  | 18,45                  | 104,05              |
| 13         | KALIMANTAN TIMUR          | EAST KALIMANTAN               | 1.006,11                                | 132,50                 | 413,60              |
| 14         | SULAWESI UTARA            | NORTH SULAWESI                | 435,35                                  | 76,93                  | 222,90              |
| 15         | GORONTALO                 | GORONTALO                     | 116,87                                  | 10,92                  | 31,64               |
| 16         | SULAWESI TENGAH           | CENTRE SULAWESI               | 286,55                                  | 14,54                  | 72,95               |
| 17         | SULAWESI SELATAN          | SOUTH SULAWESI                | 1.273,23                                | 614,90                 | 554,41              |
| 18         | SULAWESI TENGGARA         | SOUTH EAST SULAWESI           | 221,58                                  | 21,00                  | 70,67               |
| 19         | SULAWESI BARAT            | WEST SULAWESI                 | 72,80                                   | 1,81                   | 20,07               |
| 20         | MALUKU                    | MALUKU                        | 164,23                                  | 4,24                   | 62,48               |
| 21         | MALUKU UTARA              | NORTH MALUKU                  | 97,30                                   | 1,58                   | 34,28               |
| 22         | PAPUA                     | PAPUA                         | 366,84                                  | 5,82                   | 205,65              |
| 23         | BALI                      | BALI                          | 1.201,22                                | 109,65                 | 1.304,43            |
| 24         | NUSA TENGGARA BARAT       | WEST NUSA TENGGARA            | 428,32                                  | 18,52                  | 171,59              |
| 25         | NUSA TENGGARA TIMUR       | EAST NUSA TENGGARA            | 223,81                                  | 4,31                   | 99,77               |
| 26         | PT PLN BATAM              | PT PLN BATAM                  | 381,53                                  | 419,91                 | 441,16              |
| 27         | PT PLN TARAkan            | PT PLN TARAkan                | 56,61                                   | -                      | 93,64               |
|            | LUAR JAWA                 | OUT SIDE JAVA                 | 17.156,92                               | 5.202,49               | 7.851,98            |
| 28         | JAWA TIMUR                | EAST JAVA                     | 8.097,40                                | 8.970,26               | 2.734,17            |
| 29         | JAWA TENGAH               | CENTRAL JAVA                  | 6.424,32                                | 4.527,13               | 1.509,31            |
| 30         | DI Yogyakarta             | DI YOGYAKARTA                 | 932,62                                  | 189,05                 | 364,79              |
| 31         | JAWA BARAT                | WEST JAVA                     | 10.723,60                               | 14.336,10              | 2.463,87            |
| 32         | BANTEN                    | BANTEN                        | 919,06                                  | 4.806,53               | 208,41              |
| 33         | DKI. JAYA & TANGERANG     | DKI JAYA & TANGERANG          | 10.691,49                               | 8.172,67               | 9.396,43            |
|            | J A W A                   | JAVA                          | 37.788,48                               | 41.001,72              | 16.676,98           |
|            | INDONESIA                 | INDONESIA                     | 54.945,41                               | 46.204,21              | 24.528,96           |

| KELOMPOK PELANGGAN<br>TYPE OF COSTUMERS |                                                |                                                    | JUMLAH<br>TOTAL |
|-----------------------------------------|------------------------------------------------|----------------------------------------------------|-----------------|
| SOSIAL<br>SOCIAL                        | GED. KANTOR<br>PEMERINTAH<br>GOVERNMENT OFFICE | PENERANGAN<br>JALAN UMUM<br>PUBLIC STREET LIGHTING |                 |
| 55,65                                   | 51,10                                          | 87,46                                              | 1.276,45        |
| 151,86                                  | 71,33                                          | 361,06                                             | 6.096,90        |
| 56,71                                   | 30,68                                          | 69,13                                              | 2.006,52        |
| 73,37                                   | 58,17                                          | 118,75                                             | 2.183,43        |
| 69,58                                   | 49,59                                          | 89,63                                              | 2.654,79        |
| 14,48                                   | 13,05                                          | 20,00                                              | 594,90          |
| 11,42                                   | 10,89                                          | 13,74                                              | 387,37          |
| 9,64                                    | 12,67                                          | 8,73                                               | 398,76          |
| 47,28                                   | 25,41                                          | 66,42                                              | 2.024,03        |
| 32,77                                   | 34,51                                          | 30,26                                              | 1.155,65        |
| 30,79                                   | 28,21                                          | 50,92                                              | 1.250,21        |
| 15,30                                   | 21,38                                          | 12,58                                              | 518,67          |
| 57,85                                   | 55,55                                          | 55,35                                              | 1.720,96        |
| 29,81                                   | 18,41                                          | 19,75                                              | 803,14          |
| 10,13                                   | 9,76                                           | 9,30                                               | 188,62          |
| 15,52                                   | 20,65                                          | 18,15                                              | 428,35          |
| 85,10                                   | 72,77                                          | 109,79                                             | 2.710,19        |
| 8,52                                    | 14,53                                          | 12,10                                              | 348,40          |
| 2,83                                    | 4,06                                           | 7,22                                               | 108,80          |
| 8,60                                    | 21,41                                          | 6,28                                               | 267,25          |
| 4,68                                    | 13,07                                          | 4,79                                               | 155,70          |
| 25,16                                   | 41,93                                          | 16,05                                              | 661,44          |
| 53,33                                   | 65,44                                          | 54,56                                              | 2.788,65        |
| 28,30                                   | 14,87                                          | 27,31                                              | 688,91          |
| 19,13                                   | 19,47                                          | 16,22                                              | 382,71          |
| 18,04                                   | 26,66                                          | 9,10                                               | 1.296,41        |
| 4,09                                    | 5,66                                           | 5,71                                               | 165,71          |
| 939,95                                  | 811,22                                         | 1.300,35                                           | 33.262,92       |
| 533,66                                  | 214,65                                         | 508,06                                             | 21.058,18       |
| 383,14                                  | 128,69                                         | 422,74                                             | 13.395,34       |
| 121,07                                  | 32,66                                          | 48,67                                              | 1.688,86        |
| 426,69                                  | 202,79                                         | 226,42                                             | 28.379,47       |
| 40,67                                   | 23,52                                          | 36,89                                              | 6.035,08        |
| 860,93                                  | 921,13                                         | 344,98                                             | 30.387,62       |
| 2.366,16                                | 1.523,44                                       | 1.587,75                                           | 100.944,54      |
| 3.306,11                                | 2.334,66                                       | 2.888,11                                           | 134.207,46      |

**TABEL 24**  
**JUMLAH PELANGGAN PER KELOMPOK PELANGGAN PER WILAYAH 2009**  
*NUMBER OF CUSTOMERS BY SECTOR AND BY REGION 2009*

| NO.<br>Nr. | WILAYAH PROPINSI          | PROVINCE REGION           | KELOMPOK PELANGGAN<br>TYPE OF COSTUMERS |                        |                     |
|------------|---------------------------|---------------------------|-----------------------------------------|------------------------|---------------------|
|            |                           |                           | RUMAH TANGGA<br>RESIDENTIAL             | INDUSTRI<br>INDUSTRIAL | USAHA<br>COMMERCIAL |
| 1.         | NANGGROE ACEH DARUS-SALAM | NANGGROE ACEH DARUS-SALAM | 853.659                                 | 887                    | 53.452              |
| 2.         | SUMATERA UTARA            | NORTH SUMATERA            | 2.290.474                               | 3.494                  | 86.695              |
| 3.         | SUMATERA BARAT            | WEST SUMATERA             | 775.637                                 | 285                    | 52.815              |
| 4.         | R I A U                   | RIAU                      | 575.003                                 | 255                    | 67.304              |
| 5.         | SUMATERA SELATAN          | SOUTH SUMATERA            | 947.325                                 | 361                    | 39.886              |
| 6.         | JAMBI                     | JAMBI                     | 206.414                                 | 138                    | 18.720              |
| 7.         | BENGKULU                  | BENGKULU                  | 215.611                                 | 38                     | 9.968               |
| 8.         | BANGKA BELITUNG           | BANGKA BELITUNG           | 127.830                                 | 114                    | 5.776               |
| 9.         | LAMPUNG                   | LAMPUNG                   | 877.400                                 | 238                    | 25.361              |
| 10.        | KALIMANTAN BARAT          | WEST KALIMANTAN           | 486.764                                 | 324                    | 46.025              |
| 11.        | KALIMANTAN SELATAN        | SOUTH KALIMANTAN          | 609.802                                 | 450                    | 25.817              |
| 12.        | KALIMANTAN TENGAH         | CENTRE KALIMANTAN         | 222.729                                 | 103                    | 20.042              |
| 13.        | KALIMANTAN TIMUR          | EAST KALIMANTAN           | 408.307                                 | 244                    | 28.456              |
| 14.        | SULAWESI UTARA            | NORTH SULAWESI            | 361.559                                 | 376                    | 13.242              |
| 15.        | GORONTALO                 | GORONTALO                 | 100.356                                 | 84                     | 3.881               |
| 16.        | SULAWESI TENGAH           | CENTRE SULAWESI           | 273.913                                 | 197                    | 11.081              |
| 17.        | SULAWESI SELATAN          | SOUTH SULAWESI            | 1.131.868                               | 1.034                  | 49.097              |
| 18.        | SULAWESI TENGGARA         | SOUTH EAST SULAWESI       | 183.727                                 | 115                    | 9.828               |
| 19.        | SULAWESI BARAT            | WEST SULAWESI             | 85.705                                  | 26                     | 4.552               |
| 20.        | MALUKU                    | MALUKU                    | 182.849                                 | 40                     | 6.720               |
| 21.        | MALUKU UTARA              | NORTH MALUKU              | 96.558                                  | 20                     | 4.311               |
| 22.        | PAPUA                     | PAPUA                     | 187.598                                 | 59                     | 31.429              |
| 23.        | BALI                      | BALI                      | 656.299                                 | 665                    | 67.169              |
| 24.        | NUSA TENGGARA BARAT       | WEST NUSA TENGGARA        | 336.805                                 | 154                    | 16.792              |
| 25.        | NUSA TENGGARA TIMUR       | EAST NUSA TENGGARA        | 224.869                                 | 117                    | 18.481              |
| 26.        | PT PLN BATAM              | PT. PLN BATAM             | 178.888                                 | 279                    | 21.838              |
| 27.        | PT PLN TARAKAN            | PT. PLN TARAKAN           | 23.905                                  | -                      | 9.348               |
|            | LUAR JAWA                 | OUT SIDE JAVA             | 12.621.854                              | 10.097                 | 748.086             |
| 28.        | JAWA TIMUR                | EAST JAVA                 | 6.546.970                               | 11.114                 | 323.013             |
| 29.        | JAWA TENGAH               | CENTRAL JAVA              | 6.002.195                               | 4.482                  | 196.806             |
| 30.        | DI Yogyakarta             | D.I YOGYAKARTA            | 738.689                                 | 474                    | 30.530              |
| 31.        | JAWA BARAT                | WEST JAVA                 | 7.227.573                               | 10.636                 | 299.853             |
| 32.        | BANTEN                    | BANTEN                    | 716.562                                 | 519                    | 19.321              |
| 33.        | DKI. JAYA & TANGERANG     | DKI JAYA & TANGERANG      | 3.245.987                               | 10.578                 | 261.820             |
|            | J A W A                   | JAVA                      | 24.477.976                              | 37.803                 | 1.131.343           |
|            | INDONESIA                 | INDONESIA                 | 37.099.830                              | 47.900                 | 1.879.429           |

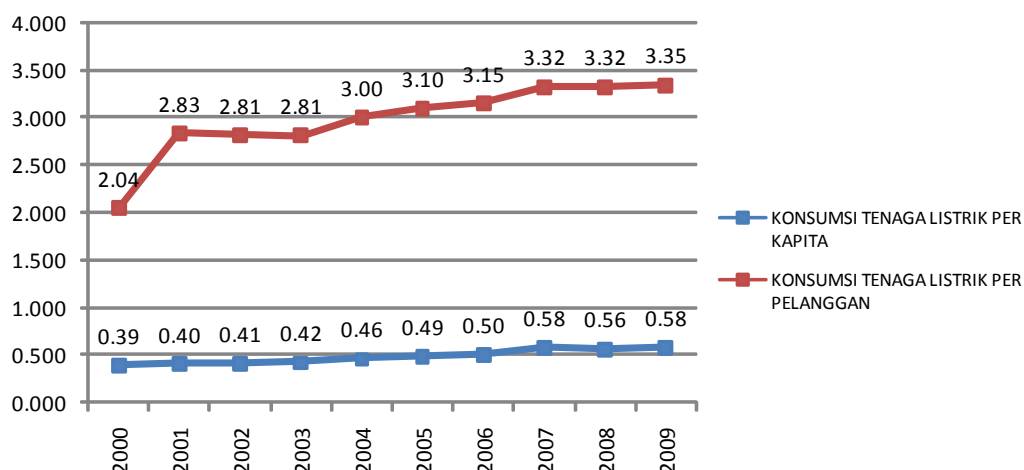
| KELOMPOK PELANGGAN<br>TYPE OF COSTUMERS |                                                |                                                    | JUMLAH<br>TOTAL |
|-----------------------------------------|------------------------------------------------|----------------------------------------------------|-----------------|
| SOSIAL<br>SOCIAL                        | GED. KANTOR<br>PEMERINTAH<br>GOVERNMENT OFFICE | PENERANGAN<br>JALAN UMUM<br>PUBLIC STREET LIGHTING |                 |
| 55,65                                   | 51,10                                          | 87,46                                              | 1.276,45        |
| 151,86                                  | 71,33                                          | 361,06                                             | 6.096,90        |
| 56,71                                   | 30,68                                          | 69,13                                              | 2.006,52        |
| 73,37                                   | 58,17                                          | 118,75                                             | 2.183,43        |
| 69,58                                   | 49,59                                          | 89,63                                              | 2.654,79        |
| 14,48                                   | 13,05                                          | 20,00                                              | 594,90          |
| 11,42                                   | 10,89                                          | 13,74                                              | 387,37          |
| 9,64                                    | 12,67                                          | 8,73                                               | 398,76          |
| 47,28                                   | 25,41                                          | 66,42                                              | 2.024,03        |
| 32,77                                   | 34,51                                          | 30,26                                              | 1.155,65        |
| 30,79                                   | 28,21                                          | 50,92                                              | 1.250,21        |
| 15,30                                   | 21,38                                          | 12,58                                              | 518,67          |
| 57,85                                   | 55,55                                          | 55,35                                              | 1.720,96        |
| 29,81                                   | 18,41                                          | 19,75                                              | 803,14          |
| 10,13                                   | 9,76                                           | 9,30                                               | 188,62          |
| 15,52                                   | 20,65                                          | 18,15                                              | 428,35          |
| 85,10                                   | 72,77                                          | 109,79                                             | 2.710,19        |
| 8,52                                    | 14,53                                          | 12,10                                              | 348,40          |
| 2,83                                    | 4,06                                           | 7,22                                               | 108,80          |
| 8,60                                    | 21,41                                          | 6,28                                               | 267,25          |
| 4,68                                    | 13,07                                          | 4,79                                               | 155,70          |
| 25,16                                   | 41,93                                          | 16,05                                              | 661,44          |
| 53,33                                   | 65,44                                          | 54,56                                              | 2.788,65        |
| 28,30                                   | 14,87                                          | 27,31                                              | 688,91          |
| 19,13                                   | 19,47                                          | 16,22                                              | 382,71          |
| 18,04                                   | 26,66                                          | 9,10                                               | 1.296,41        |
| 4,09                                    | 5,66                                           | 5,71                                               | 165,71          |
| 939,95                                  | 811,22                                         | 1.300,35                                           | 33.262,92       |
| 533,66                                  | 214,65                                         | 508,06                                             | 21.058,18       |
| 383,14                                  | 128,69                                         | 422,74                                             | 13.395,34       |
| 121,07                                  | 32,66                                          | 48,67                                              | 1.688,86        |
| 426,69                                  | 202,79                                         | 226,42                                             | 28.379,47       |
| 40,67                                   | 23,52                                          | 36,89                                              | 6.035,08        |
| 860,93                                  | 921,13                                         | 344,98                                             | 30.387,62       |
| 2.366,16                                | 1.523,44                                       | 1.587,75                                           | 100.944,54      |
| 3.306,11                                | 2.334,66                                       | 2.888,11                                           | 134.207,46      |



