



PT Pembangunan Jawa-Bali

STRENGTHENING SYNERGY, CREATING GREEN ENERGY

Memperkuat Sinergi,
Menciptakan Energi Hijau

STATISTIK
PERUSAHAAN
CORPORATE
STATISTIC **20¹⁷
21**





Visi Vision

“Menjadi Perusahaan Terdepan dan Terpercaya Dalam Bisnis Energi Berkelanjutan di Asia Tenggara”

“To be the trusted leader company in sustainable energy of South East Asia”



Misi Mission

- Menjalankan bisnis energi yang inovatif dan kolaboratif, tumbuh berkelanjutan serta berwawasan lingkungan.
- Menjaga tingkat kinerja tertinggi untuk memberikan nilai tambah bagi *stakeholders*.
- Menarik minat dan mengembangkan talenta terbaik serta menjalankan organisasi yang *agile* dan adaptif.
- To conduct an innovative and collaborative, sustainably growing and environmentally-friendly energy business.
- To maintain the highest performance to provide added-value for the stakeholders.
- To attract interest and develop the best talent, and to run an agile and adaptive organization.



PENGANTAR PROLOGUE

Buku Statistik Perusahaan 2017-2021 ini dibuat dengan tujuan untuk memberikan informasi mengenai hasil kerja PJB selama 5 (lima) tahun terakhir. Isi buku dibagi dalam tiga bagian informasi yaitu tentang operasional pembangkit, keuangan dan sumber daya manusia (SDM).

Data statistik disajikan dalam bentuk tabel dan grafik yang diperinci menurut satuan unit pembangkitan, jenis pembangkit dan jenis bahan bakar untuk bidang operasi pembangkitan; menampilkan neraca dan laba rugi untuk bidang keuangan; menurut usia, pendidikan dan unit kerja untuk bidang SDM. Untuk mendukung pemahaman terhadap istilah-istilah yang digunakan, dalam buku ini juga disajikan penjelasan arti dari beberapa istilah dan singkatan.

Kami sangat mengharapkan saran dan kritik yang membangun dari pembaca untuk meningkatkan kualitas penyajian Buku Statistik PT Pembangkitan Jawa-Bali selanjutnya.

Surabaya, Juli 2022
PT Pembangkitan Jawa-Bali

The Corporate Statistic Book 2017-2021 created with the aim to provide information about the results of PJB for the last five years. The book is divided into three parts, namely operations, finance and human resources.

For operation section, statistical data are presented in tables and graphs which grouped by generation units, the type of generation units and the type of fuel used. In the financial section, showing the company's balance sheet and income statement; while in the human resources section, are grouped according to age, education, level of position and gender. To support the understanding of the terms used in this book are also presented explanation of the meaning of some terms and abbreviations.

Constructive suggestions and feedbacks are expected for the improvement of statistic book in the next publication.

Surabaya, July, 2022
PT Pembangkitan Jawa-Bali



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PENJELASAN ISTILAH DAN SINGKATAN

TERMS AND ABBREVIATIONS

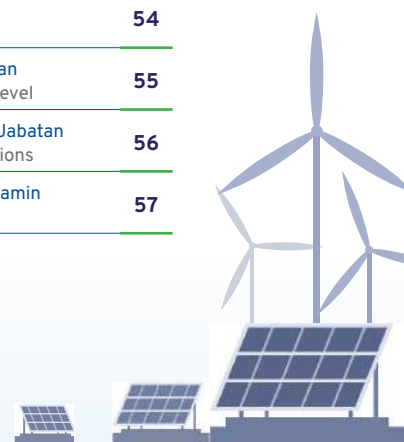
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IKHTISAR 2021

2021 HIGHLIGHTS





IKHTISAR 2021 2021 HIGHLIGHTS



Hasil *Assessment Good Corporate Governance* (GCG) tahun 2021 memperoleh skor 95,67 dari maksimal skor 100 dengan kategori **"Sangat Baik"**.

Tingkat kesehatan Perusahaan PJB tahun 2021 yang dilakukan berdasarkan Edaran Direksi PT PLN (Persero) No.0001.E/DIR/2018 tanggal 26 Maret 2018 tentang Petunjuk Pelaksanaan Perhitungan Nilai Kinerja Organisasi Direktorat, Unit dan Anak Perusahaan dengan penggolongan penilaian tingkat kesehatan sesuai dengan Keputusan Menteri Badan Usaha Milik Negara Republik Indonesia No. KEP-100/MBU/2002 tanggal 4 Juni 2002 tentang Penilaian Tingkat Kesehatan Badan Usaha Milik Negara, menghasilkan Nilai **"AAA"** kategori **"Sehat"** dengan skor 96,13.

The self assessment of Good Corporate Governance 2021 in PJB scored 95.67 of the maximum score of 100 in the category of **"Very Good"**.

Company's soundness level of PJB in 2021 which is based on Circular of PT PLN (Persero) Board of Directors No. 0001.E/DIR/2018 on March 26, 2018, concerning Implementation Guidelines of Organizational Performance Assessment on the Directorate, Unit, and Subsidiaries by classifying the soundness level in accordance with the Decree of the State-Owned Enterprises Ministry of Indonesia No.KEP-100/MBU/2002 on June 4, 2002, concerning Assessment of the Soundness Level of State-Owned Enterprises, produces Value **"AAA"** category **"Sound"** with a score of **96.13**.



Operasi Pembangkit Tenaga Listrik Electricity Generation Operations



Kapasitas Terpasang Installed Capacity



Pada akhir Desember 2021, total kapasitas terpasang PJB adalah sebesar 7.054 MW dan 1 MW Unit Pembangkit Riset. Persentase kapasitas terpasang per jenis pembangkit sebagai berikut: PLTU 1.800 MW (25,52%), PLTGU 2.727 MW (38,65%), PLTA 1.283 MW (18,18%), PLTG 1.178 MW (16,70%), PLTS 1 MW (0,01%), PLTD 63 MW (0,89%) dan PLTMG 3 MW (0,04%).

In late December 2021, total installed capacity of PJB is 7,054 MW dan 1 MW Research Unit Power Plant. The percentage of installed capacity per type of plant as follows : 1,800 MW (25.52%) CFPP, 2,727 MW (38.65%) CCPP, 1,283 MW (18.18%) HPP, 1,178 MW (16.70%) GTPP, 1 MW (0.01%) SPP, 63 MW (0.89%) DEPP and GEPP 3 MW (0.04%).

Produksi dan Penjualan Energi Listrik Production and Sales of Electrical Energy

Selama tahun 2021, total produksi energi listrik sebesar 20.641GWh, meningkat 15,86% dibandingkan tahun sebelumnya. Penjualan energi listrik total PJB pada tahun 2020 sebesar 17.816 GWh. Persentase energi listrik produksi sendiri per jenis energi primer adalah: gas alam 11.655 GWh (56,47%), batubara 5.605 GWh (27,15%), minyak 727 GWh (3,52%), tenaga air 2.590 GWh (12,55%) dan biomassa 64 GWh (0,31%).

During 2021, the amount of electrical energy production amounted to 20,641 GWh, increased by 15.86% compared to the previous year. PJB total electric energy sales in 2020 amounted to 17,816 GWh. Percentage of own production of electrical energy per type of primary energy are: 11,655 GWh of natural gas (56.47%), coal 5,605 GWh (27.15%), Fuel 727 GWh (3.52%), and hydropower 2,590 GWh (12.55%) and biomassa 64 GWh (0.31%).

Keuangan Finance

Selama tahun 2021 jumlah pendapatan usaha mencapai Rp29.508 miliar yang terdiri dari pendapatan penjualan tenaga listrik sebesar Rp24.541 miliar (83,17%), dan pendapatan usaha jasa O&M dan EPC serta usaha lainnya sebesar Rp4.058 miliar (16,83%).

Jumlah beban usaha sebesar Rp25.101 miliar, laba usaha sebesar Rp4.407 miliar dan laba tahun berjalan mencapai Rp5.820 miliar. Total aset mencapai sebesar Rp172.164 miliar, turun 1,94% dibandingkan tahun sebelumnya.

During 2021, total revenues reached Rp29,508 billion, consisting of electric power sales revenue of Rp24,541 billion (83.17%), and revenues of O&M Services, EPC and others amounted of Rp4,058 billion (16.83%).

Total operating expenses amounted to Rp25,101 billion, operating income of Rp4,407 billion and income for the year reached Rp5,820 billion. Total assets reached Rp172,164 billion, decreasing 1.94% over the previous year.

Sumber Daya Manusia Human Capital

Jumlah karyawan PJB sampai dengan akhir Desember 2021 adalah 3.071 orang terdiri dari 2.667 pria (97%) dan 404 wanita (13%), jumlah karyawan ini menurun sebesar 1,67% dibanding tahun sebelumnya.

Berdasarkan demografi usia, karyawan aktif PJB rata-rata berusia 26-30 tahun dengan tingkat pendidikan didominasi S1 (55,45%).

The total number of PJB employees by the end of December 2021 was 3,071 people, consisting of 2,667 male (97%) and 404 female (13%), this number decreasing 1.67% over the previous year.

Based on the demographics of age, the average age of PJB employees was 26-30 years with the composition of educational level is dominated by bachelor degree (55.45%).







DATA PERUSAHAAN

COMPANY DETAILS



IDENTITAS PERUSAHAAN COMPANY IDENTITY

Masuknya pengelolaan Jasa Operasi dan Pemeliharaan PLTU Sambelia (2x50 MW) di Nusa Tenggara Barat (NTB) kian memantapkan langkah PJB untuk berkontribusi lebih luas dalam menjaga ketahanan energi nasional.

Management of Operation and Maintenance Services for Sambelia CFPP (2x50 MW) penetrated in West Nusa Tenggara (NTB) further strengthens PJB steps to contribute more comprehensively in maintaining national energy security.

PELUNCURAN PLATFORM DIGITAL PJB ACCESS

The Launching of PJB
Access digital platform

PLTGU MUARA KARANG BLOK 3 CCPP MUARA KARANG BLOCK 3

COD 4 Juni 2021
COD on June 4, 2021

PLTS TERAPUNG CIRATA Cirata Floating PV

Rencana COD 2023
COD Plan on 2023

ADD ON MUARA TAWAR BLOK 2.3.4 ADD ON MUARA TAWAR BLOCK 2-3-4

Rencana COD 2022
COD Plan on 2022



Nama Perusahaan Company Name
PT Pembangkitan Jawa-Bali



Tanggal Pendirian Date of Establishment
3 Oktober 1995 October 3, 1995



Bidang Usaha

1. Pembangkitan tenaga Listrik;
2. Konstruksi Bangunan Elektrikal;
3. Pemasangan peralatan ketenagalistrikan;
4. Pemeliharaan dan/atau pengoperasian peralatan ketenagalistrikan;
5. Perdagangan dan/atau kegiatan usaha pendukung dalam rangka optimalisasi pemanfaatan sumber daya yang dimiliki Perseroan, termasuk memberikan penugasan kepada Anak Perusahaan.

Business Line

1. Electric Power Plant;
2. Electrical Building Construction;
3. Installation of electricity equipment;
4. Maintenance and/or operation of electrical equipment;
5. Trading and/or supporting business activities to optimize the utilization of resources owned by the Company, including delegating assignments to Subsidiaries.



Status Perusahaan Company Status
Anak Perusahaan PT PLN (Persero)
Subsidiary of PT PLN (Persero)



Modal Dasar Authorized Capital
Rp12.000.000.000.000,- (Dua belas triliun Rupiah)
Rp12.000.000.000.000,- (Twelve Trillion Rupiah)



Pemegang Saham Shareholders

1. PT PLN (Persero) sebanyak 1 Saham Seri 1 dan 5.999.999.998 Saham Seri 2 (99,99%) dan
 2. Yayasan Pendidikan dan Kesejahteraan PT PLN (Persero) sebanyak 1 Saham Seri 2 (0,01%)
1. PT PLN (Persero) has 1 Series-1 Share and 5.999.999.998 Series-2 Shares (99,99%) and
2. Yayasan Pendidikan dan Kesejahteraan PT PLN (Persero) 1 Series-2 Share (0,01%)



Modal Ditempatkan dan Disetor Penuh

Issued and Fully Deposited Capital
 Rp3.000.000.000.000,- (Tiga triliun Rupiah)
 Rp3.000.000.000.000,- (Three Trillion Rupiah)



Jumlah Karyawan Number of Employees

3.071 orang employees



Kantor Pusat Headquarters

Jl. Ketintang Baru No.11 Surabaya 60231 – Indonesia
 ☎ : (62-31) 828 3180 (Hunting)
 📠 : (62-31) 828 3183
 ✉ : info@ptpjb.com



Kantor Perwakilan

Gedung 18 Office Park Lantai 8, TB Simatupang
 Kav 18 – Jakarta Selatan
Representative Office
 Building 18 Office Park 8th Floor, TB Simatupang
 Kav 18 – South Jakarta
 ☎ : -
 📠 : -
 ✉ : perwakilan.jkt@ptpjb



Contact Center

☎ : (62-31) 828 3180 (Hunting)
 📠 : (62-31) 828 3183
 🌐 : www.facebook.com/ptpjb
 🐦 : @ptpjb
 📷 : @ptpjb



Website

www.ptpjb.com



Wilayah Kerja

- 8 (delapan) Unit Pembangkit Eksisting dan 1 (satu) Unit Pembangkit Riset (PLTS Cirata);
- 5 (lima) Unit Jasa Operasi dan Pemeliharaan FTP-1 Jawa;
- 17 (tujuh belas) Unit Jasa Operasi dan Pemeliharaan Luar Jawa;
- 5 (lima) Unit Jasa Operasi dan Pemeliharaan Pembangkit PLN di Site PJB;
- 1 (satu) Unit Sewa Pembangkit;
- 1 (satu) Unit Maintenance, Repair & Overhaul;
- 1 (satu) Unit PJB Academy;
- 1 (satu) Unit Pengembangan Usaha dan Pembangunan;
- Kepemilikan saham pada 8 (delapan) Unit Pembangkit IPP; dan
- Kepemilikan saham pada Perusahaan Operasi dan Pemeliharaan untuk mengelola 1 (satu) unit pembangkit PLN.

