



2016 LAPORAN STATISTIK  
STATISTIC REPORT





## Daftar Isi

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## Pengantar Foreword



**Sripeni Inten Cahyani**  
Direktur Utama | President Director

PT Indonesia Power selanjutnya disebut “Indonesia Power” atau “Perusahaan” menerbitkan Buku Statistik Indonesia Power Tahun 2016 berdasarkan hasil data laporan Unit, konsolidasi laporan Kantor Pusat Indonesia Power dan PT PLN (Persero) dan Pusat Pengatur Beban (P2B). Buku ini dimaksudkan untuk memberikan informasi mengenai hasil kerja Perusahaan di bidang Pengusahaan Pembangkit, Niaga, Keuangan, dan SDM tahun 2016 dan perkembangannya selama 5 tahun terakhir. Sebagai sebuah Perusahaan yang maju, di samping harus memiliki program-program ke depan, juga banyak meluangkan perhatian untuk melakukan analisa-analisa data perusahaan. Data statistik Perusahaan yang disusun dalam buku ini, pada dasarnya adalah satu upaya dari Perusahaan untuk menampilkan data-data statistik untuk menjadi sebuah informasi yang sangat berguna bagi Perusahaan. Informasi-informasi yang diperoleh dari data analisa yang kuantitatif dan cermat akan menjadi *feedback* yang baik bagi Perusahaan. Data atau informasi dari data statistik Perusahaan akan makin memberikan *value* jika disertai data-data pembandingan atau informasi *best practice* dari perusahaan sejenis.

Analisa data/informasi perusahaan bisa dijadikan *tool* bagi Perusahaan untuk pengambilan keputusan ke depan untuk menghindarkan terjadinya risiko yang sama di masa mendatang dan menjaga hal-hal positif di masa lalu untuk tetap dijaga dan diperbaiki di masa mendatang.

Semoga buku ini memberikan manfaat bagi pembacanya dan bermanfaat bagi Perusahaan kedepannya.

PT Indonesia Power hereinafter called as “Indonesia Power” or “the Company” publishes the 2016 Statistic Book based on Unit Report, Consolidated Report of Indonesia Power and PT PLN (Persero) and Pusat Pengatur Beban (P2B). Statistic Book provides information about Indonesia Power’s performance in several areas, i.e. plant utilization, Sales, Finance and Human Resource in 2016 and its development during the last 5 year. As a developed Company, in addition to have future programs, it is also required to pay attention on Company’s data analysis. Company’s statistic data compiled in this book is basically one of Company’s efforts to show statistical data as useful information for the Company. The information obtained from quantitative and accurate analytical data will be a good feedback for the Company. Data or information from Company’s statistical data will give added values if it is followed by comparative data or best practice information from similar company.

Company’s information or analytical data can be used as a tool for the Company to make decision in the future and to avoid the occurrence of similar risks in the future as well as to maintain the positive things in the past and improve them in the future.

We hope that this book will give benefit to the readers and the Company as well in the future.

**Sripeni Inten Cahyani**  
Direktur Utama | President Director



## Identitas Perusahaan

### Corporate Identity

**Nama Perusahaan**  
PT Indonesia Power

**Bidang Usaha**  
Penyediaan tenaga listrik dan penyediaan jasa Operation & Maintenance (O&M).

**Komposisi Pemegang Saham**

- PT PLN (Persero) sebanyak 1 lembar saham seri 1 dan 5.215.647.598 lembar saham seri 2
- Yayasan Pendidikan dan Kesejahteraan PT PLN (Persero) sebanyak 1 lembar saham seri 2

**Corporation Name**  
PT Indonesia Power

**Core Business**  
Electricity power supply and Operation & Maintenance service supply.

**Composition of Shareholders**

- PT PLN (Persero) owns 1 share series 1 and 5,215,647,598 shares series 2
- Yayasan Pendidikan dan Kesejahteraan PT PLN (Persero) owns 1 shares series 2



### Tanggal Pendirian

3 Oktober 1995

### Dasar Hukum Pendirian

- Akte Pendirian PT PLN Pembangkitan Tenaga Listrik Jawa-Bali I (PT PLN PJB I) tanggal 3 Oktober 1995
- Akte Perubahan Nama dari PT PLN PJB I menjadi PT Indonesia Power tanggal 8 Agustus 2000

### Modal Dasar

Rp10.000.000.000.000 (sepuluh triliun rupiah)

### Modal Ditempatkan dan Telah Disetor Penuh

Rp2.607.823.800.000 (dua triliun enam ratus tujuh miliar delapan ratus dua puluh tiga juta delapan ratus ribu rupiah)

### Kronologis Pencatatan Saham

Indonesia Power belum pernah mencatatkan saham di Bursa Efek Indonesia

### Kronologis Pencatatan Efek Lainnya

Indonesia Power belum mencatatkan kepemilikan efek dan surat berharga lainnya di Bursa Efek Indonesia

### Kantor Pusat

Jl. Jenderal Gatot Subroto Kav. 18 Jakarta Selatan 12950  
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Faximile : (62-21) 525 1923, 525 2623  
Website : [www.indonesiapower.co.id](http://www.indonesiapower.co.id)  
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Facebook : [indonesiapower](https://www.facebook.com/indonesiapower)  
Instagram : [@pt.indonesiapower](https://www.instagram.com/pt.indonesiapower)

### Jaringan Kantor

6 Unit Pembangkitan (UP), 2 Unit Pembangkitan dan Jasa Pembangkitan (UPJP), 1 Unit Jasa Pemeliharaan (UJH) serta 10 Unit Jasa Pembangkitan (UJP)

### Entitas Anak dan Entitas Afiliasi

5 Anak Perusahaan, 1 Perusahaan Patungan dan 1 Perusahaan Asosiasi

#### Keterangan:

- Unit Pembangkitan (UP) sebagai penyedia fungsi operasional penyediaan tenaga listrik.
- Unit Pembangkitan dan Jasa Pembangkitan (UPJP) sebagai penyedia fungsi operasional penyediaan tenaga listrik serta fungsi jasa pengelolaan O&M.
- Unit Jasa Pembangkitan (UJP) sebagai penyedia fungsi jasa pengelolaan O&M.
- Unit Jasa Pemeliharaan (UJH) sebagai penyedia fungsi kegiatan pemeliharaan.

### Date of Establishment

October 3<sup>rd</sup>, 1995

### Establishment Legal Basis

- PT PLN Pembangkitan Tenaga Listrik Jawa-Bali I (PT PLN PJB I) deed of establishment dated on October 3<sup>rd</sup>, 1995
- Change of name deed from PT PLN PJB I into PT Indonesia Power dated on August 8<sup>th</sup>, 2000

### Authorized Capital

Rp10,000,000,000,000 (ten trillion rupiah)

### Capital Issued and Fully Paid

Rp2,607,823,800,000 (two trillion, six hundred and seven billion eight hundred twenty three million eight hundred thousand rupiah)

### Chronological Listing Shares

Indonesia Power has never been listed its shares on the Indonesia Stock Exchange

### Chronological Listing of Other Stock

Indonesia Power has never listed the ownership of stocks and other securities in Indonesia Stock Exchange

### Head Office

Jl. Jenderal Gatot Subroto Kav. 18 Jakarta Selatan 12950  
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Website : [www.indonesiapower.co.id](http://www.indonesiapower.co.id)  
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Facebook : [indonesiapower](https://www.facebook.com/indonesiapower)  
Instagram : [@pt.indonesiapower](https://www.instagram.com/pt.indonesiapower)

### Office Network

6 Generating Unit (GU), 2 Generating and Generating Services Unit (GGSU), 1 Maintenance Services Unit (MSU) and 10 Generating Services Unit (GSU)

### Subsidiaries and Affiliates

5 Subsidiaries, 1 Joint Venture Company and 1 Affiliated Company

#### Notice:

- Generating Unit (GU) as the provider of electricity supply's operational function.
- Generating and Generating Services Unit (GGSU) as the provider of electricity supply's operational function as well as O&M management services function.
- Generating Services Unit (GSU) as the provider of O&M management services function.
- Maintenance Services Unit (MSU) as the provider of maintenance function.



## Sejarah Singkat

### Brief History



Indonesia Power merupakan salah satu anak Perusahaan PT PLN (Persero) yang didirikan pada tanggal 3 Oktober 1995 dengan nama PT PLN Pembangkitan Jawa Bali I (PT PJB I). Pada tanggal 8 Oktober 2000, PT PJB I berganti nama menjadi Indonesia Power sebagai penegasan atas tujuan Perusahaan untuk menjadi Perusahaan pembangkit tenaga listrik independen yang berorientasi bisnis murni.

Kegiatan utama bisnis Perusahaan saat ini yakni fokus sebagai penyedia tenaga listrik melalui pembangkitan tenaga listrik dan sebagai penyedia jasa operasi dan pemeliharaan pembangkit listrik yang mengoperasikan pembangkit yang tersebar di Indonesia. Selain mengelola Unit Pembangkit, Indonesia Power memiliki 5 Anak Perusahaan, 1 Perusahaan Patungan, 1 Perusahaan Asosiasi serta 2 Afiliasi dari Anak Perusahaan untuk mendukung strategi dan proses Bisnis Perusahaan.

Guna mendukung pencapaian Visi dan Misi Perusahaan, Indonesia Power menetapkan prinsip yang menjadi landasan dalam mengarahkan perilaku individu sesuai dengan Budaya Perusahaan yang tercermin dalam "Indonesia Power Way" dengan tata nilai perusahaan yaitu "IP AkSi (Integritas, Profesional, Proaktif, Sinergi)".

Indonesia Power is a subsidiary of PT PLN (Persero) which was established on October 3, 1995 under the name of PT PLN Pembangkitan Jawa Bali I (PT PJB I). On October 8, 2000, PT PJB I changed its name to Indonesia Power to affirm the Company's objective to become an independent power generation company that is purely business oriented.

The Company's main business is to focus as an electricity provider through electricity generation, and as a provider of power plants operation and maintenance services that operate power plants spread across Indonesia. In addition to Generating Unit management, Indonesia Power has 5 Subsidiaries, 1 Joint Venture Company, 1 Associate Company, and 2 Second-Tier Subsidiaries to support the business process and strategy of the Company.

To support the achievement of Company's Vision and Mission, Indonesia Power implements the foundation principles to direct the individual behavior in line with the Corporate Culture, which is reflected in the "Indonesia Power Way", with the corporate value of "IP AkSi (Integritas, Profesional, Proaktif, Sinergi)".



Untuk mendukung terealisasinya keinginan tersebut, Indonesia Power dan seluruh unitnya telah berbenah diri melalui implementasi Indonesia Power-Integrated Management System (InPower-IMS) yang mengintegrasikan berbagai standar antara lain ISO 14001 (Sistem Manajemen Lingkungan), ISO 9001 (Sistem Manajemen Mutu), OHSAS 18001 (Sistem Manajemen K3), ISO 28000 (Sistem Manajemen Keamanan Rantai Pasok), SMP (Sistem Manajemen Pengamanan), SMK3 (Sistem Manajemen K3), ISO 55001 (Sistem Manajemen Aset), ISO 50001 (Sistem Manajemen Energi), ISO 26000 (Standar Tanggung Jawab Sosial Perusahaan), ISO 31000 (Sistem Manajemen Risiko) dan Kriteria Baldrige.

Untuk menindaklanjuti berbagai program dan strategi yang telah dilakukan sepanjang tahun 2016, Indonesia Power fokus kepada O&M Excellence dengan senantiasa berkomitmen dalam mengembangkan pembangkit yang aman, bersih, hijau, andal dan efisien. Sejalan dengan tema Perusahaan "GO 90", pengembangan ini menjadi salah satu kekuatan masa depan Perusahaan untuk "menerangi Indonesia".

Konsistensi dan komitmen yang kuat untuk terus memberikan yang terbaik kepada segenap pemangku kepentingannya.

To support the realization, Indonesia Power and all its unit have been improving through the implementation of Indonesia Power-Integrated Management System (InPower-IMS), that integrates many standards, such as ISO 14001 (Environmental Management System), ISO 9001 (Quality Management System), OHSAS 18001 (OHS Management System), ISO 28000 (Supply Chain Security Management System), SMP (Security Management System), SMK3 (OHS Management System), ISO 55001 (Asset Management System), ISO 50001 (Energy Management System), ISO 26000 (Guideline on Social Responsibility), ISO 31000 (Risk Management-Principles and Guidelines) and Baldrige Criteria.

To follow-up the program and strategy conducted throughout 2015, Indonesia Power focuses on the achievement of Company's business theme, i.e. to become O&M Excellence in 2016 by committing to develop safe, clean, environmentally friendly, reliable, and efficient power plants. In line with Corporate theme "GO 90", this development is one of the company's future strength to "light up Indonesia".

Strong consistency and commitment to keep providing the best for the stakeholders.

Sepanjang tahun 2016, Indonesia Power telah memperoleh apresiasi dan penghargaan di berbagai bidang baik di tingkat nasional maupun internasional. Sejumlah penghargaan yang berhasil diraih antara lain adalah *The Best Power Plants Company with Environmentally Friendly of the Year* dalam ajang *Indonesian Entrepreneur & Education Award*, *Top 5 O&M Company* dalam ajang *Indonesia Best Electricity Award*, *Gold Awards* kategori *Dual Fuel Power Plant of the Year* PLTDG Pesanggaran 200 MW dalam ajang *Asian Power Awards*, *Top IT implementation Of Energy & Mining Sector* dalam ajang *Top IT & Telco*, *9 PROPER Hijau*, *Zero Accident*, *Emerging Industry Leader* dalam ajang *Indonesia Quality Award*, *Trusted Company* dalam ajang *CGPI Award*, *Indonesia Sustainability Report Award*, *Vision Award*, *2<sup>nd</sup> the Best Human Capital* dalam ajang *Indonesia Human Capital Award*.

Throughout 2016, Indonesia Power has been appreciated and awarded in many sectors, both in the national and international level. Some awards obtained are *The Best Power Plants Company with Environmentally Friendly of the Year*, in the event of *Indonesian Entrepreneur & Education Award*, *Top 5 O&M Company* in the event *Indonesia Best Electricity Award*, *Gold Awards* in the category of *Dual Fuel Power Plant of the Year* DGPP Pesanggaran 200 MW in the event *Asian Power Awards*, *Top IT implementation Of Energy & Mining Sector* in the event *Top IT & Telco*, *9 Green PROPER*, *Zero Accident*, *Emerging Industry Leader* in the event *Indonesia Quality Award*, *Trusted Company* in *CGPI Award*, *Indonesia Sustainability Report Award*, *Vision Award*, *2<sup>nd</sup> the Best Human Capital* in *Indonesia Human Capital Award*.

## Ikhtisar Summary



### SISTEM JAWA BALI

#### Penyediaan Tenaga Listrik

Pada tahun 2016, total penyediaan tenaga listrik (daya mampu netto) untuk Sistem Jawa Bali mencapai 33.138 MW, dengan perincian: Indonesia Power sebesar 24,61% (8.155,06 MW), PT PJB sebesar 19,22% (6.370,39 MW), UB Tanjung Jati B sebesar 7,98% (2.643,80 MW), Unit Jasa O&M yang dikelola Indonesia Power sebesar 14,95% (4.954 GWh), Unit Jasa O&M yang dikelola PJB sebesar 12,51% (4.145 GWh), dan IPP sebesar 20,73% (6.869,29 MW).

#### Pengiriman Energi

Selama tahun 2016, jumlah energi listrik yang dikirim ke Sistem Jawa Bali sebesar 175.094 GWh meningkat 5,48% dibandingkan tahun sebelumnya yang sebesar 165.993 GWh. Dari jumlah tersebut, 23,65% (41.405 GWh) dikirim oleh Indonesia Power, 14,74% (25.816 GWh) dikirim oleh PT PJB dan 9,68% (116.941 GWh) dikirim oleh UB Tanjung Jati B, 14,55% (25.480 GWh) dikirim oleh Unit Jasa O&M yang dikelola Indonesia Power, 12,51% (21.911 GWh) dikirim oleh Unit Jasa O&M yang dikelola PJB dan 24,87% (43.542 GWh) dikirim oleh IPP.

### INDONESIA POWER

#### Daya Terpasang Pembangkit

Jumlah daya terpasang pembangkit yang dimiliki dan dikelola oleh Indonesia Power melalui 6 Unit Pembangkitan (UP) dan 2 Unit Pembangkitan dan Jasa Pembangkitan (UPJP) di tahun 2016 untuk Sistem Jawa Bali *Grid* dan *Embedded* sebesar 8.877,68 MW menurun dari tahun sebelumnya yang sebesar 9.029,68 MW. Hal ini disebabkan menurunnya kapasitas terpasang

### JAVA BALI SYSTEM

#### Electricity Supply

Total Electricity Supply of Java Bali System (net maximum capacity) in 2016 reached 33,138 MW, with the following details: Indonesia Power by 24.61% (8,155.06 MW), PT PJB by 19.22% (6,370.39 MW), UB Tanjung Jati B 7.98% (2,643.80 MW), O&M service unit managed by Indonesia Power reached 14.95% (4,954 GWh), O&M service unit managed by PJB reached 12.51% (4,145 GWh), and IPP by 20.73% (6,869.29 MW).

#### Energy Transferred

During 2016, total electricity transferred to Java Bali System reached 175,094 GWh, an increase of 5.48% compared to the previous year which was 165,993 GWh. From that number, 23.65% (41,405 GWh) was transferred by Indonesia Power, 14.74% (25,816 GWh) was transferred by PT PJB and 9.68% (116,941 GWh) was transferred by UB Tanjung Jati B, 14.55% (25,480 GWh) was transferred by O&M Service Unit managed by Indonesia Power, 12.51% (21,911 GWh) was transferred by O&M Service Unit managed by PJB and 24.87% (43,542 GWh) was transferred by IPP.

### INDONESIA POWER

#### Generator Installed Capacity

Total installed capacity owned and managed by Indonesia Power through its 6 Generating Units (GU) and 2 Generating and Generating Services Unit (GGSU) in 2016 for the grid and embedded Java Bali System reached 8,877.68 MW, a decrease from previous year which reached 9,029.68 MW. It was contributed by the decrease of installed capacity of



pembangkit UPJP Priok pada tahun ini menjadi 1.196,08 MW dari tahun sebelumnya yaitu 1.348,08 MW karena PLTU Priok 3 dan 4 serta PLTG Priok 1 dan 3 dikeluarkan dari sistem di tahun 2016. Selain Perusahaan memiliki dan mengelola pembangkit di Jawa Bali, Perusahaan juga memiliki 3 unit pembangkit di Sumatera yang dikelola oleh Anak Perusahaan yaitu Cogindo DayaBersama (CDB) sebesar 81 MW sama dengan tahun sebelumnya. Sehingga total kapasitas terpasang pembangkit yang dimiliki Perusahaan tahun 2016 sebesar 8.958,68 MW menurun dari tahun sebelumnya sebesar 9.110,68 MW.

Kapasitas terpasang pembangkit terbesar milik Indonesia Power adalah UP Suralaya dengan kapasitas terpasang 3.400 MW (37,95%), kemudian UP Semarang sebesar 1.408,93 MW (15,73%), UPJP Priok sebesar 1.196,08 MW (13,35%), UP Perak Grati sebesar 864,08 MW (9,65%), UP Saguling sebesar 797,36 MW (8,90%), UP Bali sebesar 556,48 MW (6,21%), UPJP Kamojang sebesar 345 MW (3,85%), dan UP Mrica sebesar 309,74 MW (3,46%), PLTG Indralaya sebesar 45 MW (0,50%) serta PLTG Keramasan dan PLTG Jambi masing-masing sebesar 18 MW (0,20%).

Dalam kegiatan usaha pengelolaan jasa Operation & Maintenance pembangkit, Perusahaan mengelola pembangkit milik PLN dengan total kapasitas terpasang pembangkit sebesar 5.948 MW di tahun 2016 meningkat 14,20% dibandingkan tahun 2015 sebesar 5.209 MW. Peningkatan tersebut terutama dipengaruhi oleh penambahan jasa O&M PLTGU Cilegon ke PT Indonesia Power per 1 Januari 2016. Kapasitas terpasang pembangkit terbesar yang dikelola oleh Perusahaan adalah UJP Palabuhan Ratu sebesar 1.050 MW, kemudian UJP Lontar sebesar 945 MW, PLTGU Priok Blok 3 sebesar 740 MW, UJP Cilegon sebesar 739,4, UJP Adipala sebesar 660 MW, UJP

UPJP Priok in this year which recorded 1,196.08 MW from the previous year of 1,348.08 MW due to the removal of PLTU Priok 3 and 4 also PLTG Priok 1 dan 3 from the system in 2016. Besides having and managing power plant in Java Bali, the Company also owned 3 power plant unit in Sumatera which was managed by the Company's subsidiary, Cogindo DayaBersama (CDB) amounted to 81 MW which as same as previous year. Thus, total installed capacity of the power plant owned by the Company in 2016 reached 8.958,68 MW or a decrease compared to previous year of 9,110.68 MW.

The biggest installed capacity of Indonesia Power was Suralaya GU by 3,400 MW (37.95%), followed by Semarang GU by 1,408.93 MW (15.73%), Priok GGSU by 1,196.08 MW (13.35%), Perak Grati GU by 864.08 MW (9.65%), Saguling GU by 797.36 MW (8.90%), Bali GU by 556.48 MW (6.21%), Kamojang GGSU by 345 MW (3.85%), Mrica GU by 309.74 MW (3.46%). Indralaya GTPP by 45 MW (0.50%) and also Keramasan GTPP and Jambi GTPP by 18 MW (0.20%) each.

In managing the Operation & Maintenance service of power plant, the Company managed PLN's power plants with total installed capacity reached 5,948 MW in 2016, an increase by 14.20% compared to 2015 by 5,209 MW. The increasing was influenced by the additional O&M service of Cilegon CPP to PT Indonesia Power as of January 1, 2016. The biggest installed capacity managed by the Company was Palabuhan Ratu GSU by 1,050 MW, then Lontar GSU by 945 MW, Priok Block 3 CPP by 740 MW, Cilegon GSU by 739.4, Adipala GSU by 660 MW, Suralaya 8 GSU by 625 MW, Labuan GSU by 600 MW, Pangkalan Susu GSU by 440 MW,

Suralaya 8 sebesar 625 MW, UJP Labuan sebesar 600 MW, UJP Pangkalan Susu sebesar 440 MW, UJP Barru sebesar 100 MW, UJP Jeranjang sebesar 25 MW, UJP Sanggau sebesar 14 MW dan UJP Ulumbu sebesar 10 MW.

Sebagai fungsi pendukung, Indonesia Power juga melakukan pembelian listrik di sebagian Area Bali dengan total kapasitas terpasang sebesar 73 MW menurun dari tahun sebelumnya sebesar 220,90 MW. Penurunan tersebut terutama dipengaruhi oleh terminasi kontrak PLTD A Bali, PLTD C Bali dan PLTD D Bali.

### Produksi

Selama tahun 2016 melalui 6 UP dan 2 UPJP di Sistem Jawa Bali *Grid & Embedded*, Indonesia Power telah memproduksi energi listrik sebanyak 43.129,92 GWh meningkat 10,23% dari tahun sebelumnya yang sebesar 39.126,74 GWh. Peningkatan tersebut terutama dikontribusi oleh peningkatan signifikan pada beberapa unit pembangkit yaitu peningkatan produksi UP Semarang, UP Perak Grati serta pembangkit berbahan bakar air di UP Saguling dan UP Mrica.

Sedangkan realisasi produksi listrik dari hasil Pembelian listrik di sebagian Area Bali sebesar 50,68 GWh menurun 91,60% dari tahun sebelumnya sebesar 603,37 GWh. Sehingga total produksi listrik yang dihasilkan Indonesia Power tahun 2016 sebesar 43.180,60 GWh meningkat 8,68% dari tahun sebelumnya sebesar 39.730,12 GWh.

Dari total produksi energi listrik yang dihasilkan pada tahun 2016, produksi listrik terbesar dihasilkan oleh UP Suralaya sebesar 22.786,10 GWh, kemudian UP Semarang sebesar 5.158,05 GWh, UP Saguling sebesar 4.069,30 GWh, UPJP Priok sebesar 3.213,47 GWh, UP Perak Grati sebesar 2.972,37 GWh, UPJP Kamojang sebesar 2.777,15 GWh, UP Mrica sebesar 1.237,77 GWh, UP Bali sebesar 915,71 GWh dan pembelian listrik Area Bali sebesar 50,68 GWh.

Berdasarkan jenis pembangkit, PLTU mencapai produksi tertinggi sebesar 22.786,10 GWh, kemudian PLTGU sebesar 11.129,80 GWh, PLTA sebesar 5.307,08 GWh, PLTP sebesar 2.777,15 GWh, PLTDG sebesar 885,37 GWh, PLTG sebesar 244,41 GWh dan PLTD sebesar 0,03 GWh.

Barru SPP by 100 MW, Jeranjang SPP by 25 MW, Sanggau SPP by 14 MW and Ulumbu GPP by 10 MW.

As a support function, Indonesia Power also purchased electricity in several areas of Bali with total installed capacity was 73 MW, a decrease compared to previous year which was 220.90 MW. The decreasing in installed capacity was due to contract termination of DPP A Bali, DPP C Bali and DPP D Bali.

### Production

In 2016, through its 6 GU and 2 GGSU in Grid and Embedded Java Bali System, Indonesia Power has produced electricity by 43,129.92 GWh, an increase of 10.23% compared to previous year of 39,126.74 GWh. The increase in electricity production of Java Bali Grid & Embedded was contributed the significant improvement in several power plant units such as the increased production of Semarang GU, Perak Grati GU and hydro power plant at Saguling GU and Mrica GU.

Meanwhile, the actual electricity production from the purchase of electricity in several areas of Bali which was 50.68 GWh experienced a decrease of 91.60% from the previous year which was 603.37 GWh. So that the total production of electricity generated by Indonesia Power in 2016 reached to 43,180.60 GWh, an increased of 8.68% from the previous year of 39,730.12 GWh.

From the total production of electrical energy produced in 2016, the biggest electricity production was produced by Suralaya GU by 22,786.10 GWh, followed by Semarang GU by 5,158.05 GWh, Saguling GU by 4,069.30 GWh, Priok GGSU by 3,213.47 GWh, Perak Grati GU by 2,972.37 GWh, Kamojang GGSU by 2,777.15 GWh, Mrica GU by 1,237.77 GWh, Bali GU by 915.71 GWh and electricity purchase for Bali area by 50.68 GWh.

Based on power plant type, SPP has attained the biggest production by 22,786.10 GWh, followed by CPP by 11,129.80 GWh, HPP by 5,307.08 GWh, GPP by 2,777.15 GWh, DGPP by 885.37 GWh, GTPP by 244.41 GWh and DPP by 0.03 GWh.





### Penjualan

Energi listrik yang telah disalurkan Indonesia Power ke Sistem Jawa Bali Grid and Embedded selama tahun 2016 sebanyak 41.250,60 GWh, meningkat 10,27% dari tahun sebelumnya sebesar 37.408,37 GWh. Kenaikan penjualan energi listrik Jawa Bali *Grid & Embedded* tahun 2016 dibandingkan 2015, seperti disampaikan pada penjelasan peningkatan produksi energi listrik.

Sedangkan realisasi penjualan listrik dari hasil pembelian listrik di sebagian Area Bali sebesar 48,42 GWh menurun 91,97% dari tahun sebelumnya sebesar 602,74 GWh. Sehingga total penjualan listrik yang dihasilkan Indonesia Power tahun 2016 sebesar 41.299,01 GWh naik 8,65% dari tahun sebelumnya sebesar 38.011,11 GWh.

Dari total energi listrik yang disalurkan pada tahun 2016, UP Suralaya menyalurkan energi terbesar sebanyak 21.438,38 GWh, kemudian UP Semarang sebesar 4.969,83 GWh, UP Saguling sebesar 4.061,53 GWh, UPJP Priok sebesar 3.132,86 GWh, UP Perak Grati sebesar 2.893,38 GWh, UPJP Kamojang sebesar 2.644,17 GWh, UP Mrica sebesar 1.218,74 GWh, UP Bali sebesar 891,69 GWh dan pembelian listrik Area Bali sebesar 48,42 GWh.

Berdasarkan jenis pembangkit, PLTU mencapai penjualan tertinggi sebesar 21.433,47 GWh, kemudian PLTGU sebesar 10.788,47 GWh, PLTA sebesar 5.280,28 GWh, PLTP sebesar 2.644,17 GWh, PLTDG sebesar 868,37 GWh, PLTG sebesar 235,72 GWh dan PLTD sebesar 0,01 GWh.

### Pemakaian Sendiri

Untuk jumlah pemakaian sendiri Jawa Bali *Grid & Embedded* Indonesia Power di tahun 2016 sebesar 4,36% lebih baik dari tahun sebelumnya sebesar 4,39%. Dari total pemakaian sendiri tahun 2016, UP Suralaya adalah unit yang paling banyak mengkonsumsi energi listrik untuk pemakaian sendiri yaitu UP Suralaya sebesar 5,91%, kemudian UPJP Kamojang sebesar 4,79%, UP Semarang sebesar 3,65%, UP Perak Grati sebesar 2,62%, UP Bali sebesar 2,62%, UPJP Priok sebesar 2,51%, UP Mrica sebesar 1,54% dan UP Saguling sebesar 0,19%.

Berdasarkan jenis pembangkit di sistem PLTU yang paling banyak mengkonsumsi energi listrik untuk pemakaian sendiri sebesar 5,94%, PLTP sebesar 4,79%, PLTG sebesar 3,56% PLTGU sebesar 3,07%, PLTDG sebesar 1,92%, dan PLTA sebesar 0,50%.

### Sales

The electricity distributed by Indonesia Power to Grid and Embedded Java Bali system in 2016 was 41,250.60 GWh, an increase of 10.27% from the previous year of 37,408.37 GWh. The increase in sales of electrical energy and Java-Bali Grid & Embedded in 2016 compared to 2015, was as stated in the explanation of the decline in production of electrical energy.

Meanwhile, the actual electricity sales from the purchase of electricity in several areas of Bali which was 48.42 GWh experienced a decrease of 91.97% from the previous year which was 602.74 GWh. So that, total electricity sales generated by Indonesia Power in 2016 reached 41,299.01 GWh, an increase of 8.65% from previous year of 38,011.11 GWh.

From the total electrical energy distributed in 2016, Suralaya GU has distributed the largest electricity by 21,438.38 GWh, followed by Semarang GU by 4,969.83 GWh, Saguling GU by 4,061.53 GWh, Priok GGSU by 3,132.86 GWh, Perak Grati GU by 2,893.38 GWh, Kamojang GGSU by 2,644.17 GWh, Mrica GU by 1,218.74 GWh, Bali GU by 891.69 GWh and electricity purchase in Bali area by 48.42 GWh.

Based on power plant type, SPP has attained the biggest sales by 21,433.47 GWh, followed by CPP by 10,788.47 GWh, HPP by 5,280.28 GWh, GPP by 2,644.17 GWh, DGPP by 868.37 GWh, and GTPP 235.72 GWh and DPP by 0.01 GWh.

### Self Consumption

The self-consumption of Java Bali Grid & Embedded of Indonesia Power in 2016 reached 4.36% it was better than the previous year which was 4.39%. From the total self-consumption in 2016, Suralaya GU was the largest self-consumption of the electricity which was 5.91%, followed by Kamojang GGSU by 4.79%, Semarang GU by 3.65%, Perak Grati GU by 2.62%, Bali GU by 2.62%, Priok GGSU by 2.51%, Mrica GU by 1.54% and Saguling GU by 0.19%.

Based on the types, steam power plants consume the most electricity for own use amounted to 5.94%, GPP by 4.79%, GTPP by 3.56%, CPP by 3.07%, DGPP by 1.92%, and HPP by 0.50%.



### Pemakaian Bahan Bakar

Pemakaian bahan bakar yang dihitung merupakan pemakaian bahan bakar untuk menghasilkan energi listrik. Selama tahun 2016, terjadi kenaikan pemakaian bahan bakar gas. Untuk pemakaian gas naik mencapai 111.002.525,34 MMBTU meningkat 44,44% dari tahun sebelumnya sebesar 76.851.476,82 MMBTU, sedangkan untuk pemakaian bahan bakar lainnya mengalami penurunan dari tahun sebelumnya. Pemakaian batubara sebesar 11.589.039,04 ton menurun 4,76% dari tahun sebelumnya sebesar 12.168.481,74 ton, lalu pemakaian HSD dan MFO masing-masing sebesar 47.247,19 kiloliter dan 12.013,43 kiloliter menurun 85,55% dan 88,08% dari tahun sebelumnya sebesar 326.944,37 kiloliter dan 100.803,69 kiloliter. Peningkatan pemakaian gas sejalan dengan program perusahaan dalam pengembangan pembangkit Non BBM dan kebijakan pemerintah terkait penghematan BBM.

### Kinerja Operasional

Faktor keandalan pembangkit Indonesia Power yang tercermin pada *Equivalent Availability Factor* (EAF) di tahun 2016 sebesar 85,63% menurun 5,74% dari tahun sebelumnya yang sebesar 90,85%. Faktor efisiensi pembangkit Capacity Factor (CF) selama tahun 2016 sebesar 59,66% meningkat 14,97% dari tahun sebelumnya sebesar 51,89%.

### Keuangan

Pada tahun 2016, pendapatan usaha Indonesia Power meningkat 14,63% dari tahun sebelumnya yaitu Rp32.020,19 miliar menjadi Rp36.705,95 miliar. Pendapatan yang diperoleh dari penjualan energi listrik juga mengalami peningkatan 12,46% menjadi sebesar Rp34.504,12 miliar dari tahun sebelumnya yaitu sebesar Rp30.680,91 miliar. Peningkatan pendapatan usaha selaras dengan peningkatan GWh produksi dan penjualan energi listrik. Untuk jumlah aset di tahun 2016 menurun sebesar 2,57% dari tahun sebelumnya yaitu Rp226.720,25 miliar menjadi Rp220.888,02 miliar. Penurunan aset merupakan dampak dari proses depresiasi setelah proses revaluasi aset tetap di tahun 2015. Sedangkan jumlah laba tahun berjalan juga mengalami penurunan 38,22% dari tahun sebelumnya yaitu Rp4.672,52 miliar menjadi Rp2.886,70 miliar. Hal ini disebabkan oleh kenaikan beban pajak tangguhan sebagai dampak revaluasi aset tahun 2015 sehingga perusahaan di tahun 2016 mengalami rugi fiskal.

### Kepegawaian

Jumlah pegawai aktif Indonesia Power di tahun 2016 mencapai 3.725 pegawai, meningkat 2,36% dibandingkan tahun sebelumnya yang sebesar 3.639 pegawai. Peningkatan pegawai sejalan dengan pertumbuhan pengembangan pembangkit Perusahaan ke depannya. Komposisi pegawai terbanyak berada di UP Suralaya sebanyak 711 pegawai dengan prosentase 19,09% dari total pegawai. Pegawai berusia dikisaran umur 26-30 tahun mendominasi sebesar 21,64%. Sedangkan 44,83% pegawai berjenjang pelaksana, 90,12% pegawai berjenis kelamin pria dan 40,05% pegawai berpendidikan SMK merupakan mayoritas pegawai.

### Fuel Consumption

Fuel consumption calculated was the usage fuel to generate electrical energy. During 2016, there was an increase in fuel consumption of gas. The use of gas reached 111,002,525.34 MMBTU an increased by 44.44% from the previous year of 76,851,476.82 MMBTU, while other fuel consumption experienced a decrease compared to previous year. The coal consumption was 11,589,039.04 tons, decreased by 4.76% from the previous year of 12,168,481.74 tons, while HSD and MFO usage was amounted to 47,247.19 kiloliters and 12,013.43 kiloliters respectively, decreased by 85.55% and 88.08% from the previous year of 326,944.37 kiloliters and 100,803.69 kiloliters. The increasing usage of coal and gas was in line with the Company's program in the development of non-fuel plants and government policy related to fuel savings.

### Operational Performance

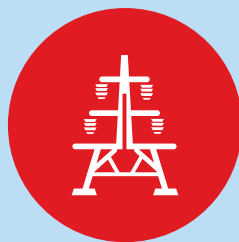
The reliability factor of Indonesia Power which reflected by Equivalent Availability Factor (EAF) 85.63% in 2016, decreased by 5.74% compared to the previous year which was 90.85%. The Capacity Factor (CF) of Power plant efficiency factor in 2016 was 59.66%, an increased by 14.97% from the previous year of 51.89%.

### Revenue

Total assets of Indonesia Power in 2016 an increase 14.63% to Rp36,705.95 billion compared to previous year of Rp32,020.19 billion. Revenues earned from electricity sales also increased by 12,46% to Rp34,504.12 billion from the previous year which amounted to Rp30,680.91 billion. The increase in operating revenues was in line with an increase in GWh production and electricity sales. For the number of assets in 2016 decreased by 2.57% from the year previously at Rp226,720.25 billion to Rp220,888.02 billion. A decrease in assets was impacted by the depreciation process after the revaluation of fixed assets in 2015. Meanwhile, the amount of current year profit also decreased 38.22% from the previous year which was Rp4,672.52 billion to Rp2,886.70 billion. This is due to the increase in deferred tax expense as a result of the revaluation of assets in 2015 so that the company in 2016 suffered a fiscal loss.

### Human Resources

The total number of Indonesia Power's employees in 2016 reached 3,725 employees, an increase of 2.36% compared to previous year of 3,639 employees. The increase in number of employees was in line with the growth of power plant development in the future. The employee composition was mainly dominated by Suralaya GU which was 711 employees or 19.09% from total employees. The employees was dominated by those who were 26-30 years old which were 21.64%. While 44.83% were in managerial level, 90.12% were men and 40.05% was vocational high school graduates.