**TABEL 25**  
**KONSUMSI TENAGA LISTRIK PER KAPITA DAN PER PELANGGAN**  
*ELECTRICITY CONSUMPTION PER CAPITA AND PER CUSTOMER*

| TAHUN<br>YEAR | JUMLAH PENDUDUK<br>NUMBER OF POPULATION | JUMLAH PELANGGAN<br>NUMBER OF CUSTOMERS | PENJUALAN TENAGA LISTRIK<br>ENERGY SOLD<br>GWh |
|---------------|-----------------------------------------|-----------------------------------------|------------------------------------------------|
| 2001          | 208.900,60                              | 29.827.728                              | 84.520,38                                      |
| 2002          | 212.003,50                              | 30.953.919                              | 87.088,74                                      |
| 2003          | 215.152,38                              | 32.151.416                              | 90.440,94                                      |
| 2004          | 217.854,10                              | 33.366.446                              | 100.097,46                                     |
| 2005          | 220.553,07                              | 34.559.353                              | 107.032,23                                     |
| 2006          | 223.013,78                              | 35.751.224                              | 112.609,80                                     |
| 2007          | 223.013,78                              | 38.844.086                              | 129.018,81                                     |
| 2008          | 228.523,30                              | 38.844.086                              | 129.018,81                                     |
| 2009          | 231.369,50                              | 40.117.685                              | 134.207,46                                     |

**GRAFIK KONSUMSI TENAGA LISTRIK PER KAPITA DAN PER PELANGGAN**  
**TAHUN 2000-2009**

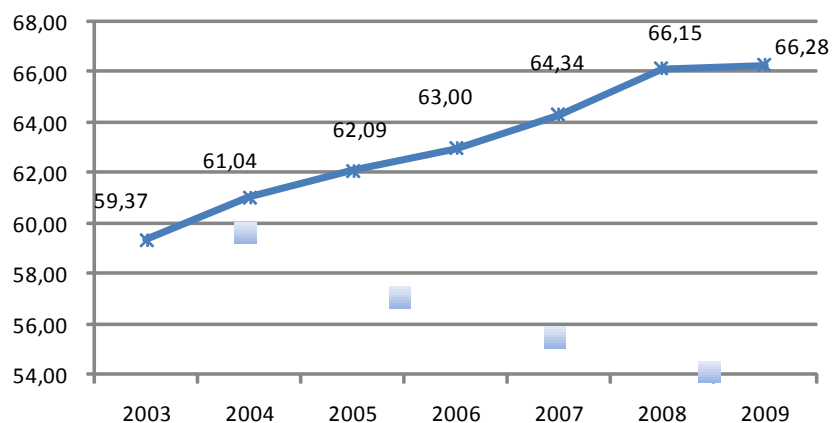


**TABEL 26**  
**RASIO ELEKTRIFIKASI INDONESIA**  
*INDONESIA ELECTRIFICATION RATIO*

| TAHUN<br>YEAR | JUMLAH RUMAH<br>TANGGA<br>NUMBER OF RESIDENTIAL | JUMLAH PELANGGAN<br>RUMAH TANGGA<br>RESIDENTIAL CUSTOMERS | RASIO ELEKTRIFIKASI<br>ELECTRIFICATION RATIO<br>(%) |
|---------------|-------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|
| 2001          | 47.618.873                                      | 27.885.612                                                | 58,56                                               |
| 2002          | 49.046.878                                      | 28.903.325                                                | 58,93                                               |
| 2003          | 50.526.451                                      | 29.997.554                                                | 59,37                                               |
| 2004          | 50.943.594                                      | 31.095.970                                                | 61,04                                               |
| 2005          | 51.819.109                                      | 32.174.485                                                | 62,09                                               |
| 2006          | 52.568.670                                      | 33.118.262                                                | 63,00                                               |
| 2007          | 55.376.392                                      | 35.630.074                                                | 64,34                                               |
| 2008          | 56.088.256                                      | 37.102.381                                                | 66,15                                               |
| 2009          | 58.194.473                                      | 38.573.465                                                | 66,28                                               |

Catatan : tahun 2006 angka MESDM s.d Trw. III 2005

| KONSUMSI TENAGA LISTRIK<br>PER KAPITA<br>ENERGY CONSUMPTION<br>PER CAPITA<br>MWh | KONSUMSI TENAGA LISTRIK<br>PER PELANGGAN<br>ENERGY CONSUMPTION<br>PER CUSTOMER<br>MWh |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0,405                                                                            | 2,834                                                                                 |
| 0,411                                                                            | 2,813                                                                                 |
| 0,420                                                                            | 2,813                                                                                 |
| 0,459                                                                            | 3,000                                                                                 |
| 0,485                                                                            | 3,097                                                                                 |
| 0,505                                                                            | 3,150                                                                                 |
| 0,579                                                                            | 3,321                                                                                 |
| 0,565                                                                            | 3,321                                                                                 |
| 0,580                                                                            | 3,345                                                                                 |

**GRAFIK RASIO ELEKTRIFIKASI 2003-2009**


**TABEL 27**  
**RASIO ELEKTRIFIKASI TAHUN 2009**  
*ELECTRIFICATION RATIO YEAR 2009*

| NO. | PROPINSI                   | PROVINCE                        | KELUARGA<br>BERLISTRIK (PLN)<br>HOUSEHOLD APPLIANCES<br>(PLN) |
|-----|----------------------------|---------------------------------|---------------------------------------------------------------|
|     |                            |                                 | (a)                                                           |
| 1.  | NANGGRO ACEH DARUSALAM     | <i>Nanggroe Aceh Darussalam</i> | 853.659                                                       |
| 2.  | SUMATERA UTARA             | <i>North Sumatera</i>           | 2.290.474                                                     |
| 3.  | SUMATERA BARAT             | <i>West Sumatera</i>            | 775.637                                                       |
| 4.  | RIAU DAN KEPULAUAN RIAU    | <i>Riau</i>                     | 575.003                                                       |
| 5.  | SUMATERA SELATAN           | <i>South Sumatera</i>           | 947.325                                                       |
| 6.  | JAMBI                      | <i>Jambi</i>                    | 206.414                                                       |
| 7.  | BENGKULU                   | <i>Bengkulu</i>                 | 215.611                                                       |
| 8.  | BANGKA BELITUNG            | <i>Bangka Belitung</i>          | 127.830                                                       |
| 9.  | LAMPUNG                    | <i>Lampung</i>                  | 877.400                                                       |
| 10. | DKI JAKARTA                | <i>DKI Jakarta</i>              | 3.245.987                                                     |
| 11. | BANTEN                     | <i>Banten</i>                   | 716.562                                                       |
| 12. | JAWA BARAT                 | <i>West Java</i>                | 7.227.573                                                     |
| 13. | JAWA TENGAH                | <i>Central Java</i>             | 6.002.195                                                     |
| 14. | DI. YOGYAKARTA             | <i>DI Yogyakarta</i>            | 738.689                                                       |
| 15. | JAWA TIMUR                 | <i>East Java</i>                | 6.546.970                                                     |
| 16. | BALI                       | <i>Bali</i>                     | 656.299                                                       |
| 17. | NUSA TENGGARA BARAT        | <i>West Nusa Tenggara</i>       | 336.805                                                       |
| 18. | NUSA TENGGARA TIMUR        | <i>East Nusa Tenggara</i>       | 224.869                                                       |
| 19. | KALIMANTAN BARAT           | <i>West Kalimantan</i>          | 486.764                                                       |
| 20. | KALIMANTAN TENGAH          | <i>Central Kalimantan</i>       | 222.729                                                       |
| 21. | KALIMANTAN SELATAN         | <i>South Kalimantan</i>         | 609.802                                                       |
| 22. | KALIMANTAN TIMUR           | <i>East Kalimantan</i>          | 408.307                                                       |
| 23. | SULAWESI UTARA             | <i>North Sulawesi</i>           | 361.559                                                       |
| 24. | SULAWESI TENGAH            | <i>Central Sulawesi</i>         | 273.913                                                       |
| 25. | SULAWESI SELATAN           | <i>South Sulawesi</i>           | 1.131.868                                                     |
| 26. | SULAWESI TENGGARA          | <i>South East Sulawesi</i>      | 183.727                                                       |
| 27. | SULAWESI BARAT             | <i>West Sulawesi</i>            | 85.705                                                        |
| 28. | GORONTALO                  | <i>Gorontalo</i>                | 100.356                                                       |
| 29. | MALUKU                     | <i>Maluku</i>                   | 182.849                                                       |
| 30. | MALUKU UTARA               | <i>North Maluku</i>             | 96.558                                                        |
| 31. | PAPUA DAN IRIAN JAYA BARAT | <i>Papua</i>                    | 187.598                                                       |
| 32. | PT PLN BATAM               | <i>PT PLN Batam</i>             | 178.888                                                       |
| 33. | PT PLN TARA KAN            | <i>PT PLN TARA KAN</i>          | 23.905                                                        |
|     | TOTAL INDONESIA            |                                 | 37.099.830                                                    |

Nb :

Berdasarkan Data Bps, Statistik Pln, Satker Lisdes Dan EBT

| KELUARGA<br>BERLISTRIK (NON PLN)<br>HOUSEHOLD APPLIANCES<br>(NON-PLN) | JUMLAH<br>KELUARGA<br>NUMBER OF HOUSEHOLD<br>(x1000) | RASIO<br>ELEKTRIFIKASI<br>ELECTRIFICATION RATIO<br>(%) |
|-----------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|
| (b)                                                                   | (c)                                                  | (a+b)/c*100%                                           |
| 29.189                                                                | 972,8                                                | 90,76                                                  |
| 47.678                                                                | 2.981,9                                              | 78,41                                                  |
| 28.061                                                                | 1.154,0                                              | 69,64                                                  |
| 229.363                                                               | 1.416,5                                              | 56,79                                                  |
| 118.400                                                               | 1.688,2                                              | 63,13                                                  |
| 77.292                                                                | 690,4                                                | 41,09                                                  |
| 17.748                                                                | 408,8                                                | 57,08                                                  |
| 54.772                                                                | 280,6                                                | 65,08                                                  |
| 104.353                                                               | 1.837,5                                              | 53,43                                                  |
| 5.266                                                                 | 3.589,6                                              | 90,57                                                  |
| 9.108                                                                 | 1.036,1                                              | 70,04                                                  |
| 54.718                                                                | 10.847,9                                             | 67,13                                                  |
| 37.782                                                                | 8.593,1                                              | 70,29                                                  |
| 104                                                                   | 1.047,2                                              | 70,55                                                  |
| 90.846                                                                | 10.114,2                                             | 65,63                                                  |
| 8.531                                                                 | 901,9                                                | 73,71                                                  |
| 36.884                                                                | 1.150,2                                              | 32,49                                                  |
| 56.456                                                                | 985,9                                                | 28,54                                                  |
| 49.681                                                                | 967,4                                                | 55,45                                                  |
| 41.123                                                                | 515,0                                                | 51,23                                                  |
| 25.032                                                                | 923,1                                                | 68,77                                                  |
| 73.034                                                                | 716,0                                                | 67,22                                                  |
| 18.021                                                                | 590,5                                                | 64,28                                                  |
| 39.016                                                                | 589,8                                                | 53,06                                                  |
| 99.367                                                                | 1.797,4                                              | 68,50                                                  |
| 34.139                                                                | 472,2                                                | 46,14                                                  |
| 1.558                                                                 | 238,1                                                | 36,65                                                  |
| 11.863                                                                | 250,3                                                | 44,83                                                  |
| 17.539                                                                | 288,5                                                | 69,45                                                  |
| 25.087                                                                | 207,9                                                | 58,52                                                  |
| 31.624                                                                | 672,4                                                | 32,60                                                  |
| -                                                                     | 227,1                                                | 78,76                                                  |
| -                                                                     | 41,7                                                 | 57,30                                                  |
| 1.473.635,00                                                          | 58.194,47                                            | 66,28                                                  |

**TABEL 28**  
**NERACA PENGUSAHAAN TENAGA LISTRIK PLN PER WILAYAH 2009**  
*PLN'S ELECTRICITY BALANCE BY REGION 2009*  
**(MWh)**

| NO<br>Nr | WILAYAH<br>REGION              | DIBELI DARI<br>LUAR PLN<br>(NON PLN)<br><i>PURCHASED<br/>FROM<br/>OUTSIDE<br/>PLN</i> | TERIMA DARI<br>UNIT LAIN<br><i>RECEIVED<br/>FROM OTHER<br/>UNIT</i> | PRODUKSI<br>SENDIRI *)<br><i>PLN'S PRO-<br/>DUCTION</i> | PEMAKAIAN<br>SENDIRI<br><i>OWN USED</i> |      | PRODUKSI<br>NETTO<br><i>PRODUCTION<br/>NETTO</i> | PEMAKAIAN<br>SENDIRI<br>GARDU INDUK<br><i>OWN USE<br/>SUB STATION</i> |      | SUSUT<br>TRANSI-<br>MISI<br><i>TRANS-<br/>MISSION<br/>LOSSES</i> |
|----------|--------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------|--------------------------------------------------|-----------------------------------------------------------------------|------|------------------------------------------------------------------|
|          |                                |                                                                                       |                                                                     |                                                         | MWh                                     | %    |                                                  | MWh                                                                   | %    |                                                                  |
| 1        | NANGGROE ACEH DARUSSALAM       | -                                                                                     | 1.206,82                                                            | 322,65                                                  | 7,97                                    | 2,47 | 1.521,50                                         | -                                                                     | -    | -                                                                |
| 2        | SUMATERA UTARA                 | 55,18                                                                                 | 6.725,47                                                            | 32,39                                                   | 0,50                                    | 1,53 | 6.812,55                                         | -                                                                     | -    | -                                                                |
| 3        | SUMATERA BARAT                 | 2,31                                                                                  | 2.118,71                                                            | 76,04                                                   | 2,09                                    | 2,75 | 2.194,96                                         | -                                                                     | -    | -                                                                |
| 4        | RIAU                           | 49,82                                                                                 | 1.703,23                                                            | 742,30                                                  | 22,07                                   | 2,97 | 2.473,28                                         | -                                                                     | -    | -                                                                |
| 5        | SUMSEL, JAMBI, DAN BENGKULU    | 284,44                                                                                | 3.734,82                                                            | 88,48                                                   | 1,14                                    | 1,29 | 4.106,60                                         | -                                                                     | -    | -                                                                |
| 6        | BANGKA BELITUNG                | 17,83                                                                                 | -                                                                   | 436,35                                                  | 10,04                                   | 2,30 | 444,15                                           | -                                                                     | -    | -                                                                |
| 7        | LAMPUNG                        | -                                                                                     | 2.315,79                                                            | 2,70                                                    | 0,09                                    | 3,22 | 2.318,41                                         | -                                                                     | -    | -                                                                |
| 8        | KALIMANTAN BARAT               | 1,26                                                                                  | -                                                                   | 1.330,73                                                | 41,01                                   | 3,08 | 1.290,99                                         | -                                                                     | -    | 2,32                                                             |
| 9        | KALSEL DAN KALTENG             | 101,62                                                                                | -                                                                   | 2.024,36                                                | 137,08                                  | 6,77 | 1.988,90                                         | 1,13                                                                  | 0,06 | 15,25                                                            |
| 10       | KALIMANTAN TIMUR               | 322,20                                                                                | -                                                                   | 1.619,95                                                | 31,66                                   | 1,95 | 1.910,49                                         | 0,64                                                                  | 0,03 | 21,21                                                            |
| 11       | SULUT, SULTENG DAN GORONTALO   | 216,85                                                                                | -                                                                   | 1.425,37                                                | 55,00                                   | 3,86 | 1.587,23                                         | 0,49                                                                  | 0,03 | 17,74                                                            |
| 12       | SULSEL, SULTRA, & SULBAR       | 1.838,42                                                                              | -                                                                   | 1.746,57                                                | 44,42                                   | 2,54 | 3.540,57                                         | 1,84                                                                  | 0,05 | 123,67                                                           |
| 13       | MALUKU DAN MALUKU UTARA        | -                                                                                     | -                                                                   | 476,50                                                  | 8,50                                    | 1,78 | 468,01                                           | -                                                                     | -    | -                                                                |
| 14       | PAPUA                          | 29,97                                                                                 | -                                                                   | 712,87                                                  | 12,08                                   | 1,69 | 730,76                                           | -                                                                     | -    | -                                                                |
| 15       | DISTRIBUSI BALI                | 3,74                                                                                  | 2.953,59                                                            | 9,29                                                    | 0,01                                    | 0,16 | 2.966,60                                         | -                                                                     | -    | -                                                                |
| 16       | NUSA TENGGARA BARAT            | -                                                                                     | -                                                                   | 790,15                                                  | 38,63                                   | 4,89 | 751,52                                           | -                                                                     | -    | -                                                                |
| 17       | NUSA TENGGARA TIMUR            | -                                                                                     | -                                                                   | 422,40                                                  | 5,20                                    | 1,23 | 417,21                                           | -                                                                     | -    | -                                                                |
| 18       | PT PLN BATAM                   | 828,22                                                                                | -                                                                   | 568,95                                                  | 1,95                                    | 0,34 | 1.395,22                                         | 0,69                                                                  | 0,05 | 2,47                                                             |
| 19       | PT PLN TARAKAN                 | 56,16                                                                                 | -                                                                   | 121,97                                                  | 3,64                                    | 2,99 | 174,49                                           | -                                                                     | -    | -                                                                |
| 20       | KITLUR SUMBAGUT                | -                                                                                     | 62,52                                                               | 9.237,95                                                | 355,40                                  | 3,85 | 8.945,07                                         | -                                                                     | -    | -                                                                |
| 21       | KITLUR SUMBAGSEL               | -                                                                                     | 18,34                                                               | 7.945,59                                                | 438,08                                  | 5,51 | 7.525,84                                         | -                                                                     | -    | -                                                                |
| 22       | P3B SUMATERA                   | 2.063,29                                                                              | 16.417,97                                                           | -                                                       | -                                       | -    | 18.481,26                                        | 18,10                                                                 | 0,10 | 642,07                                                           |
|          | LUAR JAWA                      | 5.871,30                                                                              | 2.953,59                                                            | 30.133,57                                               | 1.216,54                                | 4,04 | 37.741,92                                        | 22,89                                                                 | 0,06 | 824,74                                                           |
| 23       | DIST. JAWA TIMUR               | 0,12                                                                                  | 22.744,15                                                           | 20,96                                                   | 0,03                                    | 0,13 | 22.765,21                                        | -                                                                     | -    | -                                                                |
| 24       | DIST. JATENG DAN DI.YOGYAKARTA | 12,49                                                                                 | 16.312,60                                                           | 0,44                                                    | 0,02                                    | 4,14 | 16.325,50                                        | -                                                                     | -    | -                                                                |
| 25       | DIST. JAWA BARAT DAN BANTEN    | 71,53                                                                                 | 38.451,63                                                           | 0,24                                                    | 0,00                                    | 0,44 | 38.523,39                                        | -                                                                     | -    | -                                                                |
| 26       | DIST. JAKARTA RAYA & TANGERANG | 0,40                                                                                  | 34.676,15                                                           | -                                                       | -                                       | -    | 34.676,55                                        | -                                                                     | -    | -                                                                |
| 27       | PT INDONESIA POWER             | -                                                                                     | 378,13                                                              | 42.793,03                                               | 1.903,55                                | 4,45 | 41.267,61                                        | -                                                                     | -    | -                                                                |
| 28       | PT PJB                         | -                                                                                     | 118,24                                                              | 30.852,12                                               | 1.302,26                                | 4,22 | 29.668,09                                        | -                                                                     | -    | -                                                                |
| 29       | P3B JAWA BALI                  | 30.213,08                                                                             | 86.889,42                                                           | -                                                       | -                                       | -    | 117.102,49                                       | 63,11                                                                 | 0,05 | 2.478,53                                                         |
| 30       | PEMBANGKITAN MUARA TAWAR       | -                                                                                     | 2,46                                                                | 3.929,73                                                | 26,37                                   | 0,67 | 3.905,82                                         | -                                                                     | -    | -                                                                |
| 31       | PLTGU CILEGON                  | -                                                                                     | 0,92                                                                | 3.997,92                                                | 82,56                                   | 2,07 | 3.916,28                                         | 0,00                                                                  | 0,00 | -                                                                |
| 32       | T.J. JATI B                    | -                                                                                     | 18,82                                                               | 8.900,35                                                | 693,67                                  | 7,79 | 8.225,50                                         | -                                                                     | -    | -                                                                |
|          | LUAR JAWA BALI                 | 30.297,62                                                                             | -                                                                   | 90.494,79                                               | 4.008,46                                | 4,43 | 116.783,95                                       | 63,11                                                                 | 0,05 | 2.478,53                                                         |
|          | INDONESIA                      | 36.168,92                                                                             | -                                                                   | 120.628,35                                              | 5.224,99                                | 4,33 | 151.572,28                                       | 86,00                                                                 | 0,06 | 3.303,27                                                         |