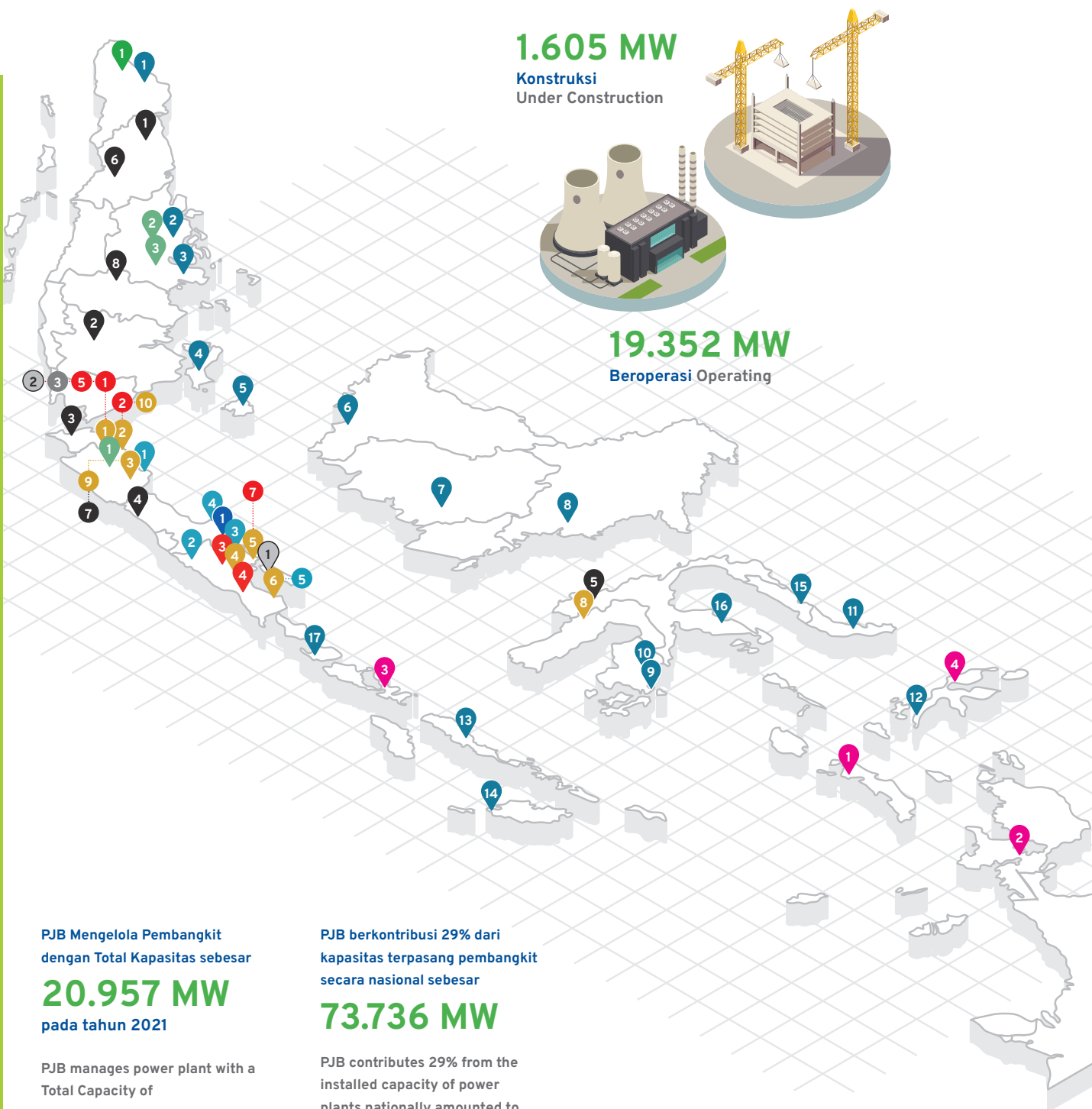
Working Area

- 8 (eight) Existing Generation Unit and 1 (one) Research Generation Unit (Cirata SPP);
- 5 (five) FTP-1 Java Operation & Maintenance Service Business Units;
- 17 (seventeen) Operation & Maintenance Service Business Units outside Java;
- 5 (five) Operation & Maintenance Service Business Units for PLN Generation Unit at PJB Site;
- 1 (one) Generation Units for Lease;
- 1 (one) Unit Maintenance, Repair & Overhaul;
- 1 (one) Unit of PJB Academy;
- 1 (one) Business Development and Development Unit;
- Share ownership in 8 (eight) IPP Units; and
- Share ownership in the Operation and Maintenance Company to manage 1 (one) PLN Generation Unit.





PETA WILAYAH OPERASIONAL OPERATIONAL MAP



PJB Mengelola Pembangkit
dengan Total Kapasitas sebesar

20.957 MW
pada tahun 2021

PJB manages power plant with a
Total Capacity of

20.957 MW
in 2021

PJB berkontribusi 29% dari
kapasitas terpasang pembangkit
secara nasional sebesar

73.736 MW

PJB contributes 29% from the
installed capacity of power
plants nationally amounted to

73,736 MW

Pembangkit Eksisting Existing Power Plant

- 7,054 MW (8 Pembangkit) 7,054 MW (8 Power Plants)
- 1 MW (Pembangkit Riset - PLTS Cirata)
1 MW (Research Plants - Cirata SPP)
- 650 MW (Add On MTW 2-3-4) 650 MW (Add-on MTW 2-3-4)

Beroperasi (7,054 MW)
Operating (7,054 MW)

Muara Karang PLTGU CCPP PLTU Gas/BBM Gas/Fuel CFPP 909 MW Muara Tawar PLTGU CCPP PLTG Gas/BBM Gas/Fuel GTTP 1,778 MW Cirata PLTA HPP 1,008 MW Brantas PLTA HPP 275 MW Gresik PLTGU CCPP PLTU Gas/BBM Gas/Fuel CFPP 2,219 MW	Paiton PLTU Batubara CFPP 800 MW Bawean PLTMG GEPP 3 MW Suppa PLTD DPP 62,4 MW
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Pembangkit Riset (1 MW)
Research Plant (1 MW)

Tahap Pengembangan Konstruksi (650 MW)
Construction Development Stage (650 MW)

10. Add On MTW 2-3-4
PLTGU CCPP 650 MW
*Under construction, COD 2021

Jasa O&M FTP-1 Jawa O&M Service of FTP-1 Java

3,610 MW (5 Pembangkit) 3,610 MW (5 Power Plants)

Indramayu PLTU Batubara CFPP 3x330 MW Pacitan PLTU Batubara CFPP 2x315 MW Tanjung Awar-awar PLTU Batubara CFPP 2x350 MW	Rembang PLTU Batubara CFPP 2x315 MW Paiton 9 PLTU Batubara CFPP 1x660 MW
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Jasa O&M FTP-1 Luar Jawa O&M Service Outside Java

1,068,3 MW (17 Pembangkit) 1,068 MW (17 Power Plants)

Arun PLTMG Gas Gas GEPP 19x9,7 MW Tenayan PLTU Batubara CFPP 2x110 MW Tembilahan PLTU Batubara CFPP 2x7 MW Bangka PLTU Batubara CFPP 2x30 MW Belitung Baru PLTU Batubara CFPP 2x16,5 MW Ketapang PLTU Batubara CFPP 2x10 MW Pulang Pisau PLTU Batubara CFPP 2x60 MW Kaltim Teluk PLTU Batubara CFPP 2x110 MW Kendari 1-2 PLTU Batubara CFPP 2x10 MW	Kendari 3 PLTU Batubara CFPP 1x10 MW Amurang PLTU Batubara CFPP 2x25 MW Tidore PLTU Batubara CFPP 2x7 MW Ropa (Ende) PLTU Batubara CFPP 2x7 MW Bolok PLTU Batubara CFPP 2x16,5 MW Anggrek PLTU Batubara CFPP 2x25 MW Ampana PLTU Batubara CFPP 2x3 MW Sambelia PLTU Batubara CFPP 2x10 MW
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Kepemilikan Saham di Perusahaan O&M Share Ownership in O&M Companies

1,320 MW (1 Pembangkit) 1,320 MW (1 Power Plant)

- Tanjung Jati B #3 dan #4**
PLTU Batubara CFPP 2x660 MW
(Jasa O&M dikelola oleh KPJB - Perusahaan JVC PJB dengan Komipo)
(O&M Services Managed by KPJB - JVC company with Komipo)

Jasa EPC EPC Services

(4 Pembangkit) (4 Power Plants)

Ambon PLTU CFPP 2x15 MW *menunggu tanda tangan kontrak *waiting for contract signatures Timika (Sorong) PLTU CFPP 4x7 MW *relokasi ke sorong *relokasi ke sorong	Bima PLTU CFPP 2x10 MW *fase konstruksi *under construction phase Soffi PLTU CFPP 2x3 MW *penandatanganan kontrak *contract signatures
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Unit Bisnis Pendukung Supporting Business Unit

(3 Unit Bisnis) (3 Business Units)

- PJB Academy**
Surabaya, Jawa Timur East Java
- Unit Maintenance, Repair & Overhaul (UMRO)**
Maintenance, Repair & Overhaul Unit (UMRO)
Pluit, Jakarta
- Unit Pengembangan Usaha dan Pembangunan**
Business Development and Development Unit
Jakarta

Sewa Pembangkit Power Plant for Lease

1,320 MW (1 Pembangkit) 1,320 MW (1 Power Plant)

- Duri**
PLTG GPP
1x20 MW

Kepemilikan Saham di IPP Share Ownership in IPP

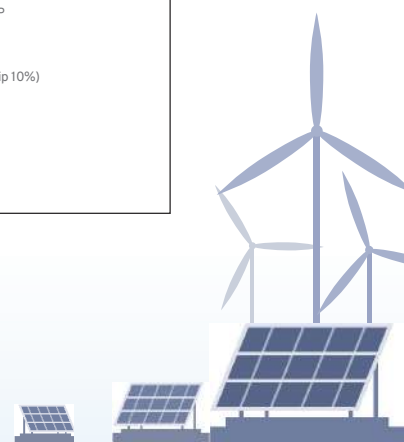
5,665 MW (8 Pembangkit) 5,665 MW (8 Power Plants)

Beroperasi (3,710 MW)
Operating (3,710 MW)

Asahan PLTA HPP 2x90 MW (Saham PJB 36,61%) (PJB Share ownership 36,61%) *Including O&M Services Banjarsari PLTU Batubara CFPP 2x110 MW (Saham PJB 29,15%) (PJB Share ownership 29,15%) *Including O&M Services Jawa 7 (Unit 1), Serang PLTU Batubara CFPP 1x1,000 MW (Saham PJB 30%) (PJB Share ownership of 30%)	Cilacap PLTU Batubara CFPP 2x300 MW Ekspansi 1 Expansion 1, 1x660 MW Ekspansi 2 Expansion 2, 1x1,000 MW (Saham PJB 49%) (PJB Share ownership of 49%) Mamuju PLTU Batubara CFPP 2x25 MW (Saham PJB 10%) (PJB Share ownership of 10%)
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Tahap Pengembangan Konstruksi (955 MW)
Construction Development Stage (955 MW)

Batang Toru PLTA HPP 4x127,5 MW (Saham PJB 25%) (PJB Share ownership of 25%) *Underconstruction, a.Unit #1: COD 2021 b.Unit #2: COD 2022 c.Unit #3: COD 2022 d.Unit #4: COD 2022	Cirata Floating PV PLTS SPP 145 MW (Konsorsium PJB - Masdar) (Consortium between PJB - Masdar) *PPA Sumbagsel 1 Southern Sumatera 1 PLTU Batubara CFPP 2x150 MW (Saham PJB 10%) (PJB Share ownership 10%)
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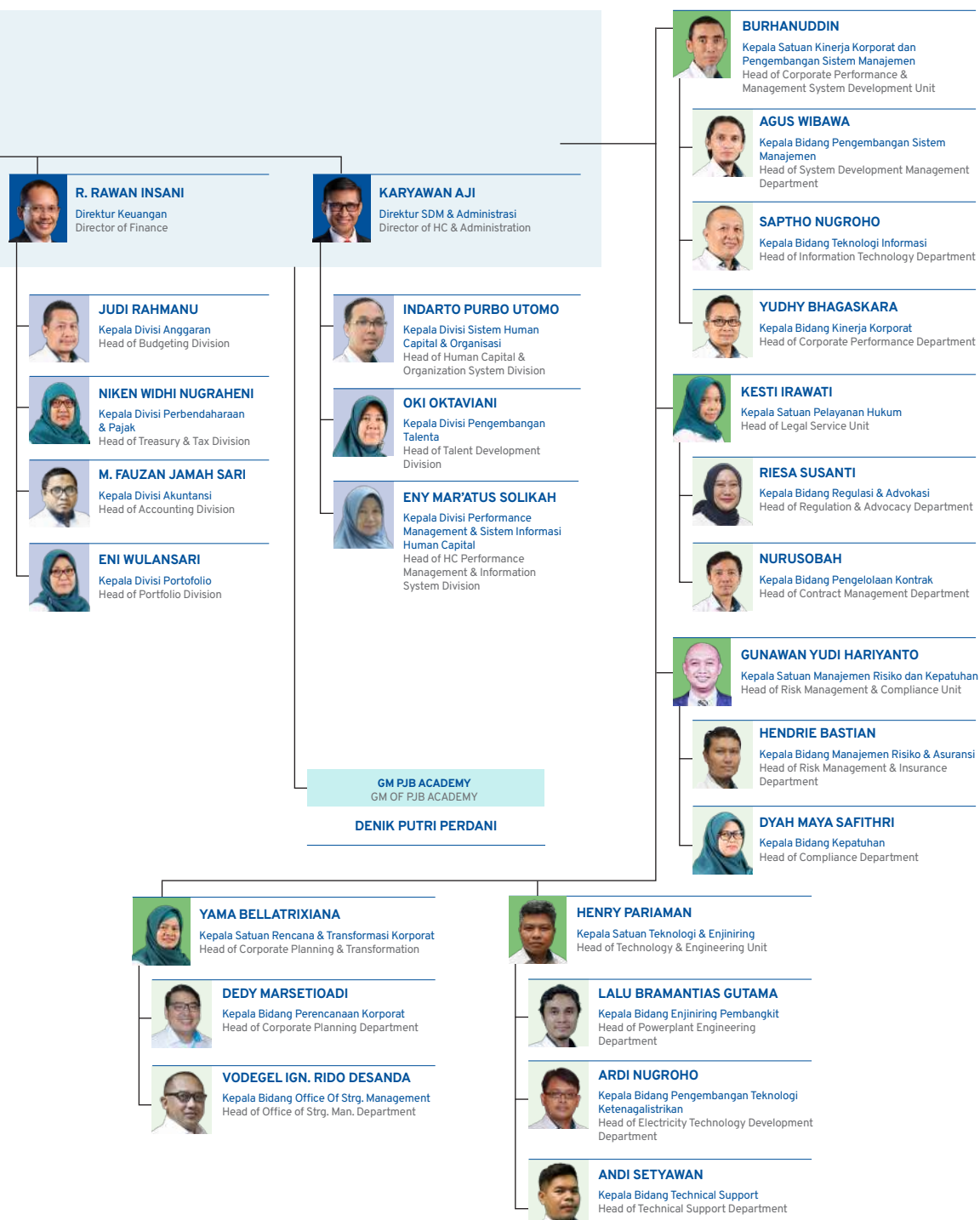