**Sistem Jawa Bali**  
**Java Bali System**



## Penyediaan Tenaga Listrik Electricity Supply

tabel table  
**01**

**Penyediaan Tenaga Listrik Sistem Jawa Bali Tahun 2012-2016**  
Electricity Supply of Java Bali System in 2012-2016

| Perusahaan<br>Company                                       | Tahun   Year     |            |                  |            |                  |            |                  |            |               |            |
|-------------------------------------------------------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|---------------|------------|
|                                                             | 2012             |            | 2013             |            | 2014             |            | 2015             |            | 2016          |            |
|                                                             | MW               | (%)        | MW               | (%)        | MW               | (%)        | MW               | (%)        | MW            | (%)        |
| PT Indonesia Power                                          | 7.981,62         | 27,56      | 8.047,62         | 26,81      | 8.167,27         | 26,18      | 8.230,08         | 25,99      | 8.155,06      | 24,61      |
| PT PJB                                                      | 6.324,00         | 21,84      | 6.323,85         | 21,06      | 6.384,00         | 20,46      | 6.370,39         | 20,13      | 6.370,39      | 19,22      |
| UB Tanjung Jati B                                           | 2.644,00         | 9,13       | 2.643,80         | 8,81       | 2.643,80         | 8,47       | 2.643,80         | 8,35       | 2.643,80      | 7,98       |
| UB Lontar*                                                  | 615,00           | 2,12       | 883,00           | 2,94       | -                | -          | -                | -          | -             | -          |
| IPP**                                                       | 5.667,05         | 19,57      | 5.784,95         | 19,27      | 5.840,85         | 18,72      | 6.869,29         | 19,75      | 6.869,29      | 20,73      |
| UPJB***                                                     | 5.724,00         | 19,77      | 6.339,00         | 21,11      | 8.161,00         | 26,16      | 8.161,00         | 25,77      | -             | -          |
| Unit O&M dikelola oleh IP***<br>Unit O&M managed by IP***   | -                | -          | -                | -          | -                | -          | -                | -          | 4.954,00      | 14,95      |
| Unit O&M dikelola oleh PJB***<br>Unit O&M managed by PJB*** | -                | -          | -                | -          | -                | -          | -                | -          | 4.145,00      | 12,51      |
| <b>Sistem Jawa Bali<br/>Java Bali System</b>                | <b>28.955,67</b> | <b>100</b> | <b>30.022,22</b> | <b>100</b> | <b>31.196,92</b> | <b>100</b> | <b>31.663,58</b> | <b>100</b> | <b>33.138</b> | <b>100</b> |

**Keterangan:**

\* Pada tahun 2013, UB Lontar meliputi PLTU Pacitan, Palabuhan Ratu, dan Tanjung Awar-awar dan di tahun 2014 UB Lontar masuk ke dalam UPJB.  
\*\* Tahun 2015 telah masuk PLTP Kamojang 5 dan PLTU Celukan Bawang (IPP).  
\*\*\* Unit-unit UPJB tahun 2016 dikelola oleh IP dan PJB sebagai Asset Manager.

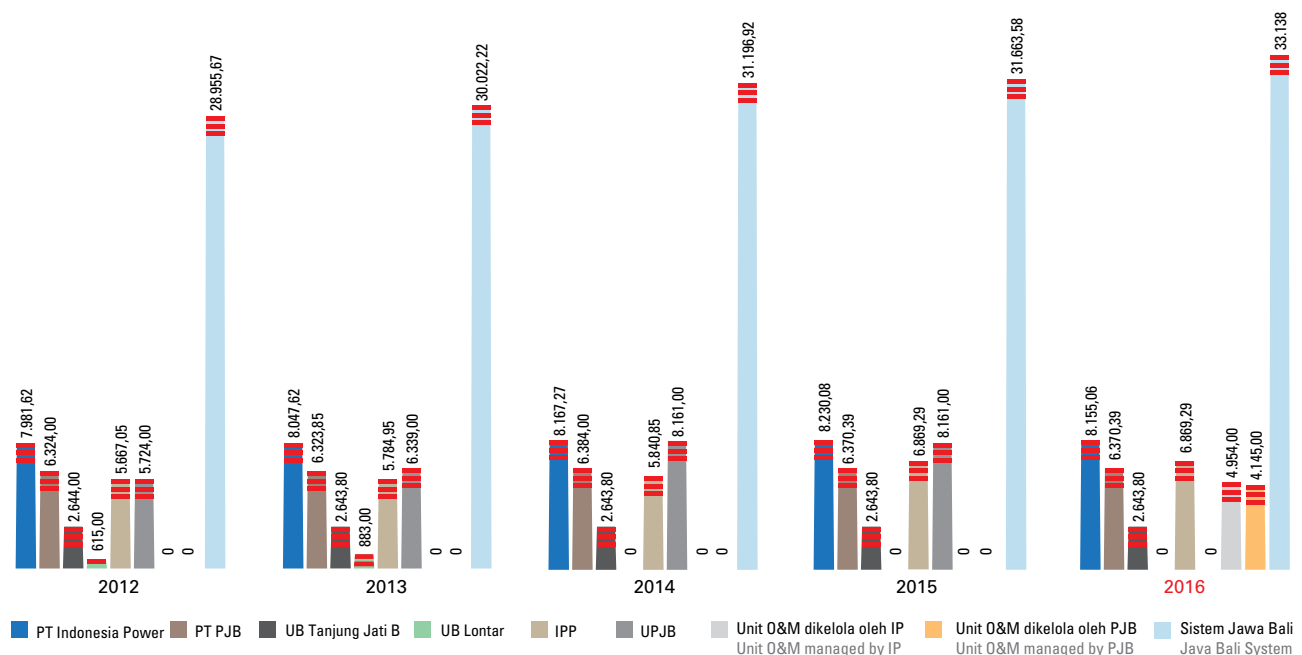
**Notes:**

\* In 2013, UB Lontar included Pacitan SPP, Palabuhan Ratu, and Tanjung Awar-awar and in 2014 UB Lontar was included in UPJB.  
\*\* In 2015, Kamojang GPP 5 and Celukan Bawang DPP (IPP) were included.  
\*\*\* UPJB units in 2016 were managed by IP and PJB as Asset Manager.

grafik graph

**01**

**Penyediaan Tenaga Listrik Sistem Jawa Bali Tahun 2012-2016 (MW)**  
Electricity Supply of Java Bali System in 2012-2016 (MW)





tabel table **02** **Penyediaan Tenaga Listrik PT PJB Tahun 2016**  
**Electricity Supply of PT PJB in 2016**

| Unit Pembangkit<br>Generating Unit |                  | Mesin Pembangkit   Power Plant |          |        |          |        |        |        |        |        |  | Jumlah<br>Unit<br>Total of<br>Unit | Jumlah<br>Kapasitas<br>Total of<br>Capacity |
|------------------------------------|------------------|--------------------------------|----------|--------|----------|--------|--------|--------|--------|--------|--|------------------------------------|---------------------------------------------|
|                                    |                  | 1                              | 2        | 3      | 4        | 5      | 6      | 7      | 8      | 9      |  |                                    |                                             |
|                                    |                  | Kapasitas (MW) / Capacity (MW) |          |        |          |        |        |        |        |        |  |                                    |                                             |
| UP Muara Karang                    |                  |                                |          |        |          |        |        |        |        |        |  | 718,00                             |                                             |
| Muara Karang                       | PLTU-M<br>SPP-F  |                                |          |        | 162,00   | 162,00 |        |        |        |        |  | 2                                  | 324,00                                      |
|                                    | PLTU-G<br>SPP-G  |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
|                                    | PLTGU-M<br>CPP-F | 90,00                          | 90,00    | 90,00  | 124,00   |        |        |        |        |        |  | 4                                  | 394,00                                      |
|                                    | PLTGU-G<br>CPP-G |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
| UP Muara Tawar 12 1.740            |                  |                                |          |        |          |        |        |        |        |        |  | 1.729,00                           |                                             |
| Muara Tawar Blok 1                 | PLTGU-M<br>CPP-F | 137,00                         | 137,00   | 137,00 | 204,00   |        |        |        |        |        |  | 4                                  | 615,00                                      |
|                                    | PLTGU-G<br>CPP-G |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
| Muara Tawar Blok 2                 | PLTGU-M<br>CPP-F |                                |          |        |          | 137,00 | 137,00 |        |        |        |  | 2                                  | 274,00                                      |
|                                    | PLTGU-G<br>CPP-G |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
| Muara Tawar Blok 3&4               | PLTGU-M<br>CPP-F | 140,00                         | 140,00   | 140,00 | 140,00   | 140,00 | 140,00 |        |        |        |  | 6                                  | 840,00                                      |
|                                    | PLTGU-G<br>CPP-G |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
| UP Gresik 18 3.200                 |                  |                                |          |        |          |        |        |        |        |        |  | 1.971,00                           |                                             |
| Gresik                             | PLTG-M<br>GTPP-F | 15,50                          | 15,50    |        |          |        |        |        |        |        |  | 2                                  | 31,00                                       |
|                                    | PLTU-M<br>SPP-F  | 80,00                          | 80,00    | 170,00 | 170,00   |        |        |        |        |        |  | 4                                  | 500,00                                      |
|                                    | PLTU-G<br>SPP-G  |                                |          |        |          |        |        |        |        |        |  |                                    |                                             |
| Gresik GTG                         | PLTGU<br>CPP     | 100,00                         | 100,00   | 100,00 | 100,00   | 100,00 | 100,00 | 100,00 | 100,00 | 100,00 |  | 9                                  | 900,00                                      |
| Gresik STG                         | PLTGU<br>CPP     | 180,00                         | 180,00   | 180,00 |          |        |        |        |        |        |  | 3                                  | 540,00                                      |
| GLTMR                              | PLTG<br>GTPP     | -                              | -        |        |          |        |        |        |        |        |  |                                    | -                                           |
| Sutami                             |                  |                                |          |        |          |        |        |        |        |        |  | 102,99                             |                                             |
| Sutami                             | PLTA<br>HPP      | 34,33                          | 34,33    | 34,33  |          |        |        |        |        |        |  | 3                                  | 102,99                                      |
| UP Brantas 25 232                  |                  |                                |          |        |          |        |        |        |        |        |  | 153,41                             |                                             |
| Wlingi                             | PLTA   HPP       | 26,81                          | 26,81    |        |          |        |        |        |        |        |  | 2                                  | 53,62                                       |
| Lodoyo                             | PLTA   HPP       | -                              |          |        |          |        |        |        |        |        |  | 1                                  | -                                           |
| Selorejo                           | PLTA   HPP       | 4,71                           |          |        |          |        |        |        |        |        |  | 1                                  | 4,71                                        |
| Sengguruh                          | PLTA   HPP       | 14,23                          | 14,23    |        |          |        |        |        |        |        |  | 2                                  | 28,46                                       |
| Tulungagung                        | PLTA   HPP       | 17,86                          | 17,86    |        |          |        |        |        |        |        |  | 2                                  | 35,72                                       |
| Mendalan                           | PLTA   HPP       | 4,20                           | 5,50     | 5,50   | 5,50     |        |        |        |        |        |  | 4                                  | 20,70                                       |
| Siman                              | PLTA   HPP       | 3,40                           | 3,40     | 3,40   |          |        |        |        |        |        |  | 3                                  | 10,20                                       |
| Area IV                            |                  |                                |          |        |          |        |        |        |        |        |  | 7,99                               |                                             |
| Giringan                           | PLTA   HPP       | 0,88                           | 0,88     | 1,40   |          |        |        |        |        |        |  | 3                                  | 3,16                                        |
| Golang                             | PLTA   HPP       | 0,89                           | 0,89     | 0,89   |          |        |        |        |        |        |  | 3                                  | 2,67                                        |
| Ngebel                             | PLTA   HPP       | 2,16                           |          |        |          |        |        |        |        |        |  | 1                                  | 2,16                                        |
| UP Cirata                          |                  |                                |          |        |          |        |        |        |        |        |  | 948,00                             |                                             |
| Cirata                             | PLTA   HPP       | 118,50                         | 118,50   | 118,50 | 118,50   | 118,50 | 118,50 | 118,50 | 118,50 |        |  | 8                                  | 948,00                                      |
| UP Paiton                          |                  |                                |          |        |          |        |        |        |        |        |  | 740,00                             |                                             |
| Paiton                             | PLTU-B<br>SPP-C  | 370,00                         | 370,00   |        |          |        |        |        |        |        |  | 2                                  | 740,00                                      |
|                                    | PLTU-M<br>SPP-F  |                                |          |        |          |        |        |        |        |        |  | -                                  |                                             |
| Jumlah   Total                     |                  | 1.340,47                       | 1.334,90 | 981,02 | 1.024,00 | 657,50 | 495,50 | 218,50 | 219    | 100,00 |  | 71                                 | 6.370,39                                    |

tabel table **03** **Penyediaan Tenaga Listrik Tanjung Jati B dan Unit O&M yang dikelola IP dan PJB Tahun 2016**  
**Electricity Supply of Tanjung Jati B and O&M Unit managed by IP and PJB in 2016**

| Unit Pembangkit<br>Generating Unit                      |                 | Mesin Pembangkit   Power Plant |          |          |        |       |   |   |        |        | Jumlah<br>Unit<br>Total of<br>Unit | Jumlah<br>Kapasitas<br>Total of<br>Capacity |
|---------------------------------------------------------|-----------------|--------------------------------|----------|----------|--------|-------|---|---|--------|--------|------------------------------------|---------------------------------------------|
|                                                         |                 | 1                              | 2        | 3        | 4      | 5     | 6 | 7 | 8      | 9      |                                    |                                             |
|                                                         |                 | Kapasitas (MW)   Capacity (MW) |          |          |        |       |   |   |        |        |                                    |                                             |
| Tanjung Jati B                                          |                 |                                |          |          |        |       |   |   |        |        |                                    | 2.643,80                                    |
| Tanjung Jati B                                          | PLTU-B   SPP-B  | 660,80                         | 660,80   | 661,10   | 661,10 |       |   |   |        |        | 4                                  | 2.643,80                                    |
| Unit O&M yang dikelola IP*<br>Unit O&M managed by IP*   |                 |                                |          |          |        |       |   |   |        |        |                                    | 4.954,00                                    |
| Suralaya 8                                              | PLTU-B   SPP-B  |                                |          |          |        |       |   |   | 590    |        | 1                                  | 590,00                                      |
| Labuan                                                  | PLTU-B   SPP-B  | 280,00                         | 280,00   |          |        |       |   |   |        |        | 2                                  | 560,00                                      |
| Lontar                                                  | PLTU-B   SPP-B  | 280,00                         | 280,00   | 280,00   |        |       |   |   |        |        | 3                                  | 840,00                                      |
| Palabuhan Ratu                                          | PLTU-B   SPP-B  | 323,00                         | 323,00   | 323,00   |        |       |   |   |        |        | 3                                  | 969,00                                      |
| Adipala                                                 | PLTU-B   SPP-B  | 615,00                         |          |          |        |       |   |   |        |        | 1                                  | 615,00                                      |
| Priok Blok 3                                            | PLTGU-G   CPP-G | 235,00                         | 235,00   | 250,00   |        |       |   |   |        |        | 3                                  | 720,00                                      |
| Cilegon                                                 | PLTGU-G   CPP-G | 212,00                         | 212,00   | 236,00   |        |       |   |   |        |        | 3                                  | 660,00                                      |
| Unit O&M yang dikelola PJB*<br>Unit O&M managed by PJB* |                 |                                |          |          |        |       |   |   |        |        |                                    | 4.145,00                                    |
| Pacitan                                                 | PLTU-B   SPP-B  | 280,00                         | 280,00   |          |        |       |   |   |        |        | 2                                  | 560,00                                      |
| Tanjung Awar-awar                                       | PLTU-B   SPP-B  | 323,00                         | 323,00   |          |        |       |   |   |        |        | 2                                  | 646,00                                      |
| Rembang                                                 | PLTU-B   SPP-B  | 280,00                         | 280,00   |          |        |       |   |   |        |        | 2                                  | 560,00                                      |
| Indramayu                                               | PLTU-B   SPP-B  | 290,00                         | 290,00   | 290,00   |        |       |   |   |        |        | 3                                  | 870,00                                      |
| Paiton 9                                                | PLTU-B   SPP-B  |                                |          |          |        |       |   |   | 615,00 |        | 1                                  | 615,00                                      |
| Muara Karang Repowering                                 | PLTGU   CPP     | 235,00                         | 235,00   | 70,00    | 70     | 70    |   |   |        |        | 5                                  | 680,00                                      |
| Muara Tawar Blok 5                                      | PLTGU   CPP     | 143,00                         | 71,00    |          |        |       |   |   |        |        | 2                                  | 214,00                                      |
| Jumlah   Total                                          |                 | 4.156,80                       | 3.469,80 | 2.110,10 | 731,10 | 70,00 | - | - | 590    | 615,00 | 37                                 | 11.742,80                                   |

Keterangan:

\* Pada tahun 2016, Unit-unit yang sebelumnya dikelola oleh UPJB diubah menjadi dikelola oleh IP dan PJB sebagai Asset Manager.

Notes:

\* In 2016, Units previously managed by UPJB were managed by IP and PJB as Asset Manager.

 tabel table **04** **Penyediaan Tenaga Listrik IPP Tahun 2016**  
**Electricity Supply of IPP in 2016**

| Unit Pembangkit<br>Generating Unit  |                   | Mesin Pembangkit   Power Plant |        |       |        |       |       |        |     |   | Jumlah<br>Unit<br>Total of<br>Unit | Jumlah<br>Kapasitas<br>Total of<br>Capacity |
|-------------------------------------|-------------------|--------------------------------|--------|-------|--------|-------|-------|--------|-----|---|------------------------------------|---------------------------------------------|
|                                     |                   | 1                              | 2      | 3     | 4      | 5     | 6     | 7      | 8   | 9 |                                    |                                             |
|                                     |                   | Kapasitas (MW)   Capacity (MW) |        |       |        |       |       |        |     |   |                                    |                                             |
| Perum Jasa Tirta II                 |                   |                                |        |       |        |       |       |        |     |   |                                    | 180,00                                      |
| Jatiluhur                           | PLTA   HPP        | 30,00                          | 30,00  | 30,00 | 30,00  | 30,00 | 30,00 |        |     |   | 6                                  | 180,00                                      |
| PT Geo Dipa Energy                  |                   |                                |        |       |        |       |       |        |     |   |                                    | 100,00                                      |
| Dieng                               | PLTP   GPP        | 45,00                          |        |       |        |       |       |        |     |   | 1                                  | 45,00                                       |
| Patuha                              | PLTP   GPP        | 55,00                          |        |       |        |       |       |        |     |   | 1                                  | 55,00                                       |
| PT Dayabumi Salak Pratama Ltd       |                   |                                |        |       |        |       |       |        |     |   |                                    | 183,00                                      |
| Salak                               | PLTP   GPP        |                                |        |       | 61,00  | 61,00 | 61,00 |        |     |   | 3                                  | 183,00                                      |
| PT Magma Nusantara Listrindo        |                   |                                |        |       |        |       |       |        |     |   |                                    | 226,60                                      |
| Wayangwindu                         | PLTP   GPP        | 112,57                         | 114,03 |       |        |       |       |        |     |   | 2                                  | 226,60                                      |
| Chevron Texaco Energy Indonesia Ltd |                   |                                |        |       |        |       |       |        |     |   |                                    | 196,04                                      |
| Drajat II                           | PLTP   GPP        |                                |        | 90,24 |        |       |       |        |     | 1 | 90,24                              |                                             |
| Drajat III                          | PLTP   GPP        |                                |        |       | 105,80 |       |       |        |     | 1 | 105,80                             |                                             |
| PT Paiton Energy (PEC)              |                   |                                |        |       |        |       |       |        |     |   |                                    | 2.035,00                                    |
| Paiton 7,8                          | PLTU-B   SPP-C    |                                |        | 815   |        |       |       | 610,00 | 610 | 3 | 2.035,00                           |                                             |
| PT Jawa Power                       |                   |                                |        |       |        |       |       |        |     |   |                                    | 1.220,00                                    |
| Paiton 5,6                          | PLTU-B   SPP-C    |                                |        |       |        | 610   | 610   |        |     |   | 2                                  | 1.220,00                                    |
| PT Cikarang Listrindo Power Company |                   |                                |        |       |        |       |       |        |     |   |                                    | 300,00                                      |
| Cikarang                            | PLTG-G   GTPP - G | 300,00                         |        |       |        |       |       |        |     | 1 | 300,00                             |                                             |
| PT Sumberenergi Sakti Prima         |                   |                                |        |       |        |       |       |        |     |   |                                    | 1.176,00                                    |
| Cilacap                             | PLTU-B   SPP-C    | 281,00                         | 281,00 | 614   |        |       |       |        |     | 3 | 1.176,00                           |                                             |
| PT Pertamina                        |                   |                                |        |       |        |       |       |        |     |   |                                    | 93,85                                       |
| Kamojang IV                         | PLTP   GPP        |                                |        |       | 60,85  | 33    |       |        |     | 2 | 93,85                              |                                             |
| CEP                                 |                   |                                |        |       |        |       |       |        |     |   |                                    | 660,00                                      |
| Cirebon                             | PLTU-B   SPP-C    | 660,00                         |        |       |        |       |       |        |     |   | 1                                  | 660,00                                      |
| Bekasi Power                        |                   |                                |        |       |        |       |       |        |     |   |                                    | 118,80                                      |
| Bekasi Power                        | PLTGU   CPP       | 118,80                         |        |       |        |       |       |        |     | 1 | 118,80                             |                                             |
| PT General Energy Bali              |                   |                                |        |       |        |       |       |        |     |   |                                    | 380,00                                      |
| Celukan Bawang                      | PLTGU   CPP       | 125,00                         | 125    | 130   |        |       |       |        |     | 3 | 380,00                             |                                             |
| Jumlah   Total                      |                   | 1.727                          | 640    | 1.695 | 152    | 734   | 701   | 610    | 610 | 0 | 31                                 | 6.869,29                                    |

## Pengiriman Energi Energy Transfer

tabel table  
**05**

**Pengiriman Energi ke Sistem Jawa Bali Tahun 2012-2016**  
Energy Transferred to Java Bali System in 2012-2016

| Perusahaan<br>Company                        | Tahun   Year   |            |                |            |                |            |                |            |                |            |
|----------------------------------------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
|                                              | 2012           |            | 2013           |            | 2014           |            | 2015           |            | 2016           |            |
|                                              | GWh            | (%)        | GWh            | (%)        | GWh            | (%)        | GWh            | (%)        | GWh            | (%)        |
| PT Indonesia Power                           | 37.936         | 26,00      | 40.608         | 25,96      | 37.928         | 23,10      | 38.129         | 22,97      | 41.405         | 23,65      |
| PT PJB                                       | 26.672         | 18,28      | 27.549         | 17,61      | 29.742         | 18,12      | 25.485         | 15,35      | 25.816         | 14,74      |
| UB Tanjung Jati B                            | 17.011         | 11,66      | 18.549         | 11,86      | 18.132         | 11,04      | 17.507         | 10,55      | 16.941         | 9,68       |
| UB Lontar*                                   | 2.036          | 1,40       | 2.957          | 1,89       | -              | -          | -              | -          | -              | -          |
| IPP                                          | 36.655         | 25,12      | 38.461         | 24,59      | 39.563         | 24,10      | 41.275         | 24,87      | 43.542         | 24,87      |
| UPJB***                                      | 25.600         | 17,55      | 28.274         | 18,08      | 38.801         | 23,64      | 43.575         | 26,25      | -              | -          |
| Project**                                    | -              | -          | -              | -          | -              | -          | 22             | 0,01       | -              | -          |
| Unit O&M dikelola oleh IP***                 | -              | -          | -              | -          | -              | -          | -              | -          | 25.480         | 14,55      |
| Unit O&M managed by IP***                    | -              | -          | -              | -          | -              | -          | -              | -          | -              | -          |
| Unit O&M dikelola oleh PJB***                | -              | -          | -              | -          | -              | -          | -              | -          | 21.911         | 12,51      |
| Unit O&M managed by PJB***                   | -              | -          | -              | -          | -              | -          | -              | -          | -              | -          |
| <b>Sistem Jawa Bali<br/>Java Bali System</b> | <b>145.910</b> | <b>100</b> | <b>156.398</b> | <b>100</b> | <b>164.167</b> | <b>100</b> | <b>165.993</b> | <b>100</b> | <b>175.094</b> | <b>100</b> |

**Keterangan:**

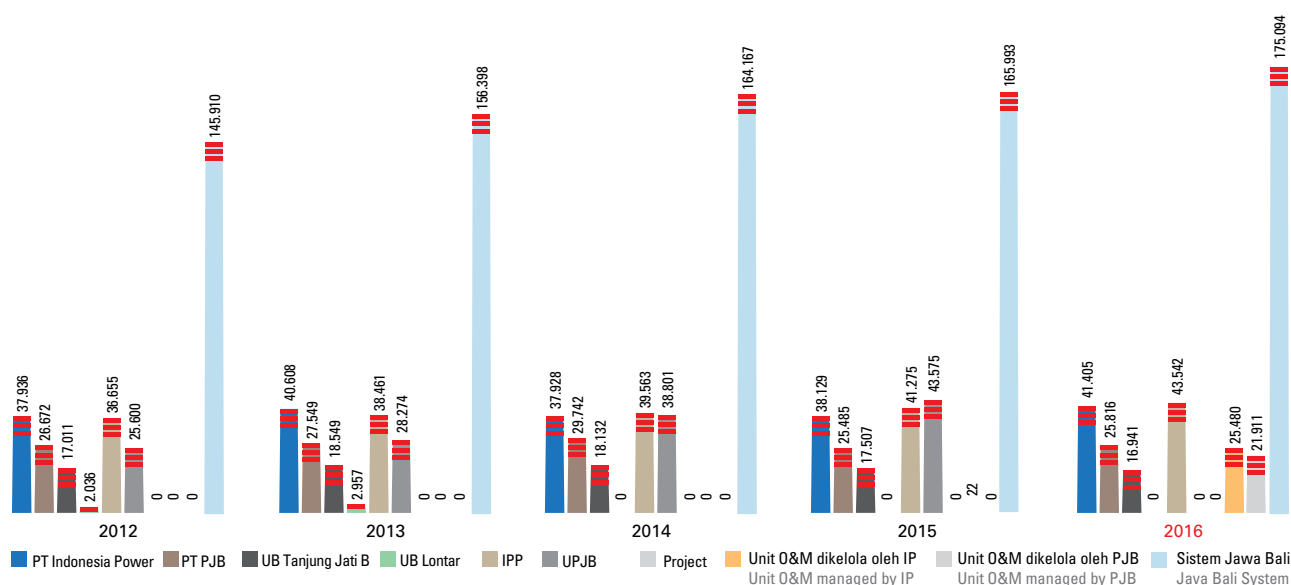
\* Pada tahun 2013, UB Lontar meliputi PLTU Pacitan, Palabuhan Ratu, dan Tanjung Awar-awar dan di tahun 2014 UB Lontar masuk ke dalam UPJB.  
\*\* Tahun 2015 telah masuk PLTP Kamojang 5 dan PLTU Celukan Bawang (IPP).  
\*\*\* Unit-unit UPJB tahun 2016 dikelola oleh IP dan PJB sebagai Asset Manajer.

**Notes:**

\* In 2013, UB Lontar included Pacitan SPP, Palabuhan Ratu and Tanjung Awar-awar and in 2014 UB Lontar was included in UPJB.  
\*\* In 2015 Kamojang 5 GPP and Celukan Bawang SPP (IPP) was included.  
\*\*\* UPJB Units in 2016 were managed by IP and PJB as Asset Manager.

grafik graph  
**02**

**Pengiriman Energi ke Sistem Jawa Bali Tahun 2012-2016**  
Energy Transferred to Java Bali System in 2012-2016



tabel table

06

## Realisasi Pengiriman Energi ke Sistem Jawa Bali Tahun 2015-2016 dan Rencana Tahun 2017

Realization of Energy Transferred to Java Bali System in 2015-2016 and Plan of 2017

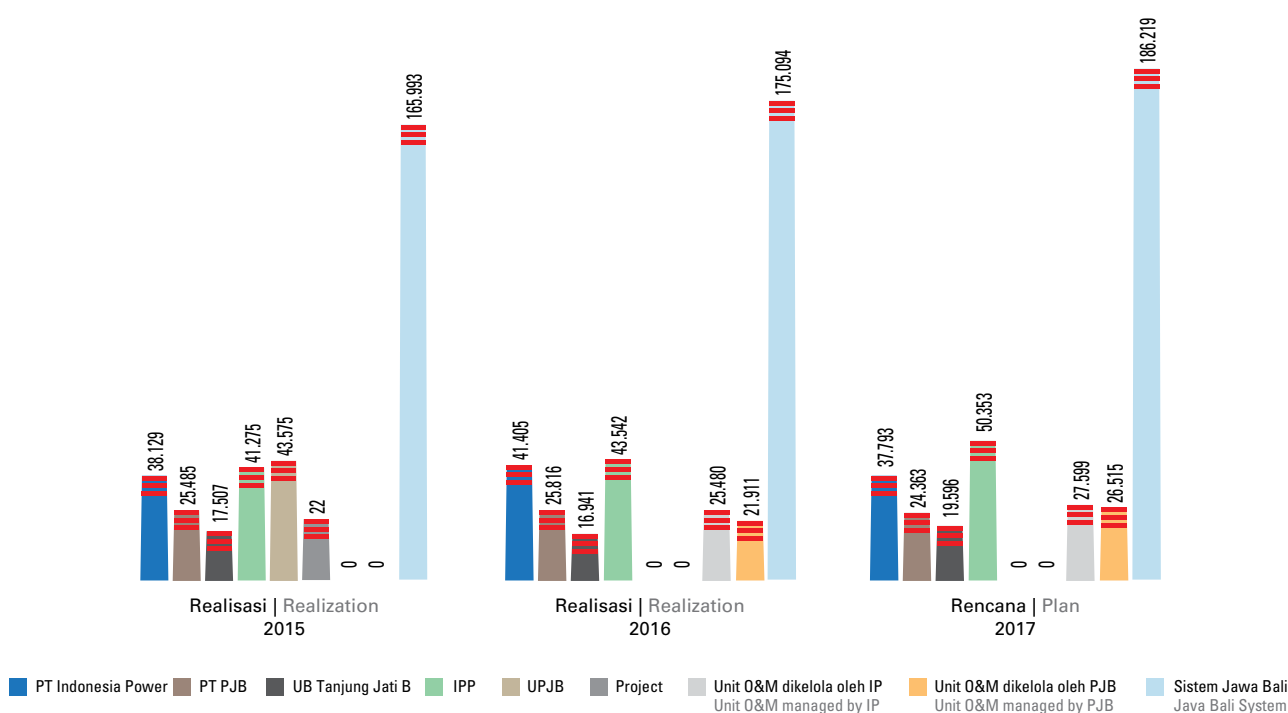
| Perusahaan<br>Company                                   | Realisasi<br>Realization<br>(GWh) | Rencana<br>Plan<br>(GWh) | Realisasi<br>Realization<br>(GWh) | Pencapaian<br>Achievement<br>(%) | Rencana<br>Plan<br>(GWh) | Pertumbuhan<br>2016 terhadap<br>2015 (%)<br>Growth 2016<br>to 2015 (%) |
|---------------------------------------------------------|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|--------------------------|------------------------------------------------------------------------|
|                                                         | 2015                              | 2016                     |                                   |                                  | 2017                     |                                                                        |
| PT Indonesia Power                                      | 38.129                            | 36.215                   | 41.405                            | 87,47                            | 37.793                   | 8,59                                                                   |
| PT PJB                                                  | 25.485                            | 23.463                   | 25.816                            | 90,89                            | 24.363                   | 1,30                                                                   |
| UB Tanjung Jati B                                       | 17.507                            | 19.209                   | 16.941                            | 113,39                           | 19.596                   | (3,23)                                                                 |
| IPP                                                     | 41.275                            | 45.345                   | 43.542                            | 104,14                           | 50.353                   | 5,49                                                                   |
| UPJB                                                    | 43.575                            | 51.461                   | -                                 | -                                | -                        | (100,00)                                                               |
| Project                                                 | 22                                | -                        | -                                 | -                                | -                        | (100,00)                                                               |
| Unit O&M dikelola oleh IP   Unit O&M<br>managed by IP   | -                                 | -                        | 25.480                            | -                                | 27.599                   | -                                                                      |
| Unit O&M dikelola oleh PJB   Unit O&M<br>managed by PJB | -                                 | -                        | 21.911                            | -                                | 26.515                   | -                                                                      |
| <b>Sistem Jawa Bali   Java Bali System</b>              | <b>165.993</b>                    | <b>175.692</b>           | <b>175.094</b>                    | <b>100,34</b>                    | <b>186.219</b>           | <b>5,48</b>                                                            |

grafik graph

03

## Realisasi Pengiriman Energi ke Sistem Jawa Bali Tahun 2015-2016 dan Rencana Tahun 2017 (GWh)

Realization of Energy Transferred to Java Bali System in 2015-2016 and Plan of 2017 (GWh)





**Daya Terpasang  
Installed Capacity**

## Daya Terpasang Pembangkit Installed Capacity of Units

 tabel table  
**07**
**Daya Terpasang Pembangkit yang Dimiliki Perusahaan Tahun 2012-2016**  
**Installed Capacity of Units Owned by the Company in 2012-2016**

| Unit                       | 2012            |            | 2013            |            | 2014            |            | 2015            |            | 2016            |            |
|----------------------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|
|                            | MW              | %          | MW              | %          | MW              | %          | MW              | %          | MW              | %          |
| Suralaya <sup>*)</sup>     | 3.400,00        | 37,62      | 3.400,00        | 37,71      | 3.400,00        | 37,85      | 3.400,00        | 37,32      | 3.400,00        | 37,95      |
| Priok <sup>*)</sup>        | 1.348,08        | 14,92      | 1.348,08        | 14,95      | 1.348,08        | 15,01      | 1.348,08        | 14,80      | 1.196,08        | 13,35      |
| Saguling <sup>*)</sup>     | 797,36          | 8,82       | 797,36          | 8,84       | 797,36          | 8,88       | 797,36          | 8,75       | 797,36          | 8,90       |
| Kamojang <sup>*)</sup>     | 375,00          | 4,15       | 375,00          | 4,16       | 375,00          | 4,17       | 345,00          | 3,79       | 345,00          | 3,85       |
| Mrica <sup>*)</sup>        | 309,74          | 3,43       | 309,74          | 3,44       | 309,74          | 3,45       | 309,74          | 3,40       | 309,74          | 3,46       |
| Semarang <sup>*)</sup>     | 1.408,93        | 15,59      | 1.408,93        | 15,63      | 1.408,93        | 15,69      | 1.408,93        | 15,46      | 1.408,93        | 15,73      |
| Perak Grati <sup>*)</sup>  | 864,08          | 9,56       | 864,08          | 9,58       | 864,08          | 9,62       | 864,08          | 9,48       | 864,08          | 9,65       |
| Bali <sup>*)</sup>         | 432,67          | 4,79       | 432,67          | 4,80       | 398,31          | 4,43       | 556,48          | 6,11       | 556,48          | 6,21       |
| Keramasan <sup>**)</sup>   | 20,10           | 0,22       | 18,00           | 0,20       | 18,00           | 0,20       | 18,00           | 0,20       | 18,00           | 0,20       |
| Jambi <sup>**)</sup>       | 20,10           | 0,22       | 18,00           | 0,20       | 18,00           | 0,20       | 18,00           | 0,20       | 18,00           | 0,20       |
| Indralaya 1 <sup>**)</sup> | 48,80           | 0,54       | 45,00           | 0,50       | 45,00           | 0,50       | 45,00           | 0,49       | 45,00           | 0,50       |
| Pontianak <sup>**)</sup>   | 13,00           | 0,14       | -               | -          | -               | -          | -               | -          | -               | -          |
| <b>TOTAL</b>               | <b>9.037,86</b> | <b>100</b> | <b>9.016,86</b> | <b>100</b> | <b>8.982,50</b> | <b>100</b> | <b>9.110,68</b> | <b>100</b> | <b>8.958,68</b> | <b>100</b> |

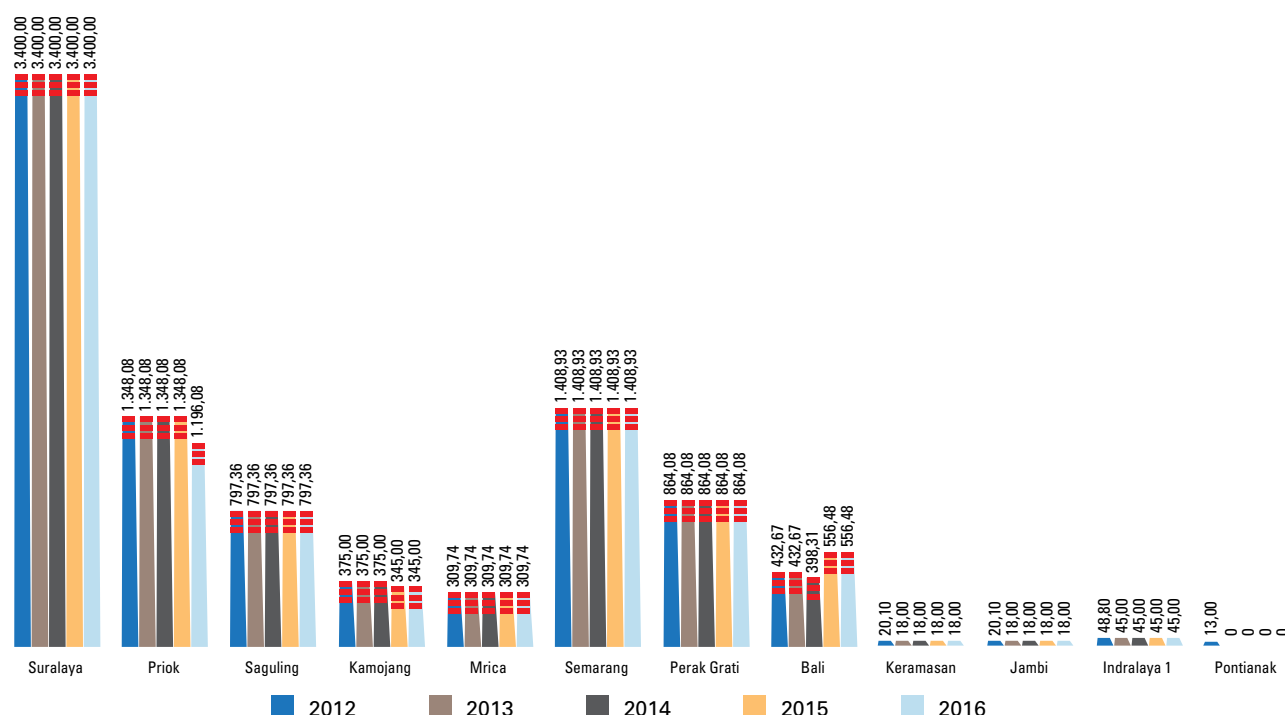
<sup>\*)</sup> Indonesia Power bertindak sebagai pemilik aset (*asset owner*) dan pengelola aset (*asset manager* dan *asset operator*) pembangkit tersebut.