Keterangan:

\*) termasuk sewa genset dan sewa PLTG

\*\*) termasuk ke luar PLN

\*\*\*) Pemakaian sendiri GI dan Sistem Distribusi

| SUSUT<br>TRANSIMISI<br>TRANS-<br>MISSION<br>LOSSES | DIKIRIM KE<br>UNIT LAIN<br>)<br>SEND TO<br>OTHER<br>UNIT | DIKIRIM KE<br>DISTRIBUSI<br>SEND TO<br>DISTRIBUTION | PEMAKAIAN SENDIRI OWN USE                                  |      |                                            |       | SUSUT ENERGI<br>PLN'S LOSSES |       | SUSUT ENERGI<br>& PEMAKAIAN<br>SENDIRI )<br>PLN'S LOSSES<br>& OWN USED |       | PEMAKAIAN<br>USED |       |
|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------|--------------------------------------------|-------|------------------------------|-------|------------------------------------------------------------------------|-------|-------------------|-------|
|                                                    |                                                          |                                                     | GARDU DISTRIBUSI<br>OWN USE<br>DISTRIBUTION<br>SUB STATION |      | SUSUT DISTRIBUSI<br>DISTRIBUTION<br>LOSSES |       |                              |       |                                                                        |       |                   |       |
| %                                                  |                                                          |                                                     | MWh                                                        | %    | MWh                                        | %     | MWh                          | %     | MWh                                                                    | %     | MWh               | %     |
| -                                                  | -                                                        | 1.521,50                                            | 1,37                                                       | 0,09 | 220,73                                     | 14,51 | 220,73                       | 14,51 | 222,10                                                                 | 14,60 | 1.299,40          | 85,40 |
| -                                                  | 56,74                                                    | 6.755,81                                            | 0,47                                                       | 0,01 | 619,07                                     | 9,09  | 619,07                       | 9,09  | 619,54                                                                 | 9,09  | 6.136,27          | 90,07 |
| -                                                  | 11,87                                                    | 2.183,09                                            | 1,05                                                       | 0,05 | 154,20                                     | 7,03  | 154,20                       | 7,03  | 155,25                                                                 | 7,07  | 2.027,84          | 92,39 |
| -                                                  | 16,54                                                    | 2.456,74                                            | 8,02                                                       | 0,32 | 252,69                                     | 10,22 | 252,69                       | 10,22 | 260,71                                                                 | 10,54 | 2.196,03          | 88,79 |
| -                                                  | 4,55                                                     | 4.102,04                                            | 3,70                                                       | 0,09 | 416,25                                     | 10,14 | 416,25                       | 10,14 | 419,95                                                                 | 10,23 | 3.682,09          | 89,66 |
| -                                                  | -                                                        | 444,15                                              | -                                                          | -    | 42,10                                      | 9,48  | 42,10                        | 9,48  | 42,10                                                                  | 9,48  | 402,04            | 90,52 |
| -                                                  | -                                                        | 2.318,41                                            | 19,41                                                      | 0,84 | 252,68                                     | 10,90 | 252,68                       | 10,90 | 272,08                                                                 | 11,74 | 2.046,32          | 88,26 |
| 0,18                                               | -                                                        | 1.288,66                                            | -                                                          | -    | 125,31                                     | 9,71  | 127,63                       | 9,89  | 127,63                                                                 | 9,89  | 1.163,36          | 90,11 |
| 0,77                                               | -                                                        | 1.972,52                                            | -                                                          |      | 180,31                                     | 9,07  | 195,57                       | 9,83  | 196,69                                                                 | 9,89  | 1.792,21          | 90,11 |
| 1,11                                               | -                                                        | 1.888,64                                            | -                                                          | -    | 144,02                                     | 7,54  | 165,23                       | 8,65  | 165,87                                                                 | 8,68  | 1.744,62          | 91,32 |
| 1,12                                               | -                                                        | 1.569,00                                            | 0,94                                                       | 0,06 | 132,20                                     | 8,33  | 149,94                       | 9,45  | 151,37                                                                 | 9,54  | 1.435,86          | 90,46 |
| 3,49                                               | 0,17                                                     | 3.414,88                                            | 2,02                                                       | 0,06 | 213,53                                     | 6,03  | 337,20                       | 9,52  | 341,07                                                                 | 9,63  | 3.199,33          | 90,36 |
| -                                                  | -                                                        | 468,01                                              | -                                                          | -    | 47,69                                      | 10,19 | 47,69                        | 10,19 | 47,69                                                                  | 10,19 | 420,31            | 89,81 |
| -                                                  | -                                                        | 730,76                                              | -                                                          | -    | 66,33                                      | 9,08  | 66,33                        | 9,08  | 66,33                                                                  | 9,08  | 664,43            | 90,92 |
| -                                                  | -                                                        | 2.966,60                                            | 0,00                                                       | 0,00 | 155,02                                     | 5,23  | 155,02                       | 5,23  | 155,02                                                                 | 5,23  | 2.811,58          | 94,77 |
| -                                                  | -                                                        | 751,52                                              | 0,08                                                       | 0,01 | 56,34                                      | 7,50  | 56,34                        | 7,50  | 56,42                                                                  | 7,51  | 695,10            | 92,49 |
| -                                                  | -                                                        | 417,21                                              | 0,04                                                       | 0,01 | 29,44                                      | 7,06  | 29,44                        | 7,06  | 29,49                                                                  | 7,07  | 387,72            | 92,93 |
| 0,18                                               | -                                                        | 1.392,06                                            | 1,09                                                       | 0,08 | 94,56                                      | 6,78  | 97,04                        | 6,95  | 98,81                                                                  | 7,08  | 1.296,41          | 92,92 |
| -                                                  | -                                                        | 174,49                                              | -                                                          | -    | 8,78                                       | 5,03  | 8,78                         | 5,03  | 8,78                                                                   | 5,03  | 165,71            | 94,97 |
| -                                                  | 8.945,07                                                 | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| -                                                  | 7.525,84                                                 | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| 3,47                                               | 17.821,09                                                | -                                                   | -                                                          | -    | -                                          | -     | 642,07                       | 3,47  | 660,17                                                                 | 3,57  | -                 | -     |
| 2,19                                               | 34.381,87                                                | 36.816,08                                           | 38,17                                                      | 0,10 | 3.211,27                                   | 8,51  | 4.036,01                     | 10,69 | 4.097,07                                                               | 10,86 | 33.566,64         | 88,94 |
| -                                                  | 0,05                                                     | 22.765,15                                           | -                                                          | -    | 1.519,63                                   | 6,68  | 1.519,63                     | 6,68  | 1.519,63                                                               | 6,68  | 21.245,52         | 93,32 |
| -                                                  | 0,42                                                     | 16.325,09                                           | -                                                          | -    | 1.083,09                                   | 6,63  | 1.083,09                     | 6,63  | 1.083,09                                                               | 6,63  | 15.241,99         | 93,36 |
| -                                                  | 228,44                                                   | 38.294,96                                           | 68,97                                                      | 0,18 | 2.905,08                                   | 7,54  | 2.905,08                     | 7,54  | 2.974,05                                                               | 7,72  | 35.320,91         | 91,69 |
| -                                                  | 855,85                                                   | 33.820,70                                           | 117,90                                                     | 0,34 | 3.025,25                                   | 8,72  | 3.025,25                     | 8,72  | 3.143,15                                                               | 9,06  | 30.677,55         | 88,47 |
| -                                                  | 41.267,61                                                | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| -                                                  | 29.668,09                                                | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| 2,12                                               | 114.560,86                                               | -                                                   | -                                                          | -    | -                                          | -     | 2.478,53                     | 2,12  | 2.541,64                                                               | 2,17  | -                 | -     |
| -                                                  | 3.905,82                                                 | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| -                                                  | 3.916,28                                                 | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| -                                                  | 8.225,50                                                 | -                                                   | -                                                          | -    | -                                          | -     | -                            | -     | -                                                                      | -     | -                 | -     |
| 2,12                                               | 2.953,59                                                 | 111.205,90                                          | 186,87                                                     | 0,16 | 8.533,05                                   | 7,47  | 11.011,58                    | 9,43  | 11.261,56                                                              | 9,64  | 102.485,98        | 87,76 |
| 2,18                                               | 161,03                                                   | 148.021,98                                          | 225,04                                                     | 0,15 | 11.744,32                                  | 7,93  | 15.047,59                    | 9,93  | 15.358,63                                                              | 10,13 | 136.052,62        | 91,91 |



**TABEL 29**  
**PROSENTASE SUSUT TENAGA LISTRIK PLN**  
*PLN LOSSES PERCENTAGE*

| TAHUN<br>YEAR | TRANSMISI<br>TRANSMISSION | DISTRIBUSI<br>DISTRIBUTION | JUMLAH<br>TOTAL |
|---------------|---------------------------|----------------------------|-----------------|
| 2001          | 2,30                      | 10,75                      | 13,05           |
| 2002          | 2,50                      | 13,47                      | 15,15           |
| 2003          | 2,38                      | 13,91                      | 16,28           |
| 2004          | 2,33                      | 8,96                       | 11,29           |
| 2005          | 2,27                      | 9,28                       | 11,54           |
| 2006          | 2,26                      | 9,18                       | 11,44           |
| 2007          | 2,24                      | 8,84                       | 11,08           |
| 2008          | 2,17                      | 8,29                       | 10,45           |
| 2009          | 2,18                      | 7,93                       | 10,11           |

**TABEL 30**  
**PEMAKAIAN BAHAN BAKAR PER JENIS PEMBANGKIT**  
*FUEL CONSUMPTION BY TYPE OF POWER PLANT*

| TAHUN<br>YEAR | PLTU                |                        |                                  | PLTG                      |
|---------------|---------------------|------------------------|----------------------------------|---------------------------|
|               | MINYAK<br>STEAM OIL | BATUBARA<br>STEAM COAL | GAS ALAM<br>STEAM NATURAL<br>GAS | MINYAK OIL<br>GAS TURBINE |
|               | (kilo liter)        | (ton)                  | (mmscf)                          | (kilo liter)              |
| 1998          | -                   | 10.634.490,00          | -                                | -                         |
| 1999          | -                   | 11.414.098,00          | -                                | -                         |
| 2000          | 1.695.268,52        | 13.135.583,77          | 37.283,00                        | 480.302,34                |
| 2001          | 1.789.626,93        | 14.027.712,69          | 35.238,79                        | 554.638,14                |
| 2002          | -                   | 14.054.337,00          | -                                | -                         |
| 2003          | 2.542.821,71        | 15.260.304,83          | 13.565,76                        | 907.797,44                |
| 2004          | 2.624.689,12        | 15.412.738,26          | 13.973,97                        | 843.656,34                |
| 2005          | 2.226.522,55        | 16.900.972,42          | 9.196,11                         | 1.750.112,04              |
| 2006          | 2.359.120,02        | 19.084.437,71          | 9.718,50                         | 1.582.632,24              |
| 2007          | 2.702.130,71        | 21.466.348,18          | 19.751,98                        | 1.582.632,24              |
| 2008          | 2.827.173,13        | 20.999.521,15          | 9.170,43                         | 1.705.134,99              |
| 2009          | 2.588.586,13        | 21.604.463,70          | 8.562,52                         | 1.115.367,00              |

Catatan / Note :

\*) Termasuk PLTG-G (steam gas alam) dan PLTU-G (gas alam) / Included PLTG-G (natural gas), and PLTU-G (steam natural gas)

\*\*) Termasuk PLTU-M (minyak), PLTG-M (minyak), dan PLTGU-M (minyak) / Included PLTU-M (oil), PLTG-M (oil), dan PLTGU-M (oil)

| PLTG                               | PLTGU                           |                                   |   | P L T D              |    |
|------------------------------------|---------------------------------|-----------------------------------|---|----------------------|----|
| GAS ALAM<br>NATURAL GAS<br>TURBINE | MINYAK OIL<br>COMBINED<br>CYCLE | GAS ALAM GAS<br>COMBINED<br>CYCLE |   | MINYAK OIL<br>DIESEL |    |
| (mmscf)                            | (kilo liter)                    | (mmscf)                           |   | (kilo liter)         |    |
| -                                  | -                               | 222.055,00                        | * | 4.135.997,00         | ** |
| -                                  | -                               | 236.612,00                        | * | 4.703.164,00         | ** |
| 885,87                             | 1.066.149,48                    | 190.668,77                        |   | 1.781.910,54         |    |
| 2.792,33                           | 1.244.474,04                    | 184.389,65                        |   | 1.810.349,07         |    |
| -                                  | -                               | 192.927,00                        | * | 6.966.807,00         | ** |
| 6.415,74                           | 2.188.087,71                    | 164.322,96                        |   | 1.974.773,96         |    |
| 12.718,45                          | 3.047.392,90                    | 149.743,72                        |   | 1.990.679,28         |    |
| 15.493,67                          | 3.843.320,20                    | 118.360,27                        |   | 2.067.968,25         |    |
| 20.471,49                          | 3.904.159,16                    | 127.473,51                        |   | 1.847.868,75         |    |
| 19.191,74                          | 3.904.159,16                    | 138.259,81                        |   | 2.292.992,58         |    |
| 19.647,42                          | 4.273.990,53                    | 150.443,06                        |   | 2.514.190,64         |    |
| 71.473,69                          | 2.950.343,90                    | 184.874,77                        |   | 2.754.607,45         |    |