STRUKTUR ORGANISASI ORGANIZATIONAL STRUCTURE

Seiring perkembangan bisnis yang terjadi, PJB telah melakukan penguatan organisasi Perusahaan. Di tahun 2021 telah dilakukan perubahan struktur organisasi yang ditetapkan dalam Peraturan Direksi Nomor: 0001.P/019/DIR/2021 sebagai perubahan atas Surat Keputusan Direksi Nomor: 022.P/019/DIR/2020 tentang Perubahan Keputusan Direksi Nomor: 010.P/019/DIR/2019 tentang Organisasi dan Tata Kerja dan dibentuknya struktur organisasi Unit *Maintenance, Repair & Overhaul* dalam Peraturan Direksi Nomor: 0023.P/019/DIR/2021. Adapun skema struktur organisasi PJB saat ini adalah sebagai berikut:



In line with business development, PJB has strengthened the Company organization. In 2021, changes were applied to the organizational structure as stipulated in the Board of Directors Regulation No. 0001.P/019/DIR/2021 as an amendment to the Board of Directors Decree No. 022.P/019/DIR/2020 concerning Amendment to the Board of Directors Decree No. 010.P/019/DIR/2019 concerning Organization and Work Procedures and the establishment of an organizational structure for the Maintenance, Repair & Overhaul Unit in the Board of Directors Decree No. 0023.P/019/DIR/2021. The current scheme of PJB organizational structure is as follows:





DEWAN KOMISARIS BOARD OF COMMISSIONERS



Dewan Komisaris Board of Commissioners

- | | |
|---|---------------------|
| 1 | Dedeng Hidayat |
| 2 | Komang Parmita |
| 3 | Emir Kresna Wardana |
| 4 | Jisman P. Hutajulu |
| 5 | Hendra Iswahyudi |
| 6 | Bagus Puruhito |





DIREKSI BOARD OF DIRECTORS



Direksi Board of Directors

- | | |
|---|---------------------|
| 1 | Gong Matua Hasibuan |
| 2 | M. Yossy Noval A |
| 3 | Rachmanoe Indarto |
| 4 | Karyawan Aji |
| 5 | Iwan Purwana |
| 6 | Rawan Insani |





KINERJA KORPORAT CORPORATE PERFORMANCE

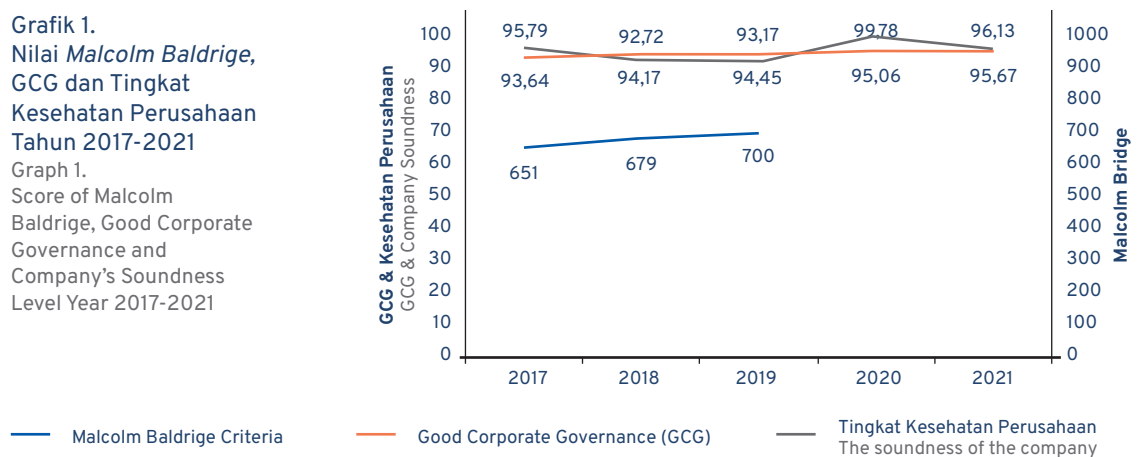


Uraian Description	2017	2018	2019*	2020	2021
<i>Malcolm Baldrige Criteria</i>	651	679	700	*	*
<i>Good Corporate Governance (GCG)</i>	93,64	94,17	94,45	95,06	95,67
Tingkat Kesehatan Perusahaan The soundness of the company	95,79	92,72	93,17	99,78	96,13
	AAA	AAA	AA	AAA	AAA

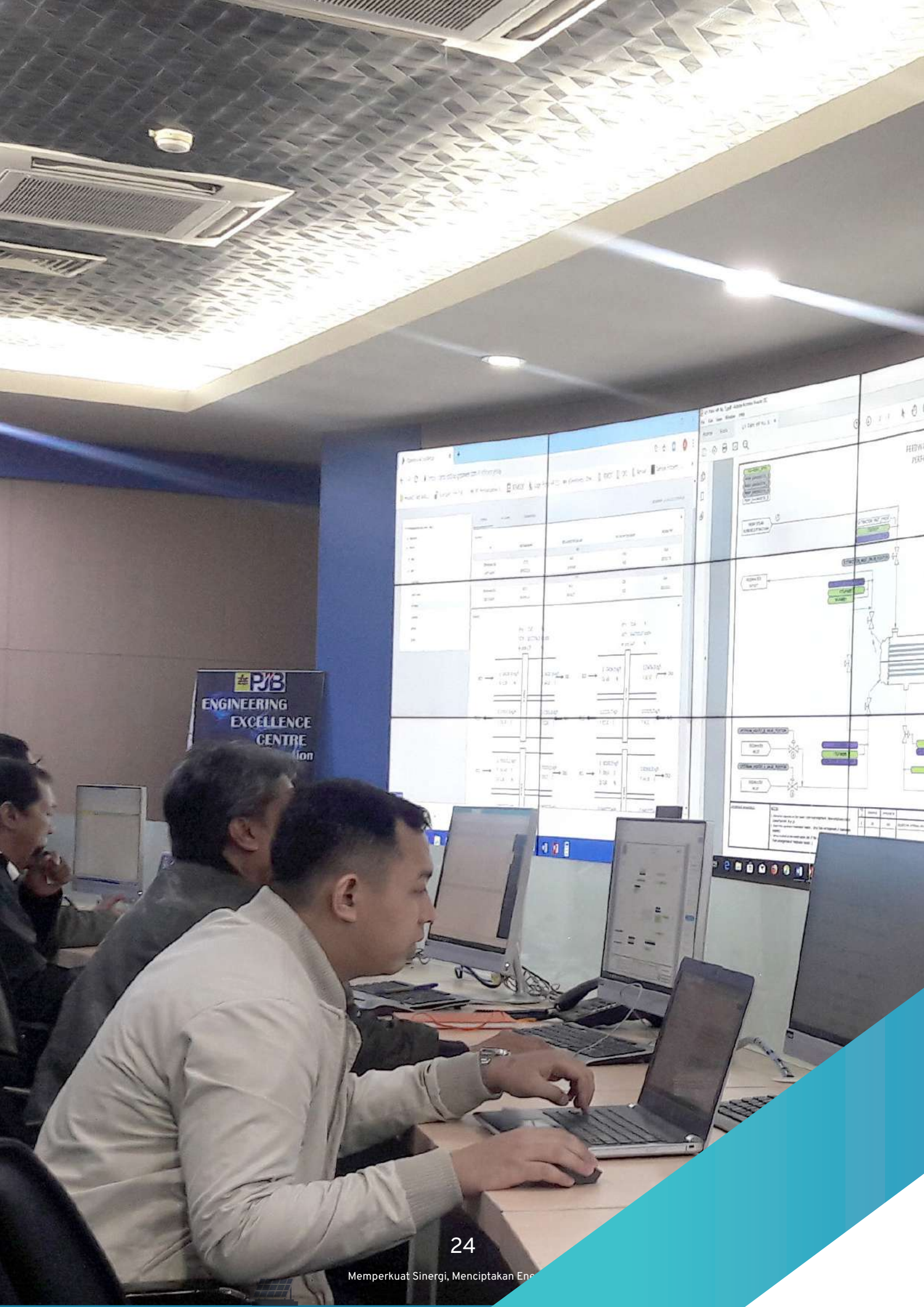
* Pada tahun 2020 & 2021, PJB tidak melaksanakan asesmen kriteria *malcolm baldrige*
* In 2020 & 2021, PJB did not carry out the Malcolm Baldrige criteria assessment

Grafik 1.
Nilai *Malcolm Baldrige*,
GCG dan Tingkat
Kesehatan Perusahaan
Tahun 2017-2021

Graph 1.
Score of Malcolm
Baldrige, Good Corporate
Governance and
Company's Soundness
Level Year 2017-2021









OPERASI PEMBANGKIT

POWER PLANT OPERATIONS



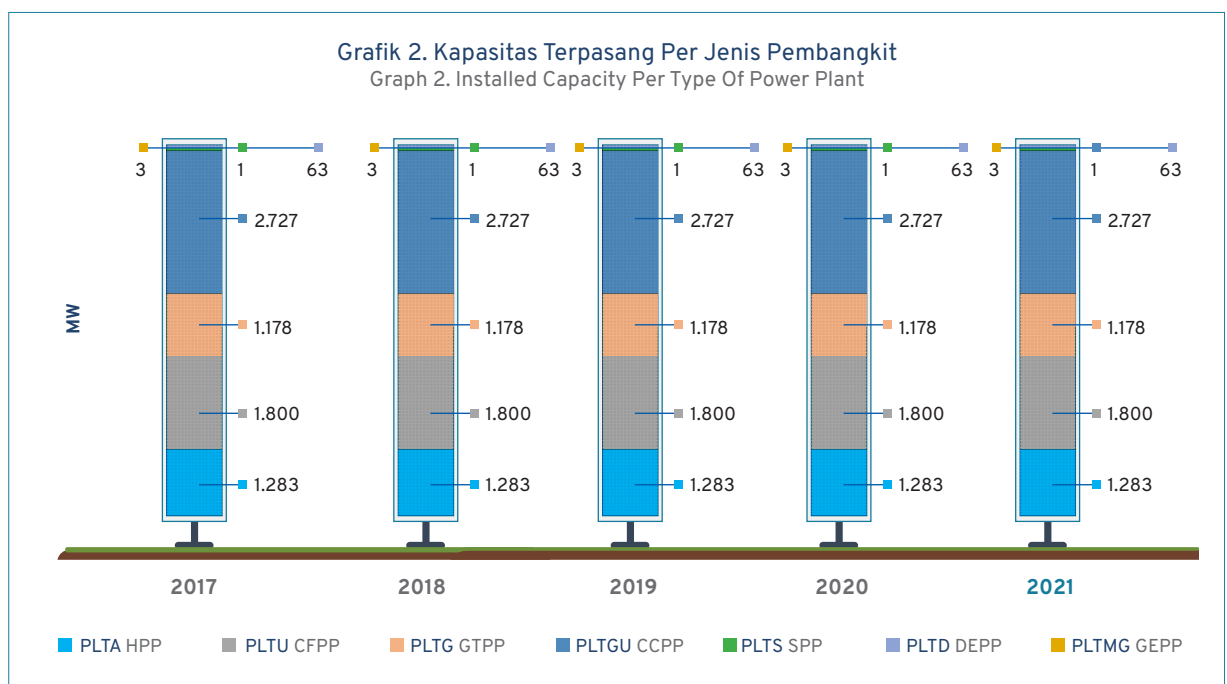


KAPASITAS TERPASANG INSTALLED CAPACITY

Tabel 1. Kapasitas Terpasang Per Jenis Pembangkit
Table 1. Installed Capacity per Type of Power Plant

Jenis Pembangkit Type of Power Plant	2017		2018		2019		2020		2021	
	MW	%	MW	%	MW	%	MW	%	MW	%
PLTA HPP	1.283	18,18	1.283	18,18	1.283	18,18	1.283	18,18	1.283	18,18
PLTU CFPP	1.800	25,52	1.800	25,52	1.800	25,52	1.800	25,52	1.800	25,52
PLTG GTPP	1.178	16,70	1.178	16,70	1.178	16,70	1.178	16,70	1.178	16,70
PLTGU CCPP	2.727	38,65	2.727	38,65	2.727	38,65	2.727	38,65	2.727	38,65
PLTS SPP	1	0,01	1	0,01	1	0,01	1	0,01	1	0,01
PLTD DEPP	63	0,89	63	0,89	63	0,89	63	0,89	63	0,89
PLTMG GEPP	3	0,04	3	0,04	3	0,04	3	0,04	3	0,04
TOTAL	7.055	100	7.055	100	7.055	100	7.055	100	7.055	100

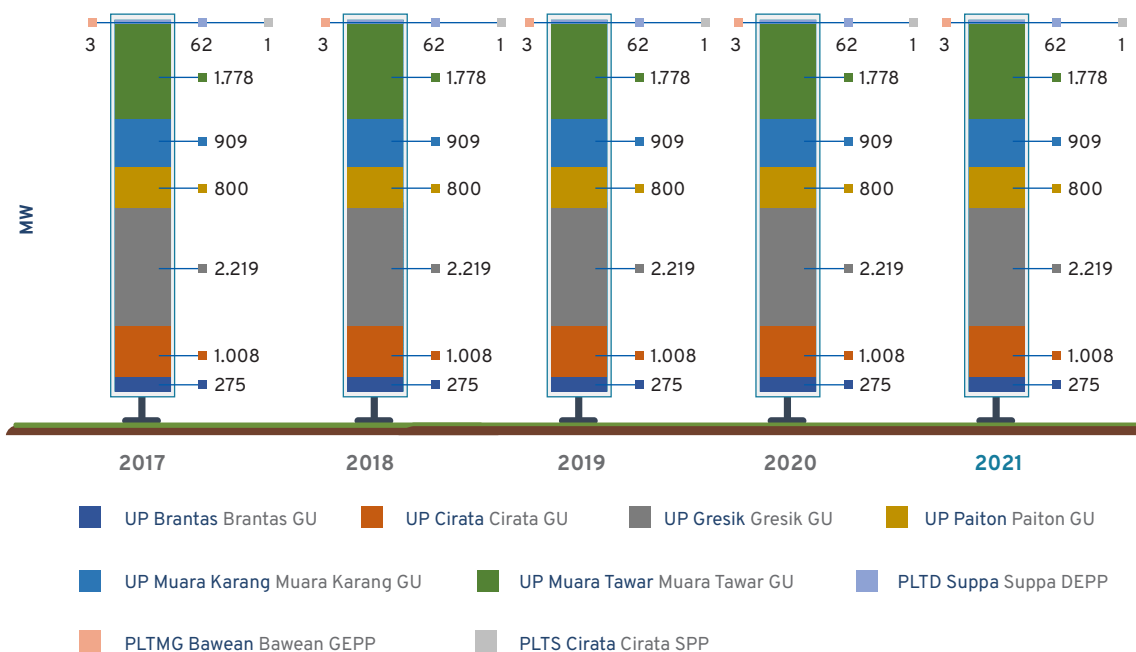
Grafik 2. Kapasitas Terpasang Per Jenis Pembangkit
Graph 2. Installed Capacity Per Type Of Power Plant