<sup>\*)</sup> Indonesia Power acted as Asset Owner and Asset Manager of the power plant.

<sup>\*\*)</sup> Indonesia Power bertindak sebagai pemilik aset (*asset owner*) pembangkit tersebut sedangkan pengelola aset (*asset manager* dan *asset operator*) pembangkit dilakukan oleh anak perusahaan yaitu PT Cogindo DayaBersama.

<sup>\*\*)</sup> Indonesia Power acted as Asset Owner of the power plant while Asset Management was conducted by its subsidiary, PT Cogindo DayaBersama.

grafik graph

**04**
**Daya Terpasang Pembangkit yang Dimiliki Perusahaan Tahun 2012-2016 (MW)**  
**Installed Capacity of Units Owned by the Company in 2012-2016 (MW)**




tabel table  
**08**

**Daya Terpasang Pembangkit Jasa Operation & Maintenance (O&M) Perusahaan Tahun 2012-2016**  
Installed Capacity of Units Operation & Maintenance (O&M) Services the Company in 2012-2016

| Unit                       | 2012         |            | 2013         |            | 2014         |            | 2015         |            | 2016         |            |
|----------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|                            | MW           | %          | MW           | %          | MW           | %          | MW           | %          | MW           | %          |
| Suralaya 8                 | 625          | 19,41      | 625          | 16,11      | 625          | 12,00      | 625          | 12,00      | 625          | 10,51      |
| Labuan                     | 600          | 18,63      | 600          | 15,46      | 600          | 11,52      | 600          | 11,52      | 600          | 10,09      |
| Lontar                     | 945          | 29,35      | 945          | 24,36      | 945          | 18,14      | 945          | 18,14      | 945          | 15,89      |
| Palabuhan Ratu             | 1.050        | 32,61      | 1.050        | 27,06      | 1.050        | 20,16      | 1.050        | 20,16      | 1.050        | 17,65      |
| Adipala                    |              |            | 660          | 17,01      | 660          | 12,67      | 660          | 12,67      | 660          | 11,10      |
| Priok Blok 3 <sup>*)</sup> |              |            |              |            | 740          | 14,21      | 740          | 14,21      | 740          | 12,44      |
| Pangkalan Susu             |              |            |              |            | 440          | 8,45       | 440          | 8,45       | 440          | 7,40       |
| Barru                      |              |            |              |            | 100          | 1,92       | 100          | 1,92       | 100          | 1,68       |
| Jeranjang                  |              |            |              |            | 25           | 0,48       | 25           | 0,48       | 25           | 0,42       |
| Sanggau                    |              |            |              |            | 14           | 0,27       | 14           | 0,27       | 14           | 0,24       |
| Ulumbu <sup>*)</sup>       |              |            |              |            | 10           | 0,19       | 10           | 0,19       | 10           | 0,17       |
| Cilegon                    |              |            |              |            |              |            |              |            | 739,4        | 12,43      |
| <b>Total</b>               | <b>3.220</b> | <b>100</b> | <b>3.880</b> | <b>100</b> | <b>5.209</b> | <b>100</b> | <b>5.209</b> | <b>100</b> | <b>5.948</b> | <b>100</b> |

\*) PLTGU Priok Blok 3 merupakan unit jasa O&M di bawah pengelolaan UPJP Priok dan PLTP Ulumbu merupakan unit jasa O&M dibawah pengelolaan UPJP Kamojang.

Indonesia Power bertindak sebagai pengelola aset (*asset manager* dan *asset operator*) pembangkit dimana pemilik aset (*asset owner*) pembangkit adalah PT PLN (Persero).

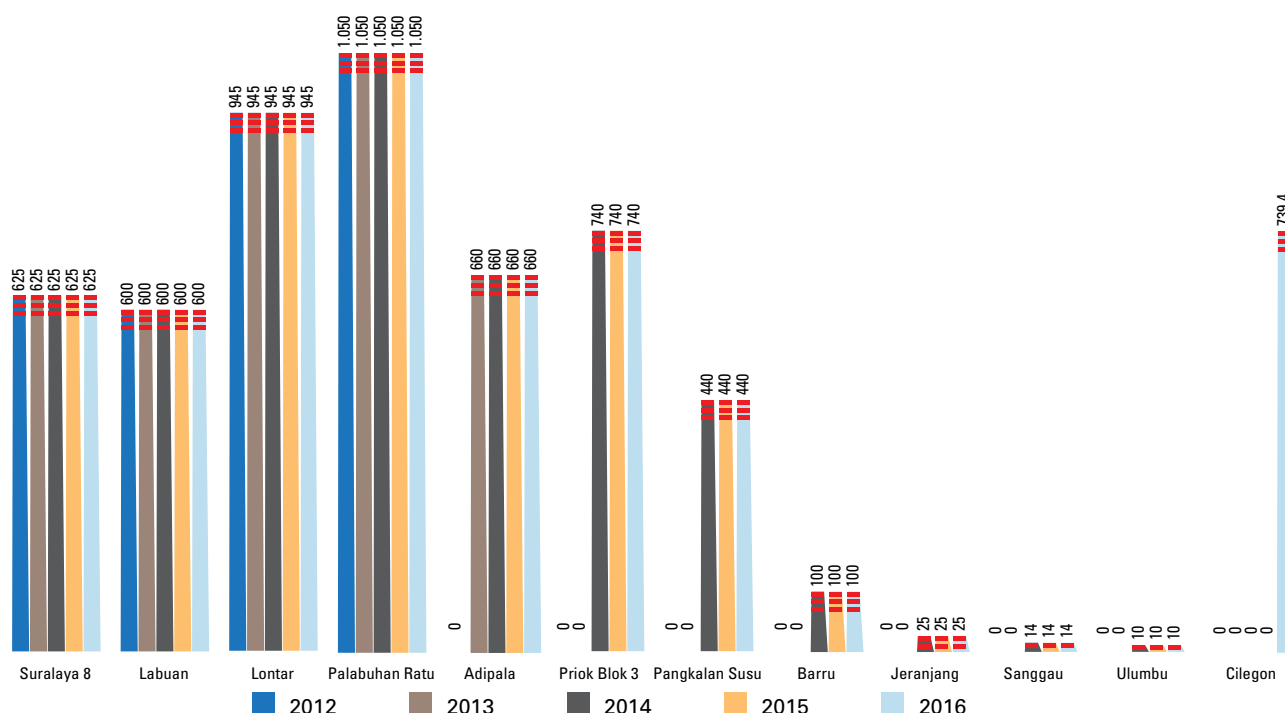
\*) Priok Block 3 CPP was O&M unit service under management of UPJP Priok and Ulumbu GPP was O&M unit service under management of UPJP Kamojang.

Indonesia Power acted as Asset Manager of the power plant whereas PT PLN (Persero) was the Asset Owner.

grafik graph

**05**

**Daya Terpasang Pembangkit Jasa Operation & Maintenance (O&M) Perusahaan Tahun 2012-2016 (MW)**  
Installed Capacity of Units Operation & Maintenance (O&M) Services the Company in 2012-2016 (MW)



tabel table

09

## Daya Terpasang Pembangkit Tahun 2016

Installed Capacity of Units in 2016

| Unit                |                 | Mesin Pembangkit   Power Plant |        |        |        |        |        |        |        |       |       |       |       | Jumlah   Total |                                   |
|---------------------|-----------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|----------------|-----------------------------------|
|                     |                 | 1                              | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9     | 10    | 11    | 12    | Mesin Power    | Daya Terpasang Installed Capacity |
|                     |                 | Kapasitas(MW)   Capacity(MW)   |        |        |        |        |        |        |        |       |       |       |       |                |                                   |
| Suralaya            |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 7              | 3.400,00                          |
| PLTU-B   SPP-C      | Suralaya 1 - 4  | 400,00                         | 400,00 | 400,00 | 400,00 |        |        |        |        |       |       |       |       | 4              | 1.600,00                          |
| PLTU-B   SPP-C      | Suralaya 5 - 7  | 600,00                         | 600,00 | 600,00 |        |        |        |        |        |       |       |       |       | 3              | 1.800,00                          |
| Priok               |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 17             | 1.936,08                          |
| PLTD-M   DPP-F      | Kebayoran       | 2,52                           | 3,00   | 2,52   | 2,52   | 2,52   | 3,00   |        |        |       |       |       |       | 6              | 16,08                             |
| PLTGU-G/M   CPP-G/F | Priok           | 130,00                         | 130,00 | 130,00 | 200,00 | 130,00 | 130,00 | 130,00 | 200,00 |       |       |       |       | 8              | 1.180,00                          |
| PLTGU-G   CPP-G     | Priok Blok 3    | 240,00                         | 240,00 | 260,00 |        |        |        |        |        |       |       |       |       | 3              | 740,00                            |
| Saguling            |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 29             | 797,36                            |
| PLTA   HPP          | Saguling        | 175,18                         | 175,18 | 175,18 | 175,18 |        |        |        |        |       |       |       |       | 4              | 700,72                            |
| PLTA   HPP          | Bengkong        | 1,05                           | 1,05   | 1,05   | 0,70   |        |        |        |        |       |       |       |       | 4              | 3,85                              |
| PLTA   HPP          | Plengan         | 1,08                           | 1,08   | 1,08   | 2,02   | 1,61   |        |        |        |       |       |       |       | 5              | 6,87                              |
| PLTA   HPP          | Lamajan         | 6,52                           | 6,52   | 6,52   |        |        |        |        |        |       |       |       |       | 3              | 19,56                             |
| PLTA   HPP          | Cikalong        | 6,40                           | 6,40   | 6,40   |        |        |        |        |        |       |       |       |       | 3              | 19,20                             |
| PLTA   HPP          | Ubrug           | 5,94                           | 5,94   | 6,48   |        |        |        |        |        |       |       |       |       | 3              | 18,36                             |
| PLTA   HPP          | Kracak          | 6,30                           | 6,30   | 6,30   |        |        |        |        |        |       |       |       |       | 3              | 18,90                             |
| PLTA   HPP          | Parakan Kondang | 2,49                           | 2,49   | 2,46   | 2,46   |        |        |        |        |       |       |       |       | 4              | 9,90                              |
| Kamojang            |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 10             | 355,00                            |
| PLTP   GPP          | Kamojang        | -                              | 55,00  | 55,00  |        |        |        |        |        |       |       |       |       | 2              | 110,00                            |
| PLTP   GPP          | Gunung Salak    | 60,00                          | 60,00  | 60,00  |        |        |        |        |        |       |       |       |       | 3              | 180,00                            |
| PLTP   GPP          | Darajad         | 55,00                          |        |        |        |        |        |        |        |       |       |       |       | 1              | 55,00                             |
| PLTP   GPP          | Ulumbu          | 2,50                           | 2,50   | 2,50   | 2,50   |        |        |        |        |       |       |       |       | 4              | 10,00                             |
| Mrica               |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 28             | 309,74                            |
| PLTA   HPP          | PB. Sudirman    | 60,30                          | 60,30  | 60,30  |        |        |        |        |        |       |       |       |       | 3              | 180,90                            |
| PLTA   HPP          | Jelok           | 5,12                           | 5,12   | 5,12   | 5,12   |        |        |        |        |       |       |       |       | 4              | 20,48                             |
| PLTA   HPP          | Timo            | 4,00                           | 4,00   | 4,00   |        |        |        |        |        |       |       |       |       | 3              | 12,00                             |
| PLTA   HPP          | Wonogiri        | 6,20                           | 6,20   |        |        |        |        |        |        |       |       |       |       | 2              | 12,40                             |
| PLTA   HPP          | Garung          | 13,20                          | 13,20  |        |        |        |        |        |        |       |       |       |       | 2              | 26,40                             |
| PLTA   HPP          | Sempor          | 1,00                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,00                              |
| PLTA   HPP          | Ketenger        | 3,52                           | 3,52   | 1,00   | 0,50   |        |        |        |        |       |       |       |       | 4              | 8,54                              |
| PLTA   HPP          | Wadaslintang    | 9,00                           | 9,00   |        |        |        |        |        |        |       |       |       |       | 2              | 18,00                             |
| PLTA   HPP          | Kedungombo      | 22,50                          |        |        |        |        |        |        |        |       |       |       |       | 1              | 22,50                             |
| PLTA   HPP          | Kelambu         | 1,17                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,17                              |
| PLTA   HPP          | Pejengkolan     | 1,40                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,40                              |
| PLTA   HPP          | Sidorejo        | 1,40                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,40                              |
| PLTA   HPP          | Tapen           | 0,75                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 0,75                              |
| PLTA   HPP          | Siteki          | 1,20                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,20                              |
| PLTA   HPP          | Plumbungan      | 1,60                           |        |        |        |        |        |        |        |       |       |       |       | 1              | 1,60                              |
| Semarang            |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 17             | 1.408,93                          |
| PLTGU-G/M   CPP-G/F | Tambaklorok     | 109,65                         | 109,65 | 109,65 | 188,00 | 109,65 | 109,65 | 109,65 | 188,00 |       |       |       |       | 8              | 1.033,90                          |
| PLTU-M   SPP-F      | Tambaklorok     | 50,00                          | 50,00  | 200,00 |        |        |        |        |        |       |       |       |       | 3              | 300,00                            |
| PLTG-M   GTPP-F     | Cilacap         | 29,00                          | 26,00  |        |        |        |        |        |        |       |       |       |       | 2              | 55,00                             |
| PLTG-G   GTPP-G     | Sunyaragi       | -                              | 20,03  | -      | -      |        |        |        |        |       |       |       |       | 4              | 20,03                             |
| Perak Grati         |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 9              | 864,08                            |
| PLTGU   CPP         | Grati           | 100,75                         | 100,75 | 100,75 | 159,58 |        |        |        |        |       |       |       |       | 4              | 461,83                            |
| PLTG-G   GTPP-G     | Grati           | 100,75                         | 100,75 | 100,75 |        |        |        |        |        |       |       |       |       | 3              | 302,25                            |
| PLTU-M   SPP-F      | Perak           | 50,00                          | 50,00  |        |        |        |        |        |        |       |       |       |       | 2              | 100,00                            |
| Bali                |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 19             | 556,51                            |
| PLTDG   DGPP        | Pesanggaran     | 16,64                          | 16,64  | 16,64  | 16,64  | 16,64  | 16,64  | 16,64  | 16,64  | 16,64 | 16,64 | 16,64 | 16,64 | 12             | 199,66                            |
| PLTG-M   GTPP-F     | Pesanggaran     | 21,35                          | 20,10  | 42,00  | 42,00  |        |        |        |        |       |       |       |       | 4              | 125,45                            |
| PLTG-M   GTPP-F     | Gilimanuk       | 133,80                         |        |        |        |        |        |        |        |       |       |       |       | 1              | 133,80                            |
| PLTG-M   GTPP-F     | Pemaron         | 48,80                          | 48,80  |        |        |        |        |        |        |       |       |       |       | 2              | 97,60                             |
| Suralaya 8          |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 1              | 625,00                            |
| PLTU-B   SPP-C      | Suralaya 8      |                                |        |        |        |        |        | 625,00 |        |       |       |       |       | 1              | 625,00                            |
| Labuan              |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 2              | 600,00                            |
| PLTU-B   SPP-C      | Labuan          | 300,00                         | 300,00 |        |        |        |        |        |        |       |       |       |       | 2              | 600,00                            |
| Lontar              |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 3              | 945,00                            |
| PLTU-B   SPP-C      | Lontar          | 315,00                         | 315,00 | 315,00 |        |        |        |        |        |       |       |       |       | 3              | 945,00                            |
| Palabuhan Ratu      |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 3              | 1.050,00                          |
| PLTU-B   SPP-C      | Palabuhan Ratu  | 350,00                         | 350,00 | 350,00 |        |        |        |        |        |       |       |       |       | 3              | 1.050,00                          |
| Adipala             |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 1              | 660,00                            |
| PLTU-B   SPP-C      | Adipala         | 660,00                         |        |        |        |        |        |        |        |       |       |       |       | 1              | 660,00                            |
| Pangkalan Susu      |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 2              | 440,00                            |
| PLTU-B   SPP-C      | Pangkalan Susu  | 220,00                         | 220,00 |        |        |        |        |        |        |       |       |       |       | 2              | 440,00                            |
| Cilegon             |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 3              | 739,40                            |
| PLTGU-B   CPP-C     | Cilegon         | 238,50                         | 238,50 | 262,40 |        |        |        |        |        |       |       |       |       | 3              | 739,40                            |
| Baru                |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 2              | 100,00                            |
| PLTU-B   SPP-C      | Baru            | 50,00                          | 50,00  |        |        |        |        |        |        |       |       |       |       | 2              | 100,00                            |
| Jeranjang           |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 1              | 25,00                             |
| PLTU-B   SPP-C      | Jeranjang       | -                              | -      | 25,00  |        |        |        |        |        |       |       |       |       | 1              | 25,00                             |
| Sanggau             |                 |                                |        |        |        |        |        |        |        |       |       |       |       | 2              | 14,00                             |
| PLTU-B   SPP-C      | Sanggau         | 7,00                           | 7,00   |        |        |        |        |        |        |       |       |       |       | 2              | 14,00                             |

tabel table

10

## Daya Terpasang Pembangkit dari Pembelian Tenaga Listrik Tahun 2012-2016

Installed Capacity of Units Owned by the Purchase of Electricity in 2012-2016

| Unit        | 2012   |       | 2013   |       | 2014   |       | 2015   |       | 2016  |       |
|-------------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|
|             | MW     | %     | MW     | %     | MW     | %     | MW     | %     | MW    | %     |
| Pesanggaran | 91,50  | 42,26 | 205,10 | 60,70 | 261,69 | 65,54 | 216,10 | 97,83 | 65,00 | 89,04 |
| Pemaron     | 125,00 | 57,74 | 132,80 | 39,30 | 132,80 | 33,26 | -      | -     | -     | -     |
| Nusa Penida | -      | -     | -      | -     | 4,80   | 1,20  | 4,80   | 2,17  | 8,00  | 10,96 |
| TOTAL       | 216,50 | 100   | 337,90 | 100   | 399,29 | 100   | 220,90 | 100   | 73,00 | 100   |



**Produksi, Penjualan dan Pemakaian Sendiri**  
**Production, Sales and Self Consumption**

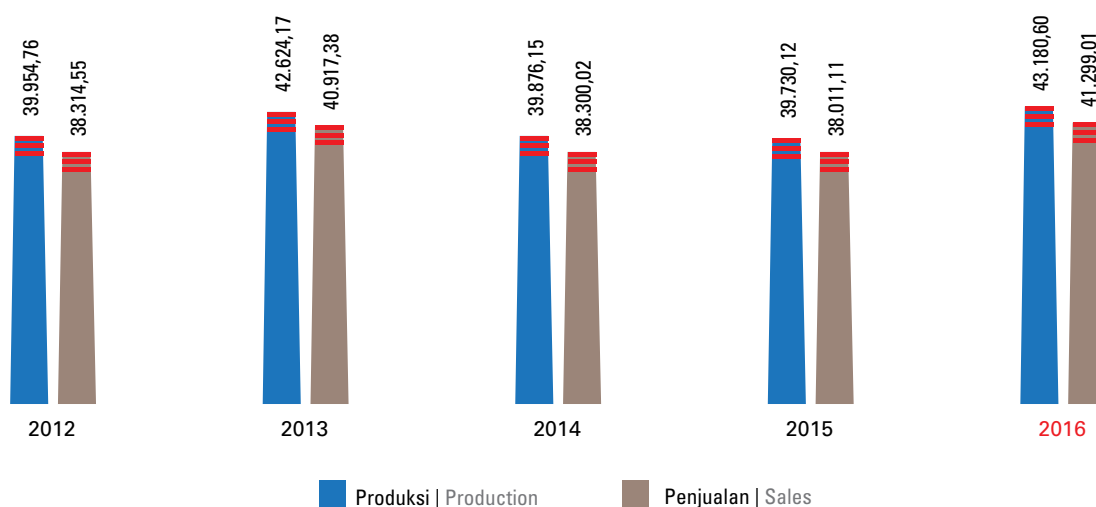
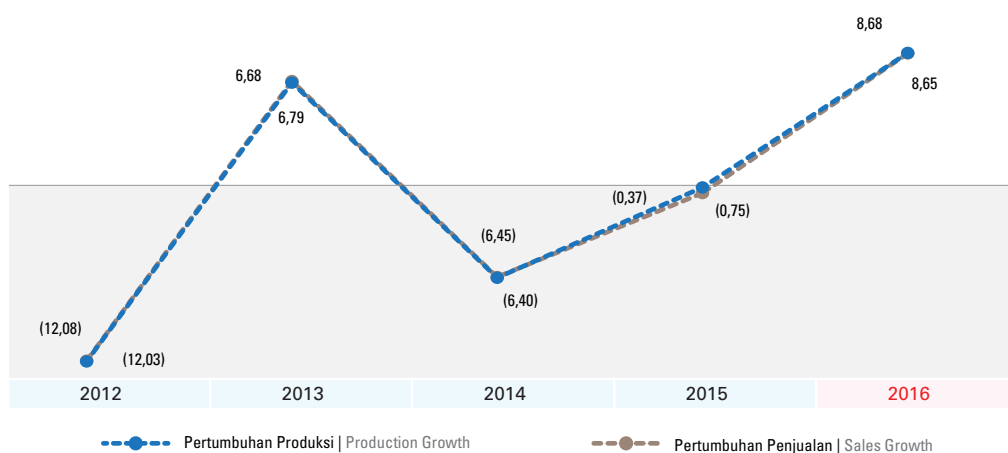


## Produksi, Penjualan dan Pemakaian Sendiri

### Production, Sales and Self Consumption

 tabel table  
**11**
**Pertumbuhan Produksi, Penjualan dan Pemakaian Sendiri Tahun 2012-2016**  
 Production Growth, Sales and Self Consumption Growth in 2012-2016

| Uraian   Description                         | Realisasi   Realization |           |           |           |           |
|----------------------------------------------|-------------------------|-----------|-----------|-----------|-----------|
|                                              | 2012                    | 2013      | 2014      | 2015      | 2016      |
| Produksi   Production (GWh)                  | 39.954,76               | 42.624,17 | 39.876,15 | 39.730,12 | 43.180,60 |
| Pertumbuhan produksi   Production Growth (%) | (12,08)                 | 6,68      | (6,45)    | (0,37)    | 8,68      |
| Penjualan   Sales (GWh)                      | 38.314,55               | 40.917,38 | 38.300,02 | 38.011,11 | 41.299,01 |
| Pertumbuhan Penjualan   Sales Growth (%)     | (12,03)                 | 6,79      | (6,40)    | (0,75)    | 8,65      |
| Pemakaian Sendiri   Self Consumption (GWh)   | 1.632,21                | 1.698,97  | 1.568,70  | 1.718,37  | 1.879,33  |

 grafik graph  
**06**
**Produksi dan Penjualan Tahun 2012-2016 (GWh)**  
 Production and Sales in 2012-2016 (GWh)

 grafik graph  
**07**
**Pertumbuhan Produksi dan Penjualan Tahun 2012-2016 (%)**  
 Growth of Production and Sales in 2012-2016 (%)


## Produksi Per Unit Production Based on Unit

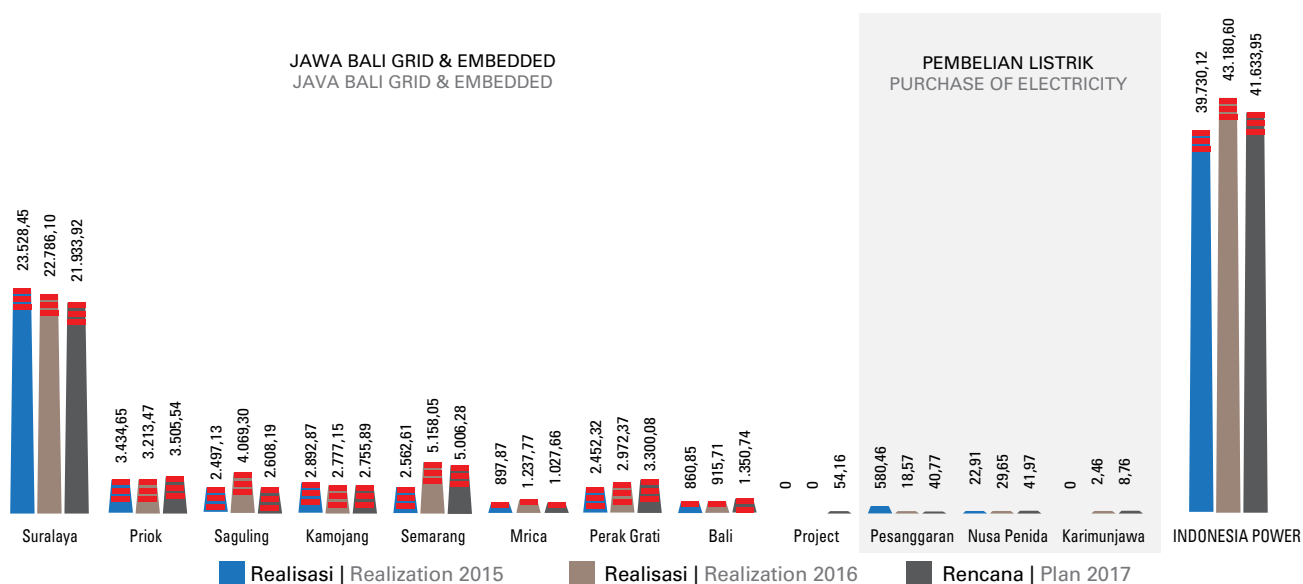
tabel table  
**12**

Realisasi Produksi Tahun 2015-2016 dan Rencana Tahun 2017  
Production Realization in 2015-2016 and Plan of 2017

| Unit                                                     | Realisasi<br>Realization<br>(GWh) | Rencana<br>Plan<br>(GWh) | Realisasi<br>Realization<br>(GWh) | Pencapaian<br>Achievement<br>(%) | Rencana<br>Plan<br>(GWh) | Pertumbuhan<br>2016 terhadap<br>2015 (%)<br>Growth 2016 to<br>2015 (%) |
|----------------------------------------------------------|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|--------------------------|------------------------------------------------------------------------|
|                                                          | 2015                              | 2016                     |                                   |                                  | 2017                     |                                                                        |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                   |                          |                                   |                                  |                          |                                                                        |
| Suralaya                                                 | 23.528,45                         | 22.336,07                | 22.786,10                         | 102,01                           | 21.933,92                | (3,16)                                                                 |
| Priok                                                    | 3.434,65                          | 3.528,81                 | 3.213,47                          | 91,06                            | 3.505,54                 | (6,44)                                                                 |
| Saguling                                                 | 2.497,13                          | 2.646,77                 | 4.069,30                          | 153,75                           | 2.608,19                 | 62,96                                                                  |
| Kamojang                                                 | 2.892,87                          | 2.686,63                 | 2.777,15                          | 103,37                           | 2.755,89                 | (4,00)                                                                 |
| Semarang                                                 | 2.562,61                          | 5.553,68                 | 5.158,05                          | 92,88                            | 5.006,28                 | 101,28                                                                 |
| Mrica                                                    | 897,87                            | 1.011,46                 | 1.237,77                          | 122,37                           | 1.027,66                 | 37,86                                                                  |
| Perak Grati                                              | 2.452,32                          | 3.779,04                 | 2.972,37                          | 78,65                            | 3.300,08                 | 21,21                                                                  |
| Bali                                                     | 860,85                            | 1.320,07                 | 915,71                            | 69,37                            | 1.350,74                 | 6,37                                                                   |
| Project                                                  | -                                 | -                        | -                                 | -                                | 54,16                    | -                                                                      |
| TOTAL                                                    | 39.126,74                         | 42.862,52                | 43.129,92                         | 100,62                           | 41.542,45                | 10,23                                                                  |
| B. Pembelian Listrik   Purchase of Electricity           |                                   |                          |                                   |                                  |                          |                                                                        |
| Pesanggaran                                              | 580,46                            | 424,45                   | 18,57                             | 4,38                             | 40,77                    | (96,80)                                                                |
| Nusa Penida                                              | 22,91                             | 28,11                    | 29,65                             | -                                | 41,97                    | 29,42                                                                  |
| Karimunjawa                                              | -                                 | 7,42                     | 2,46                              | -                                | 8,76                     | -                                                                      |
| Total                                                    | 603,37                            | 459,97                   | 50,68                             | 11,02                            | 91,50                    | (91,60)                                                                |
| INDONESIA POWER                                          | 39.730,12                         | 43.322,50                | 43.180,60                         | 99,67                            | 41.633,95                | 8,68                                                                   |

grafik graph  
**08**

Realisasi Produksi Tahun 2015-2016 dan Rencana Tahun 2017 (GWh)  
Production Realization in 2015-2016 and Plan of 2017 (GWh)





tabel table

**13****Produksi per Unit Tahun 2016**

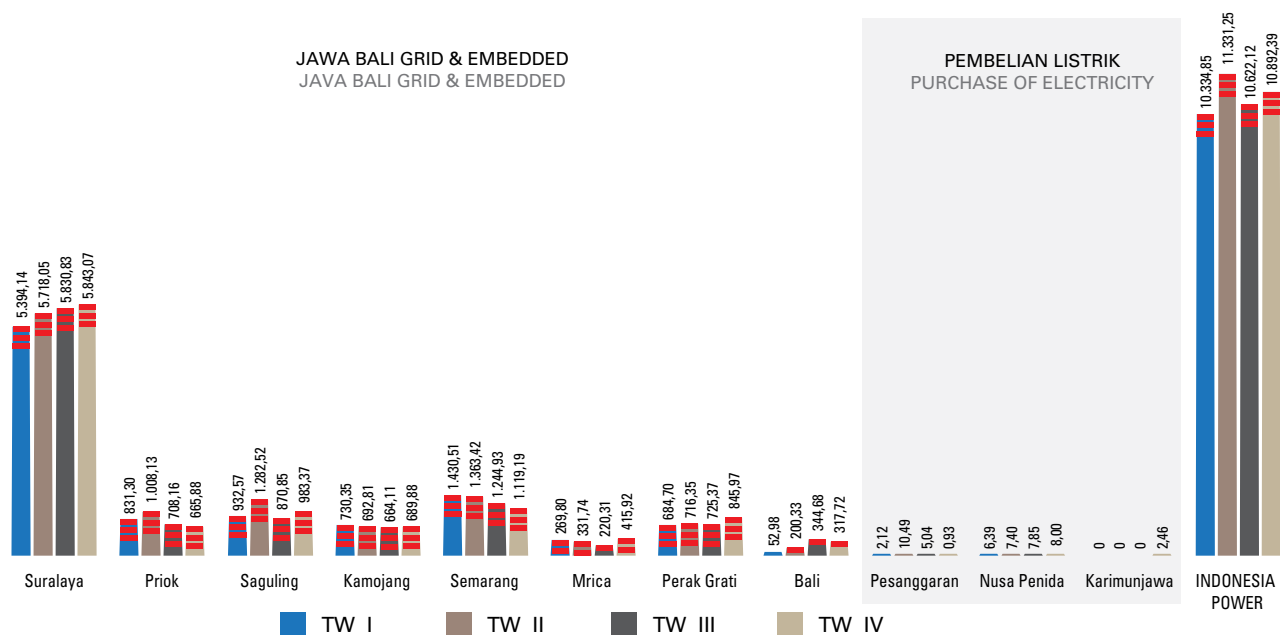
Production based on Unit in 2016

| Unit                                                     | Triwulan   Quarterly              |           |           |           | 2016      |
|----------------------------------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|
|                                                          | TW I                              | TW II     | TW III    | TW IV     |           |
|                                                          | Produksi (GWh)   Production (GWh) |           |           |           |           |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                   |           |           |           |           |
| Suralaya                                                 | 5.394,14                          | 5.718,05  | 5.830,83  | 5.843,07  | 22.786,10 |
| Priok                                                    | 831,30                            | 1.008,13  | 708,16    | 665,88    | 3.213,47  |
| Saguling                                                 | 932,57                            | 1.282,52  | 870,85    | 983,37    | 4.069,30  |
| Kamojang                                                 | 730,35                            | 692,81    | 664,11    | 689,88    | 2.777,15  |
| Semarang                                                 | 1.430,51                          | 1.363,42  | 1.244,93  | 1.119,19  | 5.158,05  |
| Mrica                                                    | 269,80                            | 331,74    | 220,31    | 415,92    | 1.237,77  |
| Perak Grati                                              | 684,70                            | 716,35    | 725,37    | 845,97    | 2.972,37  |
| Bali                                                     | 52,98                             | 200,33    | 344,68    | 317,72    | 915,71    |
| Total                                                    | 10.326,34                         | 11.313,35 | 10.609,23 | 10.881,00 | 43.129,92 |
| B. Pembelian Listrik   Electricity Purchase              |                                   |           |           |           |           |
| Pesanggaran                                              | 2,12                              | 10,49     | 5,04      | 0,93      | 18,57     |
| Nusa Penida                                              | 6,39                              | 7,40      | 7,85      | 8,00      | 29,65     |
| Karimunjawa                                              | -                                 | -         | -         | 2,46      | 2,46      |
| Total                                                    | 8,51                              | 17,89     | 12,89     | 11,39     | 50,68     |
| Indonesia Power                                          | 10.334,85                         | 11.331,25 | 10.622,12 | 10.892,39 | 43.180,60 |

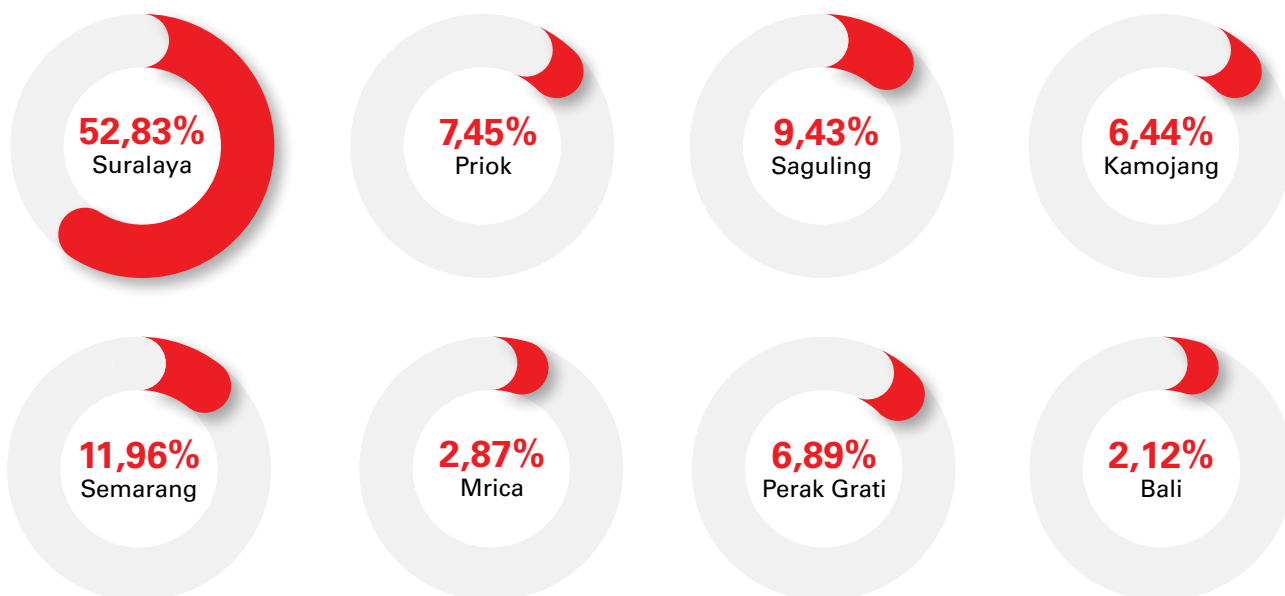
grafik graph

**09****Produksi per Unit Tahun 2016 (GWh)**

Production based on Unit in 2016 (GWh)



grafik graph **10** Kontribusi Produksi Unit terhadap Total Produksi Perusahaan Tahun 2016 (%)  
Production Contribution per Unit to Total Production in 2016 (%)