**TABEL 31**  
**PEMAKAIAN BAHAN BAKAR PER JENIS PEMBANGKIT PER WILAYAH 2009**  
*FUEL CONSUMPTION OF POWER PLANT BY TYPE AND BY REGION 2009*

| No<br>Nr. | WILAYAH/ PROPINSI                   | REGION<br>PROVINCE                       | PLTU                |                        |                                  |
|-----------|-------------------------------------|------------------------------------------|---------------------|------------------------|----------------------------------|
|           |                                     |                                          | MINYAK<br>STEAM OIL | BATUBARA<br>STEAM COAL | GAS ALAM<br>STEAM<br>NATURAL GAS |
|           |                                     |                                          | (kilo liter)        | (ton)                  | (mmscf)                          |
| 1         | NANGGROE ACEH DARUSSALAM            | NANGGROE ACEH DARUSSALAM                 |                     |                        |                                  |
| 2         | SUMATERA UTARA                      | NORTH SUMATERA                           |                     |                        |                                  |
| 3         | SUMATERA BARAT                      | WEST SUMATERA                            |                     |                        |                                  |
| 4         | R I A U                             | RIAU                                     |                     |                        |                                  |
| 5         | SUMATERA SELATAN, JAMBI, & BENGKULU | SOUTH SUMATERA, JAMBI, & BENGKULU        |                     |                        |                                  |
| 6         | SUMATERA SELATAN                    | SOUTH SUMATERA                           |                     |                        |                                  |
| 7         | JAMBI                               | JAMBI                                    |                     |                        |                                  |
| 8         | BENGKULU                            | BENGKULU                                 |                     |                        |                                  |
| 9         | BANGKA BELITUNG                     | BANGKA BELITUNG                          |                     |                        |                                  |
| 10        | LAMPUNG                             | LAMPUNG                                  |                     |                        |                                  |
| 11        | KALIMANTAN BARAT                    | WEST KALIMANTAN                          |                     |                        |                                  |
| 12        | KALIMANTAN SELATAN, & TENGAH        | SOUTH & CENTRE KALIMANTAN                | 895,32              | 742.265,00             |                                  |
| 13        | KALIMANTAN SELATAN                  | SOUTH KALIMANTAN                         |                     |                        |                                  |
| 14        | KALIMANTAN TENGAH                   | CENTRE KALIMANTAN                        |                     |                        |                                  |
| 15        | KALIMANTAN TIMUR                    | EAST KALIMANTAN                          |                     |                        |                                  |
| 16        | SULAWESI UTARA, TENGAH, & GORONTALO | NORTH, CENTRE SULAWESI, & GORON-<br>TALO |                     |                        |                                  |
| 17        | SULAWESI UTARA                      | NORTH SULAWESI                           |                     |                        |                                  |
| 18        | SULAWESI TENGAH                     | CENTRE SULAWESI                          |                     |                        |                                  |
| 19        | GORONTALO                           | GORONTALO                                |                     |                        |                                  |
| 20        | SULAWESI SELATAN, & TENGGARA        | SOUTH, & SOUTH EAST SULAWESI             | 20.363,09           |                        |                                  |
| 21        | SULAWESI SELATAN                    | SOUTH SULAWESI                           |                     |                        |                                  |
| 22        | SULAWESI TENGGARA                   | SOUTH EAST SULAWESI                      |                     |                        |                                  |
| 23        | MALUKU, & MALUKU UTARA              | MALUKU, & NORTH MALUKU                   |                     |                        |                                  |
| 24        | MALUKU                              | MALUKU                                   |                     |                        |                                  |
| 25        | MALUKU UTARA                        | NORTH MALUKU                             |                     |                        |                                  |
| 26        | PAPUA                               | PAPUA                                    |                     |                        |                                  |
| 27        | BALI                                | BALI                                     |                     |                        |                                  |
| 28        | NUSA TENGGARA BARAT                 | WEST NUSA TENGGARA                       |                     |                        |                                  |
| 29        | NUSA TENGGARA TIMUR                 | EAST NUSA TENGGARA                       |                     |                        |                                  |
| 30        | PT PLN BATAM                        | PT PLN BATAM                             |                     |                        |                                  |
| 31        | PT PLN TARAKAN                      | PT PLN TARAKAN                           |                     |                        |                                  |
| 32        | Kit SUMBAGUT                        | SUMBAGUT                                 | 361.326,11          | 526.536,11             | 1.130,10                         |
| 33        | Kit SUMBAGSEL                       | SUMBAGSEL                                | 10.668,88           | 2.031.381,32           | 1.968,08                         |
|           | LUAR JAWA                           | OUT SIDE JAVA                            | 393.253,39          | 3.300.182,43           | 3.098,18                         |
| 34        | JAWA TIMUR                          | EAST JAVA                                |                     |                        |                                  |
| 35        | JAWA TENGAH & YOGYAKARTA            | CENTRAL JAVA & YOGYAKARTA                |                     |                        |                                  |
| 36        | JAWA BARAT, & BANTEN                | WEST JAVA, & BANTEN                      |                     |                        |                                  |
| 37        | JAWA BARAT                          | WEST JAVA                                |                     |                        |                                  |
| 38        | BANTEN                              | BANTEN                                   |                     |                        |                                  |
| 39        | DKI JAYA & TANGERANG                | DKI JAYA & TANGERANG                     |                     |                        |                                  |
| 40        | PT INDONESIA POWER                  | PT. INDONESIA POWER                      | 543.221,09          | 11.631.612,60          |                                  |
| 41        | PT PJB                              | PT. PJB                                  | 1.649.865,96        | 3.052.437,50           | 5.464,34                         |
| 42        | PEMBANGKITAN MUARA TAWAR            |                                          |                     |                        |                                  |
| 43        | PEMBANGKITAN CILEGON                |                                          | 2.245,69            | 3.620.231,17           |                                  |
| 44        | PEMBANGKITAN TANJUNG JATI B         |                                          |                     |                        |                                  |
|           | J A W A                             | JAVA                                     | 2.195.332,74        | 18.304.281,27          | 5.464,34                         |
|           | INDONESIA                           | INDONESIA                                | 2.588.586,13        | 21.604.463,70          | 8.562,52                         |

| PLTG                      |                                    | PLTGU                        |                                | PLTD                 | PLTD                    |
|---------------------------|------------------------------------|------------------------------|--------------------------------|----------------------|-------------------------|
| MINYAK<br>Oil GAS TURBINE | GAS ALAM<br>NATURAL GAS<br>TURBINE | MINYAK OIL<br>COMBINED CYCLE | GAS ALAM GAS<br>COMBINED CYCLE | MINYAK<br>OIL DIESEL | GAS ALAM<br>NATURAL GAS |
| (kilo liter)              | (mmscf)                            | (kilo liter)                 | (mmscf)                        | (kilo liter)         | (mmscf)                 |
| -                         | -                                  | -                            | -                              | 89,268.22            | -                       |
| -                         | -                                  | -                            | -                              | 9,156.21             | -                       |
| -                         | -                                  | -                            | -                              | 21,202.45            | -                       |
| -                         | -                                  | -                            | -                              | 208,324.63           | -                       |
| -                         | -                                  | -                            | -                              | 24,696.22            | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | 115,363.61           | -                       |
| -                         | -                                  | -                            | -                              | 1,053.90             | -                       |
| -                         | -                                  | -                            | -                              | 331,277.88           | -                       |
| 20,811.83                 | -                                  | -                            | -                              | 221,066.40           | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | 528.13                             | -                            | 1,623.38                       | 349,517.74           | -                       |
| -                         | -                                  | -                            | -                              | 227,968.35           | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| 104,546.28                | -                                  | -                            | -                              | 169,143.44           | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | 138,523.21           | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | 185,630.10           | -                       |
| -                         | -                                  | -                            | -                              | 2,635.16             | -                       |
| -                         | -                                  | -                            | -                              | 208,756.06           | -                       |
| -                         | -                                  | -                            | -                              | 118,567.32           | -                       |
| -                         | 5,817.17                           | -                            | -                              | 15,164.92            | -                       |
| -                         | -                                  | -                            | -                              | 2,785.61             | 1,542.66                |
| 129,008.10                | 4,720.21                           | 993,750.15                   | 4,115.83                       | 239,846.18           | -                       |
| 60,555.94                 | 18,465.59                          | -                            | -                              | 33,372.57            | 85.12                   |
| 346,434.36                | 29,531.09                          | 993,750.15                   | 5,739.21                       | 2,713,320.18         | 1,627.78                |
| -                         | -                                  | -                            | -                              | 5,673.83             | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | 126.62               | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| -                         | -                                  | -                            | -                              | -                    | -                       |
| 646,276.98                | 1,277.53                           | 1,572,681.93                 | 27,132.26                      | 35,486.83            | -                       |
| 12,883.24                 | -                                  | 383,803.69                   | 123,111.21                     | 0.00                 | -                       |
| 109,772.43                | 40,665.07                          | -                            | -                              | 0.00                 | -                       |
| -                         | -                                  | -                            | -                              | 0.00                 | -                       |
| -                         | -                                  | 108.13                       | 28,892.09                      | 0.00                 | -                       |
| 768,932.64                | 41,942.60                          | 1,956,593.75                 | 179,135.56                     | 41,287.28            | 0.00                    |
| 1,115,367.00              | 71,473.69                          | 2,950,343.90                 | 184,874.77                     | 2,754,607.45         | 1,627.78                |

**TABEL 32**  
**PEMAKAIAN BAHAN BAKAR SPESIFIK 2009**  
**SPECIFIC CONSUMPTION 2009**

| No<br>Nr. | WILAYAH<br>PROPINSI                 | REGION<br>PROVINCE                  | PLTU                |                        |                                    |
|-----------|-------------------------------------|-------------------------------------|---------------------|------------------------|------------------------------------|
|           |                                     |                                     | MINYAK<br>STEAM OIL | BATUBARA<br>STEAM COAL | GAS ALAM<br>STEAM NATU-<br>RAL GAS |
|           |                                     |                                     | (liter/Kwh)         | (Kg/Kwh)               | (mscf/Kwh)                         |
| 1         | NANGGROE ACEH DARUSSALAM            | NANGGROE ACEH DARUSSALAM            |                     |                        |                                    |
| 2         | SUMATERA UTARA                      | NORTH SUMATERA                      |                     |                        |                                    |
| 3         | SUMATERA BARAT                      | WEST SUMATERA                       |                     |                        |                                    |
| 4         | R I A U                             | RIAU                                |                     |                        |                                    |
| 5         | SUMATERA SELATAN, JAMBI, & BENGKULU | SOUTH SUMATERA, JAMBI, & BENGKULU   |                     |                        |                                    |
| 6         | SUMATERA SELATAN                    | SOUTH SUMATERA                      |                     |                        |                                    |
| 7         | JAMBI                               | JAMBI                               |                     |                        |                                    |
| 8         | BENGKULU                            | BENGKULU                            |                     |                        |                                    |
| 9         | BANGKA BELITUNG                     | BANGKA BELITUNG                     |                     |                        |                                    |
| 10        | LAMPUNG                             | LAMPUNG                             |                     |                        |                                    |
| 11        | KALIMANTAN BARAT                    | WEST KALIMANTAN                     |                     |                        |                                    |
| 12        | KALIMANTAN SELATAN, & TENGAH        | SOUTH & CENTRE KALIMANTAN           |                     | 0,720                  |                                    |
| 13        | KALIMANTAN SELATAN                  | SOUTH KALIMANTAN                    |                     |                        |                                    |
| 14        | KALIMANTAN TENGAH                   | CENTRE KALIMANTAN                   |                     |                        |                                    |
| 15        | KALIMANTAN TIMUR                    | EAST KALIMANTAN                     |                     |                        |                                    |
| 16        | SULAWESI UTARA, TENGAH, & GORONTALO | NORTH, CENTRE SULAWESI, & GORONTALO |                     |                        |                                    |
| 17        | SULAWESI UTARA                      | NORTH SULAWESI                      |                     |                        |                                    |
| 18        | SULAWESI TENGAH                     | CENTRE SULAWESI                     |                     |                        |                                    |
| 19        | GORONTALO                           | GORONTALO                           |                     |                        |                                    |
| 20        | SULAWESI SELATAN, TENGGARA & BARAT  | SOUTH, & SOUTH EAST SULAWESI        | 0,411               |                        |                                    |
| 21        | SULAWESI SELATAN                    | SOUTH SULAWESI                      |                     |                        |                                    |
| 22        | SULAWESI TENGGARA                   | SOUTH EAST SULAWESI                 |                     |                        |                                    |
| 23        | SULAWESI BARAT                      | WEST SULAWESI                       |                     |                        |                                    |
| 24        | MALUKU, & MALUKU UTARA              | MALUKU, & NORTH MALUKU              |                     |                        |                                    |
| 25        | MALUKU                              | MALUKU                              |                     |                        |                                    |
| 26        | MALUKU UTARA                        | NORTH MALUKU                        |                     |                        |                                    |
| 27        | PAPUA                               | PAPUA                               |                     |                        |                                    |
| 28        | BALI                                | BALI                                |                     |                        |                                    |
| 29        | NUSA TENGGARA BARAT                 | WEST NUSA TENGGARA                  |                     |                        |                                    |
| 30        | NUSA TENGGARA TIMUR                 | EAST NUSA TENGGARA                  |                     |                        |                                    |
| 31        | PT PLN BATAM                        | PT PLN BATAM                        |                     |                        |                                    |
| 32        | PT PLN TARAKAN                      | PT PLN TARAKAN                      |                     |                        |                                    |
| 33        | Kit. SUMBAGUT                       | SUMBAGUT                            | 0,312               | 0,667                  | 0,012                              |
| 34        | Kit. SUMBAGSEL                      | SUMBAGSEL                           |                     | 0,513                  | 0,018                              |
|           | LUAR JAWA                           | OUT SIDE JAVA                       | 0,326               | 0,571                  | 0,016                              |
| 35        | JAWA TIMUR                          | EAST JAVA                           |                     |                        |                                    |
| 36        | JAWA TENGAH & YOGYAKARTA            | CENTRAL JAVA & YOGYAKARTA           |                     |                        |                                    |
| 37        | JAWA BARAT, & BANTEN                | WEST JAVA, & BANTEN                 |                     |                        |                                    |
| 38        | JAWA BARAT                          | WEST JAVA                           |                     |                        |                                    |
| 39        | BANTEN                              | BANTEN                              |                     |                        |                                    |
| 40        | DKI JAYA & TANGERANG                | DKI JAYA & TANGERANG                |                     |                        |                                    |
| 41        | PT INDONESIA POWER                  | PT. INDONESIA POWER                 | 0,311               | 0,514                  |                                    |
| 42        | PT PJB                              | PT. PJB                             | 0,271               | 0,526                  | 0,009                              |
| 43        | PEMBANGKITAN MUARA TAWAR            | PEMBANGKITAN MUARA TAWAR            |                     |                        |                                    |
| 44        | PEMBANGKITAN TANJUNG JATI B         | PEMBANGKITAN TANJUNG JATI B         |                     | 0,407                  |                                    |
| 45        | PEMBANGKITAN CILEGON                | PEMBANGKITAN CILEGON                |                     |                        |                                    |
|           | J A W A                             | JAVA                                | 0,281               | 0,490                  | 0,009                              |
|           | INDONESIA                           | INDONESIA                           | 0,272               | 0,508                  | 0,011                              |

| PLTG                      |                                    | PLTGU                           |                                   | PLTD                 |
|---------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------|
| MINYAK<br>Oil GAS TURBINE | GAS ALAM<br>NATURAL GAS<br>TURBINE | MINYAK<br>OIL<br>COMBINED CYCLE | GAS ALAM<br>Gas<br>COMBINED CYCLE | MINYAK<br>Oil DIESEL |
| (liter/Kwh)               | (mscf/Kwh)                         | (liter/Kwh)                     | (mscf/Kwh)                        | (liter/Kwh)          |
|                           |                                    |                                 |                                   | 0,278                |
|                           |                                    |                                 |                                   | 0,283                |
|                           |                                    |                                 |                                   | 0,282                |
|                           |                                    |                                 |                                   | 0,281                |
|                           |                                    |                                 |                                   | 0,283                |
|                           |                                    |                                 |                                   | -                    |
|                           |                                    |                                 |                                   | -                    |
|                           |                                    |                                 |                                   | -                    |
|                           |                                    |                                 |                                   | 0,264                |
|                           |                                    |                                 |                                   | 0,390                |
| 0,408                     |                                    |                                 |                                   | 0,264                |
| 0,479                     |                                    |                                 |                                   | 0,268                |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
| 0,324                     | 0,010                              | 0,250                           | 0,010                             | 0,273                |
|                           |                                    |                                 |                                   | 0,273                |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
| 0,416                     |                                    |                                 |                                   | 0,269                |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   | 0,291                |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   | 0,268                |
|                           |                                    |                                 |                                   | 0,285                |
|                           |                                    |                                 |                                   | 0,265                |
|                           |                                    |                                 |                                   | 0,293                |
|                           | 0,011                              |                                 |                                   | 0,249                |
|                           | 0,013                              |                                 |                                   | 0,211                |
| 0,378                     | 0,016                              | 0,235                           | 0,009                             | 0,248                |
| 0,469                     | 0,014                              |                                 |                                   | 0,259                |
| 0,409                     | 0,014                              | 0,236                           | 0,008                             | 0,270                |
|                           |                                    |                                 |                                   | 0,302                |
|                           |                                    |                                 |                                   | -                    |
|                           |                                    |                                 |                                   | 0,521                |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
| 0,371                     | 0,014                              | 0,242                           | 0,008                             | 0,276                |
|                           |                                    | 0,296                           | 0,008                             |                      |
| 0,336                     |                                    |                                 |                                   |                      |
|                           |                                    |                                 |                                   |                      |
|                           |                                    |                                 | 0,007                             |                      |
| 0,367                     | 0,011                              | 0,251                           | 0,008                             | 0,280                |
| 0,368                     | 0,015                              | 0,244                           | 0,008                             | 0,279                |