Tabel 2. Kapasitas Terpasang Per Unit Pembangkit
Table 2. Installed Capacity Per Generation Unit

Unit Pembangkit Generation Unit	2017		2018		2019		2020		2021	
	MW	%	MW	%	MW	%	MW	%	MW	%
UP Brantas Brantas GU	275	3,90	275	3,90	275	3,90	275	3,90	275	3,90
UP Cirata Cirata GU	1.008	14,29	1.008	14,29	1.008	14,29	1.008	14,29	1.008	14,29
UP Gresik Gresik GU	2.219	31,45	2.219	31,45	2.219	31,45	2.219	31,45	2.219	31,45
UP Paiton Paiton GU	800	11,34	800	11,34	800	11,34	800	11,34	800	11,34
UP Muara Karang Muara Karang GU	909	12,88	909	12,88	909	12,88	909	12,88	909	12,88
UP Muara Tawar Muara Tawar GU	1.778	25,20	1.778	25,20	1.778	25,20	1.778	25,20	1.778	25,20
PLTD Suppa Suppa DEPP	62	0,88	62	0,88	62	0,88	62	0,88	62	0,88
PLTMG Bawean Bawean GEPP	3	0,04	3	0,04	3	0,04	3	0,04	3	0,04
PLTS Cirata Cirata SPP	1	0,01	1	0,01	1	0,01	1	0,01	1	0,01
TOTAL	7.055	100	7.055	100	7.055	100	7.055	100	7.055	100

Grafik 3. Kapasitas Terpasang Per Unit Pembangkit
Graph 3. Installed Capacity Per Generation Unit



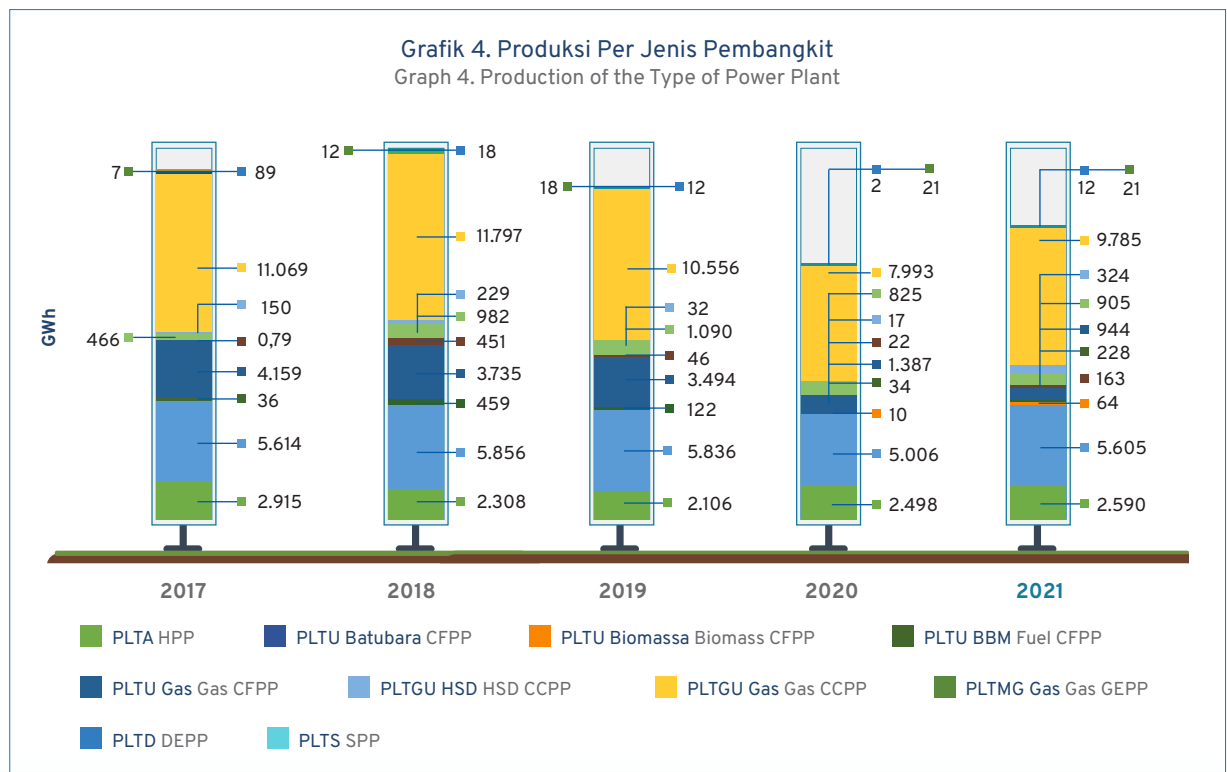


PRODUKSI ENERGI LISTRIK ELECTRICITY PRODUCTION

Tabel 3. Produksi Per Jenis Pembangkit
Table 3. Production of the Type of Power Plant

Jenis Pembangkit Type of Power Plant	2017		2018		2019		2020		2021	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
PLTA HPP	2.915	11,89	2.308	8,93	2.106	9,03	2.498	14,02	2.590	12,55
PLTU Batubara CFPP	5.614	22,91	5.856	22,66	5.836	25,03	5.006	28,10	5.605	27,15
PLTU Biomassa Biomass CFPP	-	-	-	-	-	-	10	0,05	64	0,31
PLTU BBM Fuel CFPP	36	0,15	459	1,78	122	0,52	34	0,19	228	1,10
PLTU Gas Gas CFPP	4.159	16,97	3.735	14,45	3.494	14,99	1.387	7,79	944	4,58
PLTG HSD HSD GTPP	0,79	0,00	451	1,75	46	0,20	22	0,13	163	0,79
PLTG Gas Gas GTPP	466	1,90	982	3,80	1.090	4,67	825	4,63	905	4,39
PLTGU HSD HSD CCPP	150	0,61	229	0,89	32	0,14	17	0,10	324	1,57
PLTGU Gas Gas CCPP	11.069	45,17	11.797	45,64	10.556	45,28	7.993	44,86	9.785	47,40
PLTMG Gas Gas GEPP	7	0,03	12	0,05	18	0,08	21	0,12	21	0,10
PLTD DEPP	89	0,36	18	0,07	12	0,05	2	0,01	12	0,06
PLTS SPP	1	0,00	-	0,00	-	0,00	-	0,00	-	0,00
TOTAL	24.507	100,00	25.847	100,00	23.313	100,00	17.816	100,00	20.641	100,00

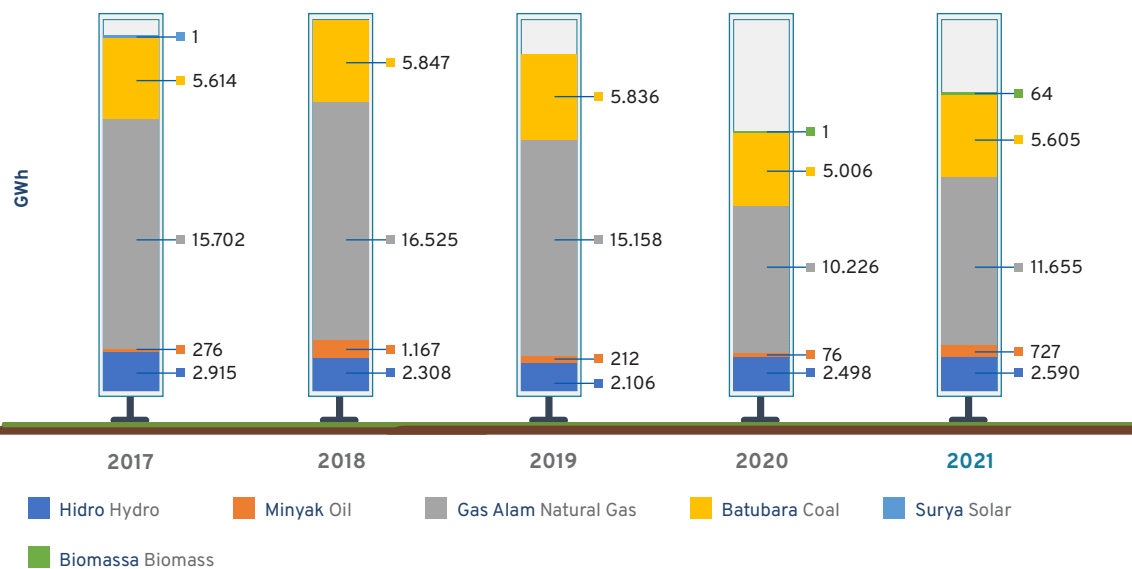
Grafik 4. Produksi Per Jenis Pembangkit
Graph 4. Production of the Type of Power Plant



Tabel 4. Produksi Per Jenis Bahan Bakar
Table 4. Production Per Fuel Type

Jenis Bahan Bakar Fuel Type	2017		2018		2019		2020		2021	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
Hidro Hydro	2.915	11,89	2.308	8,93	2.106	9,03	2.498	14,02	2.590	14,54
Minyak Oil	276	1,13	1.167	4,52	212	0,91	76	0,43	727	4,08
Gas Alam Natural Gas	15.702	64,07	16.525	63,93	15.158	65,02	10.226	57,40	11.655	56,47
Batubara Coal	5.614	22,91	5.847	22,62	5.836	25,03	5.006	28,10	5.605	27,15
Surya Solar	1	0,0045	-	0,00	-	0,00	-	0,00	-	0,00
Biomassa Biomass	-	-	-	-	-	-	10	0,06	64	0,31
TOTAL	24.507	100,00	25.847	100,00	23.313	100,00	17.816	100,00	20.641	102,55

Grafik 5. Produksi Per Jenis Bahan Bakar
Graph 5. Production Per Fuel Type

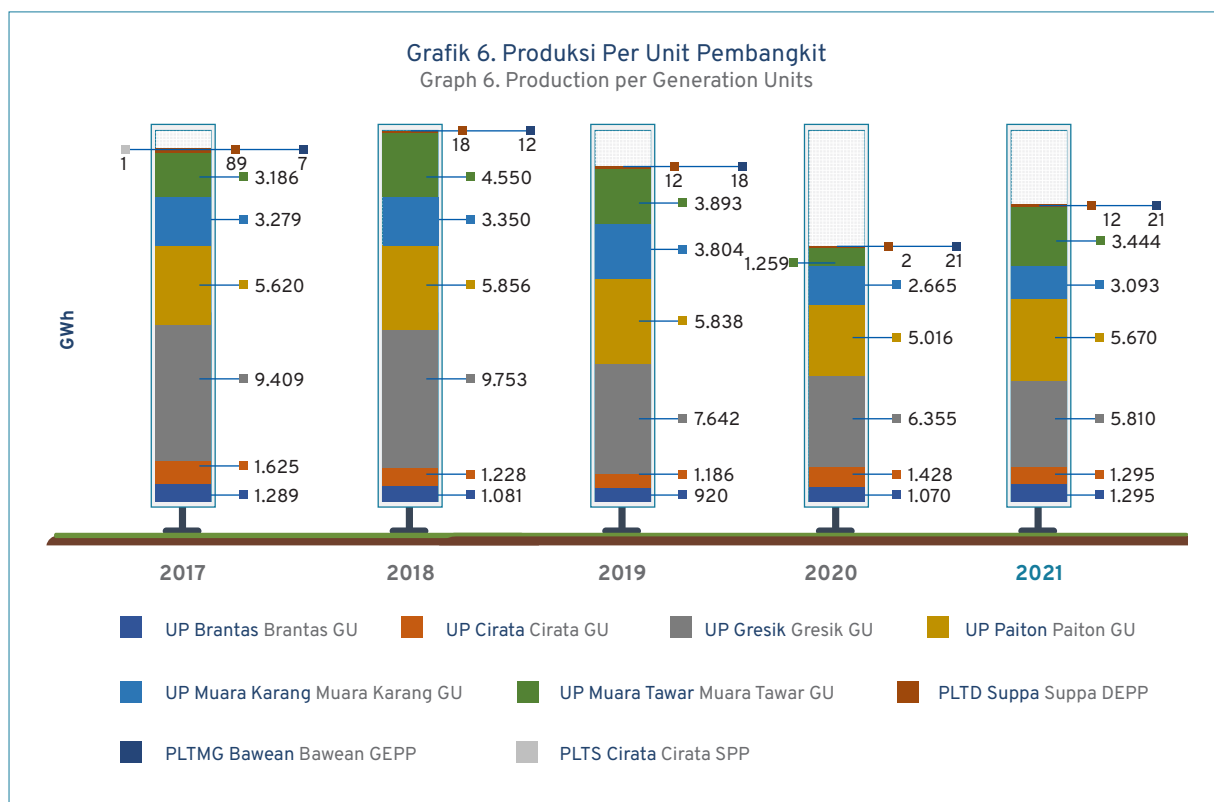




Tabel 5. Produksi Per Unit Pembangkit
Table 5. Production per Generation Units

Unit Pembangkit Generation Unit	2017		2018		2019		2020		2021	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
UP Brantas Brantas GU	1.289	5,26	1.081	4,18	920	3,95	1.070	6,01	1.295	6,27
UP Cirata Cirata GU	1.625	6,63	1.228	4,75	1.186	5,09	1.428	8,01	1.295	6,28
UP Gresik Gresik GU	9.409	38,39	9.753	37,73	7.642	32,78	6.355	35,67	5.810	28,15
UP Paiton Paiton GU	5.620	22,93	5.856	22,66	5.838	25,04	5.016	28,15	5.670	27,47
UP Muara Karang Muara Karang GU	3.279	13,38	3.350	12,96	3.804	16,32	2.665	14,96	3.093	14,99
UP Muara Tawar Muara Tawar GU	3.186	13,00	4.550	17,60	3.893	16,70	1.259	7,06	3.444	16,69
PLTMG Bawean Bawean GEPP	7	0,03	12	0,05	18	0,08	21	0,12	21	0,10
PLTD Suppa Suppa DEPP	89	0,36	18	0,07	12	0,05	2	0,01	12	0,06
PLTS Cirata Cirata SPP	1	0,0045	-	0,0000	-	0,00	-	0,00	-	0,00
TOTAL	24.507	100,00	25.847	100,00	23.313	100,00	17.816	100,00	20.641	100,00