## Penjualan Per Unit Sales Based on Unit

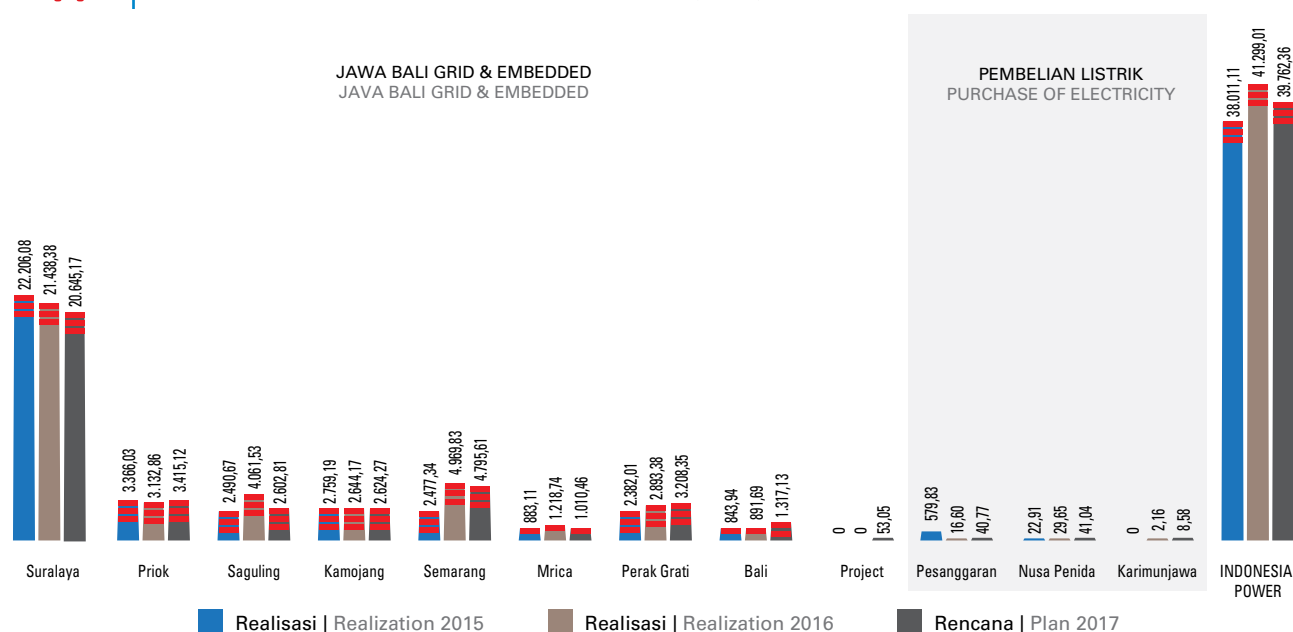
tabel table  
**14**

Realisasi Penjualan Tahun 2015-2016 dan Rencana Tahun 2017  
Sales Realization in 2015-2016 and Plan of 2017

| Unit                                                     | Realisasi<br>Realization<br>(GWh) | Rencana<br>Plan<br>(GWh) | Realisasi<br>Realization<br>(GWh) | Pencapaian<br>Achievement<br>(%) | Rencana<br>Plan<br>(GWh) | Pertumbuhan<br>2016 terhadap<br>2015 (%) |
|----------------------------------------------------------|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|--------------------------|------------------------------------------|
|                                                          | 2015                              | 2016                     |                                   |                                  | 2017                     | Growth 2016 to<br>2015 (%)               |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                   |                          |                                   |                                  |                          |                                          |
| Suralaya                                                 | 22.206,08                         | 21.076,25                | 21.438,38                         | 101,72                           | 20.645,17                | (3,46)                                   |
| Priok                                                    | 3.366,03                          | 3.450,38                 | 3.132,86                          | 90,80                            | 3.415,12                 | (6,93)                                   |
| Saguling                                                 | 2.490,67                          | 2.637,34                 | 4.061,53                          | 154,00                           | 2.602,81                 | 63,07                                    |
| Kamojang                                                 | 2.759,19                          | 2.556,18                 | 2.644,17                          | 103,44                           | 2.624,27                 | (4,17)                                   |
| Semarang                                                 | 2.477,34                          | 5.303,15                 | 4.969,83                          | 93,71                            | 4.795,61                 | 100,61                                   |
| Mrica                                                    | 883,11                            | 993,63                   | 1.218,74                          | 122,66                           | 1.010,46                 | 38,00                                    |
| Perak Grati                                              | 2.382,01                          | 3.667,45                 | 2.893,38                          | 78,89                            | 3.208,35                 | 21,47                                    |
| Bali                                                     | 843,94                            | 1.260,00                 | 891,69                            | 70,77                            | 1.317,13                 | 5,66                                     |
| Project                                                  | -                                 | -                        | -                                 | -                                | 53,05                    | -                                        |
| TOTAL                                                    | 37.408,37                         | 40.944,38                | 41.250,60                         | 100,75                           | 39.671,96                | 10,27                                    |
| B. Pembelian Listrik   Electricity Purchase              |                                   |                          |                                   |                                  |                          |                                          |
| Pesanggaran                                              | 579,83                            | 424,45                   | 16,60                             | 3,91                             | 40,77                    | (97,14)                                  |
| Nusa Penida                                              | 22,91                             | 28,11                    | 29,65                             | 105,48                           | 41,04                    | 29,42                                    |
| Karimunjawa                                              | -                                 | 7,42                     | 2,16                              | 29,16                            | 8,58                     | -                                        |
| TOTAL                                                    | 602,74                            | 459,97                   | 48,42                             | 10,53                            | 90,39                    | (91,97)                                  |
| INDONESIA POWER                                          | 38.011,11                         | 41.404,35                | 41.299,01                         | 99,75                            | 39.762,36                | 8,65                                     |

grafik graph  
**11**

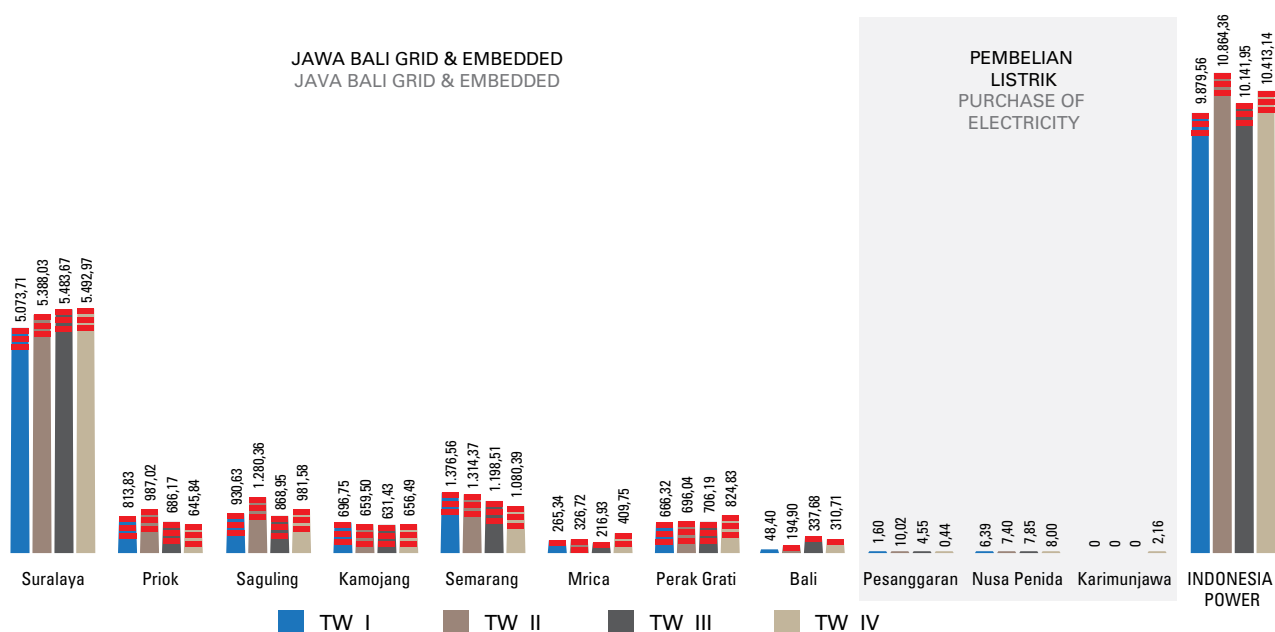
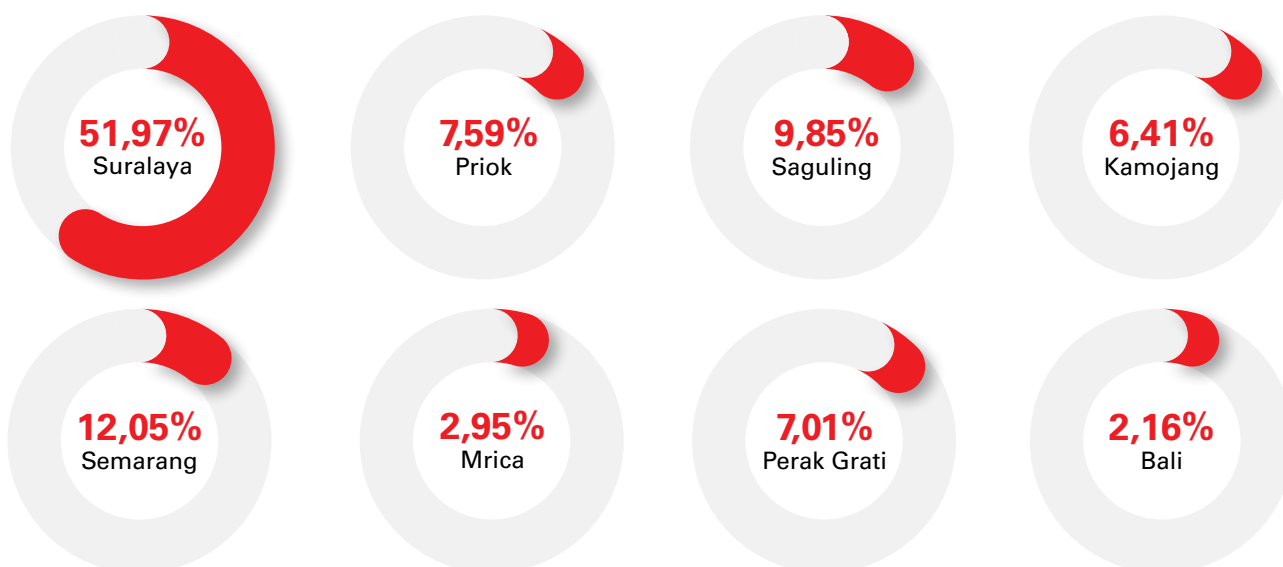
Realisasi Penjualan Tahun 2015-2016 dan Rencana Tahun 2017 (GWh)  
Sales Realization in 2015-2016 and Plan of 2017 (GWh)





tabel table | **Penjualan per Unit Tahun 2016**  
Sales Based on Unit in 2016

| Unit                                                     | Triwulan   Quarterly          |           |           |           | 2016      |
|----------------------------------------------------------|-------------------------------|-----------|-----------|-----------|-----------|
|                                                          | TW I                          | TW II     | TW III    | TW IV     |           |
|                                                          | Penjualan (GWh)   Sales (GWh) |           |           |           |           |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                               |           |           |           |           |
| Suralaya                                                 | 5.073,71                      | 5.388,03  | 5.483,67  | 5.492,97  | 21.438,38 |
| Priok                                                    | 813,83                        | 987,02    | 686,17    | 645,84    | 3.132,86  |
| Saguling                                                 | 930,63                        | 1.280,36  | 868,95    | 981,58    | 4.061,53  |
| Kamojang                                                 | 696,75                        | 659,50    | 631,43    | 656,49    | 2.644,17  |
| Semarang                                                 | 1.376,56                      | 1.314,37  | 1.198,51  | 1.080,39  | 4.969,83  |
| Mrica                                                    | 265,34                        | 326,72    | 216,93    | 409,75    | 1.218,74  |
| Perak Grati                                              | 666,32                        | 696,04    | 706,19    | 824,83    | 2.893,38  |
| Bali                                                     | 48,40                         | 194,90    | 337,68    | 310,71    | 891,69    |
| TOTAL                                                    | 9.871,56                      | 10.846,94 | 10.129,55 | 10.402,54 | 41.250,60 |
| B. Pembelian Listrik   Electricity Purchase              |                               |           |           |           |           |
| Pesanggaran                                              | 1,60                          | 10,02     | 4,55      | 0,44      | 16,60     |
| Nusa Penida                                              | 6,39                          | 7,40      | 7,85      | 8,00      | 29,65     |
| Karimunjawa                                              | -                             | -         | -         | 2,16      | 2,16      |
| TOTAL                                                    | 7,99                          | 17,42     | 12,40     | 10,60     | 48,42     |
| INDONESIA POWER                                          | 9.879,56                      | 10.864,36 | 10.141,95 | 10.413,14 | 41.299,01 |


 grafik graph  
**12**
**Penjualan per Unit Tahun 2016 (GWh)**  
 Sales based on Unit in 2016 (GWh)

 grafik graph  
**13**
**Kontribusi Penjualan Unit terhadap Total Penjualan Perusahaan Tahun 2016 (%)**  
 Sales Contribution per Unit to Total Sales in 2016 (%)


## Pemakaian Sendiri Per Unit Self Consumption Based on Unit

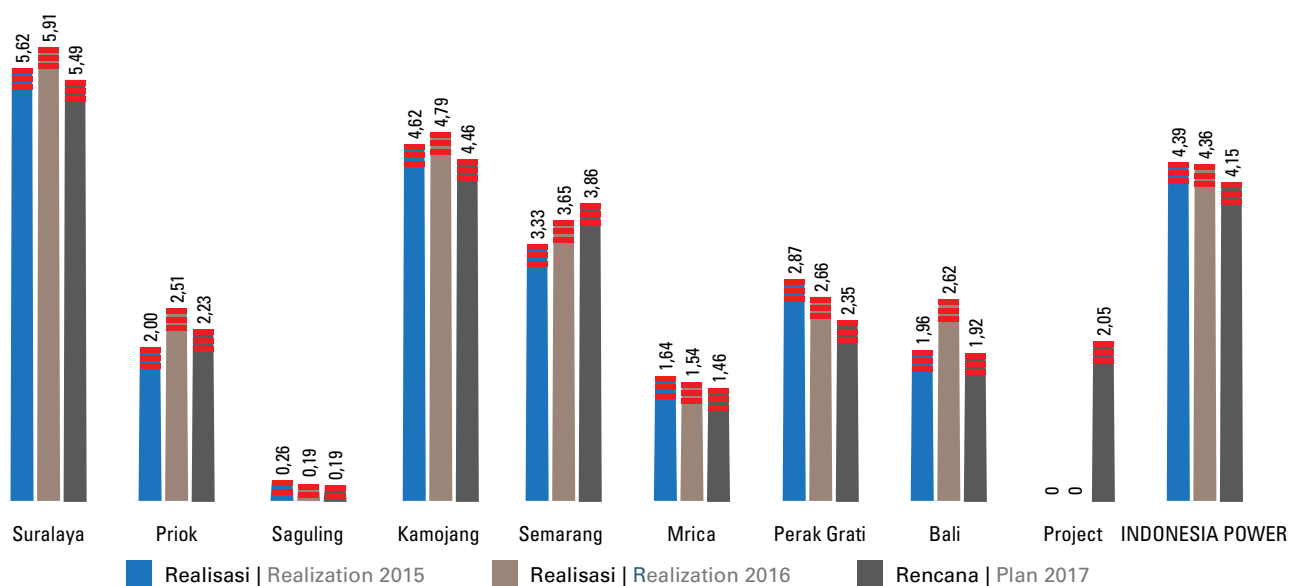
tabel table  
**16**

Realisasi Pemakaian Sendiri Tahun 2015-2016 dan Rencana Tahun 2017  
Self Consumption Realization in 2015-2016 and Plan of 2017

| Unit                                                                     | Realisasi Realization |             | Rencana Plan    |             | Realisasi Realization |             | Pencapaian Achievement | Rencana Plan    |             |
|--------------------------------------------------------------------------|-----------------------|-------------|-----------------|-------------|-----------------------|-------------|------------------------|-----------------|-------------|
|                                                                          | (GWh)                 | (%PS)       | (GWh)           | (%PS)       | (GWh)                 | (%PS)       | (%)                    | (GWh)           | (%PS)       |
|                                                                          | 2015                  |             | 2016            |             |                       |             |                        | 2017            |             |
| <b>Jawa Bali Grid &amp; Embedded  <br/>Java Bali Grid &amp; Embedded</b> | 1.718,37              | 4,39        | 1.918,15        | 4,48        | 1.879,33              | 4,36        | 97,98                  | 1.716,62        | 4,15        |
| Suralaya                                                                 | 1.322,37              | 5,62        | 1.259,83        | 5,64        | 1.347,71              | 5,91        | 106,98                 | 1.199,94        | 5,49        |
| Priok                                                                    | 68,62                 | 2,00        | 78,43           | 2,22        | 80,61                 | 2,51        | 102,78                 | 77,78           | 2,23        |
| Saguling                                                                 | 6,46                  | 0,26        | 9,42            | 0,36        | 7,77                  | 0,19        | 82,44                  | 4,97            | 0,19        |
| Kamojang                                                                 | 133,68                | 4,62        | 130,44          | 4,86        | 132,98                | 4,79        | 101,94                 | 122,43          | 4,46        |
| Semarang                                                                 | 85,27                 | 3,33        | 250,53          | 4,51        | 188,22                | 3,65        | 75,13                  | 192,31          | 3,86        |
| Mrica                                                                    | 14,75                 | 1,64        | 17,83           | 1,76        | 19,03                 | 1,54        | 106,72                 | 14,99           | 1,46        |
| Perak Grati                                                              | 70,31                 | 2,87        | 111,59          | 2,95        | 78,99                 | 2,66        | 70,79                  | 77,11           | 2,35        |
| Bali                                                                     | 16,91                 | 1,96        | 60,08           | 4,55        | 24,02                 | 2,62        | 39,99                  | 26,00           | 1,92        |
| Project                                                                  | -                     | -           | -               | -           | -                     | -           | -                      | 1,11            | 2,05        |
| <b>INDONESIA POWER</b>                                                   | <b>1.718,37</b>       | <b>4,39</b> | <b>1.918,15</b> | <b>4,48</b> | <b>1.879,33</b>       | <b>4,36</b> | <b>97,98</b>           | <b>1.716,62</b> | <b>4,15</b> |

grafik graph  
**14**

Realisasi Pemakaian Sendiri Tahun 2015-2016 dan Rencana Tahun 2017 (%)  
Self Consumption Realization in 2015-2016 and Plan of 2017 (%)





tabel table

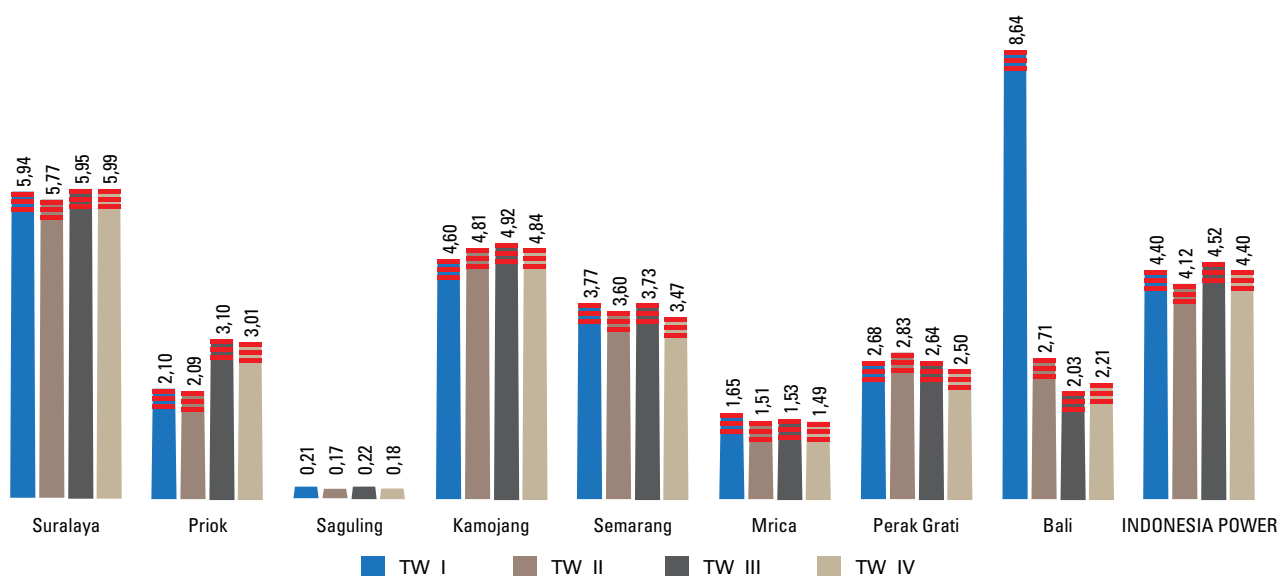
17

**Pemakaian Sendiri per Unit Tahun 2016**  
 Self Consumption Based on Unit in 2016

| Unit                                                     | Triwulan I Quarter |       |        |       |        |       |        |       | 2016     |       |
|----------------------------------------------------------|--------------------|-------|--------|-------|--------|-------|--------|-------|----------|-------|
|                                                          | TW I               |       | TW II  |       | TW III |       | TW IV  |       |          |       |
|                                                          | (GWh)              | (%PS) | (GWh)  | (%PS) | (GWh)  | (%PS) | (GWh)  | (%PS) | (GWh)    | (%PS) |
| Jawa Bali Grid & Embedded  <br>Java Bali Grid & Embedded | 454,78             | 4,40  | 466,41 | 4,12  | 479,68 | 4,52  | 478,46 | 4,40  | 1,879,33 | 4,36  |
| Suralaya                                                 | 320,43             | 5,94  | 330,02 | 5,77  | 347,16 | 5,95  | 350,11 | 5,99  | 1,347,71 | 5,91  |
| Priok                                                    | 17,48              | 2,10  | 21,11  | 2,09  | 21,99  | 3,10  | 20,04  | 3,01  | 80,61    | 2,51  |
| Saguling                                                 | 1,93               | 0,21  | 2,16   | 0,17  | 1,89   | 0,22  | 1,78   | 0,18  | 7,77     | 0,19  |
| Kamojang                                                 | 33,60              | 4,60  | 33,31  | 4,81  | 32,68  | 4,92  | 33,39  | 4,84  | 132,98   | 4,79  |
| Semarang                                                 | 53,95              | 3,77  | 49,05  | 3,60  | 46,41  | 3,73  | 38,81  | 3,47  | 188,22   | 3,65  |
| Mrica                                                    | 4,45               | 1,65  | 5,02   | 1,51  | 3,38   | 1,53  | 6,18   | 1,49  | 19,03    | 1,54  |
| Perak Grati                                              | 18,37              | 2,68  | 20,30  | 2,83  | 19,17  | 2,64  | 21,14  | 2,50  | 78,99    | 2,66  |
| Bali                                                     | 4,58               | 8,64  | 5,43   | 2,71  | 7,00   | 2,03  | 7,01   | 2,21  | 24,02    | 2,62  |
| INDONESIA POWER                                          | 454,78             | 4,40  | 466,41 | 4,12  | 479,68 | 4,52  | 478,46 | 4,40  | 1,879,33 | 4,36  |



grafik graph **15** Pemakaian Sendiri per Unit Tahun 2016 (%)  
Self Consumption Based on Unit in 2016 (%)



grafik graph **16** Kontribusi Pemakaian Sendiri Unit terhadap Total Pemakaian Sendiri Perusahaan Tahun 2016 (%)  
Unit Self Consumption Contribution to Total Self Consumption of the Company in 2016 (%)





## Produksi Per Jenis Pembangkit

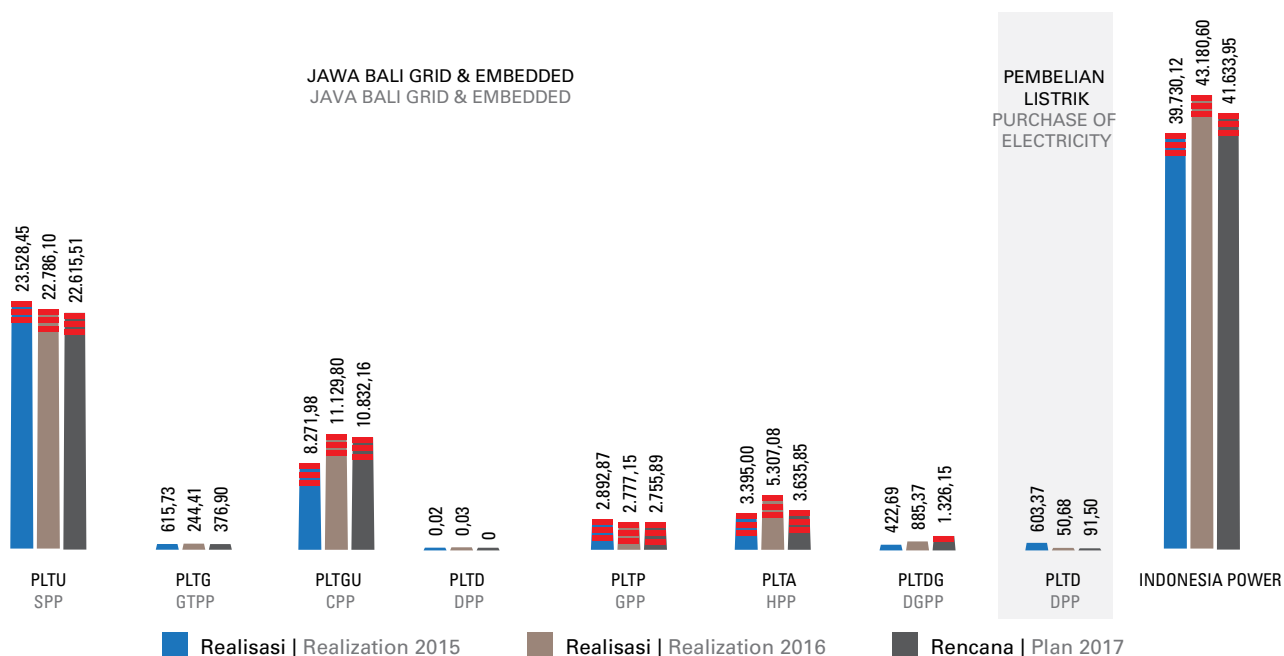
## Production of Power Plant Type

 tabel table  
**18**
**Realisasi Produksi per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017**  
 Production Realization of Power Plant Type in 2015-2016 and Plan of 2017

| Jenis Pembangkit<br>Power Plant Type                     | Realisasi<br>Realization<br>(GWh) | Rencana<br>Plan<br>(GWh) | Realisasi<br>Realization<br>(GWh) | Pencapaian<br>Achievement<br>(%) | Rencana<br>Plan<br>(GWh) | Pertumbuhan<br>2016 terhadap<br>2015 (%)<br>Growth 2016 to<br>2015 (%) |
|----------------------------------------------------------|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|--------------------------|------------------------------------------------------------------------|
|                                                          | 2015                              | 2016                     |                                   |                                  | 2017                     |                                                                        |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                   |                          |                                   |                                  |                          |                                                                        |
| PLTU   SPP                                               | 23.528,45                         | 22.948,75                | 22.786,10                         | 99,29                            | 22.615,51                | (3,16)                                                                 |
| PLTU (Batubara)   Coal-fired<br>SPP                      | 23.528,45                         | 22.336,07                | 22.786,10                         | 102,01                           | 21.933,92                | (3,16)                                                                 |
| PLTU (Gas)   Gas SPP                                     | -                                 | 612,67                   | -                                 | -                                | 681,59                   | -                                                                      |
| PLTU (MFO)   MFO SPP                                     | -                                 | -                        | -                                 | -                                | -                        | -                                                                      |
| PLTG   GTPP                                              | 615,73                            | 405,35                   | 244,41                            | 60,30                            | 376,90                   | (60,31)                                                                |
| PLTG (Gas)   Gas GTPP                                    | 172,05                            | 383,04                   | 210,25                            | 54,89                            | 352,31                   | 22,20                                                                  |
| PLTG (HSD)   HSD GTPP                                    | 443,68                            | 22,31                    | 34,16                             | 153,10                           | 24,59                    | (92,30)                                                                |
| PLTGU   CPP                                              | 8.271,98                          | 11.862,48                | 11.129,80                         | 93,82                            | 10.832,16                | 34,55                                                                  |
| PLTGU (Gas)   Gas CPP                                    | 8.242,04                          | 11.815,11                | 11.080,18                         | 93,78                            | 10.646,69                | 34,43                                                                  |
| PLTGU (HSD)   HSD CPP                                    | 29,94                             | 47,37                    | 49,62                             | 104,75                           | 185,47                   | 65,73                                                                  |
| PLTD   DPP                                               | 0,02                              | -                        | 0,03                              | -                                | -                        | 21,38                                                                  |
| PLTP   GPP                                               | 2.892,87                          | 2.686,63                 | 2.777,15                          | 103,37                           | 2.755,89                 | (4,00)                                                                 |
| PLTA   HPP                                               | 3.395,00                          | 3.658,23                 | 5.307,08                          | 145,07                           | 3.635,85                 | 56,32                                                                  |
| PLTDG   DGPP                                             | 422,69                            | 1.301,10                 | 885,37                            | 68,05                            | 1.326,15                 | 109,46                                                                 |
| PLTDG (Gas)   Gas DGPP                                   | -                                 | 1.258,34                 | 786,26                            | 62,48                            | 1.326,15                 | -                                                                      |
| PLTDG (MFO)   MFO DGPP                                   | 120,13                            | -                        | 37,28                             | -                                | -                        | (68,97)                                                                |
| PLTDG (HSD)   HSD DGPP                                   | 302,55                            | 42,75                    | 61,83                             | 144,61                           | -                        | (79,57)                                                                |
| TOTAL                                                    | 39.126,74                         | 42.862,52                | 43.129,92                         | 100,62                           | 41.542,45                | 10,23                                                                  |
| B. Pembelian Listrik   Purchase of Electricity           |                                   |                          |                                   |                                  |                          |                                                                        |
| PLTD   DPP                                               | 603,37                            | 459,97                   | 50,68                             | 11,02                            | 91,50                    | (91,60)                                                                |
| TOTAL                                                    | 603,37                            | 459,97                   | 50,68                             | 11,02                            | 91,50                    | (91,60)                                                                |
| INDONESIA POWER                                          | 39.730,12                         | 43.322,50                | 43.180,60                         | 99,67                            | 41.633,95                | 8,68                                                                   |

grafik graph  
**17**

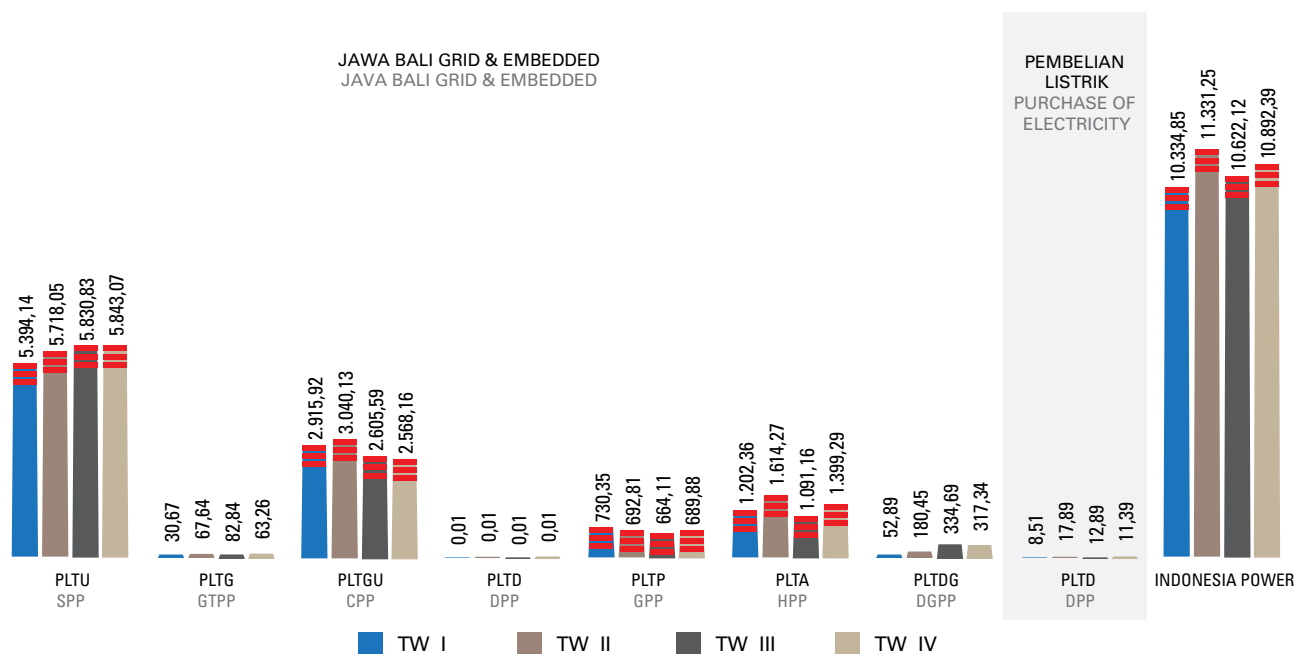
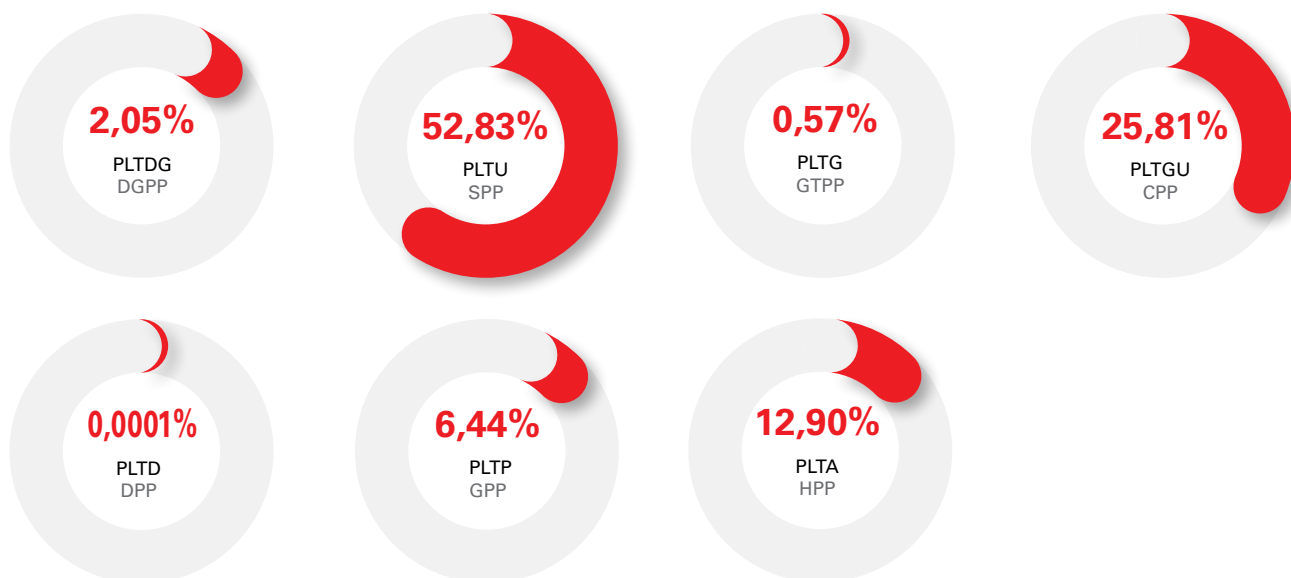
**Realisasi Produksi per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017 (GWh)**  
Production Realization of Power Plant Type in 2015-2016 and Plan of 2017 (GWh)



tabel table  
**19**

**Pertumbuhan Produksi per Jenis Pembangkit Tahun 2016**  
Production Growth of Power Plant Type in 2016

| Jenis Pembangkit<br>Power Plant Type                     | Triwulan   Quarterly              |           |           |           | 2016      |
|----------------------------------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|
|                                                          | TW I                              | TW II     | TW III    | TW IV     |           |
|                                                          | Produksi (GWh)   Production (GWh) |           |           |           |           |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                   |           |           |           |           |
| PLTU   SPP                                               | 5.394,14                          | 5.718,05  | 5.830,83  | 5.843,07  | 22.786,10 |
| PLTU (Batubara)   Coal-fired SPP                         | 5.394,14                          | 5.718,05  | 5.830,83  | 5.843,07  | 22.786,10 |
| PLTU (MFO)   MFO SPP                                     | -                                 | -         | -         | -         | -         |
| PLTG   GTPP                                              | 30,67                             | 67,64     | 82,84     | 63,26     | 244,41    |
| PLTG (Gas)   Gas GTPP                                    | 30,58                             | 43,94     | 72,85     | 62,87     | 210,25    |
| PLTG (HSD)   HSD GTPP                                    | 0,09                              | 23,70     | 9,99      | 0,38      | 34,16     |
| PLTGU   CPP                                              | 2.915,92                          | 3.040,13  | 2.605,59  | 2.568,16  | 11.129,80 |
| PLTGU (Gas)   Gas CPP                                    | 2.900,47                          | 3.030,85  | 2.584,78  | 2.564,07  | 11.080,18 |
| PLTGU (HSD)   HSD CPP                                    | 15,45                             | 9,27      | 20,81     | 4,09      | 49,62     |
| PLTD   DPP                                               | 0,01                              | 0,01      | 0,01      | 0,01      | 0,03      |
| PLTP   GPP                                               | 730,35                            | 692,81    | 664,11    | 689,88    | 2.777,15  |
| PLTA   HPP                                               | 1.202,36                          | 1.614,27  | 1.091,16  | 1.399,29  | 5.307,08  |
| PLTDG   DGPP                                             | 52,89                             | 180,45    | 334,69    | 317,34    | 885,37    |
| PLTDG (Gas)   Gas DGPP                                   | -                                 | 136,57    | 333,61    | 316,09    | 786,26    |
| PLTDG (MFO)   MFO DGPP                                   | 34,42                             | 2,87      | -         | -         | 37,28     |
| PLTDG (HSD)   HSD DGPP                                   | 18,48                             | 41,01     | 1,08      | 1,25      | 61,83     |
| TOTAL                                                    | 10.326,34                         | 11.313,35 | 10.609,23 | 10.881,00 | 43.129,92 |
| B. Pembelian Listrik   Purchase of Electricity           |                                   |           |           |           |           |
| PLTD   DPP                                               | 8,51                              | 17,89     | 12,89     | 11,39     | 50,68     |
| TOTAL                                                    | 8,51                              | 17,89     | 12,89     | 11,39     | 50,68     |
| INDONESIA POWER                                          | 10.334,85                         | 11.331,25 | 10.622,12 | 10.892,39 | 43.180,60 |


 grafik graph **18** **Produksi per Jenis Pembangkit Tahun 2016 (GWh)**  
 Production per Power Plant Type in 2016 (GWh)

 grafik graph **19** **Kontribusi Produksi per Jenis Pembangkit terhadap Total Produksi Perusahaan Tahun 2016 (%)**  
 Contribution of Production per Type of Power Plant to Total Production of the Company in 2016 (%)