**TABEL 33**  
**LISTRIK PERDESAAN PLN DAN NON PLN PER PROPINSI 2009**  
*RURAL ELECTRIFICATION BY PROVINCE 2009*

| NO No. | PROPINSI                  | PROVINCE                  | JUMLAH RUMAH TANGGA 2009<br>NUMBER OF HOUSEHOLD 2009 | JUMLAH DESA 2009<br>NUMBER OF VILLAGE |
|--------|---------------------------|---------------------------|------------------------------------------------------|---------------------------------------|
| 1      | NANGGROE ACEH DARUS-SALAM | NANGGROE ACEH DARUS-SALAM | 972,8                                                | 6.424                                 |
| 2      | SUMATERA UTARA            | NORTH SUMATERA            | 2.981,9                                              | 5.774                                 |
| 3      | SUMATERA BARAT            | WEST SUMATERA             | 1.154,0                                              | 924                                   |
| 4      | RIAU & KEPRI              | RIAU                      | 1.416,5                                              | 1.973                                 |
| 5      | SUMATERA SELATAN          | SOUTH SUMATERA            | 1.688,2                                              | 3.075                                 |
| 6      | JAMBI                     | JAMBI                     | 690,4                                                | 1.342                                 |
| 7      | BENGKULU                  | BENGKULU                  | 408,8                                                | 1.351                                 |
| 8      | BANGKA BELITUNG           | BANGKA BELITUNG           | 280,6                                                | 342                                   |
| 9      | LAMPUNG                   | LAMPUNG                   | 1.837,5                                              | 2.339                                 |
| 10     | KALIMANTAN BARAT          | WEST KALIMANTAN           | 967,4                                                | 1.791                                 |
| 11     | KALIMANTAN SELATAN        | SOUTH KALIMANTAN          | 923,1                                                | 1.981                                 |
| 12     | KALIMANTAN TENGAH         | CENTRE KALIMANTAN         | 515,0                                                | 1.457                                 |
| 13     | KALIMANTAN TIMUR          | EAST KALIMANTAN           | 716,0                                                | 1.421                                 |
| 14     | SULAWESI UTARA            | NORTH SULAWESI            | 590,5                                                | 1.495                                 |
| 15     | GORONTALO                 | GORONTALO                 | 250,3                                                | 584                                   |
| 16     | SULAWESI TENGAH           | CENTRE SULAWESI           | 589,8                                                | 1.688                                 |
| 17     | SULAWESI TENGGARA         | SOUTH EAST SULAWESI       | 472,2                                                | 2.031                                 |
| 18     | SULAWESI SELATAN          | SOUTH SULAWESI            | 1.797,4                                              | 2.946                                 |
| 19     | SULAWESI BARAT            | WEST SULAWESI             | 238,1                                                | 542                                   |
| 20     | MALUKU                    | MALUKU                    | 288,5                                                | 906                                   |
| 21     | MALUKU UTARA              | NORTH MALUKU              | 207,9                                                | 1.036                                 |
| 22     | PAPUA dan IJB             | PAPUA                     | 672,4                                                | 4.660                                 |
| 23     | BALI                      | BALI                      | 901,9                                                | 707                                   |
| 24     | NUSA TENGGARA BARAT       | WEST NUSA TENGGARA        | 1.150,2                                              | 913                                   |
| 25     | NUSA TENGGARA TIMUR       | EAST NUSA TENGGARA        | 985,9                                                | 2.805                                 |
|        | LUAR JAWA                 | OUT SIDE JAVA             | 22.697                                               | 50.507                                |
| 26     | DKI JAKARTA               | DKI JAKARTA               | 3.589,6                                              | 267                                   |
| 27     | BANTEN                    | BANTEN                    | 1.036,1                                              | 1.504                                 |
| 28     | JAWA BARAT                | WEST JAVA                 | 10.847,9                                             | 5.871                                 |
| 29     | JAWA TENGAH               | CENTRAL JAVA              | 8.593,1                                              | 8.574                                 |
| 30     | DI Yogyakarta             | DI. YOGYAKARTA            | 1.047,2                                              | 438                                   |
| 31     | JAWA TIMUR                | EAST JAVA                 | 10.114,2                                             | 8.505                                 |
|        | J A W A                   | J A V A                   | 35.228                                               | 25.159                                |
|        | INDONESIA                 | INDONESIA                 | 57.926                                               | 75.666                                |

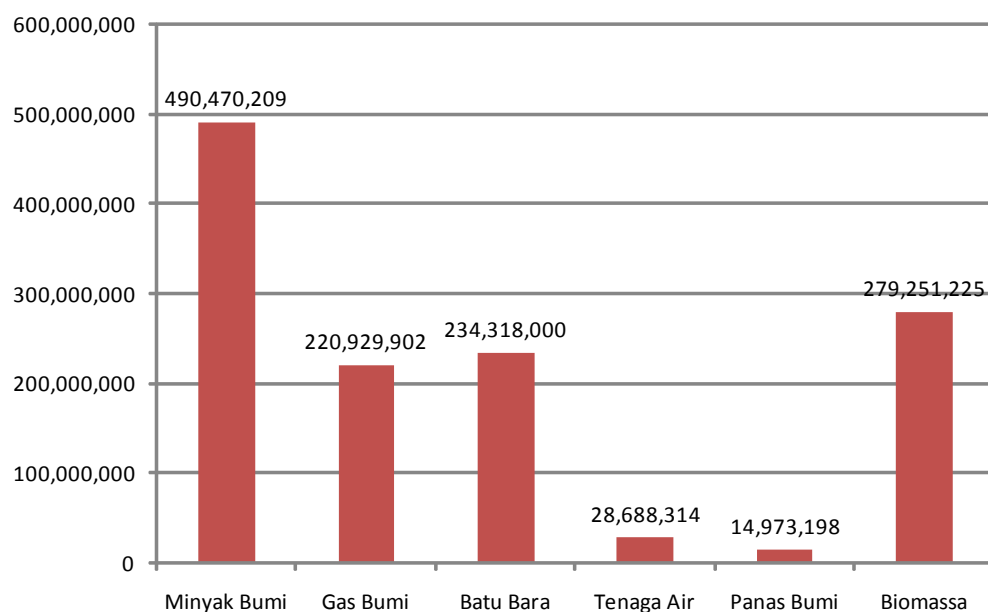
| JUMLAH DESA TERLISTRIKI<br>S/D DESEMBER 2009<br>UP TO DECEMBER 2009 |        |                       |
|---------------------------------------------------------------------|--------|-----------------------|
| DESA<br>VILLAGE                                                     | %      | PELANGGAN<br>CUSTOMER |
| 6.257                                                               | 97,40  | 882.848               |
| 5.394                                                               | 93,42  | 2.338.152             |
| 904                                                                 | 97,84  | 803.698               |
| 1.882                                                               | 95,39  | 804.366               |
| 2.958                                                               | 96,20  | 1.065.725             |
| 1.278                                                               | 95,23  | 283.706               |
| 1.301                                                               | 96,30  | 233.359               |
| 342                                                                 | 100,00 | 182.602               |
| 2.257                                                               | 96,49  | 981.753               |
| 1729                                                                | 96,54  | 536.445               |
| 1957                                                                | 98,79  | 634.834               |
| 1374                                                                | 94,30  | 263.852               |
| 1319                                                                | 92,82  | 481.341               |
| 1483                                                                | 99,20  | 379.580               |
| 573                                                                 | 98,12  | 112.219               |
| 1657                                                                | 98,16  | 312.929               |
| 1947                                                                | 95,86  | 217.866               |
| 2867                                                                | 97,32  | 1.231.235             |
| 518                                                                 | 95,57  | 87.263                |
| 829                                                                 | 91,50  | 200.388               |
| 981                                                                 | 94,69  | 121.645               |
| 1564                                                                | 33,56  | 219.222               |
| 707                                                                 | 100,00 | 664.830               |
| 905                                                                 | 99,12  | 373.689               |
| 2467                                                                | 87,95  | 281.325               |
| 45.450                                                              | 94     | 13.694.872            |
| 267                                                                 | 100,00 | 3.251.253             |
| 1499                                                                | 99,67  | 725.670               |
| 5866                                                                | 99,91  | 7.282.291             |
| 8574                                                                | 100,00 | 6.039.977             |
| 438                                                                 | 100,00 | 738.793               |
| 8416                                                                | 98,95  | 6.637.816             |
| 25.060                                                              | 99,76  | 24.675.800            |
| 70.510                                                              | 93,19  | 38.370.672            |

TABEL 34  
LISTRIK PERDESAAN PLN  
*PLN's RURAL ELECTRICITY*

| TAHUN<br>YEAR | JUMLAH<br>DESA<br>NUMBER OF<br>VILLAGES | JUMLAH<br>PELANGGAN<br>DESA<br>NUMBER OF<br>VILLAGES<br>COS-<br>TUMER | DESA TERLISTRIKI<br>VILLAGES ELECTRIFIED |       |
|---------------|-----------------------------------------|-----------------------------------------------------------------------|------------------------------------------|-------|
|               |                                         |                                                                       | JUMLAH<br>TOTAL                          | %     |
| 2003          | 62.937                                  | 29.997.554                                                            | 53.622                                   | 85,20 |
| 2004          | 63.093                                  | 31.095.970                                                            | 54.421                                   | 86,26 |
| 2005          | 63.093                                  | 32.174.485                                                            | 55.213                                   | 87,51 |
| 2006          | 71.555                                  | 33.118.324                                                            | 65.232                                   | 91,16 |
| 2007          | 71.555                                  | 35.629.804                                                            | 65.776                                   | 91,92 |
| 2008          | 71.555                                  | 36.081.116                                                            | 66.039                                   | 92,29 |
| 2009          | 75.666                                  | 57.688.900                                                            | 70.510                                   | 93,19 |

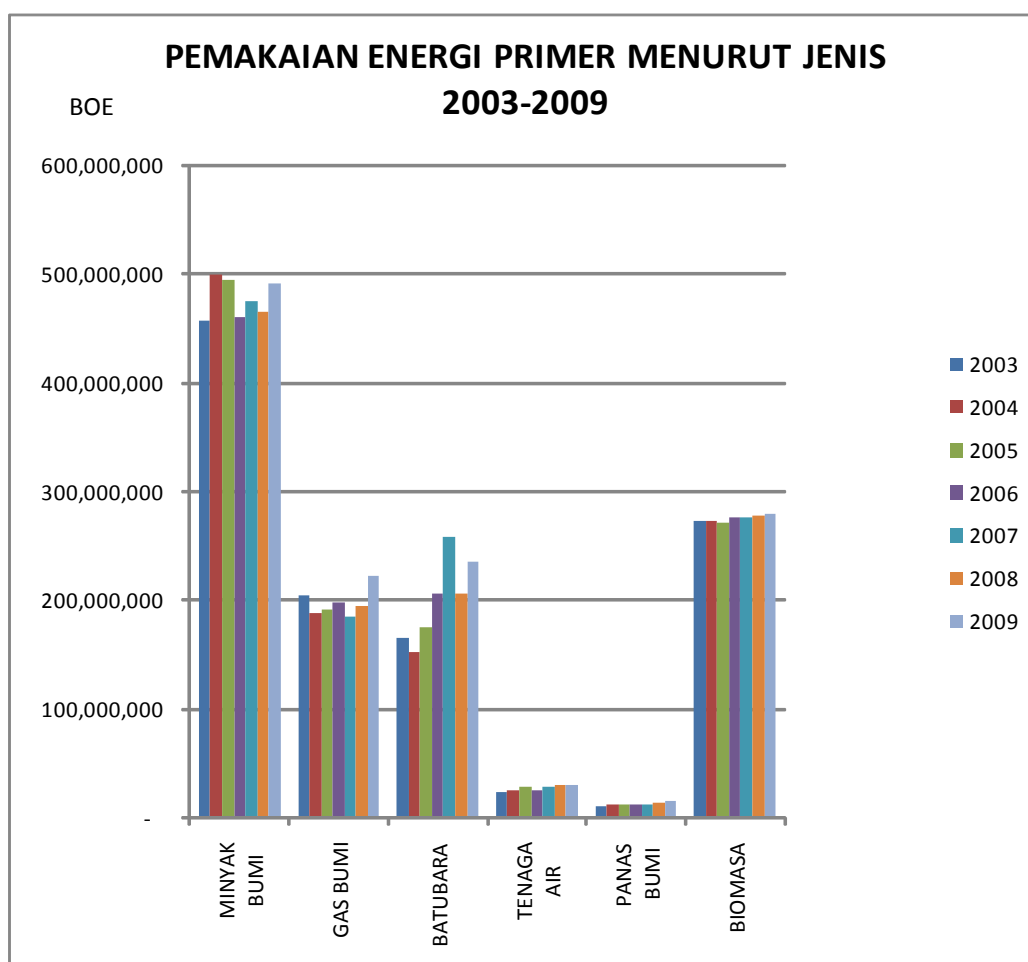
# ENERGI

### Pemakaian Energi Primer Menurut Jenis 2009



**TABEL 35**  
**PEMAKAIAN ENERGI PRIMER MENURUT JENIS**  
*PRIMARY ENERGY CONSUMPTION BY SOURCES*  
**(SBM/BOE)**

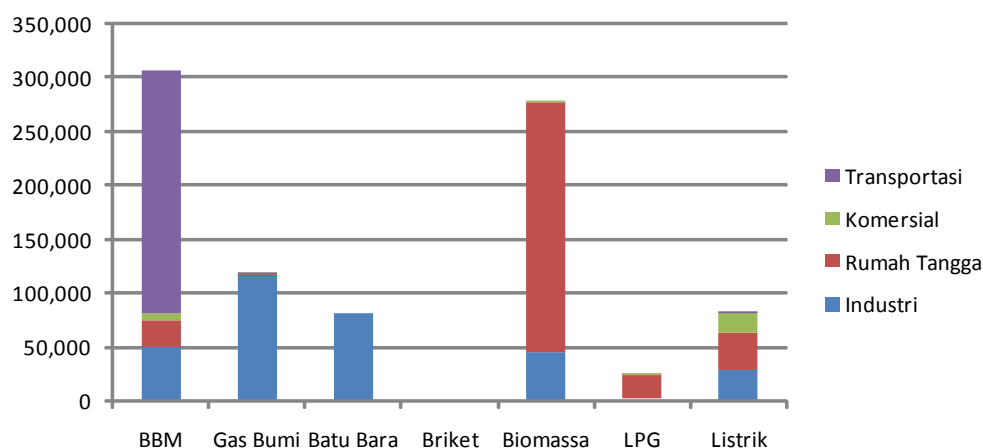
| TAHUN<br>YEAR | MINYAK BUMI<br>OIL | GAS BUMI<br>NATURAL<br>GAS | BATUBARA<br>COAL | TENAGA<br>AIR<br>HYDRO | PANAS<br>BUMI<br>GEOTHERMAL | BIOMASA<br>BIOMASS | JUMLAH<br>TOTAL |
|---------------|--------------------|----------------------------|------------------|------------------------|-----------------------------|--------------------|-----------------|
| 2003          | 456.647.707        | 204.142.054                | 164.950.173      | 22.937.538             | 10.375.200                  | 272.005.374        | 1.131.058.046   |
| 2004          | 498.117.696        | 187.553.776                | 151.543.284      | 24.385.647             | 11.077.000                  | 271.806.233        | 1.144.483.636   |
| 2005          | 493.636.985        | 191.189.376                | 173.673.093      | 27.034.841             | 10.910.460                  | 270.042.895        | 1.166.487.650   |
| 2006          | 459.333.373        | 196.599.386                | 205.779.290      | 24.256.796             | 11.182.742                  | 276.335.944        | 1.173.487.531   |
| 2007          | 474.042.813        | 183.623.636                | 258.174.000      | 28.450.964             | 11.421.759                  | 275.199.938        | 1.230.913.110   |
| 2008          | 463.913.946        | 193.352.098                | 205.492.060      | 29.060.413             | 13.423.610                  | 277.962.458        | 1.183.204.585   |
| 2009          | 490.470.209        | 220.929.902                | 234.318.000      | 28.688.314             | 14.973.198                  | 279.251.225        | 1.268.630.848   |