Grafik 6. Produksi Per Unit Pembangkit
Graph 6. Production per Generation Units



PEMAKAIAN SENDIRI DAN SUSUT TRAF0 (PSST)

SELF CONSUMPTION AND ENERGY LOSSES (SCEL)

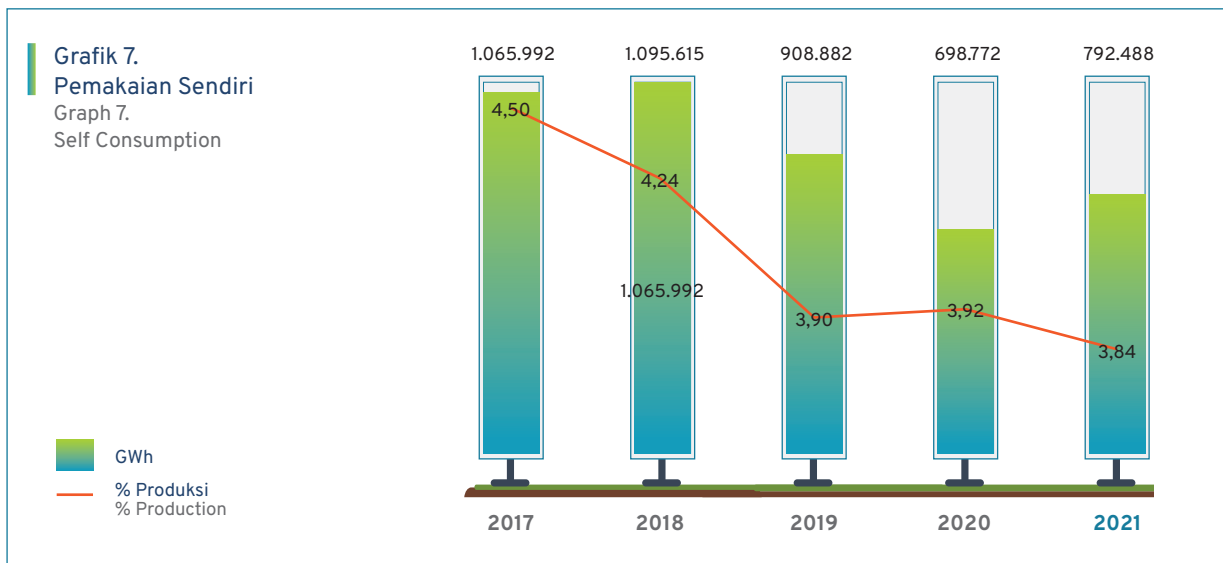
Tabel 6. PSST Per Jenis Pembangkit
Table 6. SCEL per Type of Power Plant

Jenis Pembangkit Type of Power Plant	2017		2018		2019		2020		2021	
	MWh	%	MWh	%	MWh	%	MWh	%	MWh	%
PLTA HPP	67.978	2,33	51.582	2,23	34.421	1,63	54.675	2,19	44.386	0,22
PLTU CFPP	684.194	6,97	700.995	6,98	639.001	6,76	469.683	7,30	505.922	2,45
PLTG GTPP	17.512	1,05	35.117	2,45	17.693	1,56	10.941	1,29	14.775	0,07
PLTGU CCPP	293.428	2,56	306.078	2,55	216.394	2,04	162.052	2,02	226.092	1,10
PLTD DEPP	2.794	3,13	1.100	5,98	287	2,32	49	2,38	262	0,00
PLTS SPP	86	7,84	-	-	-	-	-	-	-	-
PLTMG GEPP	-	-	743	6,38	1.086	6,11	1.372	6,46	1.051	0,01
TOTAL	1.065.992	4,35	1.095.615	4,24	908.882	3,90	698.772	3,92	792.488	3,84

Tabel 7. PSST Per Unit Pembangkit
Table 7. SCEL per Generation Units

Unit Pembangkit Generation Unit	2017		2018		2019		2020		2021	
	MWh	%	MWh	%	MWh	%	MWh	%	MWh	%
UP Brantas Brantas GU	19.903	1,54	15.963	1,48	11.658	1,27	23.977	2,24	16.360	0,08
UP Cirata Cirata GU	48.075	2,96	35.618	2,90	22.763	1,92	30.698	2,15	28.026	0,14
UP Gresik Gresik GU	222.850	2,37	307.392	3,15	186.653	2,44	136.060	2,14	127.892	0,62
UP Paiton Paiton GU	411.632	7,32	434.872	7,43	418.118	7,16	382.965	7,64	432.629	2,10
UP Muara Karang Muara Karang GU	140.095	4,27	169.320	5,05	179.770	4,73	104.516	3,92	124.183	0,60
UP Muara Tawar Muara Tawar GU	220.043	6,91	130.606	2,87	88.547	2,27	19.135	1,52	62.085	0,30
PLTMG Bawean Bawean GEPP	514	6,89	743	6,38	1.086	6,11	1.372	6,46	1.051	0,01
PLTD Suppa Suppa DEPP	2.794	3,13	1.100	5,98	287	2,32	49	2,38	262	0,00
PLTS Cirata Cirata SPP	86	7,84	-	-	-	-	-	-	-	-
TOTAL	1.095.615	4,24	908.882	3,90	698.772	3,92	792.488	3,84	20.641	100,00





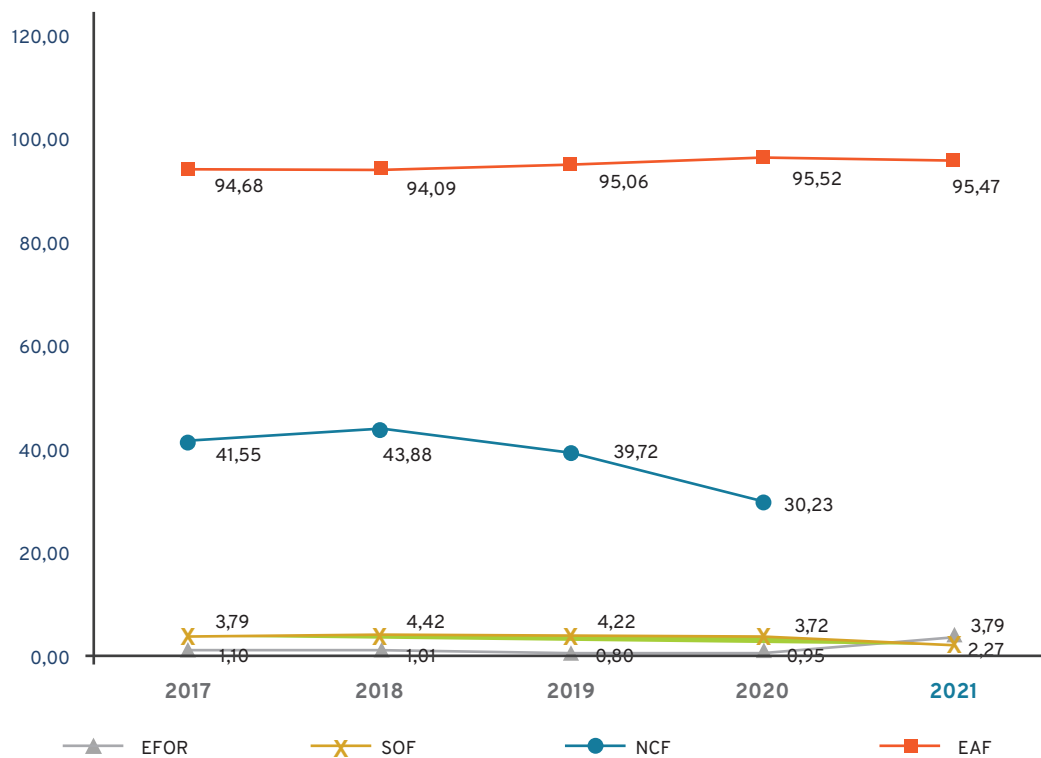
FAKTOR KEANDALAN OPERASI OPERATING RELIABILITY FACTOR

Tabel 8. Faktor Keandalan Operasi Per Jenis Pembangkit
Table 8. Operating Reliability Factor per The Type of Power Plant

Jenis Pembangkit Type of Power Plant	NCF					EAF				
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
PLTA HPP	26,71	21,17	19,44	22,20	23,20	97,62	93,22	98,03	96,26	93,35
PLTU Batubara CFPP	80,35	83,63	83,60	71,27	80,80	92,01	94,47	90,28	94,05	95,12
PLTU Non-Batubara Non-CFPP	54,26	54,41	47,02	18,45	15,33	92,17	89,20	96,68	99,56	99,47
PLTG GTPP	4,48	13,94	11,15	8,32	10,50	98,71	96,90	93,57	98,20	95,71
PLTGU CCPP	50,93	54,63	48,35	36,93	46,44	93,08	94,05	95,17	93,08	95,24
PLTMG GEPP	26,42	41,52	63,46	75,43	75,44	-	-	-	-	-
PLTD DEPP	15,84	3,18	2,22	0,37	2,18	-	-	-	-	-
PJB	41,55	43,88	39,72	30,23	35,13	94,68	94,09	95,06	95,52	95,47

Jenis Pembangkit Type of Power Plant	EFOR					SOF				
	2017	2018	2019	2020	2021	2017	2018	2019	2019	2021
PLTA HPP	2,06	0,75	0,92	2,37	9,06	1,06	2,96	1,67	3,09	2,94
PLTU Batubara CFPP	2,40	0,98	1,78	1,10	0,92	5,64	4,58	8,11	4,83	3,88
PLTU Non-Batubara Non-CFPP	0,53	2,82	0,18	0,41	2,02	7,28	8,17	2,01	0,32	0,00
PLTG GTPP	0,06	0,65	0,95	0,66	0,06	1,27	2,76	6,28	1,73	4,27
PLTGU CCPP	0,76	0,49	0,58	0,71	4,92	4,51	5,09	3,71	5,71	1,20
PJB	1,10	1,01	0,80	0,93	3,70	3,79	4,42	4,22	3,72	2,27

Grafik 8. Faktor Keandalan Operasi Per Jenis Pembangkit
Graph 8. Operating Reliability Factor per Type of Power Plant





PEMAKAIAN BAHAN BAKAR FUEL CONSUMPTION

Tabel 9. Pemakaian Bahan Bakar
Table 9. Fuel Consumption

Unit Pembangkit Generation Unit	2017		2018		
	Produksi Production	Pemakaian Bahan Bakar Fuel Consumption	Produksi Production	Pemakaian Bahan Bakar Fuel Consumption	
	MWh	Ton, kL, BBTU	MWh	Ton, kL, BBTU	
Batubara Coal	5.613.925	2.658.368	5.846.945	3.217.981	
BBM Oil	276.156	30.478	1.167.210	337.472	
MFO	115.291	26.806	473.622	119.121	
Gresik	25.703	6.428	264.736	65.532	
Muara Karang	472	125	190.484	49.615	
Suppa	89.115	20.253	18.402	3.973	
HSD	160.865	3.672	711.992	218.963	
Gresik	3.175	889	114.969	35.596	
Muara Karang	1.955	741	95.791	23.692	
Muara Tawar	149.312	281	473.576	157.089	
Paiton	6.424	1.762	9.255	2.575	
Suppa			18.402	10	
Gas Alam Natural Gas	15.701.612	142.452	16.525.029	149.751	
Gresik	9.380.482	84.872	9.373.512	83.289	
M Karang	3.276.924	30.616	3.063.595	29.300	
M.Tawar	3.036.749	26.886	4.076.266	37.043	
Bawean (CNG)	7.458	78	11.655	119	
Hidro Hydro	2.914.506		2.308.145		
Brantas	1.289.184		1.080.611		
Cirata	1.625.322		1.227.534		
PLTS SPP	1.099		-		
Biomassa Biomass					
Total	24.507.298		25.847.329		

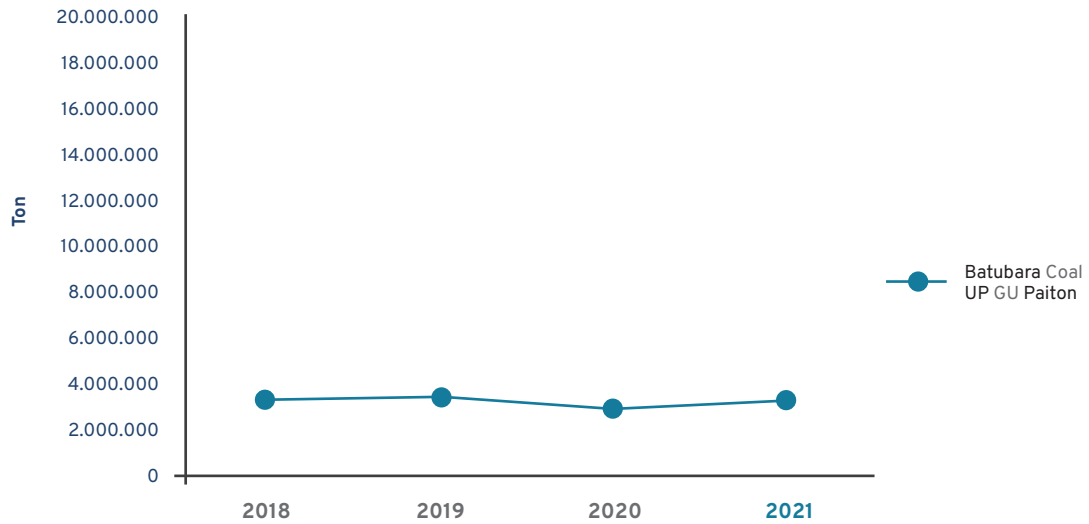


	2019		2020		2021	
	Produksi Production	Pemakaian Bahan Bakar Fuel Consumption	Produksi Production	Pemakaian Bahan Bakar Fuel Consumption	Produksi Production	Pemakaian Bahan Bakar Fuel Consumption
	MWh	Ton, kL, BBTU	MWh	Ton, kL, BBTU	MWh	Ton, kL, BBTU
	5.836.127	3.293.951	5.005.895	2.846.189	5.604.958	3.241.528
	212.492	57.812	89.066	22.644	726.645	188.901
	130.345	33.589	34.330	8.618	232.007	59.612
	94.438	24.793	23.282	5.827	100.113	25.583
	23.524	6.067	9.001	2.333	120.927	31.437
	12.383	2.729	2.046	458	10.967	2.592
	82.148	24.223	54.737	14.026	494.639	129.289
	32.717	8.553	13.958	3.773	152.902	37.987
	2.147	605	7.130	1.678	144.611	35.083
	45.829	13.749	23.856	7.509	194.512	54.724
	1.454	1.308	9.793	1.043	1.429	1.392
		9		23	1.184	102
	15.158.090	139.852	10.222.817	95.612	11.655.005	106.500
	7.514.840	66.614	6.318.030	56.509	5.556.583	50.001
	3.778.764	35.885	2.648.839	23.833	2.827.938	25.267
	3.846.722	37.169	1.234.697	15.054	3.249.606	31.022
	17.764	184	21.250	215	20.878	210
	2.106.278		2.498.029		2.590.341	-
	920.050		1.070.276		1.294.963	-
	1.186.228		1.427.753		1.295.377	-
					-	-
					63.975	61.408
	23.312.988		17.815.807		20.640.924	