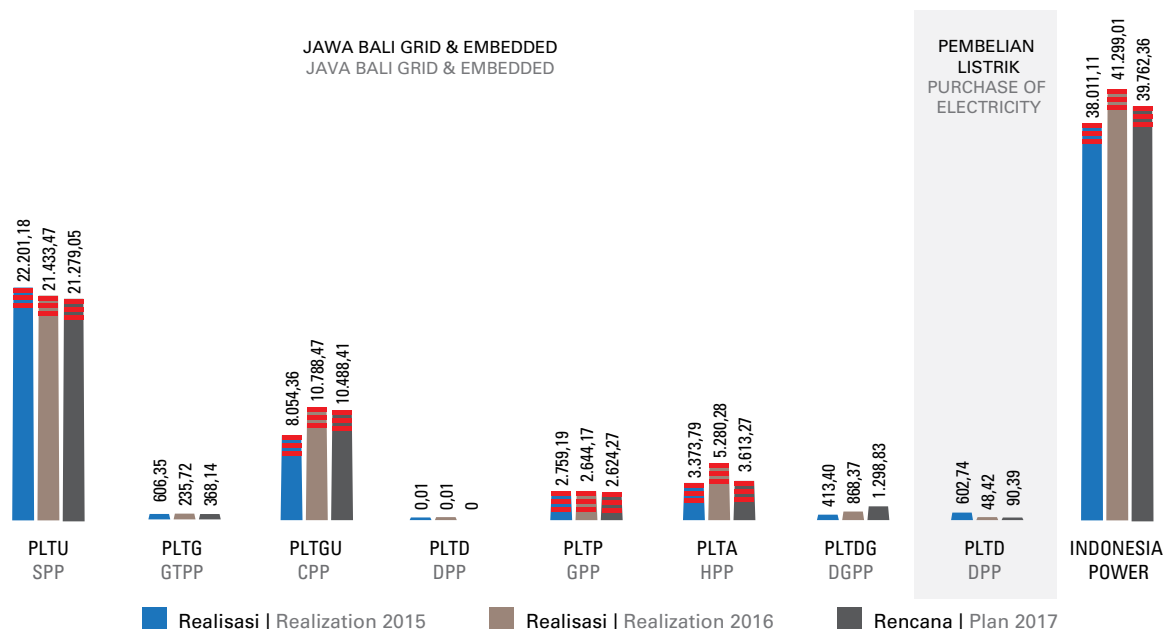
## Penjualan Per Jenis Pembangkit

### Sales of Power Plant Type

 tabel table  
**20**
**Realisasi Penjualan per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017**  
**Sales Realization of Power Plant Type in 2015-2016 and Plan of 2017**

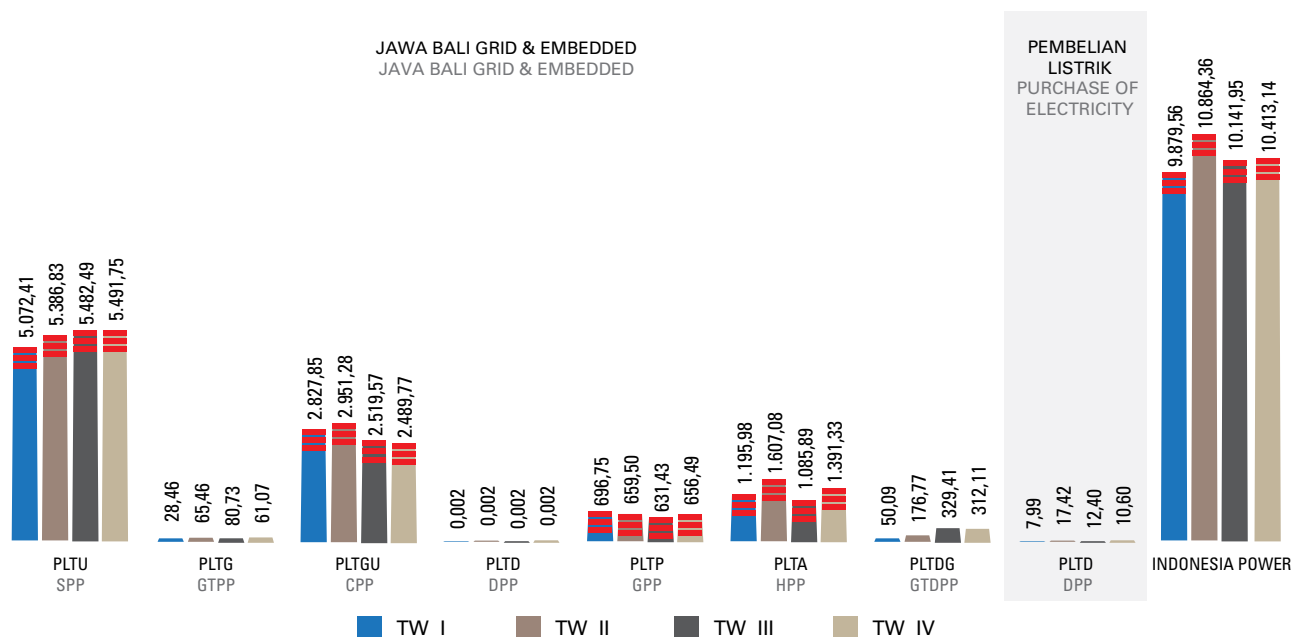
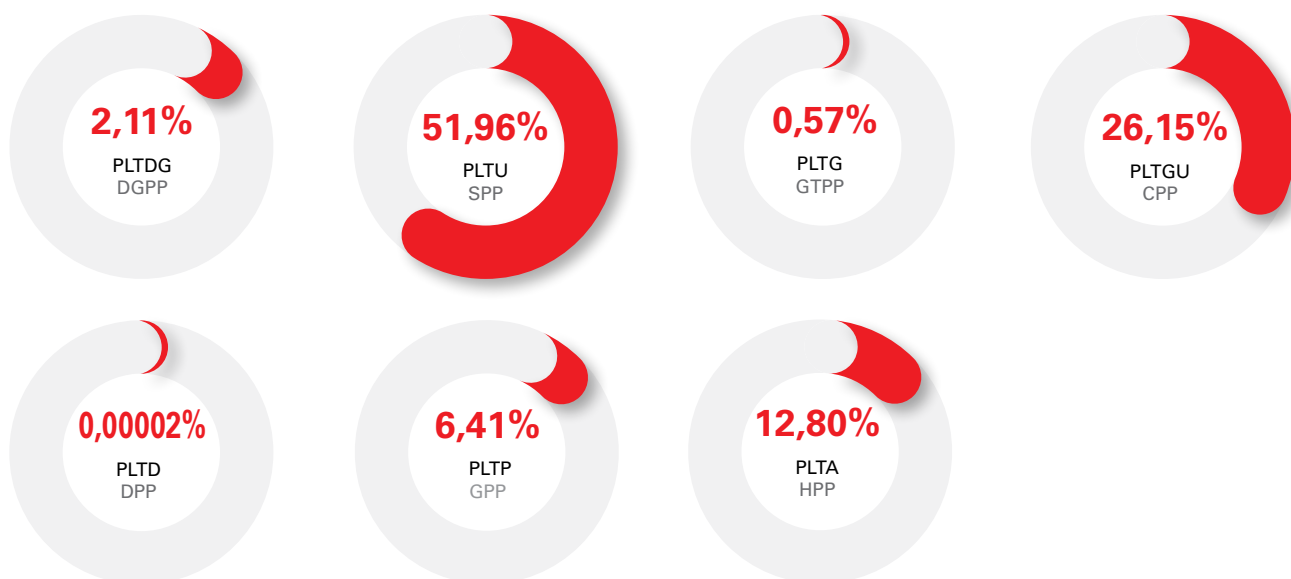
| Jenis Pembangkit<br>Power Plant Type                                    | Realisasi<br>Realization<br>(GWh) | Rencana<br>Plan<br>(GWh) | Realisasi<br>Realization<br>(GWh) | Pencapaian<br>Plan<br>(%) | Rencana<br>Plan<br>(GWh) | Pertumbuhan 2016<br>terhadap 2015 (%)<br>Growth 2016 to<br>2015 (%) |
|-------------------------------------------------------------------------|-----------------------------------|--------------------------|-----------------------------------|---------------------------|--------------------------|---------------------------------------------------------------------|
|                                                                         | 2015                              | 2016                     | 2016                              |                           | 2017                     |                                                                     |
| <b>A. Jawa Bali Grid &amp; Embedded   Java Bali Grid &amp; Embedded</b> |                                   |                          |                                   |                           |                          |                                                                     |
| PLTU   SPP                                                              | 22.201,18                         | 21.646,03                | 21.433,47                         | 99,02                     | 21.279,05                | (3,46)                                                              |
| PLTU (Batubara)   Coal-fired<br>SPP                                     | 22.206,08                         | 21.076,25                | 21.438,38                         | 101,72                    | 20.645,17                | (3,46)                                                              |
| PLTU (Gas)   Gas SPP                                                    | -                                 | 569,79                   | -                                 | -                         | 633,88                   | -                                                                   |
| PLTU (MFO)   MFO SPP                                                    | (4,90)                            | -                        | (4,92)                            | -                         | -                        | 0,37                                                                |
| PLTG   GTTP                                                             | 606,35                            | 400,95                   | 235,72                            | 58,79                     | 368,14                   | (61,12)                                                             |
| PLTG (Gas)   Gas GTTP                                                   | 171,00                            | 379,21                   | 209,22                            | 55,17                     | 349,83                   | 22,35                                                               |
| PLTG (HSD)   HSD GTTP                                                   | 435,36                            | 21,75                    | 26,50                             | 121,87                    | 18,30                    | (93,91)                                                             |
| PLTGU   CPP                                                             | 8.054,36                          | 11.468,78                | 10.788,47                         | 94,07                     | 10.488,41                | 33,95                                                               |
| PLTGU (Gas)   Gas CPP                                                   | 8.028,26                          | 11.423,71                | 10.740,10                         | 94,02                     | 10.308,04                | 33,78                                                               |
| PLTGU (HSD)   HSD CPP                                                   | 26,10                             | 45,06                    | 48,38                             | 107,36                    | 180,37                   | 85,39                                                               |
| PLTD   DPP                                                              | 0,01                              | -                        | 0,01                              | -                         | -                        | 5,94                                                                |
| PLTP   GPP                                                              | 2.759,19                          | 2.556,18                 | 2.644,17                          | 103,44                    | 2.624,27                 | (4,17)                                                              |
| PLTA   HPP                                                              | 3.373,79                          | 3.630,97                 | 5.280,28                          | 145,42                    | 3.613,27                 | 56,51                                                               |
| PLTDG   DGPP                                                            | 413,40                            | 1.241,46                 | 868,37                            | 69,95                     | 1.298,83                 | 110,05                                                              |
| PLTDG (Gas)   Gas DGPP                                                  | -                                 | 1.200,66                 | 773,40                            | 64,41                     | 1.298,83                 | -                                                                   |
| PLTDG (MFO)   MFO DGPP                                                  | 117,27                            | -                        | 35,44                             | -                         | -                        | (69,78)                                                             |
| PLTDG (HSD)   HSD DGPP                                                  | 296,13                            | 40,79                    | 59,53                             | 145,93                    | -                        | (79,90)                                                             |
| <b>TOTAL</b>                                                            | <b>37.408,37</b>                  | <b>40.944,38</b>         | <b>41.250,60</b>                  | <b>100,75</b>             | <b>39.671,96</b>         | <b>10,27</b>                                                        |
| <b>B. Pembelian Listrik   Purchase of Electricity</b>                   |                                   |                          |                                   |                           |                          |                                                                     |
| PLTD   DPP                                                              | 602,74                            | 459,97                   | 48,42                             | 10,53                     | 90,39                    | (91,97)                                                             |
| <b>TOTAL</b>                                                            | <b>602,74</b>                     | <b>459,97</b>            | <b>48,42</b>                      | <b>10,53</b>              | <b>90,39</b>             | <b>(91,97)</b>                                                      |
| <b>INDONESIA POWER</b>                                                  | <b>38.011,11</b>                  | <b>41.404,35</b>         | <b>41.299,01</b>                  | <b>99,75</b>              | <b>39.762,36</b>         | <b>8,65</b>                                                         |

grafik graph **20** Realisasi Penjualan per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017 (GWh)  
Sales Realization of Power Plant Type in 2015-2016 and Plan of 2017 (GWh)



tabel table **21** Penjualan per Jenis Pembangkit Tahun 2016  
Sales of Power Plant Type in 2016

| Jenis Pembangkit<br>Power Plant Type                     | Triwulan   Quarterly               |           |           |           | 2016      |
|----------------------------------------------------------|------------------------------------|-----------|-----------|-----------|-----------|
|                                                          | TW I                               | TW II     | TW III    | TW IV     |           |
|                                                          | Penjualan (GWh)   Production (GWh) |           |           |           |           |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                    |           |           |           |           |
| PLTU   SPP                                               | 5.072,41                           | 5.386,83  | 5.482,49  | 5.491,75  | 21.433,47 |
| PLTU (Batubara)   Coal-fired SPP                         | 5.073,71                           | 5.388,03  | 5.483,67  | 5.492,97  | 21.438,38 |
| PLTU (MFO)   MFO SPP                                     | (1,31)                             | (1,21)    | (1,18)    | (1,22)    | (4,92)    |
| PLTG   GTPP                                              | 28,46                              | 65,46     | 80,73     | 61,07     | 235,72    |
| PLTG (Gas)   Gas GTPP                                    | 30,29                              | 43,68     | 72,61     | 62,62     | 209,22    |
| PLTG (HSD)   HSD GTPP                                    | (1,84)                             | 21,78     | 8,12      | (1,55)    | 26,50     |
| PLTGU   CPP                                              | 2.827,85                           | 2.951,28  | 2.519,57  | 2.489,77  | 10.788,47 |
| PLTGU (Gas)   Gas CPP                                    | 2.812,63                           | 2.942,21  | 2.499,49  | 2.485,76  | 10.740,10 |
| PLTGU (HSD)   HSD CPP                                    | 15,21                              | 9,06      | 20,09     | 4,01      | 48,38     |
| PLTD   DPP                                               | 0,002                              | 0,002     | 0,002     | 0,002     | 0,01      |
| PLTP   GPP                                               | 696,75                             | 659,50    | 631,43    | 656,49    | 2.644,17  |
| PLTA   HPP                                               | 1.195,98                           | 1.607,08  | 1.085,89  | 1.391,33  | 5.280,28  |
| PLTDG   DGPP                                             | 50,09                              | 176,77    | 329,41    | 312,11    | 868,37    |
| PLTDG (Gas)   Gas DGPP                                   | -                                  | 134,16    | 328,34    | 310,91    | 773,40    |
| PLTDG (MFO)   MFO DGPP                                   | 32,68                              | 2,76      | -         | -         | 35,44     |
| PLTDG (HSD)   HSD DGPP                                   | 17,41                              | 39,85     | 1,07      | 1,20      | 59,53     |
| TOTAL                                                    | 9.871,56                           | 10.846,94 | 10.129,55 | 10.402,54 | 41.250,60 |
| B. Pembelian Listrik   Purchase of Electricity           |                                    |           |           |           |           |
| PLTD   DPP                                               | 7,99                               | 17,42     | 12,40     | 10,60     | 48,42     |
| TOTAL                                                    | 7,99                               | 17,42     | 12,40     | 10,60     | 48,42     |
| INDONESIA POWER                                          | 9.879,56                           | 10.864,36 | 10.141,95 | 10.413,14 | 41.299,01 |

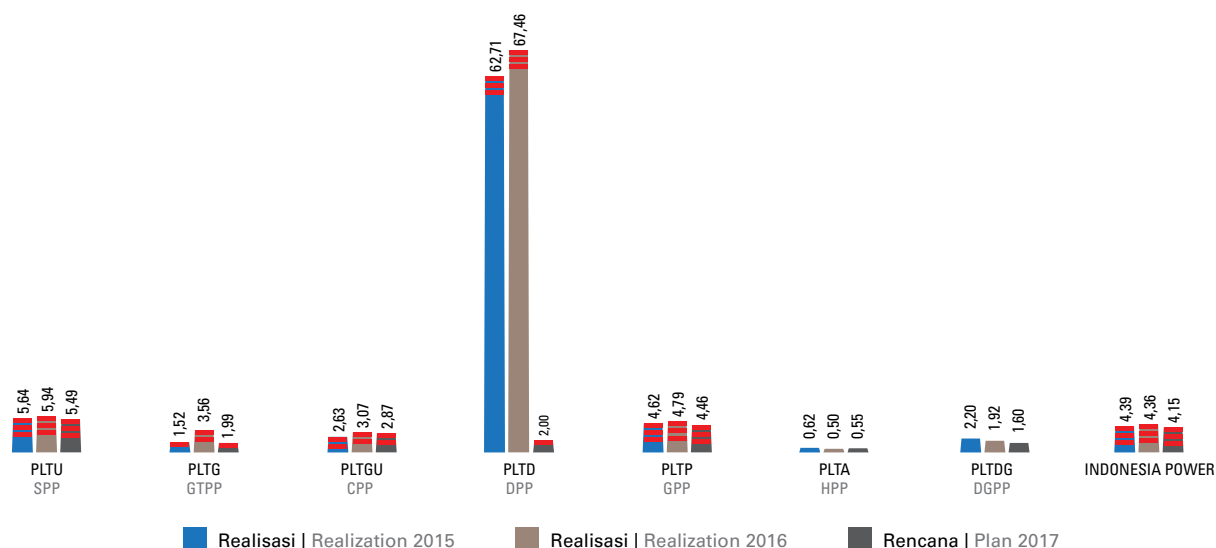

 grafik graph  
**21**
**Penjualan per Jenis Pembangkit Tahun 2016 (GWh)**  
 Sales of Power Plant Type in 2016 (GWh)

 grafik graph  
**22**
**Kontribusi Penjualan per Jenis Pembangkit terhadap Total Penjualan Perusahaan Tahun 2016 (%)**  
 Contribution of Sales per Type of Power Plant to Total Sales of the Company in 2016 (%)


## Pemakaian Sendiri Per Jenis Pembangkit Self Consumption of Power Plant Type

tabel table 22 Realisasi Pemakaian Sendiri per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017  
Self Consumption Realization of Power Plant Type in 2015-2016 and Plan of 2017

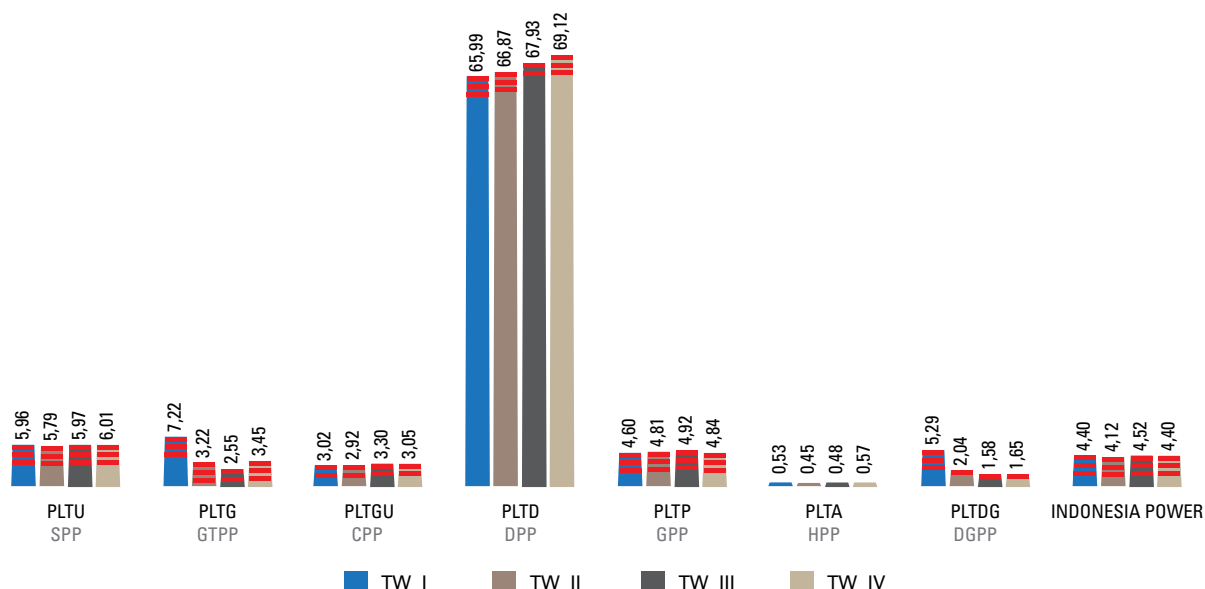
| Jenis Pembangkit<br>Power Plant Type                                 | Realisasi<br>Realization |             | Rencana<br>Plan |             | Realisasi<br>Realization |             | Pencapaian<br>Achievement | Rencana<br>Plan |             |
|----------------------------------------------------------------------|--------------------------|-------------|-----------------|-------------|--------------------------|-------------|---------------------------|-----------------|-------------|
|                                                                      | (GWh)                    | (%PS)       | (GWh)           | (%PS)       | (GWh)                    | (%PS)       | (%)                       | (GWh)           | (%PS)       |
|                                                                      | 2015                     |             | 2016            |             | 2016                     |             |                           | 2017            |             |
| <b>Jawa Bali Grid &amp; Embedded   Java Bali Grid &amp; Embedded</b> | 1.718,37                 | 4,39        | 1.918,15        | 4,53        | 1.879,33                 | 4,36        | 97,98                     | 1.716,62        | 4,15        |
| PLTU   SPP                                                           | 1.327,27                 | 5,64        | 1.302,71        | 5,68        | 1.352,63                 | 5,94        | 103,83                    | 1.236,83        | 5,49        |
| PLTU (Batubara)   Coal-fired SPP                                     | 1.322,37                 | 5,62        | 1.259,83        | 5,64        | 1.347,71                 | 5,91        | 106,98                    | 1.199,94        | 5,49        |
| PLTU (Gas)   Gas SPP                                                 | -                        | -           | 42,89           | 7,00        | -                        | -           | -                         | 36,89           | 5,50        |
| PLTU (MFO)   MFO SPP                                                 | 4,90                     | -           | -               | -           | 4,92                     | -           | -                         | -               | -           |
| PLTG   GTTP                                                          | 9,38                     | 1,52        | 4,39            | 1,08        | 8,69                     | 3,56        | 197,75                    | 6,36            | 1,99        |
| PLTG (Gas)   Gas GTTP                                                | 1,05                     | 0,61        | 3,83            | 1,00        | 1,04                     | 0,49        | 27,02                     | 1,66            | 0,56        |
| PLTG (HSD)   HSD GTTP                                                | 8,32                     | 1,88        | 0,56            | 2,53        | 7,65                     | 22,41       | 1.358,16                  | 4,70            | 20,44       |
| PLTGU   CPP                                                          | 217,63                   | 2,63        | 393,70          | 3,32        | 341,32                   | 3,07        | 86,70                     | 309,76          | 2,87        |
| PLTG (Gas)   Gas CPP                                                 | 213,78                   | 2,59        | 391,40          | 3,31        | 340,08                   | 3,07        | 86,89                     | 305,42          | 2,88        |
| PLTG (HSD)   HSD CPP                                                 | 3,85                     | 12,84       | 2,31            | 4,87        | 1,24                     | 2,51        | 53,88                     | 4,34            | 2,35        |
| PLTD   DPP                                                           | 0,01                     | 62,71       | -               | -           | 0,02                     | 67,46       | -                         | 0,18            | 2,00        |
| PLTP   GPP                                                           | 133,68                   | 4,62        | 130,44          | 4,86        | 132,98                   | 4,79        | 101,94                    | 122,43          | 4,46        |
| PLTA   HPP                                                           | 21,21                    | 0,62        | 27,26           | 0,75        | 26,80                    | 0,50        | 98,33                     | 19,96           | 0,55        |
| PLTDG   DGPP                                                         | 9,28                     | 2,20        | 59,64           | 4,58        | 17,00                    | 1,92        | 28,50                     | 21,12           | 1,60        |
| PLTDG (Gas)   Gas DGPP                                               | -                        | -           | 57,68           | 4,58        | 12,86                    | 1,64        | 22,30                     | 21,12           | 1,60        |
| PLTDG (MFO)   MFO DGPP                                               | 2,86                     | 2,38        | -               | -           | 1,84                     | 4,93        | -                         | -               | -           |
| PLTDG (HSD)   HSD DGPP                                               | 6,42                     | 2,12        | 1,96            | 4,58        | 2,30                     | 3,71        | 117,18                    | -               | -           |
| <b>INDONESIA POWER</b>                                               | <b>1.718,37</b>          | <b>4,39</b> | <b>1.918,15</b> | <b>4,53</b> | <b>1.879,33</b>          | <b>4,36</b> | <b>97,98</b>              | <b>1.716,62</b> | <b>4,15</b> |

grafik graph 23 Realisasi Pemakaian Sendiri per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017 (%)  
Self Consumption Realization of Power Plant Type in 2015-2016 and Plan of 2017 (%)



tabel table  
**23**
 Pemakaian Sendiri per Jenis Pembangkit Tahun 2016  
 Self Consumption of Power Plant Type in 2016

| Jenis Pembangkit<br>Power Plant Type                     | Triwulan   Quarterly |       |        |       |        |       |        |        | 2016     |       |
|----------------------------------------------------------|----------------------|-------|--------|-------|--------|-------|--------|--------|----------|-------|
|                                                          | TWI                  |       | TWII   |       | TWIII  |       | TWIV   |        |          |       |
|                                                          | (GWh)                | (%PS) | (GWh)  | (%PS) | (GWh)  | (%PS) | (GWh)  | (%PS)  | (GWh)    | (%PS) |
| Jawa Bali Grid & Embedded  <br>Java Bali Grid & Embedded | 454,78               | 4,40  | 466,41 | 4,12  | 479,68 | 4,52  | 478,46 | 4,40   | 1.879,33 | 4,36  |
| PLTU   SPP                                               | 321,73               | 5,96  | 331,23 | 5,79  | 348,34 | 5,97  | 351,33 | 6,01   | 1.352,63 | 5,94  |
| PLTU (Batubara)   Coal-fired<br>SPP                      | 320,43               | 5,94  | 330,02 | 5,77  | 347,16 | 5,95  | 350,11 | 5,99   | 1.347,71 | 5,91  |
| PLTU (MFO)   MFO SPP                                     | 1,31                 | -     | 1,21   | -     | 1,18   | -     | 1,22   | -      | 4,92     | -     |
| PLTG   GTPP                                              | 2,21                 | 7,22  | 2,18   | 3,22  | 2,11   | 2,55  | 2,18   | 3,45   | 8,69     | 3,56  |
| PLTG (Gas)   Gas GTPP                                    | 0,29                 | 0,95  | 0,26   | 0,59  | 0,24   | 0,33  | 0,25   | 0,40   | 1,04     | 0,49  |
| PLTG (HSD)   HSD GTPP                                    | 1,92                 | 2.258 | 1,92   | 8,11  | 1,87   | 18,76 | 1,93   | 505,08 | 7,65     | 22,41 |
| PLTGU   CPP                                              | 88,07                | 3,02  | 88,85  | 2,92  | 86,02  | 3,30  | 78,38  | 3,05   | 341,32   | 3,07  |
| PLTG (Gas)   Gas CPP                                     | 87,84                | 3,03  | 88,64  | 2,92  | 85,29  | 3,30  | 78,31  | 3,05   | 340,08   | 3,07  |
| PLTG (HSD)   HSD CPP                                     | 0,23                 | 1,49  | 0,21   | 2,28  | 0,73   | 3,50  | 0,07   | 1,80   | 1,24     | 2,51  |
| PLTD   DPP                                               | 0,005                | 65,99 | 0,005  | 66,87 | -      | 67,93 | -      | 69,12  | 0,02     | 67,46 |
| PLTP   GPP                                               | 33,60                | 4,60  | 33,31  | 4,81  | 32,68  | 4,92  | 33,39  | 4,84   | 132,98   | 4,79  |
| PLTA   HPP                                               | 6,38                 | 0,53  | 7,19   | 0,45  | 5,27   | 0,48  | 7,96   | 0,57   | 26,80    | 0,50  |
| PLTDG   DGPP                                             | 2,80                 | 5,29  | 3,68   | 2,04  | 5,29   | 1,58  | 5,23   | 1,65   | 17,00    | 1,92  |
| PLTDG (Gas)   Gas DGPP                                   | -                    | -     | 2,41   | 1,77  | 5,27   | 1,58  | 5,18   | 1,64   | 12,86    | 1,64  |
| PLTDG (MFO)   MFO DGPP                                   | 1,73                 | 5,04  | 0,10   | 3,65  | -      | -     | -      | -      | 1,84     | 4,93  |
| PLTDG (HSD)   HSD DGPP                                   | 1,07                 | 5,76  | 1,16   | 2,83  | 0,02   | 1,58  | 0,05   | 4,35   | 2,30     | 3,71  |
| INDONESIA POWER                                          | 454,78               | 4,40  | 466,41 | 4,12  | 479,68 | 4,52  | 478,46 | 4,40   | 1.879,33 | 4,36  |

 grafik graph  
**24**
 Pemakaian Sendiri per Jenis Pembangkit Tahun 2016 (%)  
 Self Consumption of Power Plant Type in 2016 (%)




**Pemakaian Bahan Bakar**  
**Fuel Consumption**



## Pemakaian Bahan Bakar Fuel Consumption

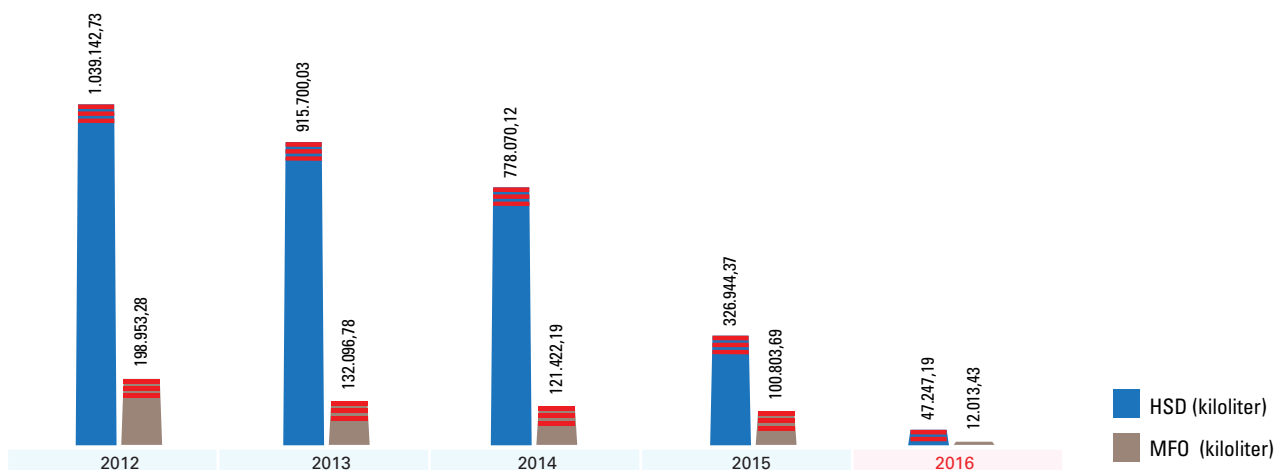
tabel table  
**24**

Pemakaian Bahan Bakar Tahun 2012-2016  
Fuel Consumption in 2012-2016

|                                                           | 2012          | 2013          | 2014          | 2015          | 2016           |
|-----------------------------------------------------------|---------------|---------------|---------------|---------------|----------------|
| Batubara   Coal (ton)                                     | 11.073.637,92 | 12.147.717,11 | 11.562.703,83 | 12.168.481,74 | 11.589.039,04  |
| Pertumbuhan Pemakaian Batubara<br>Coal Consumption Growth | (5,89)        | 9,70          | (4,82)        | 5,24          | (4,76)         |
| HSD (kiloliter)                                           | 1.039.142,73  | 915.700,03    | 778.070,12    | 326.944,37    | 47.247,19      |
| Pertumbuhan Pemakaian HSD<br>HSD Consumption Growth (%)   | (54,05)       | (11,88)       | (15,03)       | (57,98)       | (85,55)        |
| MFO (kiloliter)                                           | 198.953,28    | 132.096,78    | 121.422,19    | 100.803,69    | 12.013,43      |
| Pertumbuhan Pemakaian MFO<br>MFO Consumption Growth (%)   | (63,54)       | (33,60)       | (8,08)        | (16,98)       | (88,08)        |
| Gas (mmbtu)                                               | 57.648.169,95 | 65.226.077,55 | 62.838.572,47 | 76.851.476,82 | 111.002.525,34 |
| Pertumbuhan Pemakaian Gas<br>Gas Consumption Growth (%)   | 65,26         | 13,15         | (3,66)        | 22,30         | 44,44          |

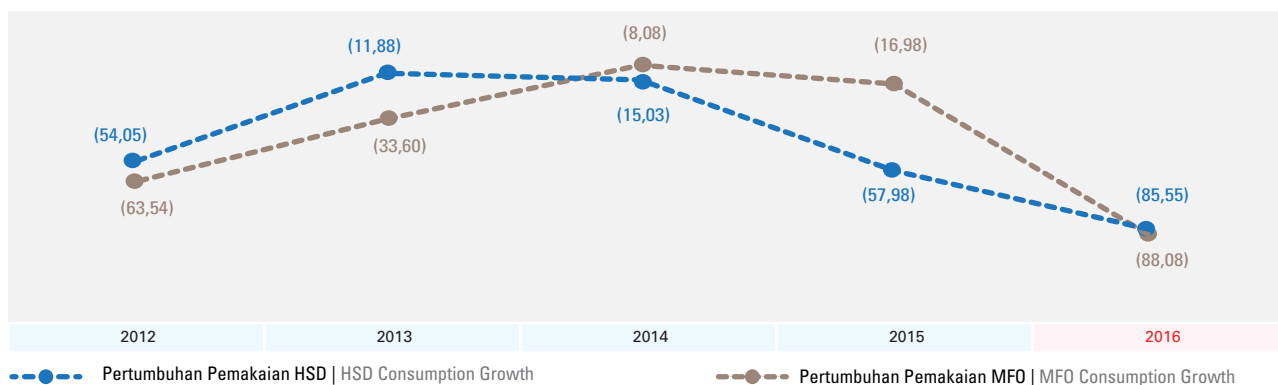
grafik graph  
**25**

Pemakaian Bahan Bakar HSD dan MFO Tahun 2012-2016 (kiloliter)  
HSD and MFO Fuel Consumption in 2012-2016 (kiloliter)



grafik graph  
**26**

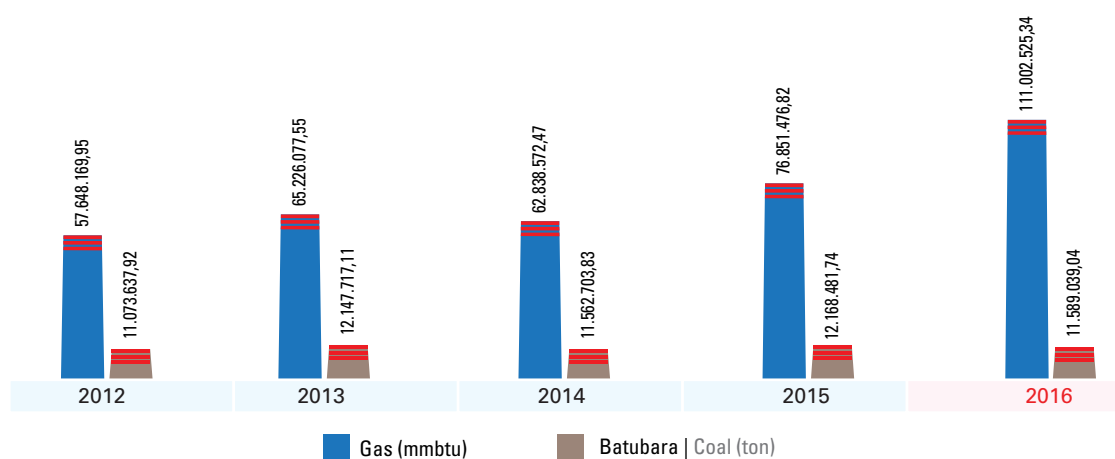
Pertumbuhan Pemakaian Bahan Bakar HSD dan MFO Tahun 2012-2016 (%)  
HSD and MFO Fuel Consumption Growth in 2012-2016 (%)