**TABEL 36**  
**KONSUMSI ENERGI FINAL MENURUT SUMBER DAN SEKTOR PEMAKAI 2009**  
*FINAL ENERGY CONSUMPTION BY SOURCE AND BY SECTOR 2009*  
**(RIBU SBM/THOUSAND B O E)**

| SUMBER<br>SOURCE        | SEKTOR PEMAKAIAN<br>CONSUMPTION BY SECTORS |         |                           |        |                         |        |                                |        | JUMLAH<br>TOTAL      |
|-------------------------|--------------------------------------------|---------|---------------------------|--------|-------------------------|--------|--------------------------------|--------|----------------------|
|                         | INDUSTRI<br>INDUSTRIAL                     |         | RUMAH TANGGA<br>HOUSEHOLD |        | KOMERSIAL<br>COMMERCIAL |        | TRANSPORTASI<br>TRANSPORTATION |        |                      |
| B B M<br>OIL            | 49.952,00<br>15,52%                        | 16,24%  | 24.255,00<br>7,71%        | 7,88%  | 6.990<br>23%            | 2,27%  | 226.454,00<br>99,95%           | 73,61% | 307.651,00<br>34,42% |
| GAS BUMI<br>NATURAL GAS | 117.535,00<br>36,51%                       | 99,23%  | 130,00<br>0,04%           | 0,11%  | 730<br>2.40%            | 0,62%  | 56,00<br>0,02%                 | 0,05%  | 118.451,00<br>13,25% |
| BATU BARA<br>COAL       | 80.466,00<br>24,99%                        | 100,00% | 0<br>0,00%                | 0,00%  | 0<br>0.00%              | 0,00%  | 0<br>0,00%                     | 0,00%  | 80.466,00<br>9,00%   |
| BRIKET<br>BRIQUETTE     | 219,00<br>0,07%                            | 100,00% | 0<br>0,00%                | 0,00%  | 0<br>0.00%              | 0,00%  | 0<br>0,00%                     | 0,00%  | 219,00<br>0,02%      |
| BIOMASA<br>BIOMASS      | 44.496,00<br>13,82%                        | 15,94%  | 233.261<br>74,11%         | 83,56% | 1.395<br>4,58%          | 0,50%  | 0<br>0,00%                     | 0,00%  | 279.152,00<br>31,23% |
| L P G<br>L P G          | 955,00<br>0,30%                            | 3,78%   | 23.433,00<br>7,44%        | 92,77% | 871<br>2,86%            | 3,45%  | 0<br>0,00%                     | 0,00%  | 25.259,00<br>2,83%   |
| LISTRIK<br>ELECTRICITY  | 28.323,00<br>8,80%                         | 34,30%  | 33.682,00<br>10,70%       | 40,79% | 20.494<br>67,24%        | 24,82% | 68,00<br>0,03%                 | 0,00%  | 82.567,00<br>9,24%   |
| JUMLAH<br>TOTAL         | 321.946,00<br>100%                         | 36,02%  | 314.761,00<br>100%        | 35,22% | 30.480<br>100%          | 3,41%  | 226.578,00<br>100%             | 25,35% | 893.765,00<br>100%   |

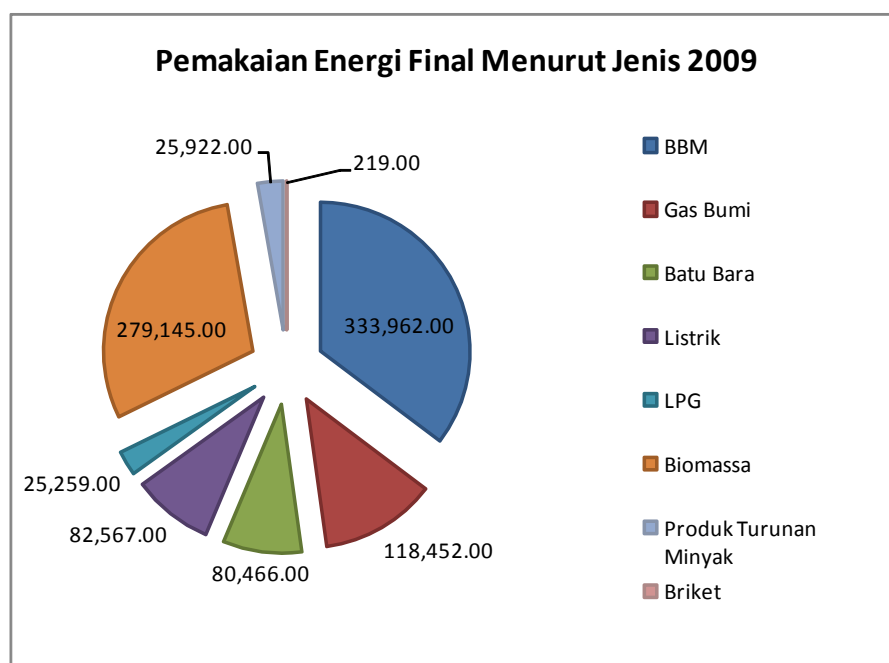
**KONSUMSI ENERGI FINAL MENURUT SUMBER  
DAN SEKTOR PEMAKAI 2009**





**TABEL 37**  
**PEMAKAIAN ENERGI FINAL MENURUT JENIS**  
*FINAL ENERGY CONSUMPTION BY TYPE*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | BBM<br>OIL | GAS BUMI<br>NATURAL<br>GAS | BATUBARA<br>COAL | LISTRIK<br>ELECTRICITY | LPG<br>LPG | BIOMASA<br>BIOMASS | Produk Turunan<br>Minyak<br>Other Petroleum<br>Product | BRIKET<br>BRIQUETTE | JUMLAH<br>TOTAL |
|---------------|------------|----------------------------|------------------|------------------------|------------|--------------------|--------------------------------------------------------|---------------------|-----------------|
| 2001          | 328.203    | 82.235                     | 37.021           | 51.841                 | 8.280      | 268.953            | 25.712                                                 | 78                  | 802.323         |
| 2002          | 325.202    | 80.885                     | 38.698           | 53.418                 | 8.744      | 270.207            | 22.688                                                 | 83                  | 799.925         |
| 2003          | 321.384    | 90.277                     | 68.264           | 55.473                 | 8.766      | 271.974            | 23.533                                                 | 77                  | 839.748         |
| 2004          | 354.317    | 85.459                     | 55.344           | 61.393                 | 9.187      | 271.765            | 37.716                                                 | 80                  | 875.261         |
| 2005          | 338.375    | 86.634                     | 65.744           | 65.644                 | 8.453      | 270.043            | 29.614                                                 | 94                  | 864.601         |
| 2006          | 311.913    | 83.221                     | 89.043           | 69.071                 | 9.414      | 276.271            | 40.922                                                 | 94                  | 879.949         |
| 2007          | 314.248    | 80.178                     | 121.904          | 74.376                 | 10.925     | 275.126            | 39.873                                                 | 89                  | 916.719         |
| 2008          | 312.190    | 85.311                     | 74.939           | 79.138                 | 15.718     | 277.874            | 16.658                                                 | 155                 | 861.983         |
| 2009          | 333.962    | 118.452                    | 80.466           | 82.567                 | 25.259     | 279.145            | 25.922                                                 | 219                 | 945.992         |

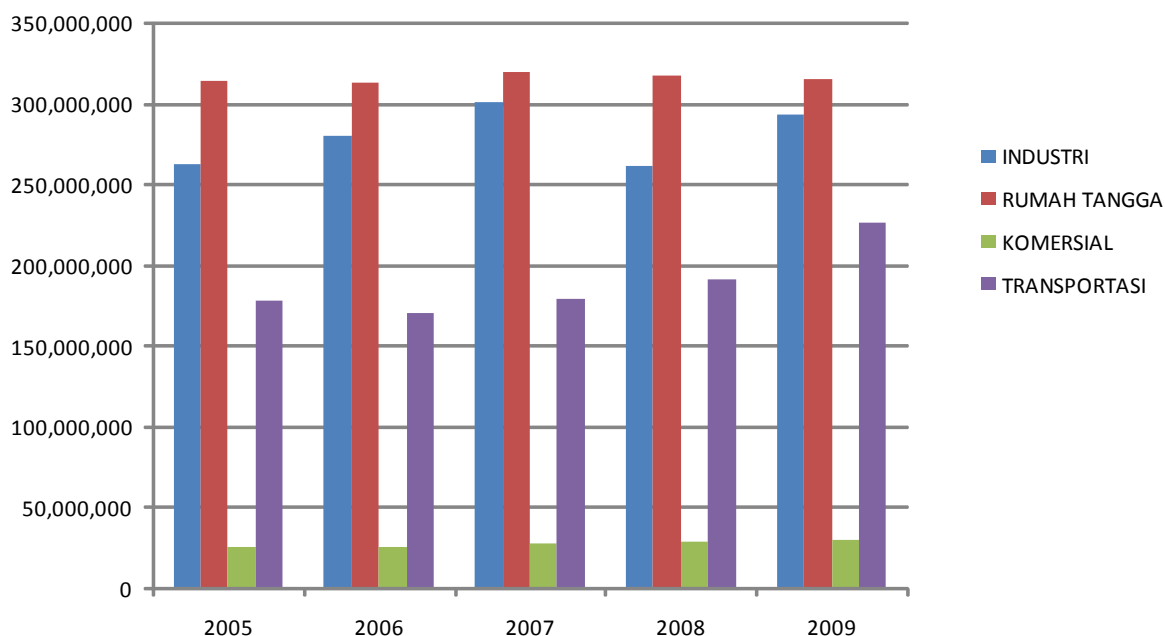


**TABEL 38**  
**PEMAKAIAN ENERGI FINAL MENURUT SEKTOR**  
*FINAL ENERGY CONSUMPTION BY SECTOR*  
**(SBM/BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUSTRIAL | RUMAH TANGGA<br>HOUSEHOLD | KOMERSIAL<br>COMMERCIAL | TRANSPORTASI<br>TRANSPORTATION | LAIN-LAIN<br>OTHERS | JUMLAH<br>TOTAL |
|---------------|------------------------|---------------------------|-------------------------|--------------------------------|---------------------|-----------------|
| 2001          | 252.158.714            | 301.347.223               | 21.449.843              | 148.259.584                    | 30.585.607          | 753.800.971     |
| 2002          | 245.108.900            | 303.032.794               | 21.752.300              | 151.498.823                    | 29.998.546          | 751.391.363     |
| 2003          | 275.308.517            | 309.046.165               | 22.397.122              | 156.232.909                    | 28.445.436          | 791.430.149     |
| 2004          | 263.294.377            | 314.114.684               | 25.412.327              | 178.374.391                    | 31.689.809          | 812.885.588     |
| 2005          | 262.687.070            | 313.772.025               | 26.234.764              | 178.452.407                    | 29.102.166          | 810.248.432     |
| 2006          | 280.187.757            | 312.715.871               | 26.194.683              | 170.127.492                    | 25.936.873          | 815.162.676     |
| 2007          | 300.675.120            | 319.333.000               | 27.896.499              | 179.135.822                    | 24.912.051          | 851.952.492     |
| 2008          | 261.639.892            | 316.802.417               | 29.009.688              | 191.256.615                    | 24.842.951          | 823.551.563     |
| 2009          | 293.512.887            | 314.759.457               | 30.473.181              | 226.578.475                    | 26.311.219          | 891.635.219     |

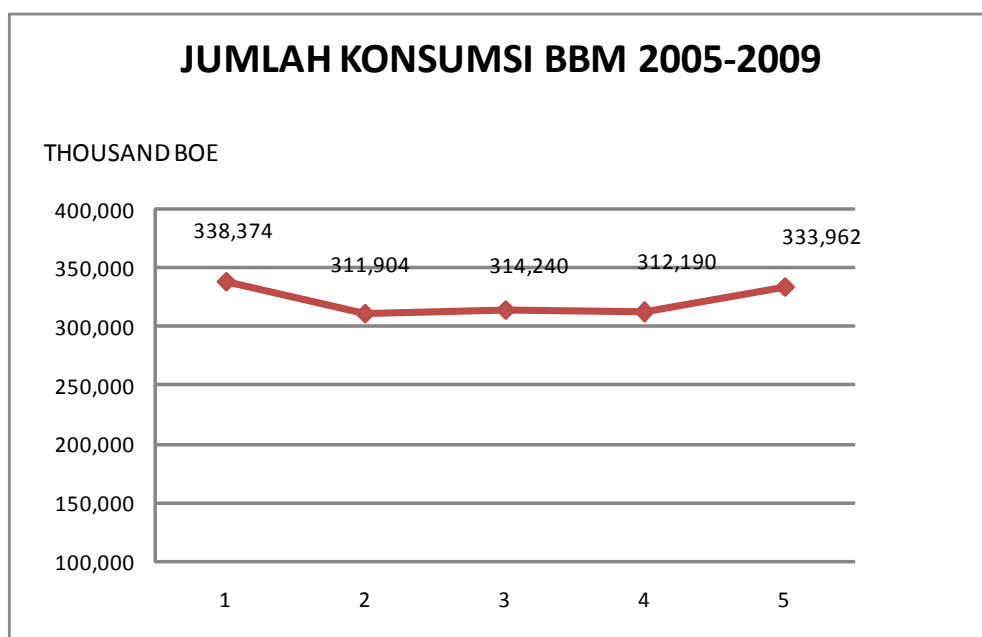
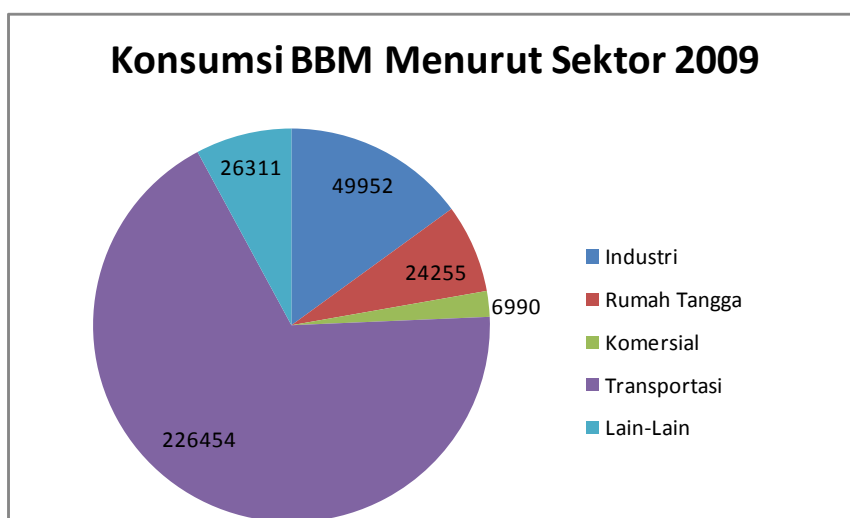
### Pemakaian Energi Final Menurut Sektor 2005-2009