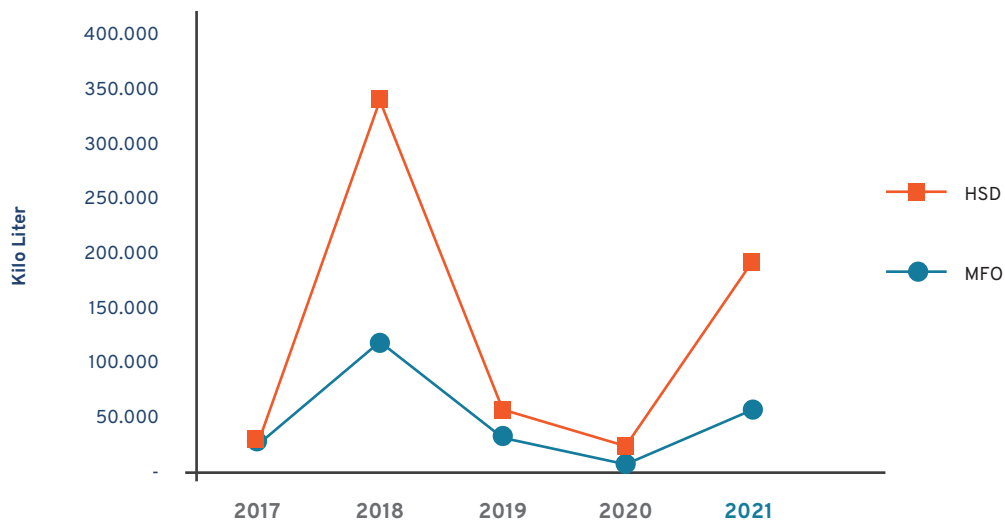




Grafik 9. Pemakaian Batubara
Graph 9. Coal Consumption

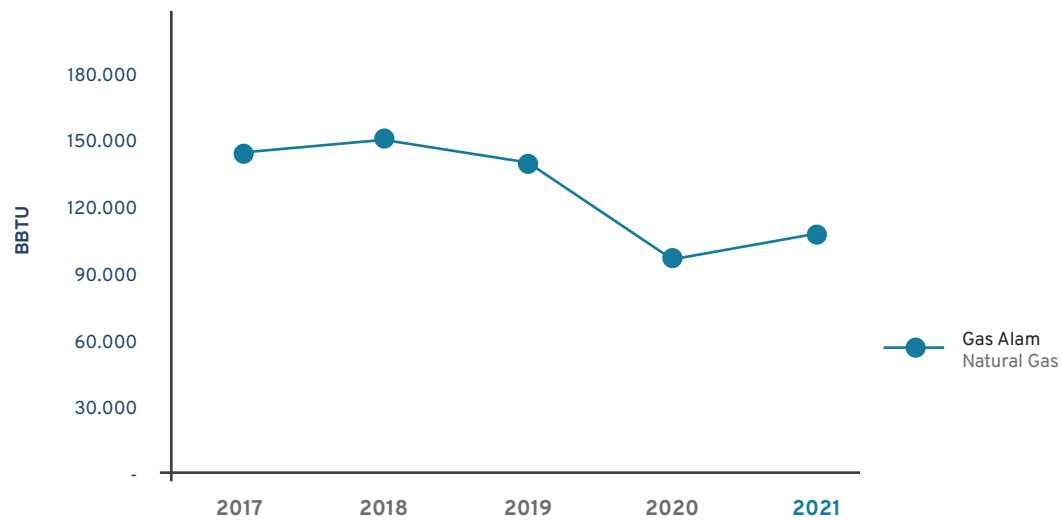


Grafik 10. Pemakaian Minyak
Graph 10. Oil Consumption





Grafik 11. Pemakaian Gas Alam
Graph 11. Natural Gas Consumption





DATA OPERASI OPERATION DATA

Tabel 10. Data Operasi Per Jenis Pembangkit
Table 10. Operation Data Per Type of Power Plant

Jenis Pembangkit Type of Power Plant	2017					2018				
	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales
	MW	%	GWh	GWh	GWh	MW	%	GWh	GWh	GWh
PLTA HPP	1.217	26,71	2.915	68	2.847	1.217	21,17	2.308	52	2.257
Brantas	269	53,95	1.289	20	1.269	269	45,26	1.081	16	1.065
Cirata	948	18,99	1.625	48	1.577	948	14,35	1.228	36	1.192
PLTU CFPP	1.564	66,60	9.809	684	9.125	1.564	68,24	10.050	701	9.349
Gresik	500	54,71	2.561	165	2.396	500	48,18	2.252	142	2.110
Paiton	740	80,35	5.620	412	5.209	740	83,63	5.856	435	5.421
Muara Karang	324	53,57	1.628	108	1.520	324	64,03	1.941	124	1.817
PLTU CFPP	1.145	4,48	467	17	450	1.145	13,94	1.433	35	1.398
Gresik	31	0,08	0	0	0	31	0,68	2	1	2
Muara Tawar	1.114	4,61	466	17	450	1.114	14,30	1.430	35	1.396
PLTGU CCPP	2.449	50,93	11.219	293	10.926	2.449	54,63	12.026	306	11.720
Gresik	1.440	53,83	6.848	58	6.790	1.440	58,14	7.499	165	7.334
Muara Karang	394	46,91	1.651	32	1.619	394	39,49	1.408	45	1.363
Muara Tawar	615	46,71	2.720	203	2.516	615	56,12	3.119	96	3.023
PLTMG GEPP	3	26,42	7	1	7	3	41,52	12	1	11
Bawean	3	26,42	7	1	7	3	41,52	12	1	11
PLTD DEPP	62	15,84	89	3	86	62	3,18	18	1	17
Suppa	62	15,84	89	3	86	62	3,18	18	1	17
PLTS SPP	1	-	1	0	1	-	-	-	-	-
Suppa	1	-	1		1	-		-		-
Total	6.441	41,55	24.507	1.065	23.441	6.440	43,88	25.847	1.095	24.752

Jenis Pembangkit Type of Power Plant	2019					2020				
	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales
	MW	%	GWh	GWh	GWh	MW	%	GWh	GWh	GWh
PLTA HPP	1.217	19,44	2.106	34	2.072	1.253	22,26	2.498	55	2.443
Brantas	269	38,61	920	12	908	269	44,43	1.070	24	1.046
Cirata	948	14,01	1.186	23	1.163	984	16,21	1.428	31	1.397
PLTU CFPP	1.564	64,33	9.452	639	8.813	1.564	43,56	6.438	470	5.968
Gresik	500	33,25	1.548	91	1.457	500	16,97	791	48	743
Paiton	740	83,60	5.838	418	5.419	740	71,47	5.016	383	4.633
Muara Karang	324	68,26	2.067	130	1.937	324	20,85	631	39	592
PLTU CFPP	1.145	11,15	1.136	18	1.118	1.145	8,34	847	11	836
Gresik	31	0,02	0	(0)	0	31	0,00	0	0	0
Muara Tawar	1.114	11,46	1.136	18	1.118	1.114	8,57	847	11	836

Jenis Pembangkit Type of Power Plant	2019					2020				
	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales
	MW	%	GWh	GWh	GWh	MW	%	GWh	GWh	GWh
PLTGU CCPP	2.449	48,35	10.588	216	10.372	2.419	37,03	8.010	162	7.848
Gresik	1.440	47,55	6.094	95	5.999	1.400	44,65	5.564	88	5.476
Muara Karang	394	48,88	1.737	50	1.687	404	55,63	2.034	65	1.969
Muara Tawar	615	49,86	2.757	71	2.686	615	7,48	411	8	403
PLTMG GEPP	3	63,46	18	1	17	3	75,64	21	1	20
Bawean	3	63,46	18	1	17	3	75,64	21	1	20
PLTD DEPP	62	2,22	12	0	12	62	0,37	2	0	2
Suppa	62	2,22	12	0	12	62	0,37	2	0	2
PLTS SPP	-	-	-	-	-	-	-	-	-	-
Suppa	-	-	-	-	-	-	-	-	-	-
Total	6.440	39,72	23.313	909	22.404	6.446	30,31	17.816	699	17.117

Jenis Pembangkit Type of Power Plant	2021				
	DMN	NCF	Produksi Production	PS+Strfo	Penjualan Sales
	MW	%	GWh	GWh	GWh
PLTA HPP	1.253	23,20	2.590	44	2.546
Brantas	269	54,30	1.295	16	1.279
Cirata	984	14,70	1.295	28	1.267
PLTU CFPP	1.557	46,45	6.841	506	6.335
Gresik	493	8,24	381	26	356
Paiton	740	80,80	5.670	433	5.238
Muara Karang	324	26,12	789	48	741
PLTU CFPP	1.145	10,50	1.068	15	1.053
Gresik	31	0,15	1	1	0
Muara Tawar	1.114	10,79	1.067	14	1.053
PLTGU CCPP	2.429	46,44	10.108	226	9.882
Gresik	1.410	43,12	5.427	102	5.325
Muara Karang	404	62,95	2.304	77	2.228
Muara Tawar	615	43,23	2.377	48	2.329
PLTMG GEPP	3	75,44	21	1	20
Bawean	3	75,44	21	1	20
PLTD DEPP	62	2,18	12	0	12
Suppa	62	2,18	12	0	12
PLTS SPP	-	-	-	-	-
Suppa	-	-	-	-	-
Total	6.449	35,13	20.641	792	19.848

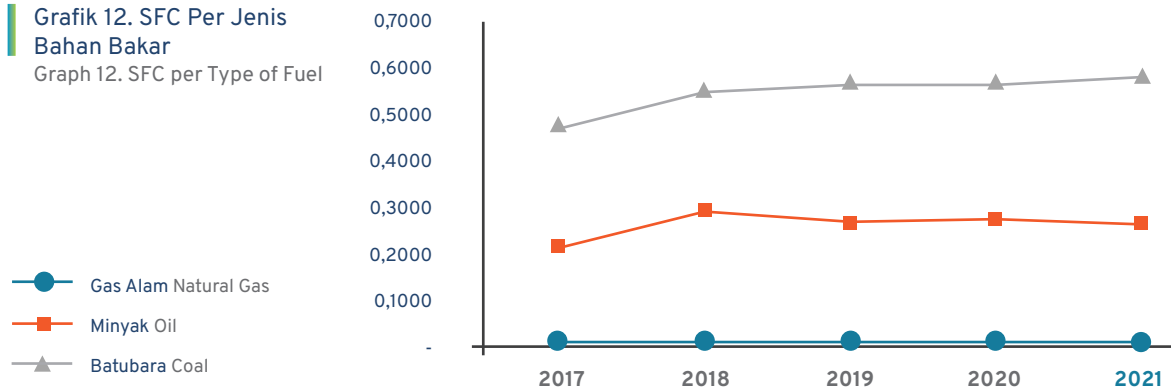




Tabel 11. SFC Per Jenis Bahan Bakar
Table 11. SFC per Type of Fuel

Jenis Bahan Bakar Type of fuel	Satuan Unit	2017	2018	2019	2020	2021
Gas Alam Natural Gas	MMBTU/kWh	0,0089	0,0091	0,0093	0,0094	0,0086
Minyak Oil	lt/kWh	0,2128	0,2897	0,2677	0,2722	0,2615
Batubara Coal	Kg/kWh	0,4735	0,5504	0,5644	0,5686	0,5825

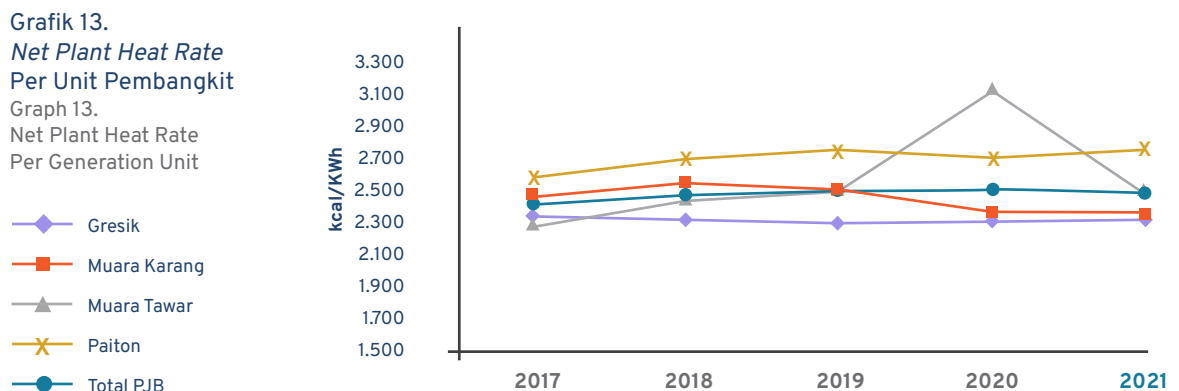
Grafik 12. SFC Per Jenis
Bahan Bakar
Graph 12. SFC per Type of Fuel



Tabel 12. Net Plant Heat Rate Per Unit Pembangkit
Table 12. Net Plant Heat Rate Per Generation Unit

Unit Pembangkit Generation Units	Satuan Unit	2017	2018	2019	2020	2021
Gresik	Kcal/kWh	2.336	2.323	2.294	2.304	2.322
Muara Karang	Kcal/kWh	2.460	2.540	2.512	2.360	2.354
Muara Tawar	Kcal/kWh	2.285	2.434	2.495	3.116	2.462
Paiton	Kcal/kWh	2.580	2.690	2.743	2.701	2.750
Total PJB	Kcal/kWh	2.409	2.464	2.491	2.509	2.485