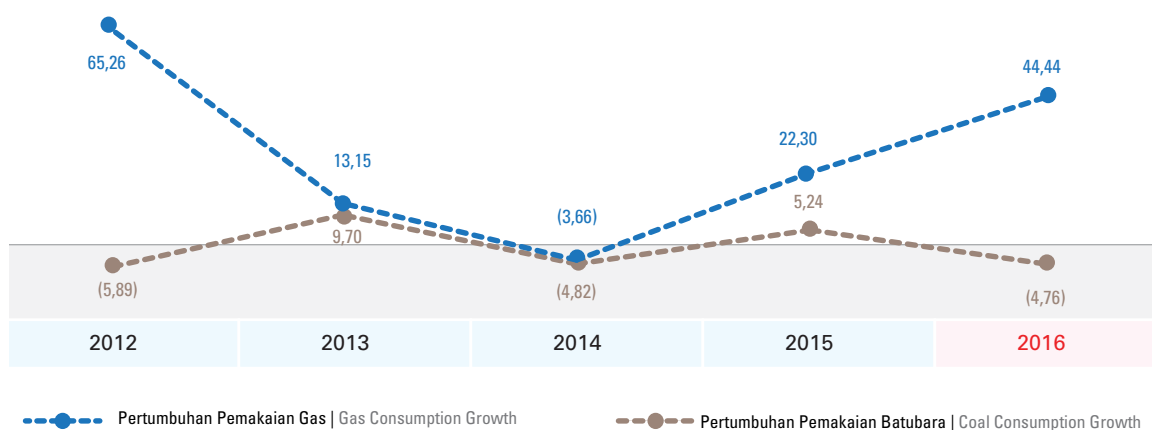
grafik graph  
**27**

**Pemakaian Bahan Bakar Gas (mmbtu) dan Batubara (ton) Tahun 2012-2016**  
Gas (mmbtu) and Coal (ton) Consumption in 2012-2016



grafik graph  
**28**

**Pertumbuhan Pemakaian Bahan Bakar Gas dan Batubara Tahun 2012-2016 (%)**  
Gas and Coal Consumption Growth in 2012-2016 (%)





## Pemakaian Bahan Bakar Per Unit

### Fuel Consumption Based on Unit

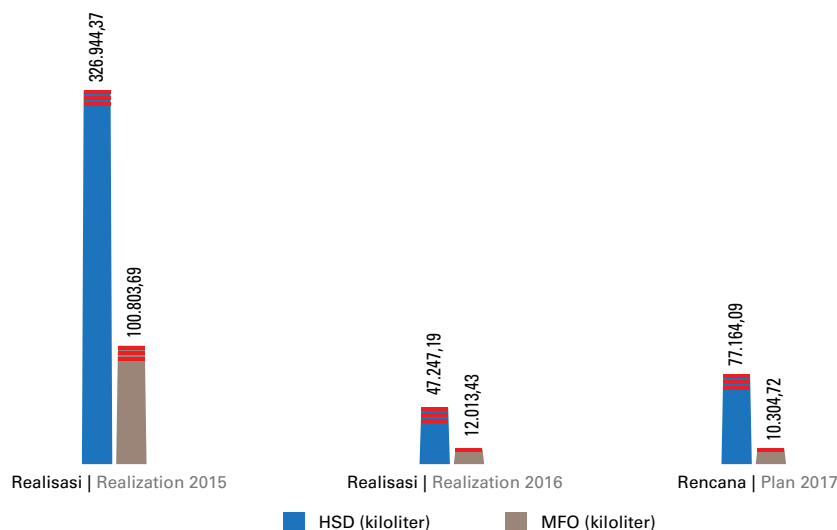
tabel table  
**25**

Realisasi Pemakaian Bahan Bakar per Unit Pembangkitan Tahun 2015-2016 dan Rencana Tahun 2017  
Fuel Consumption Realization Based on Unit in 2015-2016 and Plan of 2017

| Unit                                                     | Jenis Bahan Bakar<br>Fuel Type | Realisasi<br>Realization | Rencana<br>Plan | Realisasi<br>Realization | Pencapaian<br>Achievement<br>(%) | Rencana<br>Plan | Pertumbuhan<br>2016 terhadap<br>2015 (%) |
|----------------------------------------------------------|--------------------------------|--------------------------|-----------------|--------------------------|----------------------------------|-----------------|------------------------------------------|
|                                                          |                                | 2015                     | 2016            |                          |                                  | 2017            | Growth 2016 to<br>2015 (%)               |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                |                          |                 |                          |                                  |                 |                                          |
| Suralaya                                                 | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                            | 11.031.162,46   | (4,76)                                   |
|                                                          | HSD (kiloliter)                | 6.856,20                 | -               | 6.078,20                 | -                                | 9.700,00        | (11,35)                                  |
| Priok                                                    | HSD (kiloliter)                | 7.245,11                 | 8.145,00        | 10.570,65                | 129,78                           | 44.102,71       | 45,90                                    |
|                                                          | Gas (mmbtu)                    | 29.333.742,50            | 30.260.000,00   | 28.108.306,08            | 92,89                            | 29.074.223,10   | (4,18)                                   |
| Semarang                                                 | HSD (kiloliter)                | 656,36                   | 7.200,00        | 43,39                    | 0,60                             | 0,02            | (93,39)                                  |
|                                                          | Gas (mmbtu)                    | 23.690.310,75            | 51.027.000,00   | 48.563.920,98            | 95,17                            | 47.449.749,54   | 104,99                                   |
| Perak Grati                                              | HSD (kiloliter)                | 2.423,46                 | -               | 1.624,00                 | -                                | -               | (32,99)                                  |
|                                                          | Gas (mmbtu)                    | 23.827.423,57            | 36.276.400,00   | 27.476.517,03            | 75,74                            | 31.443.030,00   | 15,31                                    |
| Bali                                                     | HSD (kiloliter)                | 242.109,79               | 19.927,81       | 27.459,84                | 137,80                           | 11.106,35       | (88,66)                                  |
|                                                          | MFO (kiloliter)                | 25.817,20                | -               | 8.116,91                 | -                                | -               | -                                        |
| Project                                                  | Gas (mmbtu)                    | -                        | 11.209.728,00   | 6.853.781,25             | 61,14                            | 11.685.971,98   | -                                        |
|                                                          | Gas (mmbtu)                    | -                        | -               | -                        | -                                | 676.968,68      | -                                        |
| Total                                                    | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                            | 11.031.162,46   | (4,76)                                   |
|                                                          | HSD (kiloliter)                | 259.290,91               | 45.272,81       | 45.776,07                | 101,11                           | 64.909,09       | (82,35)                                  |
|                                                          | MFO (kiloliter)                | 25.817,20                | -               | 8.116,91                 | -                                | -               | (68,56)                                  |
|                                                          | Gas (mmbtu)                    | 76.851.476,82            | 128.773.128,00  | 111.002.525,34           | 86,20                            | 120.329.943,30  | 44,44                                    |
| B. Pembelian Listrik   Purchase of Electricity           |                                |                          |                 |                          |                                  |                 |                                          |
| Pesanggaran                                              | HSD (kiloliter)                | 67.653,46                | -               | 572,75                   | -                                | -               | (99,15)                                  |
|                                                          | MFO (kiloliter)                | 74.986,49                | 101.867,00      | 3.896,52                 | 3,83                             | 10.304,72       | (94,80)                                  |
| Karimunjawa                                              | Gas (mmbtu)                    | -                        | 89.000,00       | -                        | -                                | -               | -                                        |
|                                                          | HSD (kiloliter)                | -                        | -               | 898,38                   | -                                | 2.400,00        | -                                        |
| Nusa Penida                                              | HSD (kiloliter)                | -                        | -               | -                        | -                                | 9.855,00        | -                                        |
| INDONESIA POWER                                          | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                            | 11.031.162,46   | (4,76)                                   |
|                                                          | HSD (kiloliter)                | 326.944,37               | 45.272,81       | 47.247,19                | 104,36                           | 77.164,09       | (85,55)                                  |
|                                                          | MFO (kiloliter)                | 100.803,69               | 101.867,00      | 12.013,43                | 11,79                            | 10.304,72       | (88,08)                                  |
|                                                          | Gas (mmbtu)                    | 76.851.476,82            | 128.862.128,00  | 111.002.525,34           | 86,14                            | 120.329.943,30  | 44,44                                    |

grafik graph  
**29**

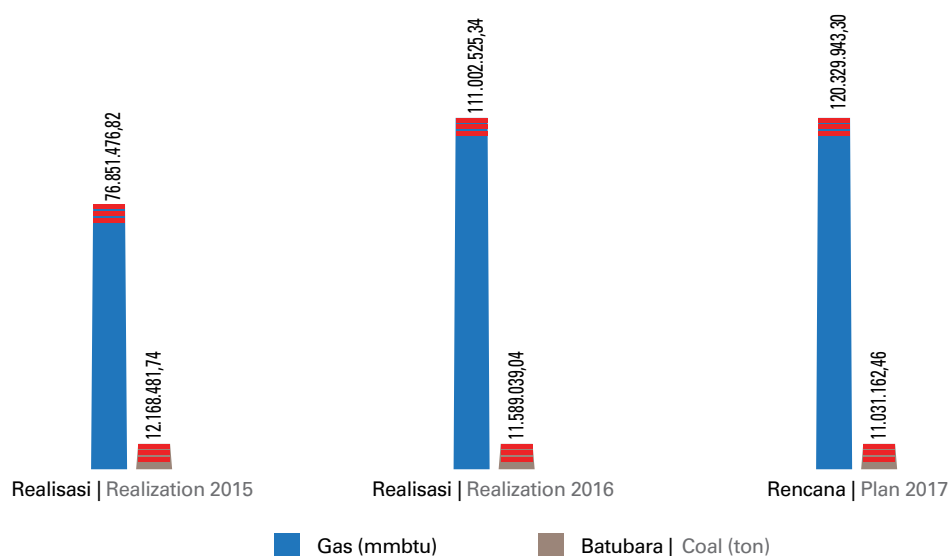
Realisasi Pemakaian Bahan Bakar HSD dan MFO per Unit Tahun 2015-2016 dan Rencana Tahun 2017 (kiloliter)  
HSD and MFO Consumption Realization Based on Unit in 2015-2016 and Plan of 2017 (kiloliter)





grafik graph  
**30**

**Realisasi Pemakaian Bahan Bakar Gas (mmbtu) dan Batubara (ton) 2015-2016 dan Rencana Tahun 2017**  
Gas (mmbtu) and Coal (ton) Consumption Realization in 2015-2016 and Plan of 2017



tabel table  
**26**

**Pemakaian Bahan Bakar per Unit Tahun 2016**  
Fuel Consumption Based on Unit in 2016

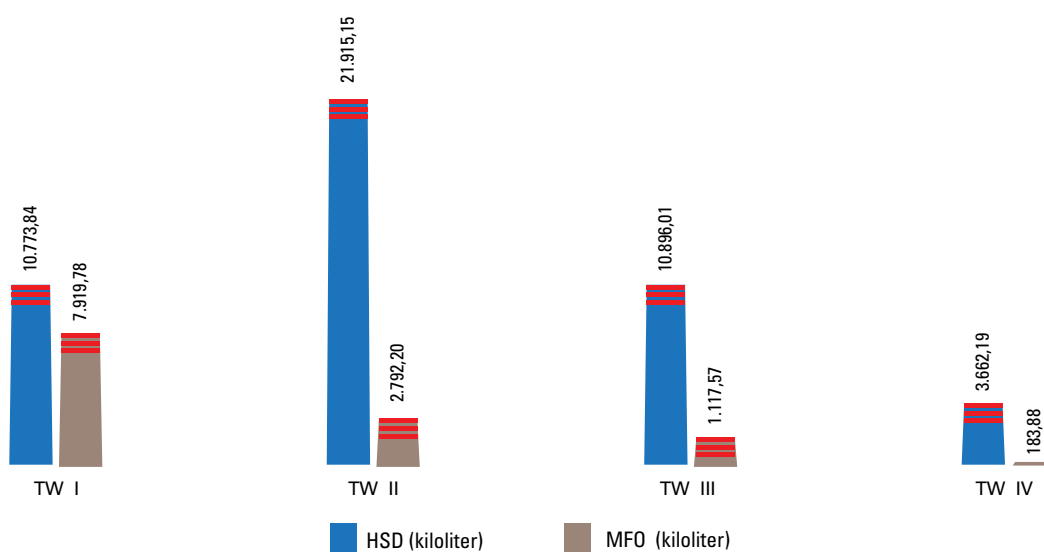
| Unit                                                     | Jenis Bahan Bakar     | Triwulan   Quarterly |               |               |               | 2016           |
|----------------------------------------------------------|-----------------------|----------------------|---------------|---------------|---------------|----------------|
|                                                          |                       | TW I                 | TW II         | TW III        | TW IV         |                |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                       |                      |               |               |               |                |
| Suralaya                                                 | Batubara   Coal (ton) | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)       | 2.570,50             | 1.290,40      | 1.302,90      | 914,40        | 6.078,20       |
| Priok                                                    | HSD (kiloliter)       | 2.934,41             | 1.368,74      | 5.225,91      | 1.041,59      | 10.570,65      |
|                                                          | Gas (mmbtu)           | 7.112.823,52         | 8.598.821,44  | 6.317.842,08  | 6.078.819,03  | 28.108.306,08  |
| Semarang                                                 | HSD (kiloliter)       | 4,28                 | 0,40          | -             | 38,72         | 43,39          |
|                                                          | Gas (mmbtu)           | 12.718.383,35        | 12.825.266,44 | 11.595.948,78 | 11.424.322,41 | 48.563.920,98  |
| Perak Grati                                              | HSD (kiloliter)       | 62,89                | 1.561,11      | (0,00)        | (0,00)        | 1.624,00       |
|                                                          | Gas (mmbtu)           | 6.535.524,02         | 6.589.373,47  | 6.686.396,14  | 7.665.223,40  | 27.476.517,03  |
| Bali                                                     | HSD (kiloliter)       | 5.089,30             | 17.413,14     | 4.216,21      | 741,19        | 27.459,84      |
|                                                          | MFO (kiloliter)       | 7.467,47             | 649,44        | -             | -             | 8.116,91       |
|                                                          | Gas (mmbtu)           | -                    | 1.163.950,27  | 2.915.165,14  | 2.774.665,84  | 6.853.781,25   |
| Total                                                    | Batubara   Coal (ton) | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)       | 10.661,37            | 21.633,79     | 10.745,02     | 2.735,89      | 45.776,07      |
|                                                          | MFO (kiloliter)       | 7.467,47             | 649,44        | -             | -             | 8.116,91       |
|                                                          | Gas (mmbtu)           | 26.366.730,90        | 29.177.411,62 | 27.515.352,14 | 27.943.030,67 | 111.002.525,34 |
| B. Pembelian Listrik   Purchase of Electricity           |                       |                      |               |               |               |                |
| Pesanggaran                                              | HSD (kiloliter)       | 112,47               | 281,36        | 150,99        | 27,92         | 572,75         |
|                                                          | MFO (kiloliter)       | 452,31               | 2.142,75      | 1.117,57      | 183,88        | 3.896,52       |
| Karimunjawa                                              | HSD (kiloliter)       | -                    | -             | -             | 898,38        | 898,38         |
| INDONESIA POWER                                          | Batubara   Coal (ton) | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)       | 10.773,84            | 21.915,15     | 10.896,01     | 3.662,19      | 47.247,19      |
|                                                          | MFO (kiloliter)       | 7.919,78             | 2.792,20      | 1.117,57      | 183,88        | 12.013,43      |
|                                                          | Gas (mmbtu)           | 26.366.730,90        | 29.177.411,62 | 27.515.352,14 | 27.943.030,67 | 111.002.525,34 |



grafik graph

31

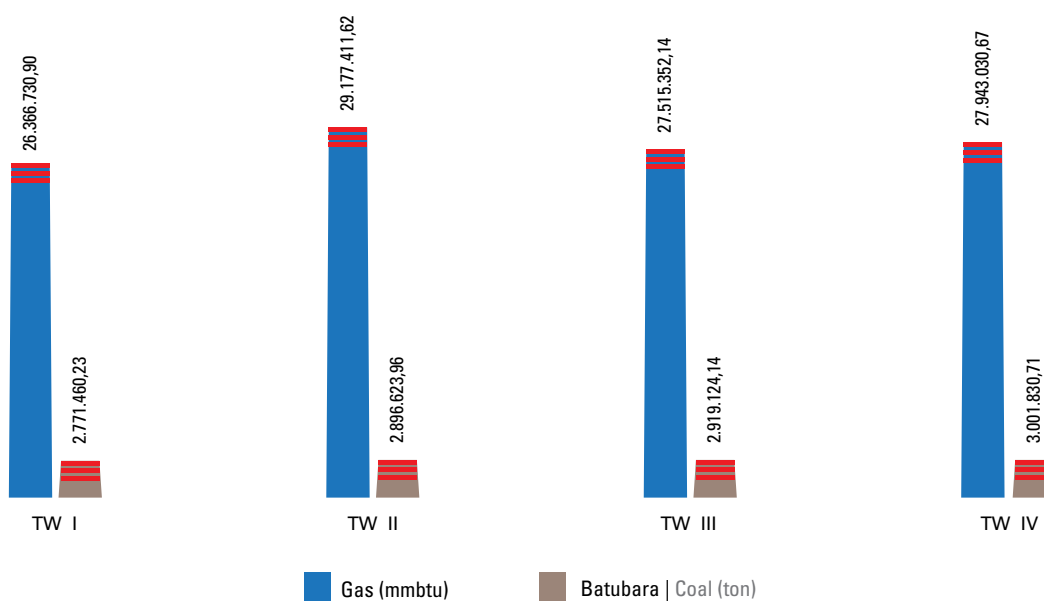
### Pemakaian Bahan Bakar HSD dan MFO Tahun 2016 (kiloliter) HSD and MFO Fuel Consumption in 2016 (kiloliter)



grafik graph

32

### Pemakaian Bahan Bakar Gas (mmbtu) dan Batubara (ton) Tahun 2016 Gas (mmbtu) and Coal (ton) Consumption in 2016





## Pemakaian Bahan Bakar Per Jenis pembangkit Fuel Consumption of Power Plant Type

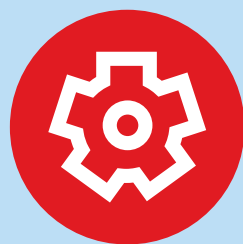
tabel table 27 Realisasi Pemakaian Bahan Bakar per Jenis Pembangkit Tahun 2015-2016 dan Rencana Tahun 2017  
Fuel Consumption Realization of Power Plant Type in 2015-2016 and Plan of 2017

| Jenis Pembangkit<br>Power Plant Type                     | Jenis Bahan Bakar<br>Fuel Type | Realisasi<br>Realization | Rencana<br>Plan | Realisasi<br>Realization | Pencapaian<br>Achievement (%) | Rencana<br>Plan | Pertumbuhan<br>2016 terhadap<br>2015 (%)<br>Growth 2016 to 2015 (%) |
|----------------------------------------------------------|--------------------------------|--------------------------|-----------------|--------------------------|-------------------------------|-----------------|---------------------------------------------------------------------|
|                                                          |                                | 2015                     | 2016            |                          |                               | 2017            |                                                                     |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                |                          |                 |                          |                               |                 |                                                                     |
| PLTU   SPP                                               | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                         | 11.031.162,46   | (4,76)                                                              |
|                                                          | HSD (kiloliter)                | 6.856,20                 | -               | 6.078,20                 | -                             | 9.700,00        | (11,35)                                                             |
|                                                          | Gas (mmbtu)                    | -                        | 6.739.406,90    | -                        | -                             | 7.797.749,54    | -                                                                   |
| PLTG   GTPP                                              | HSD (kiloliter)                | 171.748,49               | 8.160,14        | 12.640,26                | 154,90                        | 9.281,35        | (92,64)                                                             |
|                                                          | Gas (mmbtu)                    | 2.655.552,66             | 6.052.000,00    | 3.350.646,83             | 55,36                         | 5.511.498,68    | 26,18                                                               |
| PLTGU   CPP                                              | HSD (kiloliter)                | 7.740,60                 | 14.345,00       | 10.753,06                | 74,96                         | 44.102,74       | 38,92                                                               |
|                                                          | Gas (mmbtu)                    | 74.195.924,16            | 104.771.993,10  | 100.798.097,26           | 96,21                         | 95.334.723,10   | 35,85                                                               |
| PLTD   DPP                                               | HSD (kiloliter)                | -                        | -               | 8,51                     | -                             | -               | -                                                                   |
| PLTDG   DGPP                                             | HSD (kiloliter)                | 72.945,63                | 12.767,68       | 16.296,04                | 127,64                        | 1.825,00        | (77,66)                                                             |
|                                                          | MFO (kiloliter)                | 25.817,20                | -               | 8.116,91                 | -                             | -               | -                                                                   |
|                                                          | Gas (mmbtu)                    | -                        | 11.209.728,00   | 6.853.781,25             | 61,14                         | 11.685.971,98   | -                                                                   |
| Total                                                    | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                         | 11.031.162,46   | (4,76)                                                              |
|                                                          | HSD (kiloliter)                | 259.290,91               | 45.272,81       | 45.776,07                | 101,11                        | 64.909,09       | (82,35)                                                             |
|                                                          | MFO (kiloliter)                | 25.817,20                | -               | 8.116,91                 | -                             | -               | (68,56)                                                             |
|                                                          | Gas (mmbtu)                    | 76.851.476,82            | 128.773.128,00  | 111.002.525,34           | 86,20                         | 120.329.943,30  | 44,44                                                               |
| B. Pembelian Listrik   Purchase of Electricity           |                                |                          |                 |                          |                               |                 |                                                                     |
| PLTD   DPP                                               | HSD (kiloliter)                | 67.653,46                | -               | 1.471,13                 | -                             | 12.255,00       | (97,83)                                                             |
|                                                          | MFO (kiloliter)                | 74.986,49                | 101.867,00      | 3.896,52                 | 3,83                          | 10.304,72       | (94,80)                                                             |
|                                                          | Gas (mmbtu)                    | -                        | 89.000,00       | -                        | -                             | -               | -                                                                   |
| INDONESIA POWER                                          | Batubara   Coal (ton)          | 12.168.481,74            | 11.726.437,54   | 11.589.039,04            | 98,83                         | 11.031.162,46   | (4,76)                                                              |
|                                                          | HSD (kiloliter)                | 326.944,37               | 45.272,81       | 47.247,19                | 104,36                        | 77.164,09       | (85,55)                                                             |
|                                                          | MFO (kiloliter)                | 100.803,69               | 101.867,00      | 12.013,43                | 11,79                         | 10.304,72       | (88,08)                                                             |
|                                                          | Gas (mmbtu)                    | 76.851.476,82            | 128.862.128,00  | 111.002.525,34           | 86,14                         | 120.329.943,30  | 44,44                                                               |



tabel table | **Pemakaian Bahan Bakar per Jenis Pembangkit Tahun 2016**  
**28** Fuel Consumption of Power Plant Type in 2016

| Jenis Pembangkit<br>Power Plant Type                     | Jenis Bahan Bakar<br>Fuel Type | Triwulan   Quarterly |               |               |               | 2016           |
|----------------------------------------------------------|--------------------------------|----------------------|---------------|---------------|---------------|----------------|
|                                                          |                                | TW I                 | TW II         | TW III        | TW IV         |                |
| A. Jawa Bali Grid & Embedded   Java Bali Grid & Embedded |                                |                      |               |               |               |                |
| PLTU   SPP                                               | Batubara   Coal (ton)          | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)                | 2.570,50             | 1.290,40      | 1.302,90      | 914,40        | 6.078,20       |
| PLTG   GTPP                                              | HSD (kiloliter)                | 100,63               | 8.727,74      | 3.632,74      | 179,16        | 12.640,26      |
|                                                          | Gas (mmbtu)                    | 518.643,47           | 713.085,49    | 1.145.529,85  | 973.388,03    | 3.350.646,83   |
| PLTGU   CPP                                              | HSD (kiloliter)                | 2.936,11             | 1.514,90      | 5.223,76      | 1.078,30      | 10.753,06      |
|                                                          | Gas (mmbtu)                    | 25.848.087,43        | 27.300.375,86 | 23.454.657,16 | 24.194.976,81 | 100.798.097,26 |
| PLTD   DPP                                               | HSD (kiloliter)                | 2,17                 | 2,18          | 2,15          | 2,01          | 8,51           |
| PLTDG   DGPP                                             | HSD (kiloliter)                | 5.051,96             | 10.098,58     | 583,47        | 562,03        | 16.296,04      |
|                                                          | MFO (kiloliter)                | 7.467,47             | 649,44        | -             | -             | 8.116,91       |
|                                                          | Gas (mmbtu)                    | -                    | 1.163.950,27  | 2.915.165,14  | 2.774.665,84  | 6.853.781,25   |
| Total                                                    | Batubara   Coal (ton)          | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)                | 10.661,37            | 21.633,79     | 10.745,02     | 2.735,89      | 45.776,07      |
|                                                          | MFO (kiloliter)                | 7.467,47             | 649,44        | -             | -             | 8.116,91       |
|                                                          | Gas (mmbtu)                    | 26.366.730,90        | 29.177.411,62 | 27.515.352,14 | 27.943.030,67 | 111.002.525,34 |
| B. Pembelian Listrik   Purchase of Electricity           |                                |                      |               |               |               |                |
| PLTD   DPP                                               | HSD (kiloliter)                | 112,47               | 281,36        | 150,99        | 926,30        | 1.471,13       |
|                                                          | MFO (kiloliter)                | 452,31               | 2.142,75      | 1.117,57      | 183,88        | 3.896,52       |
| INDONESIA POWER                                          | Batubara   Coal (ton)          | 2.771.460,23         | 2.896.623,96  | 2.919.124,14  | 3.001.830,71  | 11.589.039,04  |
|                                                          | HSD (kiloliter)                | 10.773,84            | 21.915,15     | 10.896,01     | 3.662,19      | 47.247,19      |
|                                                          | MFO (kiloliter)                | 7.919,78             | 2.792,20      | 1.117,57      | 183,88        | 12.013,43      |
|                                                          | Gas (mmbtu)                    | 26.366.730,90        | 29.177.411,62 | 27.515.352,14 | 27.943.030,67 | 111.002.525,34 |



**Kinerja Operasional**  
**Operational Performance**



## Kinerja Operasional Operational Performance

tabel table  
**29**

Kinerja Operasional Indonesia Power Tahun 2012-2016  
Indonesia Power Operational Performance in 2012-2016

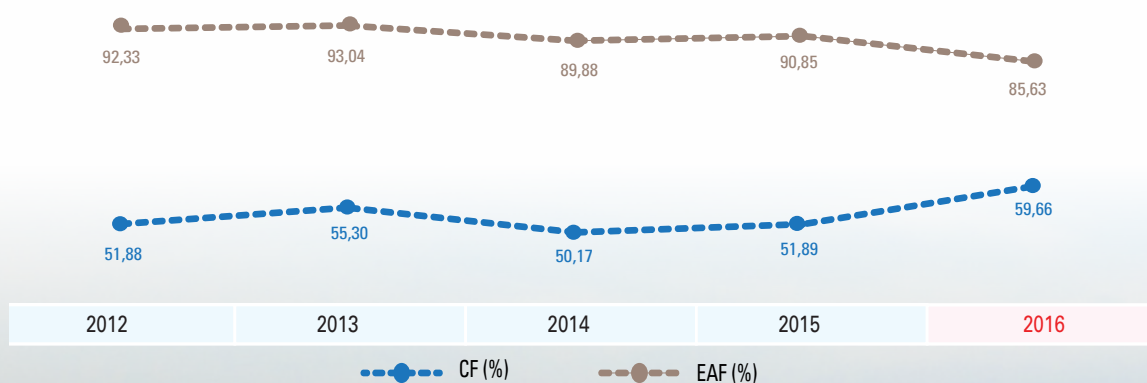
| Unsur Kinerja<br>Performance Factor   | Tahun   Year |       |       |       |        |
|---------------------------------------|--------------|-------|-------|-------|--------|
|                                       | 2012         | 2013  | 2014  | 2015  | 2016*) |
| Faktor Efisiensi   Efficiency Factor  |              |       |       |       |        |
| CF (%)                                | 51,88        | 55,30 | 50,17 | 51,89 | 59,66  |
| Faktor Keandalan   Reliability Factor |              |       |       |       |        |
| EAF (%)                               | 92,33        | 93,04 | 89,88 | 90,85 | 85,63  |

\*) Dalam perhitungan kinerja EAF Perusahaan di tahun 2016 ditambahkan kinerja EAF Jasa O&M FastTrack Program- 1 (FTP1).

\*) EAF performance calculation in 2016 in addition to EAF performance of FastTrack Program-1 (FTP1) of O&M service.

grafik graph  
**33**

Kinerja Operasional Indonesia Power Tahun 2012-2016 (%)  
Indonesia Power Operational Performance in 2012-2016 (%)





tabel table  
**30**

**Realisasi Equivalent Availability Factor (EAF) Tahun 2015-2016 dan Rencana Tahun 2017**  
EAF Realization in 2015-2016 and Plan of 2017

| Unit                                                    | Realisasi<br>Realization | Rencana<br>Plan | Realisasi<br>Realization | Pencapaian<br>Achievement (%) | Rencana<br>Plan |
|---------------------------------------------------------|--------------------------|-----------------|--------------------------|-------------------------------|-----------------|
|                                                         | 2015                     |                 | 2016                     |                               | 2017            |
| <b>A. Unit Pembangkit Power Plant Unit</b>              |                          |                 |                          |                               |                 |
| Suralaya                                                | 91,41                    | 90,00           | 89,72                    | 99,69                         | 90,74           |
| Priok                                                   | 90,81                    | 89,40           | 90,98                    | 101,77                        | 90,68           |
| Saguling                                                | 92,26                    | 91,21           | 91,06                    | 99,84                         | 94,28           |
| Kamojang                                                | 96,61                    | 92,91           | 94,10                    | 101,28                        | 92,16           |
| Semarang                                                | 84,09                    | 88,48           | 87,09                    | 98,44                         | 87,09           |
| Mrica                                                   | 98,09                    | 96,55           | 97,61                    | 101,10                        | 96,96           |
| Perak Grati                                             | 93,44                    | 92,51           | 94,54                    | 102,19                        | 92,97           |
| Bali                                                    | 87,19                    | 88,10           | 92,76                    | 105,29                        | 90,72           |
| <b>Total</b>                                            | <b>90,85</b>             | <b>90,32</b>    | <b>90,81</b>             | <b>100,55</b>                 | <b>91,13</b>    |
| <b>B. Jasa O&amp;M FTP-1   Service of O&amp;M FTP-1</b> |                          |                 |                          |                               |                 |
| Suralaya 8                                              | -                        | 78,28           | 61,17                    | 78,14                         | 71,71           |
| Labuan                                                  | -                        | 82,36           | 85,96                    | 104,37                        | 76,29           |
| Lontar                                                  | -                        | 81,64           | 83,37                    | 102,12                        | 84,50           |
| Palabuhan Ratu                                          | -                        | 81,31           | 52,29                    | 64,31                         | 83,28           |
| Priok Blok 3                                            | -                        | 90,08           | 89,94                    | 99,84                         | 89,60           |
| Cilegon                                                 | -                        | 88,86           | 91,02                    | 102,43                        | 90,25           |
| Adipala                                                 | -                        | -               | -                        | -                             | 86,39           |
| <b>TOTAL</b>                                            | -                        | <b>83,70</b>    | <b>76,00</b>             | <b>90,80</b>                  | <b>83,55</b>    |
| <b>INDONESIA POWER</b>                                  | <b>90,85</b>             | <b>88,00</b>    | <b>85,63</b>             | <b>97,30</b>                  | <b>88,20</b>    |





tabel table

31

### Realisasi Capacity Factor (CF) Tahun 2015-2016 dan Rencana Tahun 2017 CF Realization in 2015-2016 and Plan of 2017

| Unit                                                    | Realisasi<br>Realization | Rencana<br>Plan | Realisasi<br>Realization | Pencapaian<br>Achievement (%) | Rencana<br>Plan |
|---------------------------------------------------------|--------------------------|-----------------|--------------------------|-------------------------------|-----------------|
|                                                         | 2015                     |                 | 2016                     |                               | 2017            |
| <b>A. Unit Pembangkit Power Plant Unit</b>              |                          |                 |                          |                               |                 |
| Suralaya                                                | 78,93                    | 74,91           | 75,99                    | 101,44                        | 73,38           |
| Priok                                                   | 34,79                    | 35,66           | 32,29                    | 90,55                         | 42,28           |
| Saguling                                                | 35,82                    | 37,93           | 58,25                    | 153,58                        | 37,43           |
| Kamojang                                                | 96,44                    | 89,35           | 92,17                    | 103,16                        | 91,73           |
| Semarang                                                | 24,89                    | 53,29           | 49,80                    | 93,46                         | 56,55           |
| Mrica                                                   | 32,77                    | 36,88           | 45,11                    | 122,32                        | 37,50           |
| Perak Grati                                             | 32,83                    | 50,55           | 43,56                    | 86,17                         | 48,43           |
| Bali                                                    | 18,47                    | 27,57           | 20,12                    | 72,99                         | 29,81           |
| <b>Total</b>                                            | <b>51,89</b>             | <b>56,79</b>    | <b>57,69</b>             | <b>101,57</b>                 | <b>58,06</b>    |
| <b>B. Jasa O&amp;M FTP-1   Service of O&amp;M FTP-1</b> |                          |                 |                          |                               |                 |
| Suralaya 8                                              | -                        | 69,17           | 48,66                    | 70,35                         | 49,50           |
| Labuan                                                  | -                        | 60,85           | 76,14                    | 125,13                        | 68,00           |
| Lontar                                                  | -                        | 61,93           | 73,64                    | 118,90                        | 75,00           |
| Palabuhan Ratu                                          | -                        | 64,10           | 44,02                    | 68,67                         | 75,00           |
| Priok Blok 3                                            | -                        | 52,71           | 54,70                    | 103,78                        | 73,18           |
| Cilegon                                                 | -                        | 80,10           | 90,40                    | 112,86                        | 72,39           |
| Adipala                                                 | -                        | -               | -                        | -                             | 53,08           |
| <b>TOTAL</b>                                            | <b>-</b>                 | <b>64,49</b>    | <b>63,36</b>             | <b>98,25</b>                  | <b>67,84</b>    |
| <b>INDONESIA POWER</b>                                  | <b>51,89</b>             | <b>59,77</b>    | <b>59,66</b>             | <b>99,82</b>                  | <b>60,10</b>    |

tabel table

32

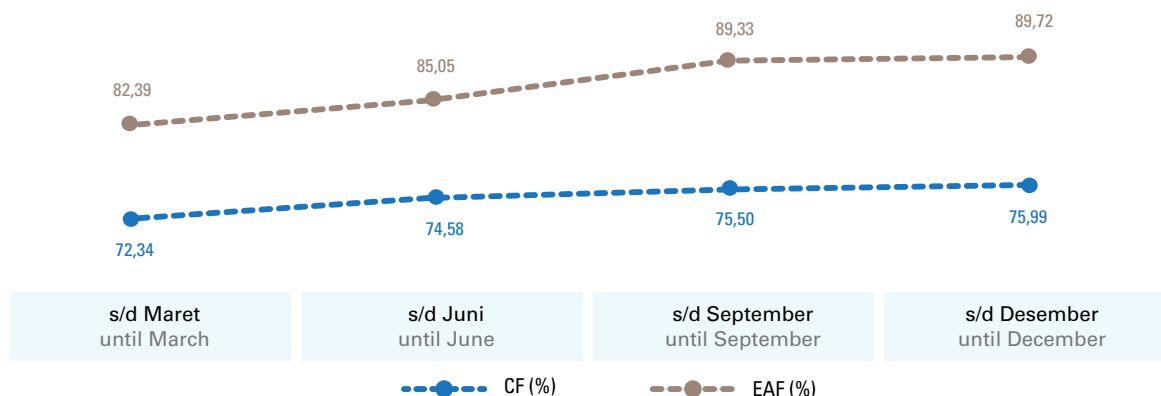
### Kinerja Unit Pembangkitan Suralaya Tahun 2016 Suralaya Generating Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 72,34                    | 74,58                  | 75,50                            | 75,99                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 82,39                    | 85,05                  | 89,33                            | 89,72                          |

grafik graph

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### Kinerja Unit Pembangkitan Suralaya Tahun 2016 (%) Suralaya Generating Unit Performance in 2016 (%)





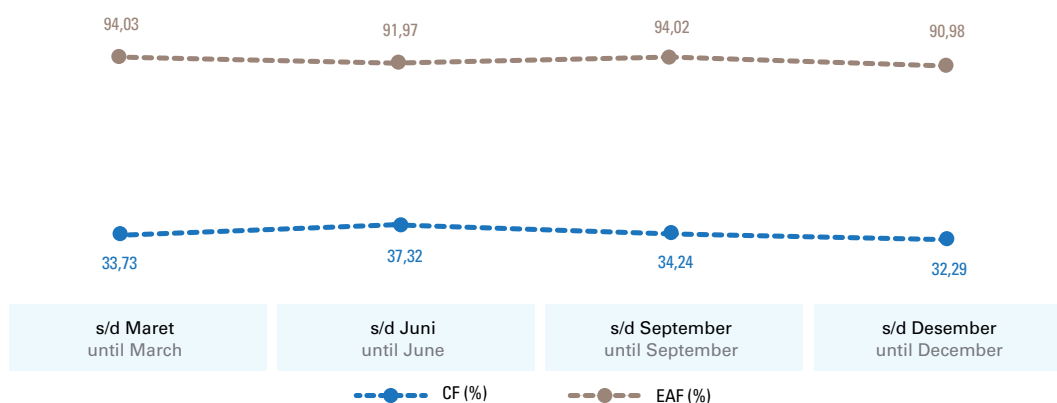
tabel table  
**33**

**Kinerja Unit Pembangkitan dan Jasa Pembangkitan Priok Tahun 2016**  
Priok Generating and Generating Services Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan   Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 33,73                    | 37,32                  | 34,24                            | 32,29                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 94,03                    | 91,97                  | 94,02                            | 90,98                          |

grafik graph  
**35**

**Kinerja Unit Pembangkitan dan Jasa Pembangkitan Priok Tahun 2016 (%)**  
Priok Generating and Generating Services Unit Performance in 2016 (%)