BOE



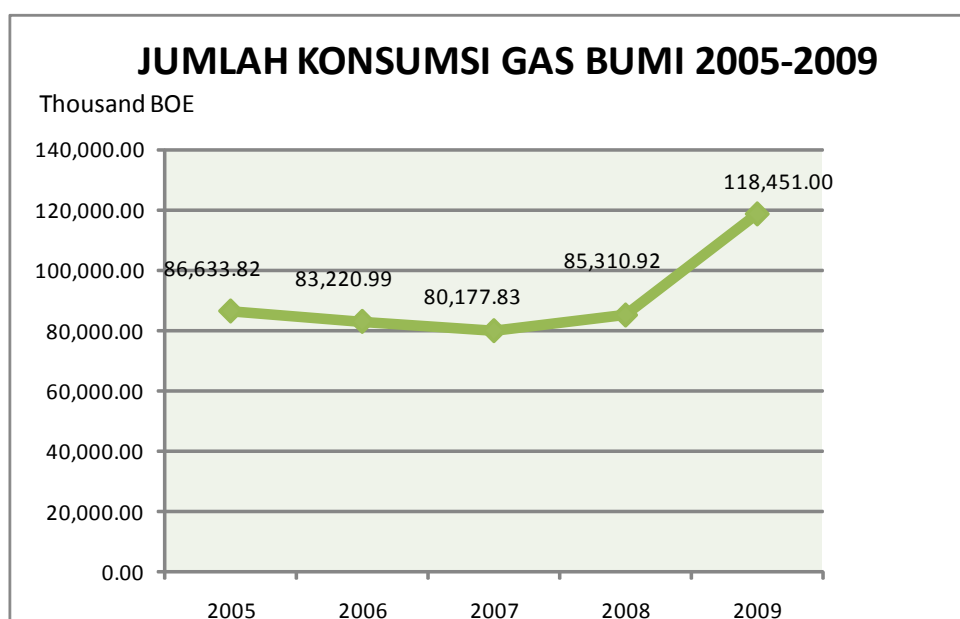
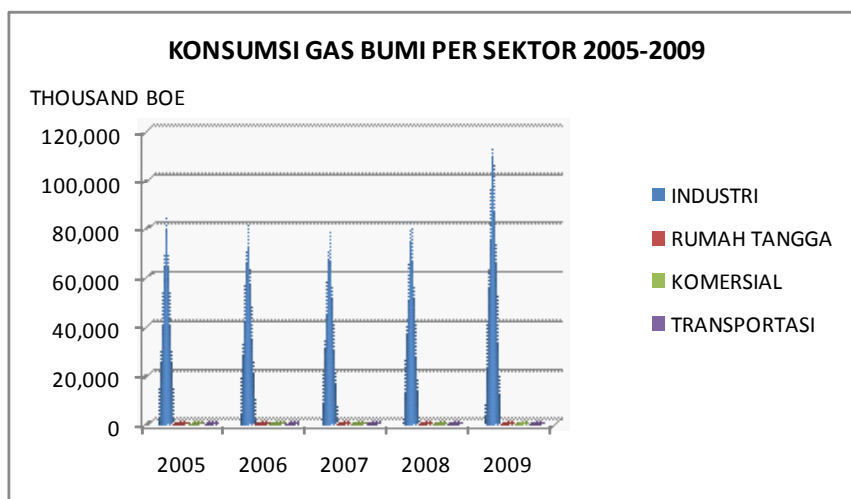
**TABEL 39**  
**KONSUMSI BBM PER SEKTOR**  
*OIL CONSUMPTION BY SECTOR*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUS-<br>TRIAL | %     | RUMAH<br>TANGGA<br>HOUSE-<br>HOLD | %     | KOMERSIAL<br>COMMER-<br>CIAL | %    | TRANSPORTASI<br>TRANSPORTA-<br>TION | %     | LAIN-<br>LAIN<br>OTHERS | %    | JUMLAH<br>TOTAL |
|---------------|-----------------------------|-------|-----------------------------------|-------|------------------------------|------|-------------------------------------|-------|-------------------------|------|-----------------|
| 2001          | 78.033                      | 23,78 | 62.329                            | 18,99 | 9.165                        | 2,79 | 148.091                             | 45,12 | 30.586                  | 9,32 | 328.204         |
| 2002          | 75.690                      | 23,27 | 59.261                            | 18,22 | 8.903                        | 2,74 | 151.349                             | 46,54 | 29.999                  | 9,22 | 325.202         |
| 2003          | 68.493                      | 21,31 | 59.640                            | 18,56 | 8.712                        | 2,71 | 156.093                             | 48,57 | 28.445                  | 8,85 | 321.383         |
| 2004          | 74.718                      | 21,09 | 60.112                            | 16,97 | 9.540                        | 2,69 | 178.256                             | 50,31 | 31.690                  | 8,94 | 354.317         |
| 2005          | 64.239                      | 18,98 | 57.696                            | 17,05 | 8.961                        | 2,65 | 178.376                             | 52,72 | 29.102                  | 8,60 | 338.374         |
| 2006          | 57.203                      | 18,34 | 50.862                            | 16,31 | 7.866                        | 2,52 | 170.036                             | 54,52 | 25.937                  | 8,32 | 311.904         |
| 2007          | 52.418                      | 16,68 | 50.229                            | 15,98 | 7.646                        | 2,43 | 179.035                             | 56,97 | 24.912                  | 7,93 | 314.240         |
| 2008          | 48.856                      | 15,65 | 40.096                            | 12,84 | 7.312                        | 2,34 | 191.083                             | 61,21 | 24.843                  | 7,96 | 312.190         |
| 2009          | 49.952                      | 14,96 | 24.255                            | 7,26  | 6.990                        | 2,09 | 226.454                             | 67,81 | 26.311                  | 7,88 | 333.962         |



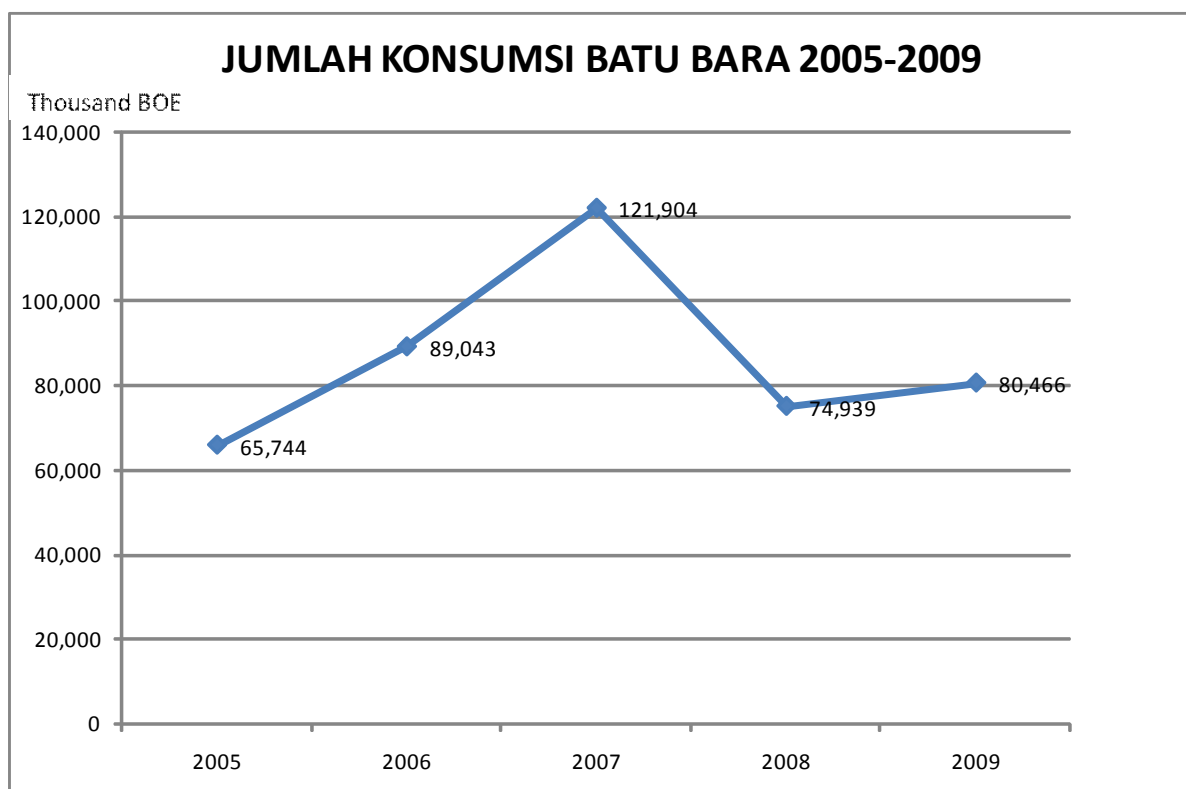
**TABEL 40**  
**KONSUMSI GAS BUMI PER SEKTOR**  
*NATURAL GAS CONSUMPTION BY SECTOR*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUSTRIAL | %     | RUMAH<br>TANGGA<br>HOUSEHOLD | %    | KOMERSIAL<br>COMMERCIAL | %    | TRANSPORTASI<br>TRANSPORTATION | %    | JUMLAH<br>TOTAL |
|---------------|------------------------|-------|------------------------------|------|-------------------------|------|--------------------------------|------|-----------------|
| 2001          | 81.861                 | 99,55 | 87                           | 0,11 | 147                     | 0,74 | 139                            | 0,17 | 82.234,6        |
| 2002          | 80.508                 | 99,53 | 96                           | 0,12 | 164                     | 0,81 | 118                            | 0,15 | 80.885,3        |
| 2003          | 89.912                 | 98,64 | 99                           | 1,19 | 158                     | 0,76 | 108                            | 0,17 | 90.276,5        |
| 2004          | 85.076                 | 98,58 | 124                          | 1,24 | 174                     | 0,73 | 85                             | 0,17 | 85.458,2        |
| 2005          | 86.277                 | 99,59 | 124                          | 0,14 | 190                     | 0,77 | 43                             | 0,05 | 86.633,8        |
| 2006          | 82.845                 | 99,75 | 128                          | 0,15 | 206                     | 0,83 | 42                             | 0,11 | 83.221,0        |
| 2007          | 79.723                 | 99,43 | 132                          | 0,17 | 274                     | 0,34 | 49                             | 0,06 | 80.177,8        |
| 2008          | 84.699                 | 99,28 | 131                          | 0,15 | 357                     | 0,42 | 124                            | 0,15 | 85.310,9        |
| 2009          | 117.535                | 99,23 | 130                          | 0,11 | 730                     | 0,62 | 56                             | 0,05 | 118.451,0       |



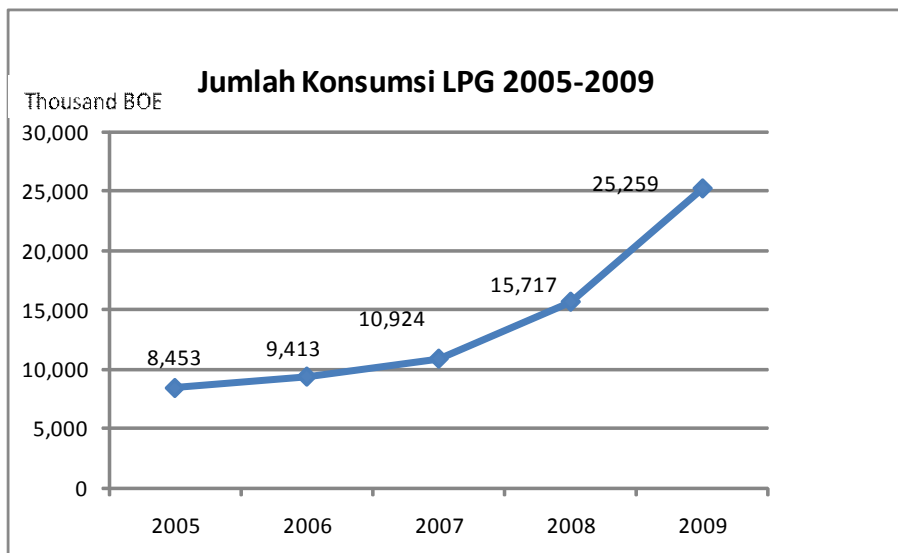
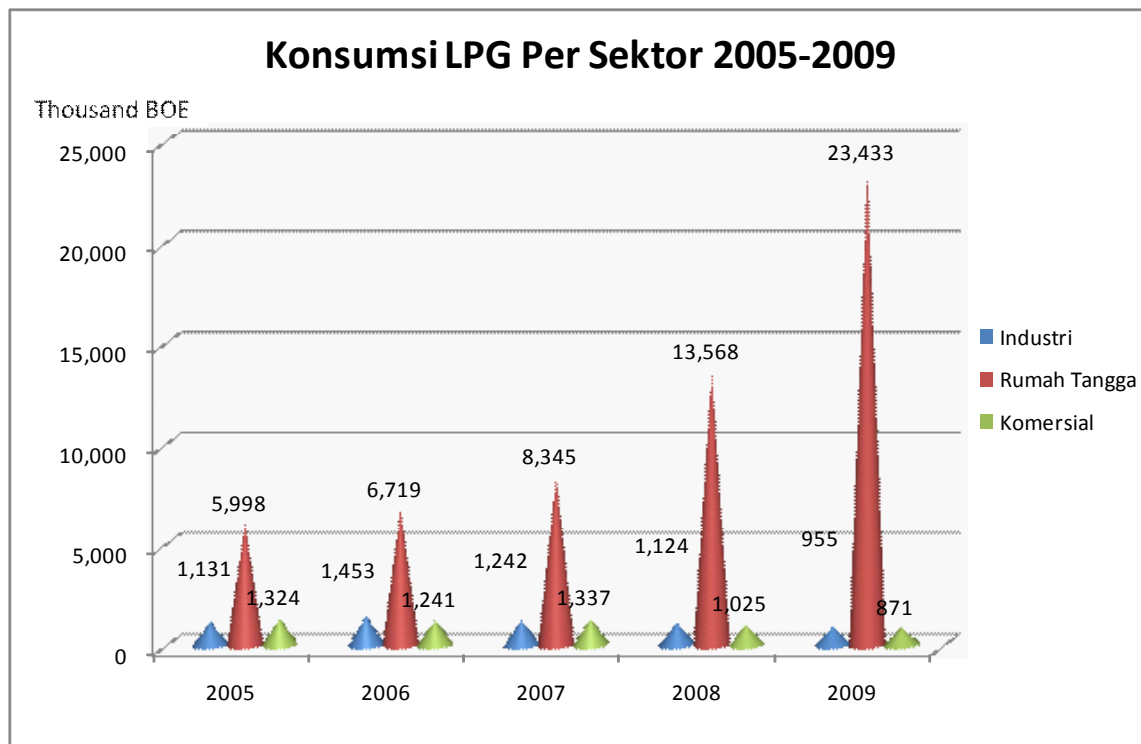
**TABEL 41**  
**KONSUMSI BATUBARA PER SEKTOR**  
*COAL CONSUMPTION BY SECTOR*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUSTRIAL | % | RUMAH TANGGA<br>HOUSEHOLD | % | TRANSPORTASI<br>TRANSPORTATION | % | JUMLAH<br>TOTAL |         |
|---------------|------------------------|---|---------------------------|---|--------------------------------|---|-----------------|---------|
| 2001          | 37.021                 |   | 100                       | 0 | 0                              | 0 | 0               | 37.021  |
| 2002          | 38.698                 |   | 100                       | 0 | 0                              | 0 | 0               | 38.698  |
| 2003          | 68.264                 |   | 100                       | 0 | 0                              | 0 | 0               | 68.264  |
| 2004          | 55.344                 |   | 100                       | 0 | 0                              | 0 | 0               | 55.344  |
| 2005          | 65.744                 |   | 100                       | 0 | 0                              | 0 | 0               | 65.744  |
| 2006          | 89.043                 |   | 100                       | 0 | 0                              | 0 | 0               | 89.043  |
| 2007          | 121.904                |   | 100                       | 0 | 0                              | 0 | 0               | 121.904 |
| 2008          | 74.939                 |   | 100                       | 0 | 0                              | 0 | 0               | 74.939  |
| 2009          | 80.466                 |   | 100                       | 0 | 0                              | 0 | 0               |         |