Grafik 13.
Net Plant Heat Rate
Per Unit Pembangkit
Graph 13.
Net Plant Heat Rate
Per Generation Unit



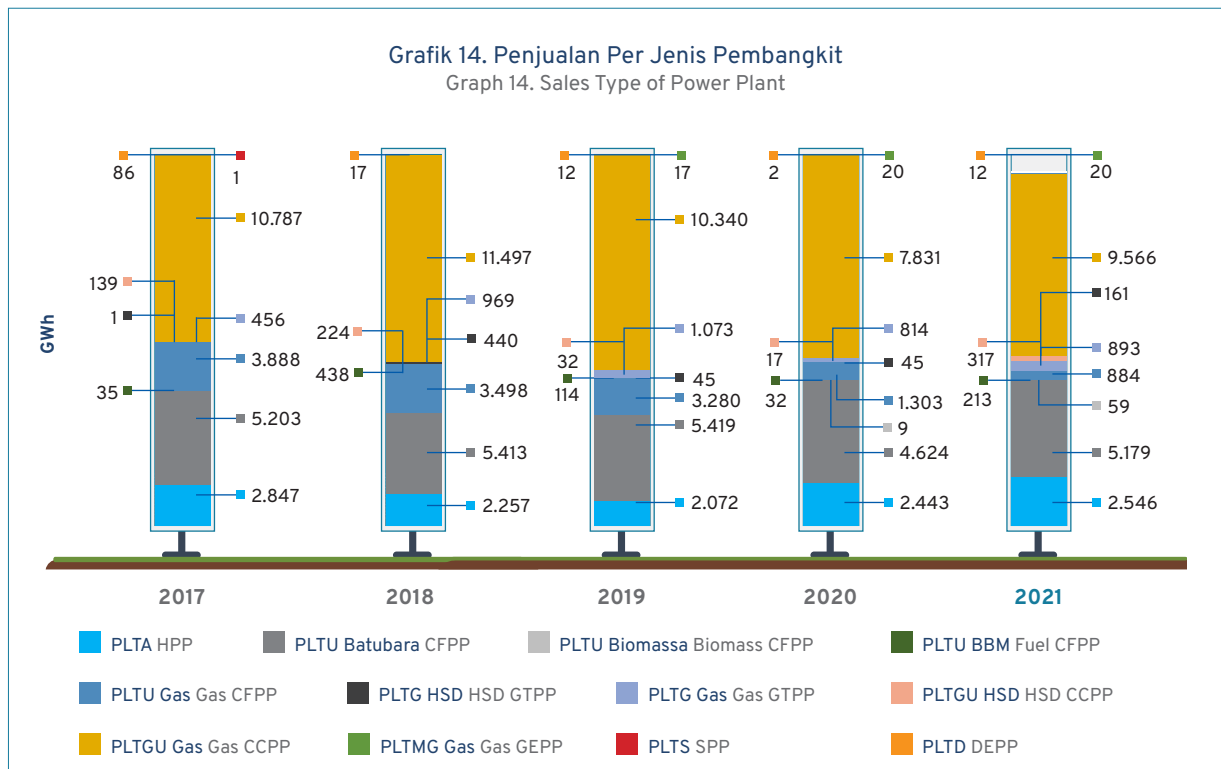
PENJUALAN ENERGI LISTRIK

ELECTRICITY SALES

Tabel 13. Penjualan Per Jenis Pembangkit
Tabel 13. Sales per Type of Power Plant

Jenis Pembangkit Type of Power Plant	2017		2018		2019		2020		2021	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
PLTA HPP	2.847	12,14	2.257	9,12	2.072	9,25	2.443	14,27	2.546	12,83
PLTU Batubara CFPP	5.203	22,19	5.413	21,87	5.419	24,19	4.624	27,01	5.179	26,09
PLTU Biomassa Biomass CFPP	-	-	-	-	-	-	9	0,05	59	0,30
PLTU BBM Fuel CFPP	35	0,15	438	1,77	114	0,51	32	0,19	213	1,07
PLTU Gas Gas CFPP	3.888	16,59	3.498	14,13	3.280	14,64	1.303	7,61	884	4,45
PLTG HSD HSD GTTP	1	0,00	440	1,78	45	0,20	22	0,13	161	0,81
PLTG Gas Gas GTTP	456	1,95	969	3,91	1.073	4,79	814	4,76	893	4,50
PLTGU HSD HSD CCPP	139	0,59	224	0,90	32	0,14	17	0,10	317	1,60
PLTGU Gas Gas CCPP	10.787	46,02	11.497	46,45	10.340	46,15	7.831	45,75	9.566	48,19
PLTMG Gas Gas GEPP	-	-	-	-	17	0,07	20	0,12	20	0,10
PLTS SPP	1	0,0043	-	-	-	-	-	-	-	-
PLTD DEPP	86	0,37	17	0,07	12	0,05	2	0,01	12	0,06
TOTAL	23.441	100,00	24.752	100,00	22.404	100,00	17.117	100,00	19.848	100,00

Grafik 14. Penjualan Per Jenis Pembangkit
Graph 14. Sales Type of Power Plant

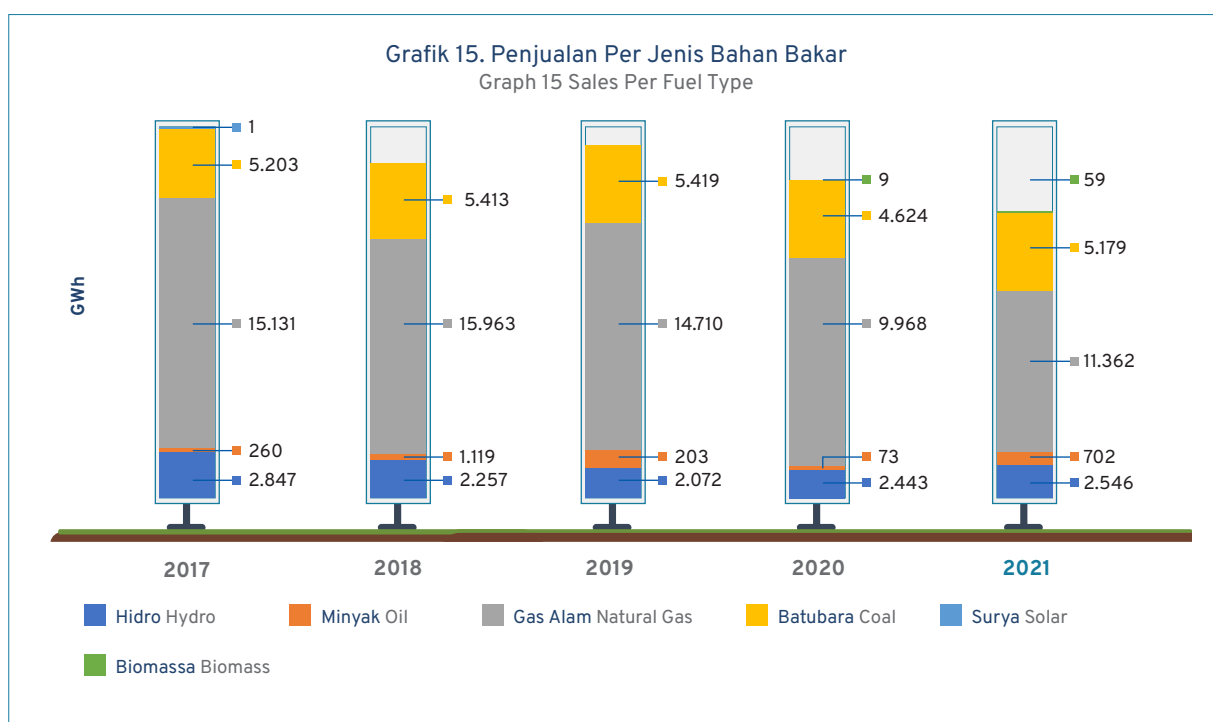




Tabel 14. Penjualan Per Jenis Bahan Bakar
Tabel 14. Sales per Fuel Type

Jenis Bahan Bakar Fuel Type	2017		2018		2019		2020		2021	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
Hidro Hydro	2.847	12,14	2.257	9,12	2.072	9,25	2.443	14,27	2.546	12,83
Minyak Oil	260	1,11	1.119	4,52	203	0,90	73	0,43	702	3,54
Gas Alam Natural Gas	15.131	64,55	15.963	64,49	14.710	65,66	9.968	58,23	11.362	57,25
Batubara Coal	5.203	22,19	5.413	21,87	5.419	24,19	4.624	27,01	5.179	26,09
Surya Solar	1	0,00	-	-	-	-	-	-	-	-
Biomassa Biomass	-	-	-	-	-	-	9	0,05	59	0,30
TOTAL	23.441	100,00	24.752	100,00	22.404	100,00	17.117	100,00	19.848	100,00

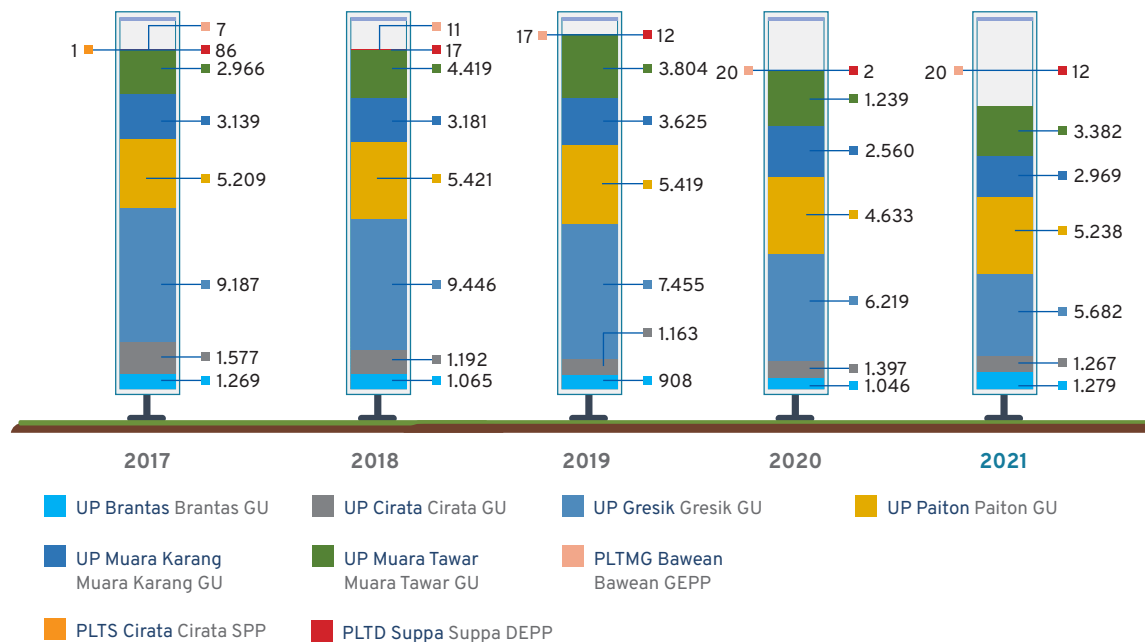
Grafik 15. Penjualan Per Jenis Bahan Bakar
Graph 15 Sales Per Fuel Type



Tabel 15. Penjualan Per Unit Pembangkit
Table 15. Sales per Generation Unit

Unit Pembangkit Generation Unit	2017		2018		2019		2020		2021	
	MWh	%	MWh	%	MWh	%	MWh	%	MWh	%
UP Brantas Brantas GU	1.269	5,41	1.065	4,30	908	4,05	1.046	6,11	1.279	6,44
UP Cirata Cirata GU	1.577	6,73	1.192	4,82	1.163	5,19	1.397	8,16	1.267	6,39
UP Gresik Gresik GU	9.187	39,19	9.446	38,16	7.455	33,28	6.219	36,33	5.682	28,63
UP Paiton Paiton GU	5.209	22,22	5.421	21,90	5.419	24,19	4.633	27,07	5.238	26,39
UP Muara Karang Muara Karang GU	3.139	13,39	3.181	12,85	3.625	16,18	2.560	14,96	2.969	14,96
UP Muara Tawar Muara Tawar GU	2.966	12,65	4.419	17,85	3.804	16,98	1.239	7,24	3.382	17,04
PLTMG Bawean Bawean GEPP	7	0,03	11	0,04	17	0,07	20	0,12	20	0,10
PLTD Suppa Suppa DEPP	86	0,37	17	0,07	12	0,05	2	0,01	12	0,06
PLTS Cirata Cirata SPP	1	0,0047	-	-	-	-	-	-	-	-
TOTAL	23.442	100,00	24.752	100,00	22.404	100,00	17.117	100,00	19.848	100,00

Grafik 16. Penjualan Per Unit Pembangkit
Grafik 16. Penjualan Per Unit Pembangkit







KEUANGAN

FINANCE





NERACA BALANCE SHEET

Tabel 16. Neraca (dalam Jutaan Rp)
Table 16. Balance Sheet (in Million Rp)

Uraian Description	2017	2018*	2019*	2020	2021
ASET ASSET					
Aset Tidak Lancar Non-Current Assets					
Aset tetap Property, Plant and Equipment Operational (Gross)	162.364.850	131.965.057	130.956.129	129.523.845	124.151.268
Properti investasi Investment properties	1.428.426	1.463.273	1.493.375	1.540.756	1.460.599
Investasi pada entitas asosiasi/ventura bersama Investments in associate and joint ventures	5.801.036	7.445.759	7.880.576	9.744.556	12.390.846
Rekening bank dan deposito berjangka dibatasi penggunaannya Restricted cash in bank and time deposit	28.029	68.297	94.223	61.158	-
Aset pajak tangguhan - bersih Deferred tax assets - net	41.429	5.019.595	2.212.070	57.509	47.778
Piutang kepada ventura bersama Receivables from a joint venture	-	827.957	785.639	797.169	692.002
Piutang lain-lain tidak lancar Other non-current receivables	54.779	40.988	41.955	45.467	44.028
Pajak dibayar dimuka - bagian tidak lancar Prepaid taxes non-current portion	-	1.009.543	1.277.427	1.231.545	752.248
Aset tidak lancar lainnya Other non-current assets	73.123	282.990	1.170.704	872.473	164.834
Jumlah Aset Tidak Lancar Total Non-current Assets	169.791.672	148.123.459	145.912.098	143.874.478	139.703.603
Aset Lancar Current Assets					
Kas dan Setara Kas Cash and cash equivalents	2.879.830	1.688.004	1.838.858	3.511.113	7.343.968
Deposito berjangka Time Deposits	280.000	1.204.511	326.901	325.046	290.103
Rekening bank dan deposito berjangka dibatasi penggunaannya Restricted cash in bank and time deposit	-	-	-	-	206.279
Piutang Usaha Trade receivables	16.968.816	20.146.456	22.140.678	25.296.923	21.954.378
Piutang lain-lain Other receivables	219.184	356.827	362.755	182.172	187.199
Piutang kepada ventura bersama-bagian lancar Receivables from joint ventures - current portion	-	-	-	-	124.055
Persediaan - bersih Inventories - net	1.360.889	2.078.944	1.833.195	1.546.239	1.463.848
Pajak dibayar dimuka - bagian lancar Prepaid taxes	869.008	679.533	729.081	733.167	755.157
Biaya dibayar dimuka dan uang muka Prepaid expenses and advances	951.711	113.173	79.799	91.882	135.238
Jumlah Aset Lancar Total Current Assets	23.529.438	26.267.448	27.311.267	31.686.542	32.460.225
JUMLAH ASET TOTAL ASSETS	193.321.110	174.390.907	173.223.365	175.561.020	172.163.828