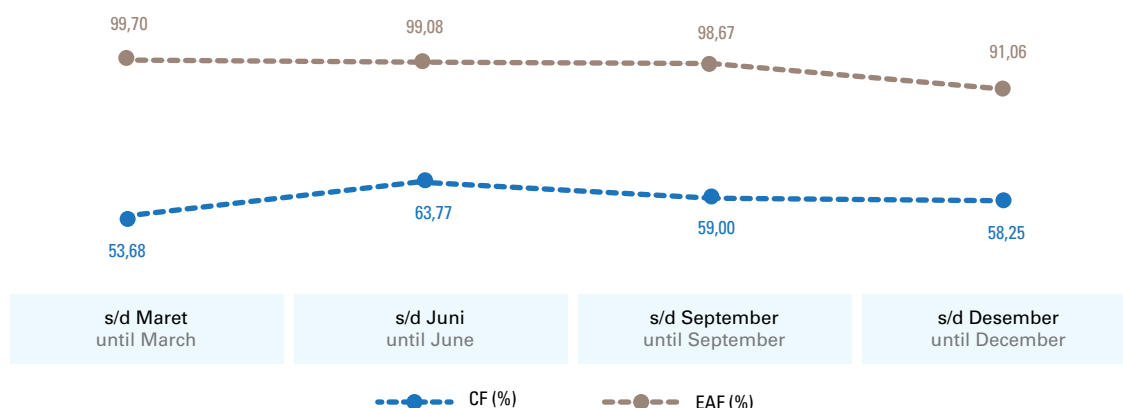
tabel table  
**34**

**Kinerja Unit Pembangkitan Saguling Tahun 2016**  
Saguling Generating Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan   Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 53,68                    | 63,77                  | 59,00                            | 58,25                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 99,70                    | 99,08                  | 98,67                            | 91,06                          |

grafik graph  
**36**

**Kinerja Unit Pembangkitan Saguling Tahun 2016 (%)**  
Saguling Generating Unit Performance in 2016 (%)





tabel table

35

### Kinerja Unit Pembangkitan dan Jasa Pembangkitan Kamojang Tahun 2016

#### Kamojang Generating and Generating Services Unit Performance in 2016

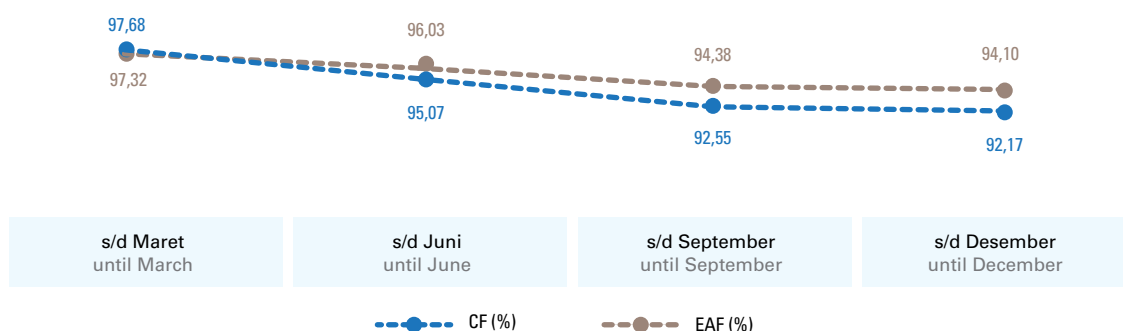
| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 97,68                    | 95,07                  | 92,55                            | 92,17                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 97,32                    | 96,03                  | 94,38                            | 94,10                          |

grafik graph

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### Kinerja Unit Pembangkitan dan Jasa Pembangkitan Kamojang Tahun 2016 (%)

#### Kamojang Generating and Generating Services Unit Performance in 2016 (%)



tabel table

36

### Kinerja Unit Pembangkitan Mrica Tahun 2016

#### Mrica Generating Unit Performance in 2016

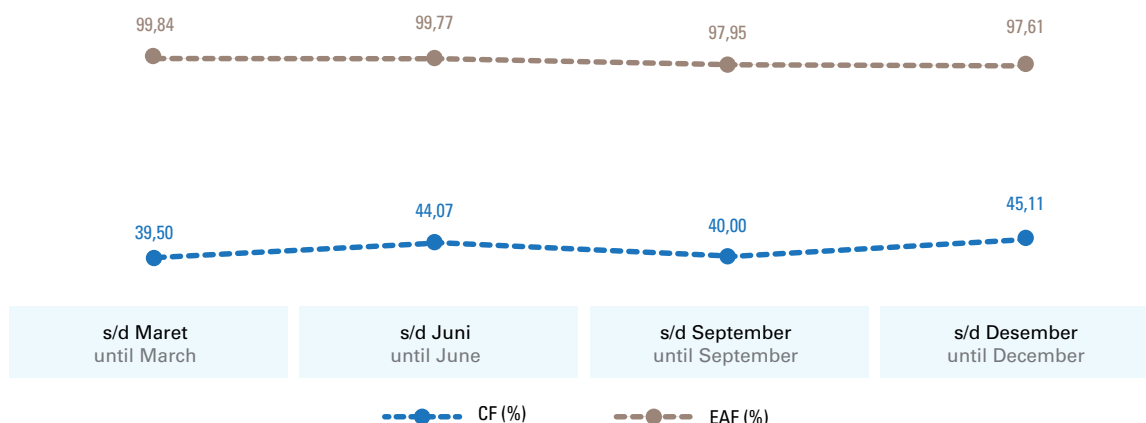
| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 39,50                    | 44,07                  | 40,00                            | 45,11                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 99,84                    | 99,77                  | 97,95                            | 97,61                          |

grafik graph

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### Kinerja Unit Pembangkitan Mrica Tahun 2016 (%)

#### Mrica Generating Unit Performance in 2016 (%)

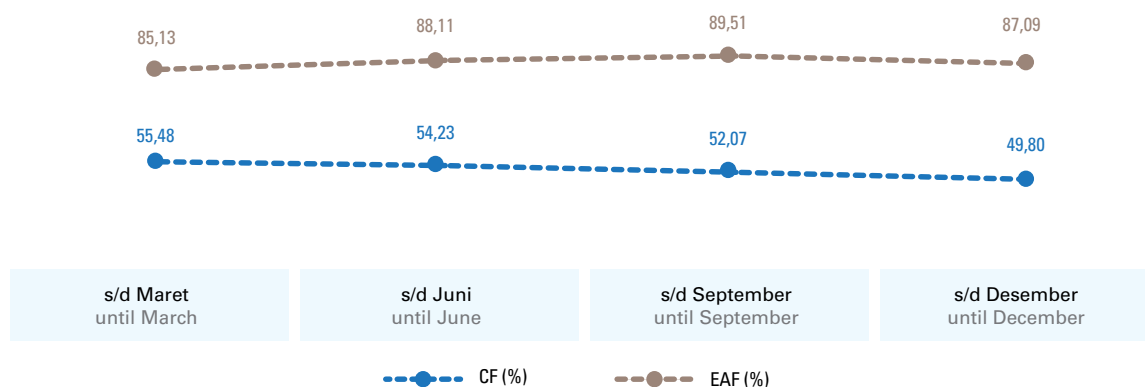




tabel table **37** Kinerja Unit Pembangkitan Semarang Tahun 2016  
Semarang Generating Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 55,48                    | 54,23                  | 52,07                            | 49,80                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 85,13                    | 88,11                  | 89,51                            | 87,09                          |

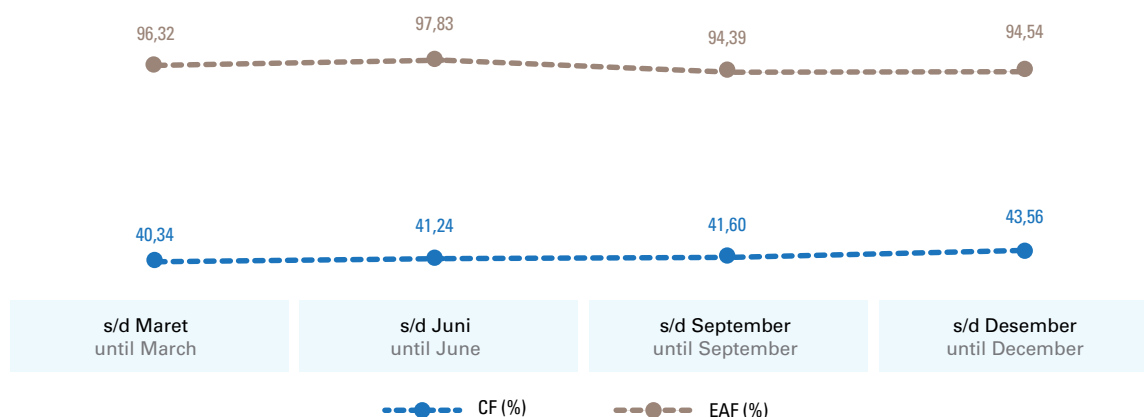
grafik graph **39** Kinerja Unit Pembangkitan Semarang Tahun 2016 (%)  
Semarang Generating Unit Performance in 2016 (%)



tabel table **38** Kinerja Unit Pembangkitan Perak Grati Tahun 2016  
Perak Grati Generating Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 40,34                    | 41,24                  | 41,60                            | 43,56                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 96,32                    | 97,83                  | 94,39                            | 94,54                          |

grafik graph **40** Kinerja Unit Pembangkitan Perak Grati Tahun 2016 (%)  
Perak Grati Generating Unit Performance in 2016 (%)





tabel table

39

### Kinerja Unit Pembangkitan Bali Tahun 2016

#### Bali Generating Unit Performance in 2016

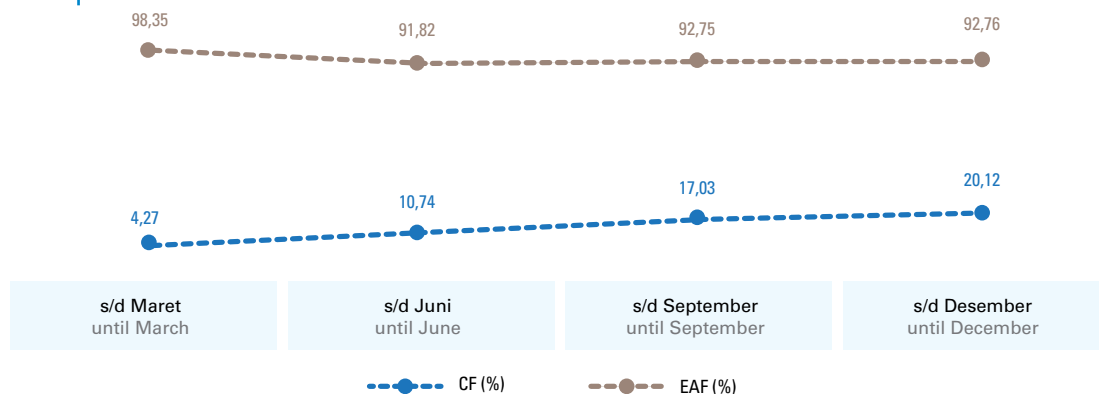
| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 4,27                     | 10,74                  | 17,03                            | 20,12                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 98,35                    | 91,82                  | 92,75                            | 92,76                          |

grafik graph

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### Kinerja Unit Pembangkitan Bali Tahun 2016 (%)

#### Bali Generating Unit Performance in 2016 (%)



tabel table

40

### Kinerja Unit Jasa Pembangkitan Suralaya 8 Tahun 2016

#### Suralaya 8 Generating Services Unit Performance in 2016

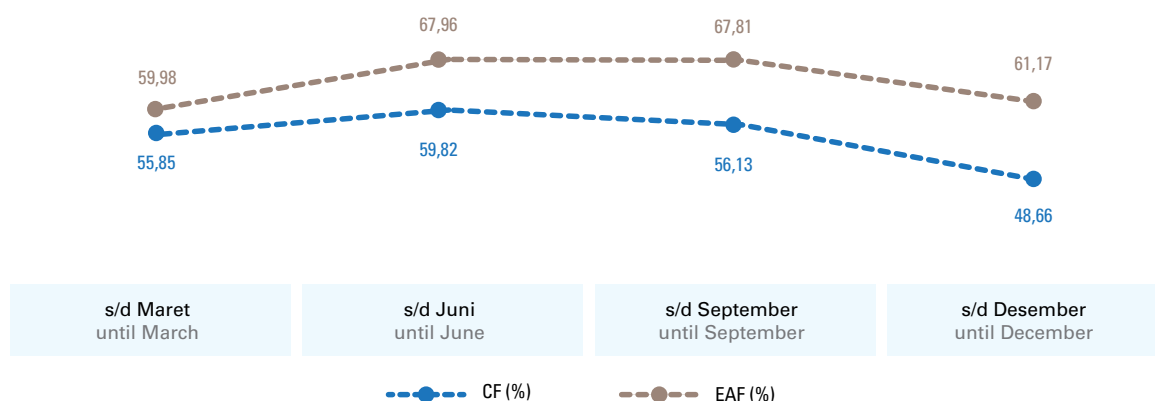
| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 55,85                    | 59,82                  | 56,13                            | 48,66                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 59,98                    | 67,96                  | 67,81                            | 61,17                          |

grafik graph

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### Kinerja Unit Jasa Pembangkitan Suralaya 8 Tahun 2016 (%)

#### Suralaya 8 Generating Services Unit Performance in 2016 (%)





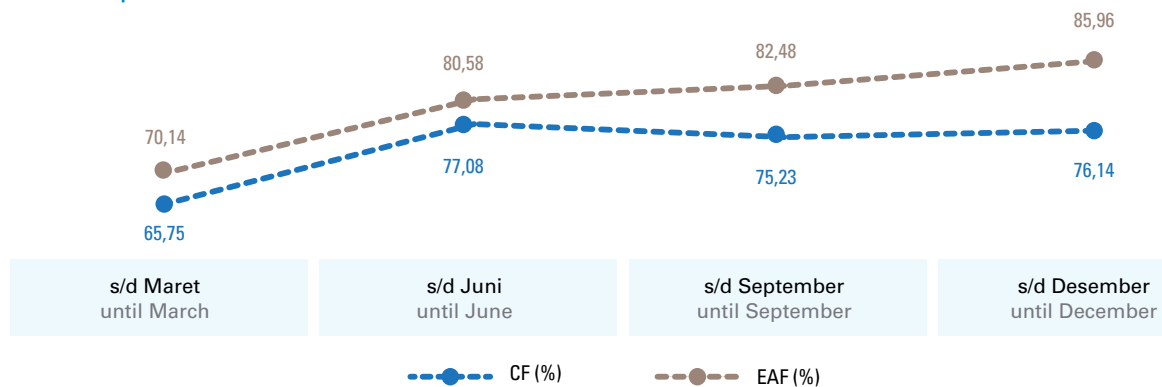
tabel table  
**41**

**Kinerja Unit Jasa Pembangkitan Labuan Tahun 2016**  
Labuan Generating Services Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 65,75                    | 77,08                  | 75,23                            | 76,14                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 70,14                    | 80,58                  | 82,48                            | 85,96                          |

grafik graph  
**43**

**Kinerja Unit Jasa Pembangkitan Labuan Tahun 2016 (%)**  
Labuan Generating Services Unit Performance in 2016 (%)



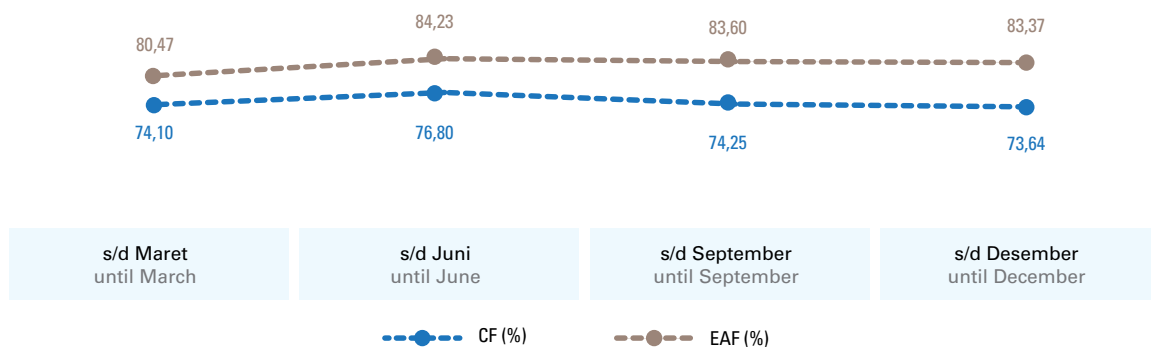
tabel table  
**42**

**Kinerja Unit Jasa Pembangkitan Lontar Tahun 2016**  
Lontar Generating Services Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 74,10                    | 76,80                  | 74,25                            | 73,64                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 80,47                    | 84,23                  | 83,60                            | 83,37                          |

grafik graph  
**44**

**Kinerja Unit Jasa Pembangkitan Lontar Tahun 2016 (%)**  
Lontar Generating Services Unit Performance in 2016 (%)





tabel table

43

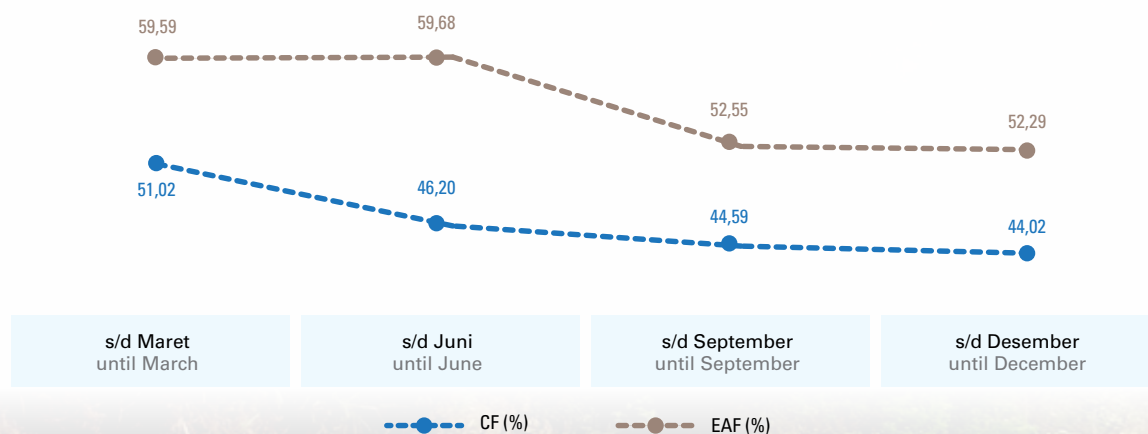
### Kinerja Unit Jasa Pembangkitan Palabuhan Ratu Tahun 2016 Palabuhan Ratu Generating Services Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 51,02                    | 46,20                  | 44,59                            | 44,02                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 59,59                    | 59,68                  | 52,55                            | 52,29                          |

grafik graph

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### Kinerja Unit Jasa Pembangkitan Palabuhan Ratu Tahun 2016 (%) Palabuhan Ratu Generating Services Unit Performance in 2016 (%)





tabel table

**44**

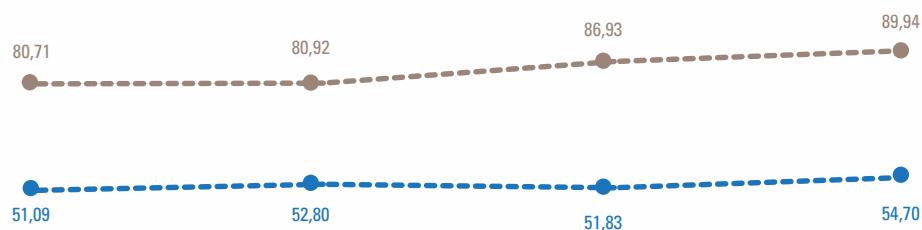
**Kinerja Jasa O&M PLTGU Priok Blok 3 Tahun 2016**  
Performance of O&M Service of Priok Block 3 CPP in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 51,09                    | 52,80                  | 51,83                            | 54,70                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 80,71                    | 80,92                  | 86,93                            | 89,94                          |

grafik graph

**46**

**Kinerja Jasa O&M PLTGU Priok Blok 3 Tahun 2016 (%)**  
Performance of O&M Service of Priok Block 3 CPP in 2016 (%)



s/d Maret  
until March

s/d Juni  
until June

s/d September  
until September

s/d Desember  
until December

---●--- CF (%)

---●--- EAF (%)





tabel table  
**45**

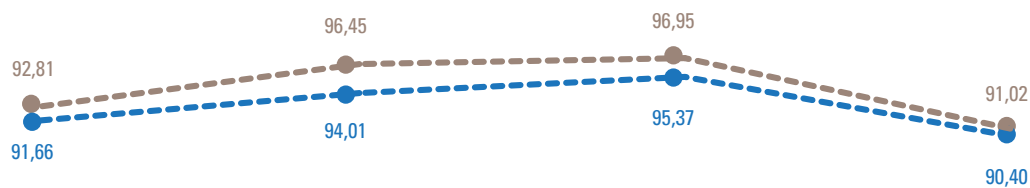
### Kinerja Unit Jasa Pembangkitan Cilegon Tahun 2016 Cilegon Generating Services Unit Performance in 2016

| Unsur Kinerja<br>Performance Factor   | Triwulan I Quarter       |                        |                                  |                                |
|---------------------------------------|--------------------------|------------------------|----------------------------------|--------------------------------|
|                                       | s/d Maret<br>Until March | s/d Juni<br>Until June | s/d September<br>Until September | s/d Desember<br>Until December |
| Faktor Efisiensi   Efficiency Factor  |                          |                        |                                  |                                |
| CF (%)                                | 91,66                    | 94,01                  | 95,37                            | 90,40                          |
| Faktor Keandalan   Reliability Factor |                          |                        |                                  |                                |
| EAF (%)                               | 92,81                    | 96,45                  | 96,95                            | 91,02                          |

grafik graph

**47**

### Kinerja Unit Jasa Pembangkitan Cilegon Tahun 2016 (%) Cilegon Generating Services Unit Performance in 2016 (%)



s/d Maret  
until March

s/d Juni  
until June

s/d September  
until September

s/d Desember  
until December

---●--- CF (%)

---●--- EAF (%)



Keuangan  
Financial

## Keuangan Financial

 tabel table  
**46**

### Jumlah Aset, Laba Tahun Berjalan, Pendapatan Usaha dan Pendapatan Penjualan Energi Listrik Tahun 2012-2016

Total Asset, Income of the Year, Revenues and Electricity Sales Revenue in 2012-2016

| Uraian                                                      | 2012      | 2013      | 2014      | 2015*)     | 2016       | Description                                     |
|-------------------------------------------------------------|-----------|-----------|-----------|------------|------------|-------------------------------------------------|
| Jumlah Aset<br>(dalam Rp miliar)                            | 53.557,38 | 53.480,49 | 53.248,06 | 226.720,25 | 220.888,02 | Total Asset<br>(in billion Rp)                  |
| Pertumbuhan                                                 | 0,14      | (0,14)    | (0,43)    | 325,78     | (2,57)     | Growth (%)                                      |
| Jumlah Laba Tahun<br>Berjalan (dalam Rp miliar)             | 1.266,74  | 1.242,47  | 1.647,23  | 4.672,52   | 2.886,70   | Total Income for the<br>Year (in billion Rp)    |
| Pertumbuhan                                                 | 9,43      | (1,92)    | 32,58     | 183,66     | (38,22)    | Growth (%)                                      |
| Pendapatan Usaha<br>(dalam Rp miliar)                       | 32.472,48 | 33.531,49 | 35.723,62 | 32.020,19  | 36.705,95  | Revenues (in billion Rp)                        |
| Pertumbuhan                                                 | (25,21)   | 3,26      | 6,54      | (10,37)    | 14,63      | Growth (%)                                      |
| Pendapatan Penjualan<br>Energi Listrik<br>(dalam Rp miliar) | 31.852,55 | 32.933,05 | 34.828,75 | 30.680,91  | 34.504,12  | Electricity Sales<br>Revenue<br>(in billion Rp) |
| Pertumbuhan                                                 | (25,78)   | 3,39      | 5,76      | (11,91)    | 12,46      | Growth (%)                                      |

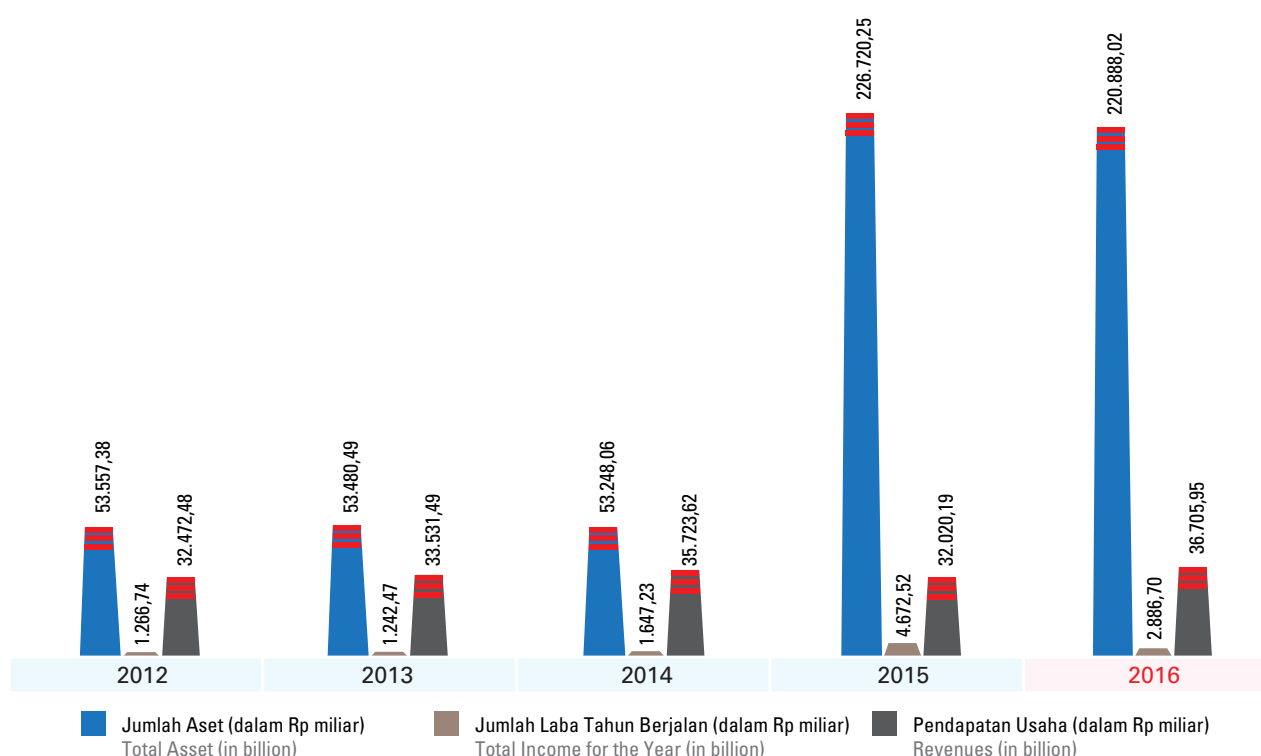
\*) Penyampaian kembali angka keuangan tahun 2015 sesuai dengan ISAK 8

\*) Restatement of financial figures in 2015 is in line with ISFAS 8

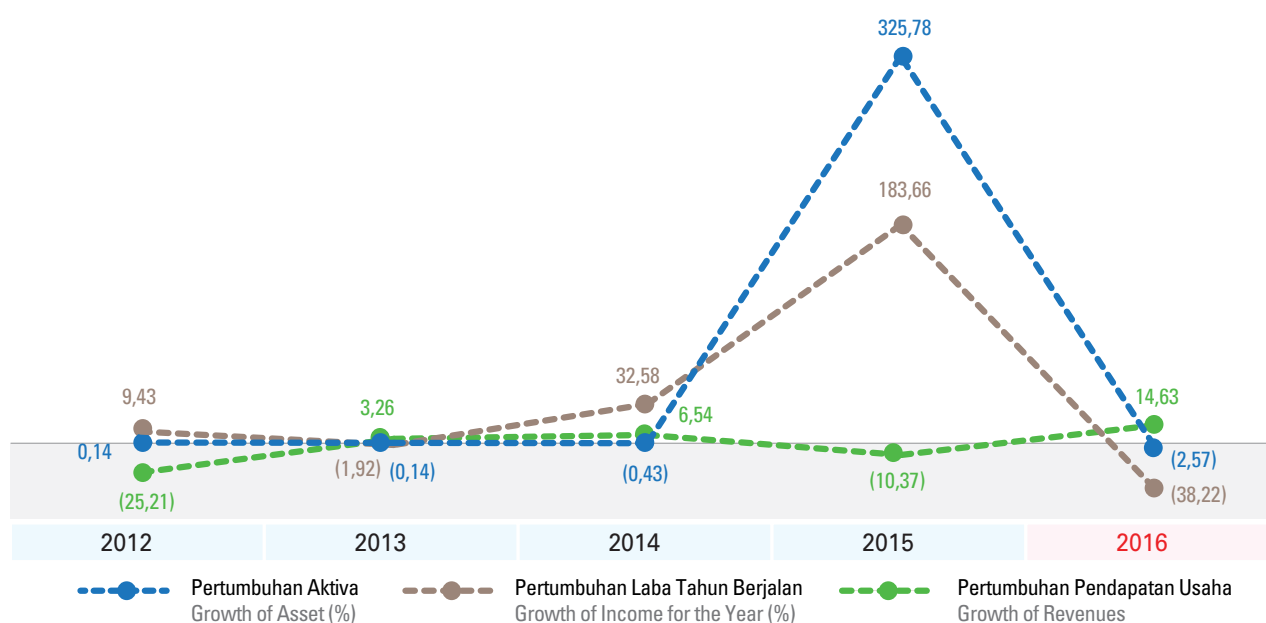
 grafik graph  
**48**

### Jumlah Aset, Laba Tahun Berjalan, Pendapatan Usaha Tahun 2012-2016 (dalam Rp miliar)

Total Asset, Income for the Year, Revenues in 2012-2016 (in billion Rp)



grafik graph **49** | Pertumbuhan Jumlah Aset, Laba Tahun Berjalan, Pendapatan Usaha Tahun 2012-2016 (%)  
Total Asset, Income for the Year, Revenues Growth in 2012-2016 (%)



tabel table  
**47**
**Labarugi Tahun 2012-2016 (dalam juta)**  
Profit/Loss Statement in 2012-2016 (in million)

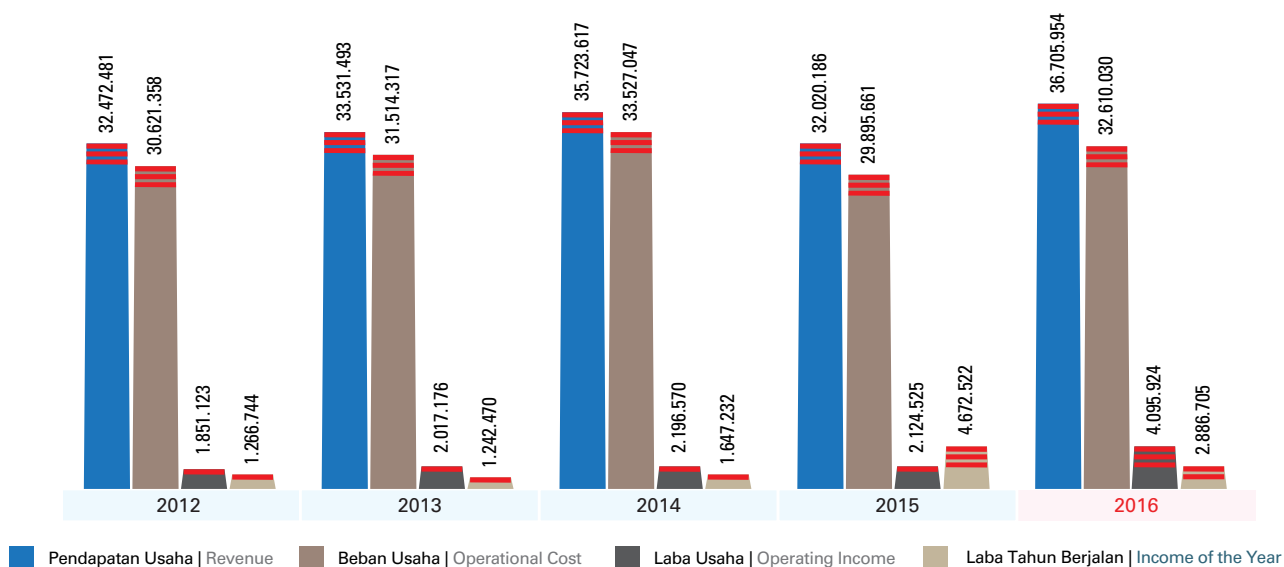
| Uraian                               | 2012              | 2013              | 2014*)            | 2015**)           | 2016               | Description                  |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|------------------------------|
| <b>Pendapatan Usaha</b>              | <b>32.472.481</b> | <b>33.531.493</b> | <b>35.723.617</b> | <b>32.020.186</b> | <b>36.705.954</b>  | <b>Revenue</b>               |
| Penjualan Tenaga Listrik             | 31.852.551        | 32.933.050        | 34.828.754        | 30.680.909        | 34.504.119         | Electricity Sales            |
| Pendapatan Jasa                      | 619.930           | 598.443           | 894.863           | 1.339.277         | 2.201.835          | Service Revenue              |
| <b>Beban Usaha</b>                   | <b>30.621.358</b> | <b>31.514.317</b> | <b>33.527.047</b> | <b>29.895.661</b> | <b>32.610.030</b>  | <b>Operational Cost</b>      |
| Bahan Bakar dan Pelumas              | 24.265.017        | 24.688.326        | 26.543.914        | 22.431.963        | 21.987.360         | Fuel and Lubricant           |
| Pemeliharaan                         | 1.862.980         | 2.112.624         | 2.080.842         | 2.441.126         | 3.687.469          | Maintenance                  |
| Kepegawaian                          | 1.233.881         | 1.380.156         | 1.337.719         | 1.760.602         | 1.741.670          | Human Resource               |
| Penyusutan                           | 2.704.914         | 2.726.082         | 2.674.160         | 2.789.803         | 4.807.372          | Depreciation                 |
| Sewa                                 | 309.755           | 321.143           | 612.366           | 113.865           | 32.789             | Lease                        |
| Lain-lain                            | 244.811           | 285.986           | 278.046           | 358.301           | 353.368            | Others                       |
| <b>Labarugi</b>                      | <b>1.851.123</b>  | <b>2.017.176</b>  | <b>2.196.570</b>  | <b>2.124.525</b>  | <b>4.095.924</b>   | <b>Operating Income</b>      |
| <b>Pendapatan (Beban) Lain-Lain</b>  | <b>34.763</b>     | <b>(129.950)</b>  | <b>73.881</b>     | <b>(34.982)</b>   | <b>(171)</b>       | <b>Other Income (Cost)</b>   |
| Penghasilan keuangan                 | 18.789            | 29.725            | 28.718            | 31.383            | 56.329             | Interest Income              |
| Kerugian kurs mata uang asing-bersih | (26.383)          | (80.459)          | (35.077)          | 5.509             | 77.071             | Foreign Exchange Loss - nett |
| Beban keuangan                       | (71.915)          | (64.155)          | (342)             | (54.285)          | (42.063)           | Finance Expense              |
| Lain-lain bersih                     | 114.272           | (15.061)          | 80.582            | (17.589)          | (91.508)           | Other Income - nett          |
| <b>Labasebelum Pajak</b>             | <b>1.885.886</b>  | <b>1.887.226</b>  | <b>2.270.451</b>  | <b>2.089.543</b>  | <b>4.095.753</b>   | <b>Income Before Tax</b>     |
| <b>Manfaat (Beban) Pajak</b>         | <b>(619.142)</b>  | <b>(644.756)</b>  | <b>(623.219)</b>  | <b>2.582.979</b>  | <b>(1.209.048)</b> | <b>Tax Benefit (Expense)</b> |
| <b>Labatahun Berjalan</b>            | <b>1.266.744</b>  | <b>1.242.470</b>  | <b>1.647.232</b>  | <b>4.672.522</b>  | <b>2.886.705</b>   | <b>Income of the Year</b>    |

\*) Penyampaian kembali laporan keuangan tahun 2014 atas penerapan PSAK No. 24 dan ISAK 8.

\*\*) Penyampaian kembali laporan keuangan tahun 2015 sesuai dengan ISAK 8.

\*) The re-submission of 2014 financial statements for the implementation of PSAK No. 24 and ISAK 8.