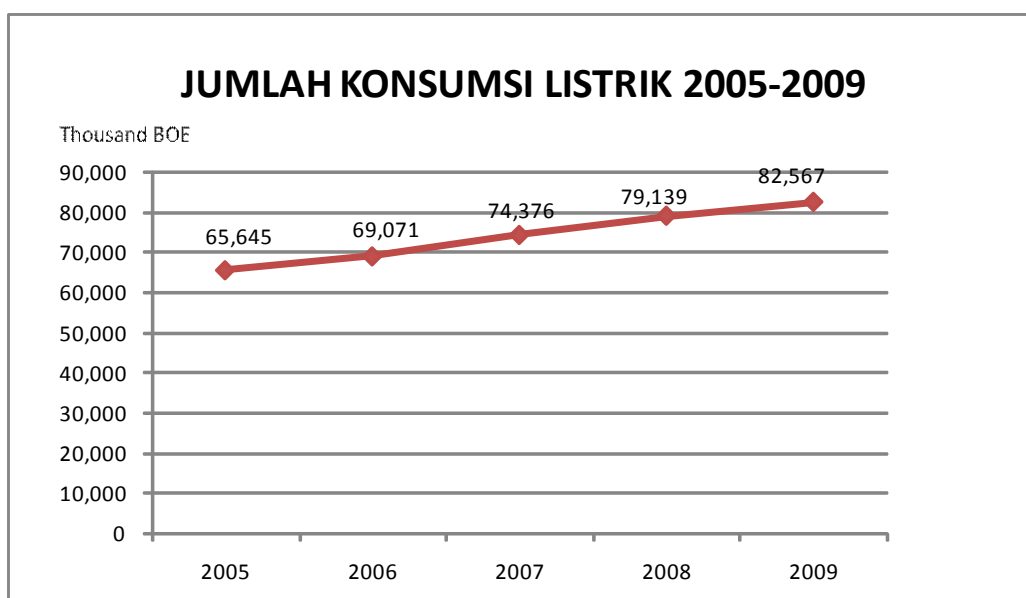
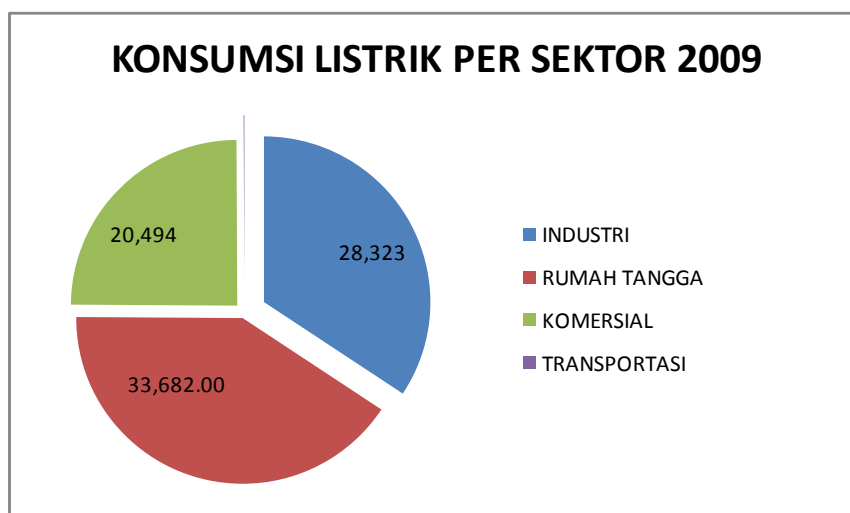
**TABEL 42**  
**KONSUMSI LPG PER SEKTOR**  
*LPG CONSUMPTION BY SECTOR*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUSTRIAL | %     | RUMAH<br>TANGGA<br>HOUSEHOLD | %     | KOMERSIAL<br>COMMERCIAL | %     | TRANSPORTASI<br>TRANSPORTATION | %    | JUMLAH<br>TOTAL |
|---------------|------------------------|-------|------------------------------|-------|-------------------------|-------|--------------------------------|------|-----------------|
| 2001          | 972                    | 11,74 | 6.170                        | 74,52 | 1.138                   | 13,74 | 0                              | 0,00 | 8.280           |
| 2002          | 1.093                  | 12,50 | 6.373                        | 72,88 | 1.279                   | 14,63 | 0                              | 0,00 | 8.745           |
| 2003          | 808                    | 9,22  | 7.013                        | 79,99 | 946                     | 10,79 | 0                              | 0,01 | 8.767           |
| 2004          | 1.101                  | 11,98 | 6.798                        | 74,00 | 1.288                   | 14,02 | 0                              | 0,00 | 9.187           |
| 2005          | 1.131                  | 13,38 | 5.998                        | 70,96 | 1.324                   | 15,66 | 0                              | 0,00 | 8.453           |
| 2006          | 1.453                  | 15,44 | 6.719                        | 71,38 | 1.241                   | 13,18 | 0                              | 0,00 | 9.413           |
| 2007          | 1.242                  | 11,37 | 8.345                        | 76,39 | 1.337                   | 12,24 | 0                              | 0,00 | 10.924          |
| 2008          | 1.124                  | 7,15  | 13.568                       | 86,33 | 1.025                   | 6,52  | 0                              | 0,00 | 15.717          |
| 2009          | 955                    | 3,78  | 23.433                       | 92,77 | 871                     | 3,45  | 0                              | 0,00 | 25.259          |



**TABEL 4.3**  
**KONSUMSI LISTRIK PER SEKTOR**  
*ELECTRICITY CONSUMPTION BY SECTOR*  
**(RIBU SBM/THOUSAND BOE)**

| TAHUN<br>YEAR | INDUSTRI<br>INDUSTRIAL | %     | RUMAH TANGGA<br>HOUSEHOLD | %     | KOMERSIAL<br>COMMERCIAL | %     | TRANSPORTASI<br>TRANSPORTATION | %    | JUMLAH<br>TOTAL |
|---------------|------------------------|-------|---------------------------|-------|-------------------------|-------|--------------------------------|------|-----------------|
| 2001          | 21.819                 | 42,09 | 20.437,00                 | 39,42 | 9.555                   | 18,43 | 30                             | 0,06 | 51.841          |
| 2002          | 22.578                 | 42,27 | 20.838,00                 | 39,01 | 9.970                   | 18,66 | 33                             | 0,06 | 53.419          |
| 2003          | 22.373                 | 40,33 | 21.917,00                 | 39,51 | 11.151                  | 20,10 | 33                             | 0,06 | 55.474          |
| 2004          | 24.719                 | 40,26 | 23.655,00                 | 38,53 | 12.986                  | 21,15 | 34                             | 0,06 | 61.394          |
| 2005          | 26.021                 | 39,64 | 25.246,00                 | 38,46 | 14.344                  | 21,85 | 34                             | 0,05 | 65.645          |
| 2006          | 26.736                 | 38,71 | 26.821,00                 | 38,83 | 15.473                  | 22,40 | 41                             | 0,06 | 69.071          |
| 2007          | 28.077                 | 37,75 | 29.010,00                 | 39,00 | 17.237                  | 23,18 | 52                             | 0,07 | 74.376          |
| 2008          | 29.405                 | 37,16 | 30.763,00                 | 38,87 | 18.921                  | 23,91 | 50                             | 0,06 | 79.139          |
| 2009          | 28.323                 | 34,30 | 33.682,00                 | 40,79 | 20.494                  | 24,82 | 68                             | 0,08 | 82.567          |



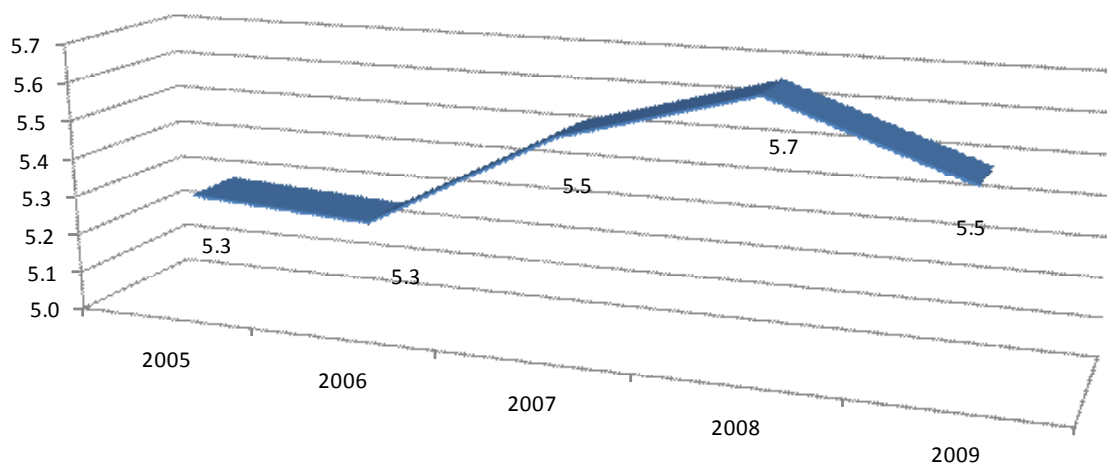


**TABEL 44**  
**KONSUMSI ENERGI PERKAPITA**  
**PER CAPITA ENERGY CONSUMPTION**  
**(SBM/BOE)**

| TAHUN<br>YEAR | JUMLAH<br>PENDUDUK<br>NUMBER OF<br>POPULATION | KONSUMSI ENERGI<br>ENERGY CONSUMPTION | KONSUMSI ENERGI<br>PER KAPITA<br>ENERGY CONSUMPTION<br>PER CAPITA |
|---------------|-----------------------------------------------|---------------------------------------|-------------------------------------------------------------------|
| 2001          | 208.900.600                                   | 1.041.252.219                         | 5,0                                                               |
| 2002          | 212.003.500                                   | 1.070.035.892                         | 5,0                                                               |
| 2003          | 215.152.383                                   | 1.131.058.046                         | 5,3                                                               |
| 2004          | 217.854.100                                   | 1.144.483.636                         | 5,3                                                               |
| 2005          | 220.553.066                                   | 1.166.487.650                         | 5,3                                                               |
| 2006          | 223.013.776                                   | 1.173.487.531                         | 5,3                                                               |
| 2007          | 223.013.776                                   | 1.230.913.110                         | 5,5                                                               |
| 2008          | 228.523.300                                   | 1.292.344.517                         | 5,7                                                               |
| 2009          | 231.369.500                                   | 1.268.630.848                         | 5,5                                                               |

### KONSUMSI ENERGI PER KAPITA 2005-2008

BOE/POPULATION



## DAFTAR PENJELASAN

**SARANA TRANSMISI**

Transmisi TET (kms) / EHVTL: Panjang jaringan Transmisi Tegangan Extra Tinggi (500 kV) / Extra High Voltage (kmc) Transmission Lines

Transmisi TT (kms) / HVTL : Penjumlahan panjang jaringan (kms) Transmisi Tegangan Tinggi (25 s.d 150 kV) / High (kmc) Voltage Transmission Lines

**SARANA DISTRIBUSI**

JTM (kms) : Penjumlahan panjang Jaringan Transmisi Tegangan Menengah (6 s.d 20 kV)

JTR (kms) : Panjang Jaringan Transmisi Tegangan Rendah (< 6 kV)

**KELOMPOK PELANGGAN**

Industri : Penjumlahan golongan tarif I-1, I-2, I-3, dan I-4

Rumah Tangga : Penjumlahan golongan tarif S-1, R-1, R-2, dan R-3

Usaha/Bisnis : Penjumlahan golongan tarif B-1, B-2, B-3, T, C, dan tarif Multiguna

Lain-Lain/Umum : Penjumlahan golongan tarif S-2, S-3, P-1, P-2, dan P-3  
(I=Industri, S-2, S-3=Sosial, R=Rumah Tangga, B=Bisnis, T=Traksi, C=Curah, P-1, P-2=Gd. Kantor Pemerintah, P-3=Penerangan Jalan Umum dan Multiguna= Tarif yang diperuntukan hanya bagi pengguna listrik yang memerlukan pelayanan dengan kualitas khusus yang tidak termasuk dalam golongan tarif S, R, B, I, P, T, dan C).

Rasio Elektrifikasi :  $\frac{\text{Jumlah Pelanggan Rumah Tangga}}{\text{Total Rumah Tangga}}$

Konsumsi Tenaga

Listrik per Kapita :  $\frac{\text{Jumlah Penjualan Tenaga Listrik}}{\text{Jumlah Penduduk}}$

Konsumsi Tenaga

Listrik per Pelanggan :  $\frac{\text{Jumlah Penjualan Tenaga Listrik}}{\text{Jumlah Pelanggan}}$

**JENIS TEGANGAN**

Tegangan Rendah : Penjumlahan golongan tarif S-1, S-2, R-1, R-2, R-3, B-1, B-2, I-1, I-2, P-1, dan P-3

Tegangan Menengah : Penjumlahan golongan tarif S-3, B-3, I-3, P-2, T, dan C

Tegangan Tinggi : Golongan tarif I-4

## SINGKATAN

|        |   |                                                                                                              |
|--------|---|--------------------------------------------------------------------------------------------------------------|
| PLTA   | : | Pusat Listrik Tenaga Air                                                                                     |
| PLTU   | : | Pusat Listrik Tenaga Uap                                                                                     |
| PLTG   | : | Pusat Listrik Tenaga Gas                                                                                     |
| PLTGU  | : | Pusat Listrik Tenaga Gas & Uap                                                                               |
| PLTD   | : | Pusat Listrik Tenaga Diesel                                                                                  |
| PLTM-G | : | Pusat Listrik Tenaga Mesin-Gas                                                                               |
| PLTP   | : | Pusat Listrik Tenaga Panas Bumi                                                                              |
| VA     | : | volt-ampere                                                                                                  |
| MVA    | : | mega-volt-ampere                                                                                             |
| kW     | : | kilowatt                                                                                                     |
| MW     | : | megawatt                                                                                                     |
| kWh    | : | kilowatt-hour                                                                                                |
| MWh    | : | megawatt-hour                                                                                                |
| GWh    | : | gigawatt-hour                                                                                                |
| kms    | : | kilometer-sirkuit                                                                                            |
| SCF    | : | Standard Cubic Foot (M=103)                                                                                  |
| MSCF   | : | 103 Standard Cubic Foot (M=103)                                                                              |
| MMSCF  | : | 106 Standard Cubic Foot (MM=106)                                                                             |
| BTU    | : | British Thermal Unit (MM=1 06)                                                                               |
| MMBTU  | : | 106 British Thermal Unit (MM=1 06)                                                                           |
| JOULE  | : | Dalam sistem Standar Internasional (SI) satuan energi adalah Joule (J) dan satuan massa adalah kilogram (kg) |
| KCAL   | : | kilo kalori                                                                                                  |
| BOE    | : | Barrel Oil of Equivalent                                                                                     |
| TCE    | : | Trichloroethylene                                                                                            |
| HSD    | : | High Speed Diesel Oil                                                                                        |
| IDO    | : | Intermediate Diesel Oil                                                                                      |
| MFO    | : | Marine Fuel Oil                                                                                              |
| PJU    | : | Penerangan Jalan Umum                                                                                        |
| PJB    | : | Pembangkitan Tenaga Listrik Jawa - Bali                                                                      |
| P3B    | : | Penyaluran dan Pusat Pengatur Beban                                                                          |
| n.a    | : | not available                                                                                                |

### British Thermal Unit (BTU) :

adalah jumlah panas yang diperlukan untuk menaikkan 1 pound air 1 derajat Fahrenheit pada temperatur 60 derajat Fahrenheit, pada tekanan absolut 14,7 pound per square inch.

### Standard Cubic Foot (SCF) :

adalah sejumlah gas yang diperlukan untuk mengisi ruangan 1 Cubic Foot, dengan tekanan sebesar 14,7 pounds per square inch absolut dan pada temperatur 60 derajat Fahrenheit, dalam kondisi kering.

### 1000 BTU Gas :

adalah gas mempunyai Gross Heating Value sebesar 1000 BTU per SCF.

### Gross Heating Value :

adalah jumlah panas yang dinyatakan dalam satuan BTU yang dihasilkan oleh pembakaran sempurna dari satu Standart Cubic Foot Gas, pada temperatur 60 derajat Fahrenheit dan tekanan absolut 14,7 pounds per square inch, dengan udara pada temperatur dan tekanan yang sama dengan gas tersebut, dan setelah pendinginan hasil pembakaran pada tingkat temperatur permulaan gas dan udara, uap air yang terbentuk dalam proses pembakaran itu terkondensasikan ke dalam bentuk cair.

Klasifikasi tegangan listrik menurut SPLN No.1 yang berjudul Tegangan Tegangan Standar, yaitu :

### Tegangan Rendah :

Tegangan rendah adalah tegangan sistem antara 100 VAC sampai 1 kVAC.

**Tegangan menengah :**

Tegangan menengah adalah tegangan sistem di atas 1 kVAC sampai 35 kVAC.

**Tegangan tinggi :**

Tegangan tinggi adalah tegangan sistem diatas 35 kVAC sampai dengan 245 kVAC.

**Tegangan ekstra tinggi :**

Tegangan ekstra tinggi adalah tegangan sistem di atas 245 kVAC.

Klasifikasi tegangan listrik menurut SNI (PUIL 2000) SNI dikeluarkan oleh BSN, sedangkan PUIL diterbitkan oleh yayasan PUIL. SNI 04-0225-2000 adalah PUIL (Persyaratan Umum Instalasi Listrik) terbitan tahun 2000 yang ditetapkan menjadi Standar Nasional Indonesia. PUIL menggunakan standar IEC (International Electrotechnical Commission) yaitu IEC 60364 sebagai acuan utamanya, selain itu (menurut prakata dari panitia revisi PUIL) juga mengacu pada NEC, SAA, VDE.

Definisi pembagian tegangan listrik menurut PUIL (ditulis ulang secara bebas, hak cipta dokumen PUIL 2000 pada Yayasan PUIL!) :

**Tegangan ekstra rendah :**

Tegangan ekstra rendah yaitu tegangan sistem setinggi-tingginya 50 VAC atau 120 VDC.

**Tegangan rendah :**

**Tegangan rendah adalah tegangan sistem** yang telah melebihi batas nilai tegangan ekstra rendah, tetapi besar tegangannya setinggi-tingginya 1000 VAC atau 1500 VDC.

**Tegangan menengah :**

**Tegangan menengah adalah tegangan sistem** diatas 1 kVAC sampai dengan 35 kVAC.

**Tegangan tinggi :**

**Tegangan tinggi adalah tegangan sistem** diatas 35 kVAC.