\*\*) The re-submission of the 2015 financial statements in accordance with ISAK 8.

 grafik graph  
**50**
**Labarugi Tahun 2012-2016 (dalam juta)**  
Profit/Loss Statement in 2012-2016 (in million)




tabel table  
**48**

Laporan Posisi Keuangan Tahun 2012-2016 (dalam juta)  
Financial Position Statement in 2012-2016 (in million)

| Uraian                                              | 2012              | 2013              | 2014*)            | 2015**)            | 2016               | Description                                         |
|-----------------------------------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-----------------------------------------------------|
| <b>Aset Tidak Lancar</b>                            | <b>29.643.591</b> | <b>27.886.878</b> | <b>27.491.959</b> | <b>198.594.427</b> | <b>194.855.586</b> | <b>Non-Current Assets</b>                           |
| Aset tetap                                          | 29.448.665        | 27.430.075        | 26.804.482        | 196.745.124        | 193.520.890        | Fixed assets                                        |
| Investasi pada entitas asosiasi dan ventura bersama | 54.256            | 168.850           | 198.540           | 203.696            | 267.047            | Investment on association entity and joint ventures |
| Aset pajak tangguhan                                | 2.502             | 81                | 27                | 1.088.283          | 1.212              | Deferred tax assets                                 |
| Piutang pihak berelasi                              | -                 | 160.401           | 302.662           | 395.387            | 481.336            | Receivables from related party                      |
| Piutang lain-lain                                   | 37.352            | 26.657            | 21.765            | 30.631             | 34.116             | Other receivables                                   |
| Biaya dibayar dimuka dan uang muka                  | -                 | -                 | 46.911            | 20.368             | 17.366             | Prepaid expenses and advances                       |
| Aset tidak lancar lain                              | 100.816           | 100.814           | 117.572           | 110.938            | 533.619            | Other non-current assets                            |
| <b>Aset Lancar</b>                                  | <b>23.913.789</b> | <b>25.593.614</b> | <b>25.756.099</b> | <b>28.125.821</b>  | <b>26.032.438</b>  | <b>Current Assets</b>                               |
| Kas dan setara kas                                  | 820.279           | 972.149           | 445.617           | 896.378            | 1.500.820          | Cash and cash equivalent                            |
| Piutang usaha                                       | 19.861.724        | 21.848.048        | 22.730.008        | 24.493.692         | 21.666.641         | Trade receivables                                   |
| Piutang lain-lain                                   | 27.650            | 353.271           | 23.547            | 13.091             | 12.025             | Other receivables                                   |
| Persediaan                                          | 2.905.542         | 1.825.219         | 2.088.197         | 2.203.016          | 1.963.398          | Inventories                                         |
| Pajak dibayar dimuka                                | 26.594            | 55.188            | 113.627           | 166.710            | 660.545            | Prepaid taxes                                       |
| Biaya dibayar dimuka dan uang muka                  | 54.539            | 209.101           | 240.236           | 269.563            | 186.875            | Prepaid expenses and advances                       |
| Piutang pihak berelasi                              | 217.461           | 330.638           | 114.867           | 83.371             | 42.134             | Receivables from related parties                    |
| <b>JUMLAH ASET</b>                                  | <b>53.557.380</b> | <b>53.480.492</b> | <b>53.248.058</b> | <b>226.720.248</b> | <b>220.888.024</b> | <b>TOTAL ASSETS</b>                                 |
| <b>Ekuitas</b>                                      | <b>44.813.891</b> | <b>44.846.679</b> | <b>44.649.629</b> | <b>214.756.271</b> | <b>213.222.542</b> | <b>Equity</b>                                       |
| <b>Liabilitas Jangka Panjang</b>                    | <b>4.483.093</b>  | <b>4.743.253</b>  | <b>5.353.506</b>  | <b>2.757.598</b>   | <b>3.111.035</b>   | <b>Non-Current Liabilities</b>                      |
| Liabilitas pajak tangguhan                          | 2.708.772         | 2.689.532         | 2.385.788         | 30.389             | 413.167            | Deferred tax liabilities                            |
| Utang sewa pembiayaan                               | 397.478           | 398.391           | -                 | 256.731            | 144.949            | Lease liabilities                                   |
| Utang pihak berelasi                                | 8.150             | 5.433             | 3.526             | 2.717              | -                  | Payable to related parties                          |
| Liabilitas imbalan kerja                            | 1.368.693         | 1.649.897         | 2.964.192         | 2.467.761          | 2.552.919          | Employee benefits liabilities                       |
| <b>Liabilitas Jangka Pendek</b>                     | <b>4.260.396</b>  | <b>3.890.560</b>  | <b>3.244.923</b>  | <b>9.206.379</b>   | <b>4.554.447</b>   | <b>Current Liabilities</b>                          |
| Utang usaha                                         | 3.612.140         | 3.295.894         | 2.798.263         | 3.098.851          | 3.336.147          | Trade payables                                      |
| Utang pajak                                         | 286.303           | 220.760           | 157.649           | 5.306.516          | 251.758            | Taxes payable                                       |
| Biaya masih harus dibayar                           | 108.443           | 145.931           | 134.945           | 425.995            | 555.569            | Accrued expenses                                    |
| Utang sewa pembiayaan                               | 49.030            | 66.001            | -                 | 95.377             | 106.991            | Lease liabilities                                   |
| Utang pihak berelasi                                | 3.614             | 9.339             | 18.435            | 65.074             | 37.796             | Payable to related parties                          |
| Liabilitas imbalan kerja                            | 130.961           | 145.899           | 126.605           | 206.131            | 262.364            | Employee benefits liabilities                       |
| Utang lain-lain                                     | 69.905            | 6.736             | 9.026             | 8.435              | 3.822              | Other payables                                      |
| <b>Liabilitas</b>                                   | <b>8.743.489</b>  | <b>8.633.813</b>  | <b>8.598.429</b>  | <b>11.963.977</b>  | <b>7.665.482</b>   | <b>Liabilities</b>                                  |
| <b>JUMLAH EKUITAS DAN LIABILITAS</b>                | <b>53.557.380</b> | <b>53.480.492</b> | <b>53.248.058</b> | <b>226.720.248</b> | <b>220.888.024</b> | <b>TOTAL EQUITY AND LIABILITIES</b>                 |

\*) Penyampaian kembali laporan keuangan tahun 2014 atas penerapan PSAK No. 24 dan ISAK 8.

\*\*) Penyampaian kembali laporan keuangan tahun 2015 sesuai dengan ISAK 8.

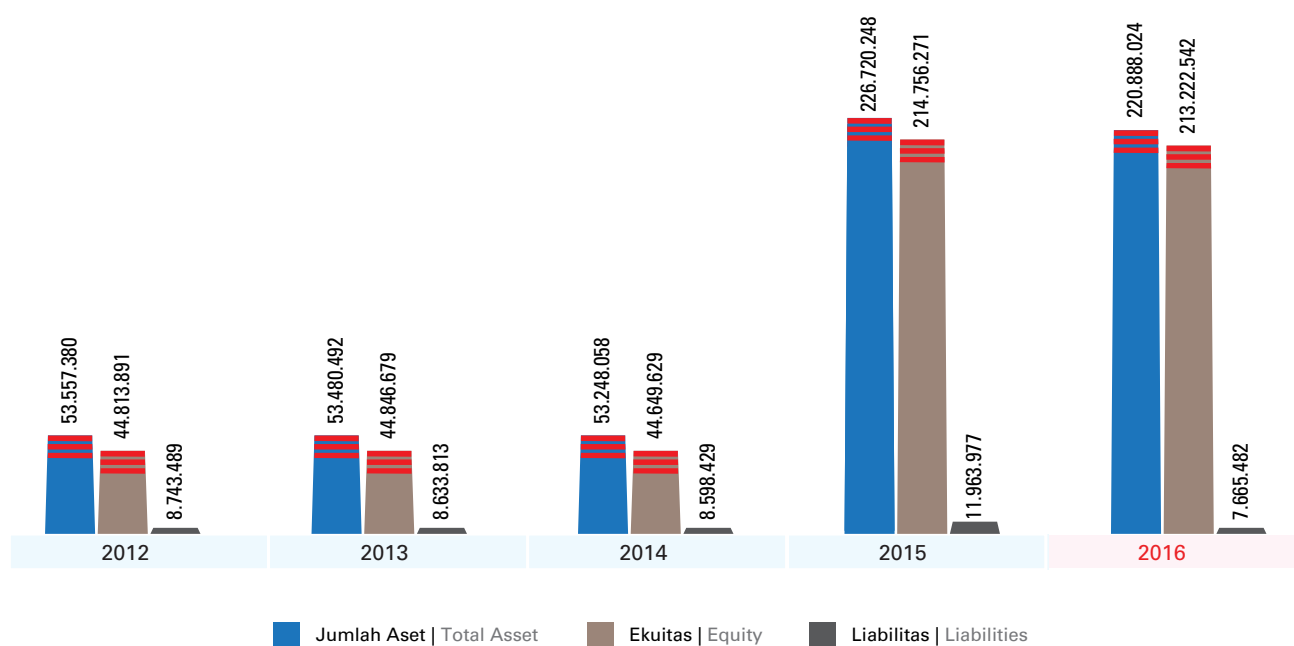
\*) The re-submission of 2014 financial statements for the implementation of PSAK No. 24 and ISAK 8.

\*\*) The re-submission of the 2015 financial statements in accordance with ISAK 8.



grafik graph  
**51**

**Laporan Posisi Keuangan Tahun 2012-2016 (dalam juta)**  
Financial Position Statement in 2012-2016 (in million)





**Kepegawaian  
Human Resources**

## Kepegawaian

### Human Resources

tabel table

49

**Jumlah Pegawai Aktif Tahun 2012-2016**  
Total of Active Employees in 2012-2016

| Unit                                                    | Tahun   Year |              |              |              |              |
|---------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|
|                                                         | 2012         | 2013         | 2014         | 2015         | 2016         |
| Kantor Pusat   Head Office                              | 346          | 374          | 374          | 356          | 375          |
| UP Suralaya   Suralaya GU                               | 723          | 696          | 703          | 722          | 711          |
| UPJP Priok   Priok GGSU                                 | 301          | 304          | 315          | 308          | 302          |
| UP Saguling   Saguling GU                               | 302          | 271          | 232          | 209          | 191          |
| UPJP Kamojang   Kamojang GGSU                           | 289          | 271          | 254          | 247          | 231          |
| UP Semarang   Semarang GU                               | 335          | 319          | 298          | 298          | 277          |
| UP Mrica   Mrica GU                                     | 274          | 223          | 196          | 180          | 167          |
| UP Perak Grati   Perak Grati GU                         | 231          | 217          | 203          | 210          | 208          |
| UP Bali   Bali GU                                       | 238          | 231          | 292          | 351          | 223          |
| UJH   MSU                                               | 129          | 160          | 207          | 210          | 234          |
| UJP Banten 1 Suralaya   Banten 1 Suralaya GSU           | 66           | 74           | 71           | 77           | 76           |
| UJP Banten 2 Labuan   Banten 2 Labuan GSU               | 88           | 79           | 75           | 69           | 75           |
| UJP Banten 3 Lontar   Banten 3 Lontar GSU               | 114          | 117          | 119          | 124          | 147          |
| UJP Jabar 2 Palabuhan Ratu   Jabar 2 Palabuhan Ratu GSU | 62           | 93           | 97           | 115          | 114          |
| UJP Jateng 2 Adipala   Jateng 2 Adipala GSU             | -            | 33           | 46           | 81           | 92           |
| UJP Pangkalan Susu   Pangkalan Susu GSU                 | -            | -            | 71           | 82           | 90           |
| UJP Cilegon   Cilegon GSU                               | -            | -            | -            | -            | 79           |
| UJP Barru   Barru GSU                                   | -            | -            | -            | -            | 70           |
| UJP Jeranjang   Jeranjang GSU                           | -            | -            | -            | -            | 56           |
| UJP Sanggau   Sanggau GSU                               | -            | -            | -            | -            | 1            |
| UJP Holtekamp   Holtekamp GSU                           | -            | -            | -            | -            | 6            |
| <b>Jumlah Pegawai Aktif   Total of Active Employees</b> | <b>3.498</b> | <b>3.462</b> | <b>3.553</b> | <b>3.639</b> | <b>3.725</b> |

grafik graph

52

**Jumlah Pegawai Aktif Tahun 2012-2016**  
Total of Active Employees in 2012-2016


2012

2013

2014

2015

2016

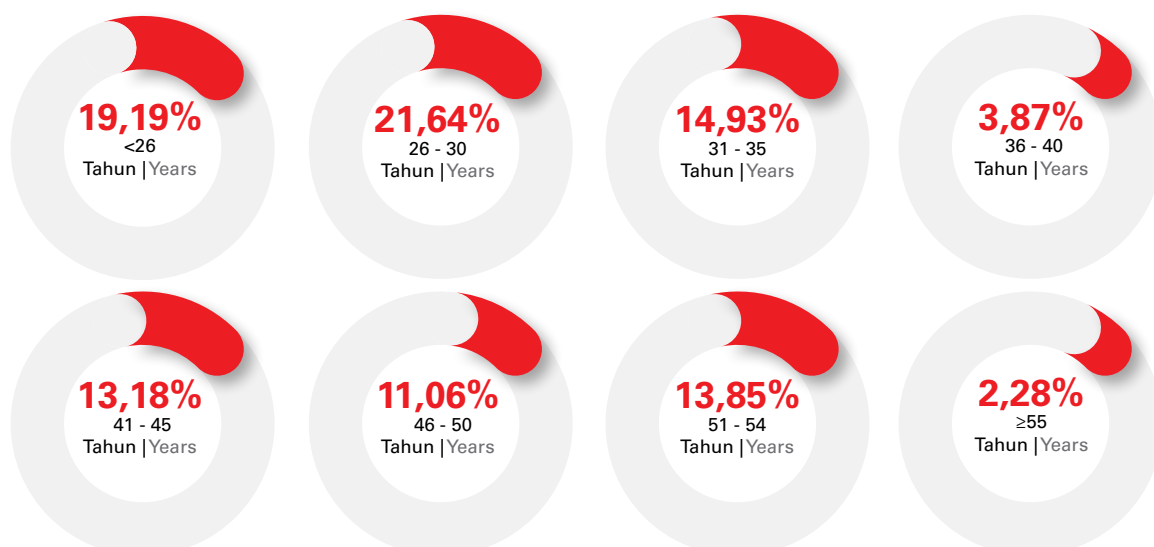
 Jumlah Pegawai Aktif | Total of Active Employees



tabel table **50** Jumlah Pegawai Berdasarkan Usia Tahun 2016  
Total Employees Based on Age in 2016

| Unit                                                    | Umur (Tahun)   Age (Year) |         |         |         |         |         |         |      | Jumlah Pegawai<br>Total of<br>Employees |
|---------------------------------------------------------|---------------------------|---------|---------|---------|---------|---------|---------|------|-----------------------------------------|
|                                                         | < 26                      | 26 - 30 | 31 - 35 | 36 - 40 | 41 - 45 | 46 - 50 | 51-55   |      |                                         |
|                                                         |                           |         |         |         |         |         | 51 - 54 | ≥ 55 |                                         |
| Kantor Pusat   Head Office                              | 2                         | 82      | 57      | 60      | 58      | 54      | 54      | 8    | 375                                     |
| UP Suralaya   Suralaya GU                               | 187                       | 116     | 82      | 7       | 56      | 121     | 125     | 17   | 711                                     |
| UPJP Priok   Priok GGSU                                 | 73                        | 50      | 40      | 5       | 53      | 37      | 39      | 5    | 302                                     |
| UP Saguling   Saguling GU                               | 28                        | 33      | 14      | 7       | 11      | 21      | 67      | 10   | 191                                     |
| UPJP Kamojang   Kamojang GGSU                           | 28                        | 31      | 11      | 1       | 80      | 36      | 36      | 8    | 231                                     |
| UP Semarang   Semarang GU                               | 49                        | 54      | 51      | 7       | 51      | 17      | 39      | 9    | 277                                     |
| UP Mrica   Mrica GU                                     | 18                        | 18      | 18      | 2       | 20      | 32      | 53      | 6    | 167                                     |
| UP Perak Grati   Perak Grati GU                         | 36                        | 36      | 67      | 6       | 30      | 15      | 13      | 5    | 208                                     |
| UP Bali   Bali GU                                       | 41                        | 24      | 44      | 12      | 45      | 24      | 32      | 1    | 223                                     |
| UJH   MSU                                               | 85                        | 43      | 23      | 11      | 37      | 15      | 16      | 4    | 234                                     |
| UJP Banten 1 Suralaya   Banten 1 Suralaya GSU           | 10                        | 28      | 18      | 5       | 1       | 4       | 6       | 4    | 76                                      |
| UJP Banten 2 Labuan   Banten 2 Labuan GSU               | 8                         | 17      | 20      | 3       | 8       | 9       | 9       | 1    | 75                                      |
| UJP Banten 3 Lontar   Banten 3 Lontar GSU               | 30                        | 71      | 13      | 5       | 7       | 3       | 13      | 5    | 147                                     |
| UJP Jabar 2 Palabuhan Ratu   Jabar 2 Palabuhan Ratu GSU | 14                        | 66      | 9       | 4       | 6       | 6       | 8       | 1    | 114                                     |
| UJP Jateng 2 Adipala   Jateng 2 Adipala GSU             | 14                        | 28      | 25      | 4       | 7       | 8       | 5       | 1    | 92                                      |
| UJP Pangkalan Susu   Pangkalan Susu GSU                 | 28                        | 34      | 12      | 1       | 12      | 3       | 0       | 0    | 90                                      |
| UJP Cilegon   Cilegon GSU                               | 7                         | 35      | 29      | 3       | 2       | 2       | 1       | 0    | 79                                      |
| UJP Barru   Barru GSU                                   | 44                        | 14      | 8       | 1       | 3       | 0       | 0       | 0    | 70                                      |
| UJP Jeranjang   Jeranjang GSU                           | 13                        | 24      | 14      | 0       | 2       | 3       | 0       | 0    | 56                                      |
| UJP Sanggau   Sanggau GSU                               | 0                         | 0       | 1       | 0       | 0       | 0       | 0       | 0    | 1                                       |
| UJP Holtekamp   Holtekamp GSU                           | 0                         | 2       | 0       | 0       | 2       | 2       | 0       | 0    | 6                                       |
| Jumlah Pegawai Aktif   Total of Active Employees        | 715                       | 806     | 556     | 144     | 491     | 412     | 516     | 85   | 3.725                                   |
| Persentase   Percentage (%)                             | 19,19                     | 21,64   | 14,93   | 3,87    | 13,18   | 11,06   | 13,85   | 2,28 | 100                                     |

grafik graph **53** Jumlah Pegawai Berdasarkan Usia Tahun 2016 (%)  
Total Employees Based on Age in 2016 (%)

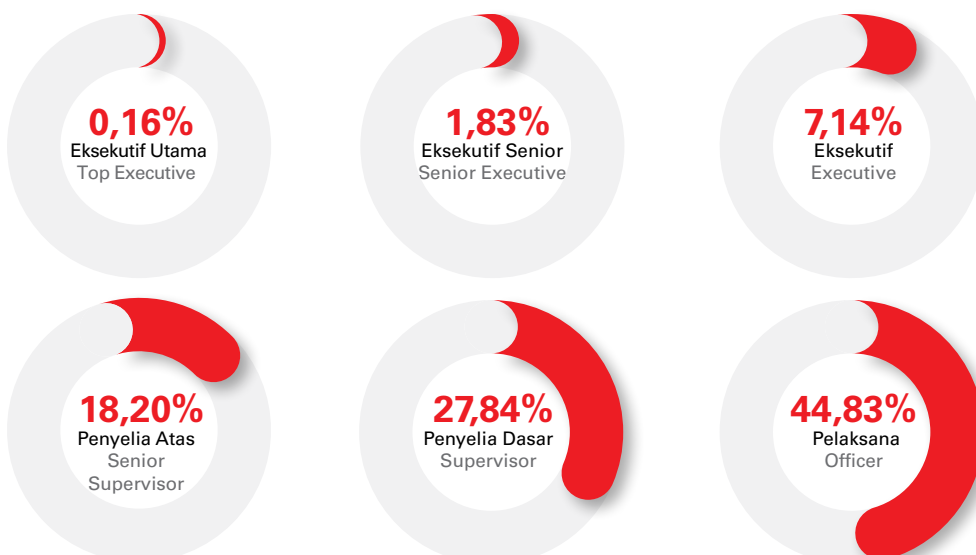


tabel table

**51**
**Jumlah Pegawai Aktif Berdasarkan Jenjang Jabatan Tahun 2016**  
Total Employees Based on Position Level in 2016

| Unit                                                    | Jenjang Jabatan   Position    |                                   |                     |                                 |                           |                   | Jumlah Pegawai Total Employees |
|---------------------------------------------------------|-------------------------------|-----------------------------------|---------------------|---------------------------------|---------------------------|-------------------|--------------------------------|
|                                                         | Eksekutif Utama Top Executive | Eksekutif Senior Senior Executive | Eksekutif Executive | Penyelia Atas Senior Supervisor | Penyelia Dasar Supervisor | Pelaksana Officer |                                |
| Kantor Pusat   Head Office                              | 4                             | 48                                | 132                 | 76                              | 106                       | 9                 | 375                            |
| UP Suralaya   Suralaya GU                               | 1                             | 3                                 | 16                  | 84                              | 183                       | 424               | 711                            |
| UPJP Priok   Priok GGSU                                 | -                             | 1                                 | 7                   | 38                              | 66                        | 190               | 302                            |
| UP Saguling   Saguling GU                               | -                             | 1                                 | 5                   | 41                              | 55                        | 89                | 191                            |
| UPJP Kamojang   Kamojang GGSU                           | -                             | 1                                 | 5                   | 44                              | 57                        | 124               | 231                            |
| UP Semarang   Semarang GU                               | -                             | 1                                 | 7                   | 43                              | 66                        | 160               | 277                            |
| UP Mrica   Mrica GU                                     | -                             | 1                                 | 5                   | 41                              | 46                        | 74                | 167                            |
| UP Perak Grati   Perak Grati GU                         | -                             | 1                                 | 7                   | 43                              | 48                        | 109               | 208                            |
| UP Bali   Bali GU                                       | -                             | 1                                 | 6                   | 39                              | 75                        | 102               | 223                            |
| UJH   MSU                                               | 1                             | 4                                 | 32                  | 46                              | 35                        | 116               | 234                            |
| UJP Banten 1 Suralaya   Banten 1 Suralaya GSU           | -                             | 1                                 | 6                   | 29                              | 28                        | 12                | 76                             |
| UJP Banten 2 Labuan   Banten 2 Labuan GSU               | -                             | 1                                 | 6                   | 30                              | 27                        | 11                | 75                             |
| UJP Banten 3 Lontar   Banten 3 Lontar GSU               | -                             | 1                                 | 6                   | 38                              | 57                        | 45                | 147                            |
| UJP Jabar 2 Palabuhan Ratu   Jabar 2 Palabuhan Ratu GSU | -                             | 1                                 | 7                   | 23                              | 57                        | 26                | 114                            |
| UJP Jateng 2 Adipala   Jateng 2 Adipala GSU             | -                             | 1                                 | 6                   | 27                              | 30                        | 28                | 92                             |
| UJP Pangkalan Susu   Pangkalan Susu GSU                 | -                             | -                                 | 5                   | 18                              | 34                        | 33                | 90                             |
| UJP Cilegon   Cilegon GSU                               | -                             | 1                                 | 4                   | -                               | 23                        | 51                | 79                             |
| UJP Barru   Barru GSU                                   | -                             | -                                 | 1                   | 6                               | 19                        | 44                | 70                             |
| UJP Jeranjang   Jeranjang GSU                           | -                             | -                                 | 1                   | 7                               | 25                        | 23                | 56                             |
| UJP Sanggau   Sanggau GSU                               | -                             | -                                 | 1                   | -                               | -                         | -                 | 1                              |
| UJP Holtekamp   Holtekamp GSU                           | -                             | -                                 | 1                   | 5                               | -                         | -                 | 6                              |
| <b>Jumlah Pegawai Aktif   Total of Active Employees</b> | <b>6</b>                      | <b>68</b>                         | <b>266</b>          | <b>678</b>                      | <b>1.037</b>              | <b>1.670</b>      | <b>3.725</b>                   |
| Persentase   Percentage (%)                             | 0,16                          | 1,83                              | 7,14                | 18,20                           | 27,84                     | 44,83             | 100                            |

grafik graph

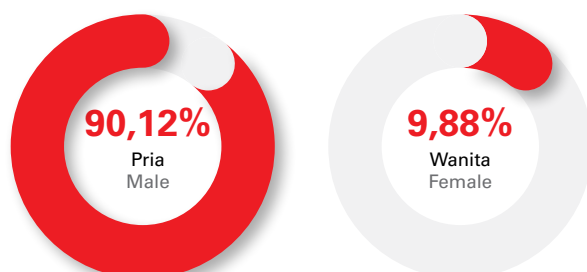
**54**
**Jumlah Pegawai Aktif Berdasarkan Jenjang Jabatan Tahun 2016 (%)**  
Total Employees Based on Position Level in 2016(%)




tabel table  
**52** Jumlah Pegawai Berdasarkan Jenis Kelamin Tahun 2016  
Total Employees Based on Gender in 2016

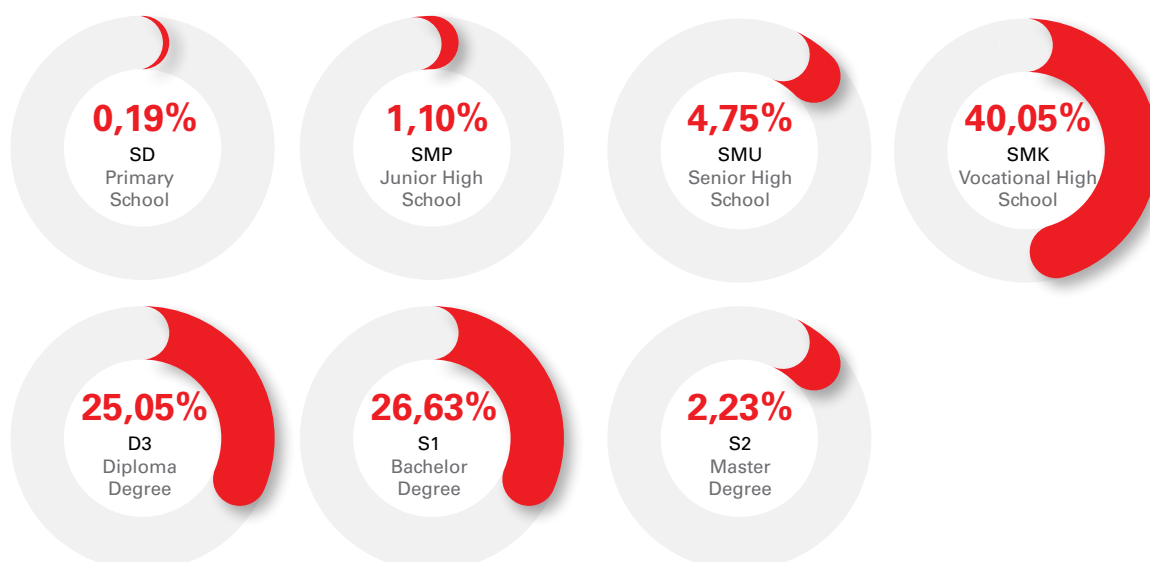
| Unit                                                    | Desember   December 2016 |                 | Jumlah<br>Total |
|---------------------------------------------------------|--------------------------|-----------------|-----------------|
|                                                         | Pria   Male              | Wanita   Female |                 |
| Kantor Pusat   Head Office                              | 254                      | 121             | 375             |
| UP Suralaya   Suralaya GU                               | 670                      | 41              | 711             |
| UPJP Priok   Priok GGSU                                 | 274                      | 28              | 302             |
| UP Saguling   Saguling GU                               | 175                      | 16              | 191             |
| UPJP Kamojang   Kamojang GGSU                           | 217                      | 14              | 231             |
| UP Semarang   Semarang GU                               | 252                      | 25              | 277             |
| UP Mrica   Mrica GU                                     | 149                      | 18              | 167             |
| UP Perak Grati   Perak Grati GU                         | 186                      | 22              | 208             |
| UP Bali   Bali GU                                       | 207                      | 16              | 223             |
| UJH   MSU                                               | 209                      | 25              | 234             |
| UJP Banten 1 Suralaya   Banten 1 Suralaya GSU           | 67                       | 9               | 76              |
| UJP Banten 2 Labuan   Banten 2 Labuan GSU               | 73                       | 2               | 75              |
| UJP Banten 3 Lontar   Banten 3 Lontar GSU               | 141                      | 6               | 147             |
| UJP Jabar 2 Palabuhan Ratu   Jabar 2 Palabuhan Ratu GSU | 112                      | 2               | 114             |
| UJP Jateng 2 Adipala   Jateng 2 Adipala GSU             | 88                       | 4               | 92              |
| UJP Pangkalan Susu   Pangkalan Susu GSU                 | 86                       | 4               | 90              |
| UJP Cilegon   Cilegon GSU                               | 70                       | 9               | 79              |
| UJP Barru   Barru GSU                                   | 66                       | 4               | 70              |
| UJP Jeranjang   Jeranjang GSU                           | 54                       | 2               | 56              |
| UJP Sanggau   Sanggau GSU                               | 1                        | -               | 1               |
| UJP Holtekamp   Holtekamp GSU                           | 6                        | -               | 6               |
| <b>Jumlah Pegawai Aktif   Total of Active Employees</b> | <b>3.357</b>             | <b>368</b>      | <b>3.725</b>    |
| Persentase   Percentage (%)                             | 90,12                    | 9,88            | 100             |

grafik graph  
**55** Jumlah Pegawai Berdasarkan Jenis Kelamin Tahun 2016 (%)  
Total Employees Based on Gender in 2016 (%)



tabel table | Jumlah Pegawai Berdasarkan Pendidikan Tahun 2016  
**53** Total Employees Based on Education in 2016

| Unit                                                    | Pendidikan   Education |                        |                        |                            |                   |                    |                  | Jumlah Pegawai Total Employees |
|---------------------------------------------------------|------------------------|------------------------|------------------------|----------------------------|-------------------|--------------------|------------------|--------------------------------|
|                                                         | SD Primary School      | SMP Junior High School | SMU Senior High School | SMK Vocational High School | D3 Diploma Degree | S1 Bachelor Degree | S2 Master Degree |                                |
| Kantor Pusat   Head Office                              | -                      | 2                      | 18                     | 32                         | 59                | 216                | 48               | 375                            |
| UP Suralaya   Suralaya GU                               | -                      | 8                      | 38                     | 377                        | 179               | 103                | 6                | 711                            |
| UPJP Priok   Priok GGSU                                 | -                      | 5                      | 13                     | 160                        | 77                | 42                 | 5                | 302                            |
| UP Saguling   Saguling GU                               | 1                      | 12                     | 21                     | 102                        | 29                | 25                 | 1                | 191                            |
| UPJP Kamojang   Kamojang GGSU                           | 1                      | 5                      | 18                     | 135                        | 46                | 26                 | -                | 231                            |
| UP Semarang   Semarang GU                               | 3                      | 2                      | 11                     | 133                        | 66                | 59                 | 3                | 277                            |
| UP Mrica   Mrica GU                                     | 2                      | 5                      | 15                     | 77                         | 35                | 31                 | 2                | 167                            |
| UP Perak Grati   Perak Grati GU                         | -                      | -                      | 8                      | 89                         | 47                | 63                 | 1                | 208                            |
| UP Bali   Bali GU                                       | -                      | 1                      | 6                      | 93                         | 71                | 50                 | 2                | 223                            |
| UJH   MSU                                               | -                      | 1                      | 11                     | 81                         | 68                | 67                 | 6                | 234                            |
| UJP Banten 1 Suralaya   Banten 1 Suralaya GSU           | -                      | -                      | 1                      | 11                         | 10                | 53                 | 1                | 76                             |
| UJP Banten 2 Labuan   Banten 2 Labuan GSU               | -                      | -                      | 2                      | 26                         | 18                | 28                 | 1                | 75                             |
| UJP Banten 3 Lontar   UJP Banten 3 Lontar GSU           | -                      | -                      | 2                      | 50                         | 43                | 51                 | 1                | 147                            |
| UJP Jabar 2 Palabuhan Ratu   Jabar 2 Palabuhan Ratu GSU | -                      | -                      | 2                      | 20                         | 28                | 63                 | 1                | 114                            |
| UJP Jateng 2 Adipala   Jateng 2 Adipala GSU             | -                      | -                      | -                      | 21                         | 35                | 34                 | 2                | 92                             |
| UJP Pangkalan Susu   Pangkalan Susu GSU                 | -                      | -                      | 1                      | 21                         | 39                | 28                 | 1                | 90                             |
| UJP Cilegon   Cilegon GSU                               | -                      | -                      | 8                      | -                          | 51                | 19                 | 1                | 79                             |
| UJP Barru   Barru GSU                                   | -                      | -                      | -                      | 51                         | 9                 | 9                  | 1                | 70                             |
| UJP Jeranjang   Jeranjang GSU                           | -                      | -                      | 2                      | 11                         | 23                | 20                 | -                | 56                             |
| UJP Sanggau   Sanggau GSU                               | -                      | -                      | -                      | -                          | -                 | 1                  | -                | 1                              |
| UJP Holtekamp   Holtekamp GSU                           | -                      | -                      | -                      | 2                          | -                 | 4                  | -                | 6                              |
| <b>Jumlah Pegawai Aktif   Total of Active Employees</b> | <b>7</b>               | <b>41</b>              | <b>177</b>             | <b>1.492</b>               | <b>933</b>        | <b>992</b>         | <b>83</b>        | <b>3.725</b>                   |
| Persentase   Percentage (%)                             | 0,19                   | 1,10                   | 4,75                   | 40,05                      | 25,05             | 26,63              | 2,23             | 6                              |

 grafik graph | Jumlah Pegawai Berdasarkan Pendidikan Tahun 2016 (%)  
**56** Total Employees Based on Education in 2016 (%)




## Penjelasan Glossary of Terms

Istilah, definisi dan rumus-rumus yang digunakan adalah sebagai berikut:

### 1. Faktor Kapasitas

yaitu kWh produksi bruto, adalah energi yang dibangkitkan oleh generator sebelum dikurangi energi pemakaian sendiri (untuk peralatan bantu, penerangan sentral, dan lain-lain), atau produksi energi listrik yang diukur pada terminal generator.

### 2. Kapasitas Terpasang

adalah kapasitas suatu unit pembangkit sebagaimana tertera pada papan nama (*name plate*) dari generator atau mesin penggerak utama, dipilih mana yang lebih kecil. Khusus untuk PLTG, kapasitas terpasangnya adalah sebagaimana tertera pada papan nama berdasarkan *base-load*, bukan berdasarkan *peak load*.

### 3. Equivalent Availability Factor (EAF)

*Equivalent Availability Factor* (EAF) yaitu faktor ketersediaan mesin pembangkit untuk beroperasi pada Daya Mampu Nettonya; dengan perhitungan = (jumlah jam unit pembangkit siap dioperasikan - (*derating* permanen + *derating* tidak permanen)) dibagi dengan jumlah jam dalam periode tertentu. Untuk PLTA yang dihitung adalah unit mesinnya, bukan ketersediaan debit air. Jam tersedia: jumlah jam dimana unit dalam keadaan operasi dan atau siap operasi.

### 4. Pemakaian Sendiri (PS)

Perhitungan pemakaian sendiri (PS), merupakan selisih antara produksi bruto dengan penjualan (MWh) yang disalurkan ke sistem transmisi.

Term, definitions and formulas used in this report as follow:

### 1. Capacity Factor

kWh gross production is the amount of power generated before being subtracted by self consumption energy (for assisting machinery, central lighting, etc.), or production of energy as measured by terminal generator.

### 2. Installed Capacity

is the capacity of a generating unit, as it shown on generator's name plate of prime mover, whichever is smaller. Especially GTPP, the installed capacity is whatever shown on the name plate based on base load, not based on peak load.

### 3. Equivalent Availability Factor (EAF)

Equivalent Availability Factor (EAF) is the availability factor of power plant engine to operate the Net Maximum Capacity the calculation is (number of hours the generating unit is ready to operate - (permanent derating + non-permanent derating)) divided by the number of hours in a given period. For HPP the derivative is the number of machine (unit), not the water volume. Availability hours: total hours of operation and/ or running hours.

### 4. Self Consumption

Measurement for self consumption is the difference between gross production value and sales (MWh) delivered to the transmission system.

## Daftar Singkatan

### List of Abbreviation

|       |                                           |
|-------|-------------------------------------------|
| CF    | : Capacity Factor                         |
| EAF   | : Equivalent Available Factor             |
| GWh   | : Giga Watt-hour                          |
| HSD   | : High Speed Diesel                       |
| IPP   | : Independent Power Producer              |
| KW    | : Kilo Watt                               |
| KWh   | : Kilo Watt-hour                          |
| MFO   | : Marine Fuel Oil                         |
| MW    | : Mega Watt                               |
| MWh   | : Mega Watt-hour                          |
| PJB   | : Pembangkitan Jawa-Bali                  |
| PLTA  | : Pusat Listrik Tenaga Air                |
| PLTD  | : Pusat Listrik Tenaga Diesel             |
| PLTDG | : Pusat Listrik Tenaga Diesel Gas         |
| PLTG  | : Pusat Listrik Tenaga Gas                |
| PLTGU | : Pusat Listrik Tenaga Gas dan Uap        |
| PLTP  | : Pusat Listrik Tenaga Panas Bumi         |
| PLTU  | : Pusat Listrik Tenaga Uap                |
| P2B   | : Pusat Pengatur Beban Jawa-Bali          |
| UP    | : Unit Pembangkitan                       |
| UJH   | : Unit Jasa Pemeliharaan                  |
| UJP   | : Unit Jasa Pembangkitan                  |
| UPJP  | : Unit Pembangkitan dan Jasa Pembangkitan |
| MMBTU | : 106 British Thermal Unit (MM=106)       |

*British Thermal Unit (BTU)* adalah jumlah kalori yang diperlukan untuk menaikkan 1 *pound* air 1 derajat Fahrenheit pada temperatur 60 derajat Fahrenheit, pada tekanan *absolute* 14,7 *pound per square inch*.

*Standard Cubic Foot (SCF)* adalah sejumlah gas yang diperlukan untuk mengisi ruangan 1 *Cubic Foot*, dengan tekanan sebesar *absolute* 14,7 *pound per square inch* dan pada temperatur 60 derajat Fahrenheit, dalam kondisi kering.

1.000 BTU Gas adalah gas yang mempunyai *Gross Heating Value* sebesar 1.000 BTU tiap SCF.

British Thermal Unit (BTU) is the total calories needed to raise 1 pound of water 1 Fahrenheit degree from temperature 60 Fahrenheit degrees with pressure 14.7 pound per square inch absolute.

Standard Cubic Foot (SCF) is the total gas which needed to fit 1 Cubic Foot room, with pressure 14.7 pounds per square inch absolute and in temperature of 60 Fahrenheit degrees in dry condition.

1,000 BTU Gas is gas which has Gross Heating Value 1,000 BTU per SCF.





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