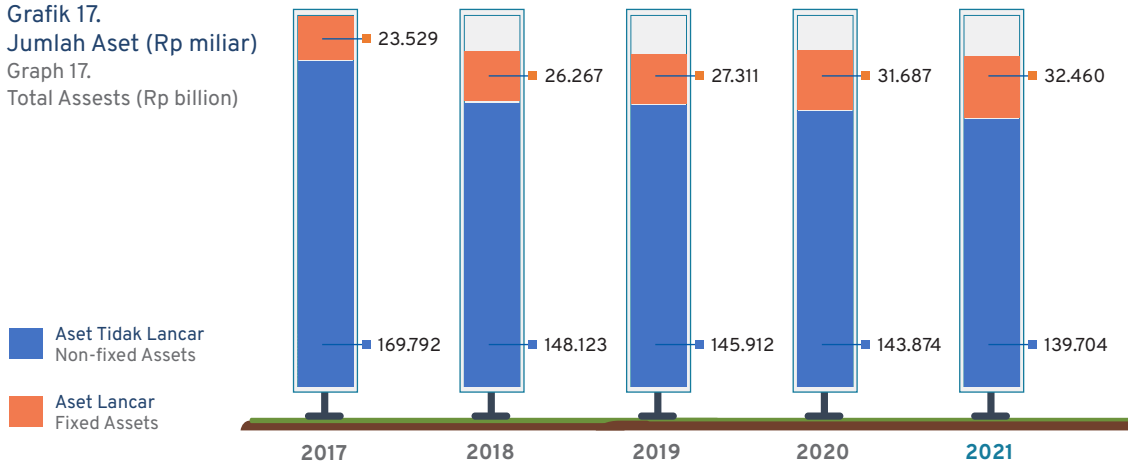
catatan (*): disajikan kembali
note (*): restated

Uraian Description	2017	2018*	2019*	2020	2021
EKUITAS DAN KEWAJIBAN EQUITY AND OBLIGATION					
Ekuitas Equity					
Modal saham ditempatkan dan disetor The Capital Stock of a Set and Paid-Up	3.000.000	3.000.000	3.000.000	3.000.000	3.000.000
Tambahan Modal Disetor Additional Paid-In Capital	2.915.205	2.915.205	2.915.205	2.915.205	2.915.205
Selisih transaksi dengan dengan kepentingan non-pengendali Difference in transaction with non-controlling interest	(62.725)	(62.725)	(62.725)	(62.725)	(62.725)
Saldo laba Retained earnings					
Tidak ditentukan Penggunaannya Unappropriated	31.279.075	33.515.140	30.754.064	31.915.518	30.064.155
Ditentukan Penggunaannya Appropriated	1.429.875	1.429.875	1.429.875	1.429.875	1.429.875
Penghasilan komprehensif lainnya Other comprehensive income	147.143.449	126.046.528	125.560.989	125.895.480	123.579.572
Ekuitas yg dpt diatribusikan kepada pemilik perusahaan Equity Attributable to Owners of The Company	185.704.879	166.844.023	163.597.408	165.093.353	160.926.082
Kepentingan non pengendali Non-controlling interests	145.103	164.664	175.687	221.598	243.183
Jumlah Ekuitas Total Equity	185.849.982	167.008.687	163.773.095	165.314.951	161.169.265
Kewajiban Jangka Panjang Non-Current Liabilities					
Kewajiban pajak tangguhan - bersih Deferred Tax Liabilities - net	1.082.267	45.275	44.538	446.616	1.072.316
Pinjaman dari Pemegang Saham - Jangka Panjang Loan from a shareholder - long term portion	-	209.272	1.500.148	2.163.361	2.183.226
Kewajiban imbalan kerja Employee benefits liabilities	2.355.802	2.265.183	2.680.414	2.647.016	2.695.320
Kewajiban sewa Lease Liabilities	-	-	-	34.246	26.274
Jumlah Kewajiban Jangka Panjang Total Non-Current Liabilities	3.438.069	2.519.730	4.225.100	5.291.239	5.977.136
Kewajiban Jangka Pendek Current Liabilities					
Utang usaha Taxes Payable	2.737.497	3.494.980	3.431.194	3.048.614	3.261.362
Utang lain-lain Other payables	586.243	467.180	870.744	685.538	597.040
Utang pajak Taxes Payable	167.849	289.423	182.166	174.208	127.363
Biaya masih harus dibayar Accrued expenses	385.361	21.203	75.126	89.391	61.761
Kewajiban imbalan kerja yang jatuh tempo dalam satu tahun Short-term employee benefits liabilities	156.109	589.704	497.102	588.940	702.192
Pinjaman dari Pemegang Saham - Jangka Pendek Loan from a shareholder - short-term portion	-	-	168.838	334.725	233.979
Kewajiban sewa Lease Liabilities	-	-	-	33.414	33.730
Jumlah Kewajiban Jangka Pendek Total Current Liabilities	4.033.059	4.862.490	5.225.170	4.954.830	5.017.427
JUMLAH MODAL & KEWAJIBAN TOTAL EQUITY & LIABILITIES	193.321.110	174.390.907	173.223.365	175.561.020	172.163.828

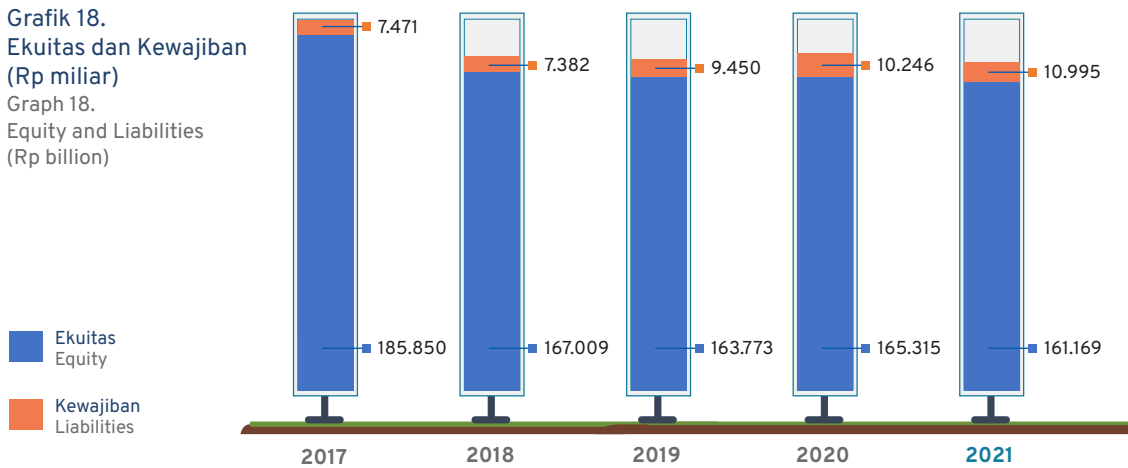




Grafik 17.
Jumlah Aset (Rp miliar)
Graph 17.
Total Assests (Rp billion)



Grafik 18.
Ekuitas dan Kewajiban
(Rp miliar)
Graph 18.
Equity and Liabilities
(Rp billion)



LABA RUGI

INCOME STATEMENT

Tabel 17. Laba Rugi (dalam Jutaan Rp)
Table 17. Income Statement (in Million Rp)

Uraian Description	2017	2018	2019*	2020	2021
PENDAPATAN USAHA REVENUES					
Pendapatan Penjualan Tenaga Listrik Sale of Electricity	26.378.159	34.757.316	33.681.317	25.476.470	24.541.378
Pendapatan Usaha Lainnya Other operating revenues	5.025.628	6.063.710	6.076.633	4.957.706	4.966.756
Jumlah Pendapatan Usaha Total Revenues	31.403.787	40.821.026	39.757.950	30.434.176	29.508.134
BEBAN USAHA OPERATING EXPENSES					
Bahan Bakar dan Pelumas Fuel and lubricants	16.696.543	22.323.942	18.830.297	11.538.786	14.672.806
Pemeliharaan Maintenance	3.898.063	4.761.927	4.798.897	4.180.398	4.126.561
Penyusutan Depreciation	4.352.735	3.938.110	3.699.338	3.277.413	3.253.144
Kepegawaian Personnel	1.669.122	1.606.814	1.701.177	1.682.988	1.790.453
Pembelian tenaga listrik Electricity Purchase	-	-	332.016	325.288	333.617
Lain-lain Others	1.330.376	1.703.388	1.701.167	903.679	924.562
Jumlah Beban Usaha Total Operating Expenses	27.946.839	34.334.181	31.062.892	21.908.552	25.101.143
LABA USAHA OPERATING INCOME					
Penghasilan keuangan Financial income	50.219	65.446	115.096	126.658	186.603
Keuntungan (kerugian) kurs mata uang asing -bersih Gain (loss) on foreign exchange - net	7.597	37.301	(46.799)	(8.913)	3.924
Bagian laba bersih entitas asosiasi dan ventura bersama Share in net income of associate and joint ventures	739.782	1.064.508	891.393	1.952.507	2.868.311
Beban keuangan Financial cost	-	-	-	-	-
Lain-lain bersih Others - net	387.332	6.584	(41.410)	(355.769)	(273.789)
Pos keuangan dan lain-lain - bersih Financial post and others - net	1.184.930	1.173.839	918.280	1.714.483	2.785.049
LABA SEBELUM PAJAK INCOME BEFORE TAX	4.641.878	7.660.684	9.613.338	10.240.107	7.192.040
Manfaat/(Beban Pajak) Tax Expense	(960.206)	(1.743.252)	(2.950.016)	(2.536.295)	(1.371.852)





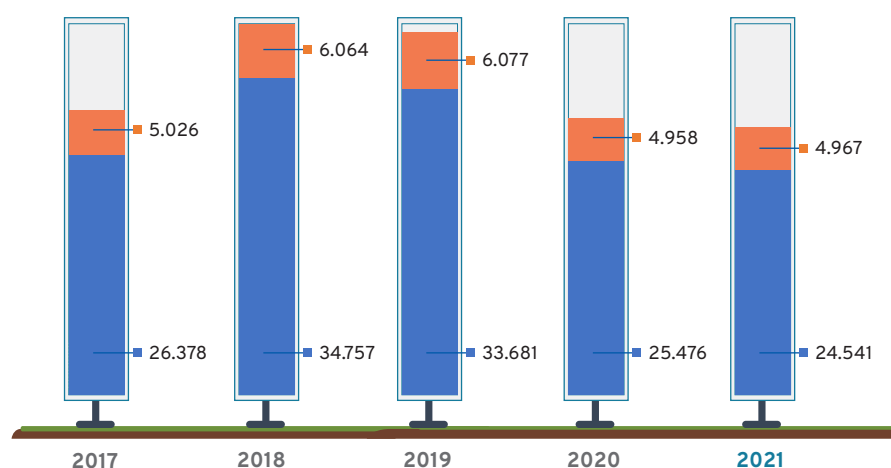
Uraian Description	2017	2018	2019*	2020	2021
LABA TAHUN BERJALAN INCOME FOR THE YEAR	3.681.672	5.917.432	6.663.322	7.703.812	5.820.188
Penghasilan (Beban) Komprehensif Lain Tahun Berjalan setelah Pajak Other Comprehensive Income (Expense) for the Year after Tax	73.726	(21.088.224)	(490.848)	336.930	(2.301.389)
Jumlah Penghasilan Komprehensif Tahun Berjalan Total Comprehensive Income for the Year	3.755.398	(15.170.792)	6.172.474	8.040.742	3.518.799
Laba tahun berjalan dan jumlah laba komprehensif diatribusikan kepada: Total Comprehensive Income for the Year Attributable to:					
Pemilik entitas induk Owners of the Parent	3.742.804	(15.190.703)	6.159.853	7.995.887	3.494.125
Kepentingan non-pengendali Non-Controlling Interests	12.594	19.911	12.621	44.855	24.674
Jumlah Total	3.755.398	(15.170.792)	6.172.474	8.040.742	3.518.799
Laba Per Saham Dasar (Dalam Rupiah Penuh) Basic Earnings Per Share (Full Amount)	611	984	1.108	1.284	970

Grafik 19.
Pendapatan Usaha
(Rp miliar)

Graph 19.
Revenues (Rp billion)

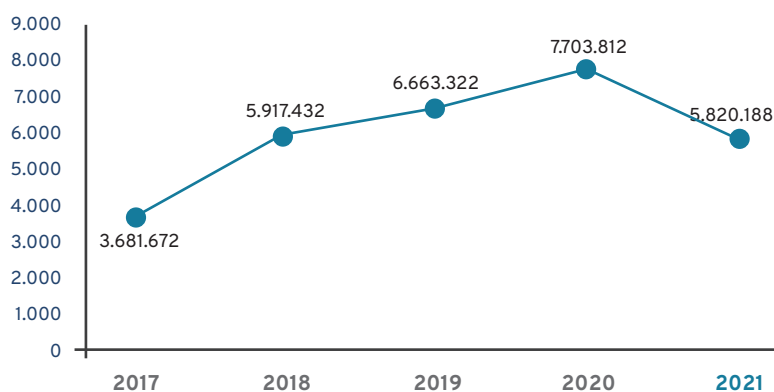
■ Pendapatan Usaha
Lainnya
Other operating
revenues

■ Pendapatan Tenaga
Listrik
Sale of Electricity



Grafik 20.
Laba Tahun Berjalan
(Rp juta)

Graph 20.
Income for the Year
(Rp million)









SUMBER DAYA MANUSIA

HUMAN RESOURCES



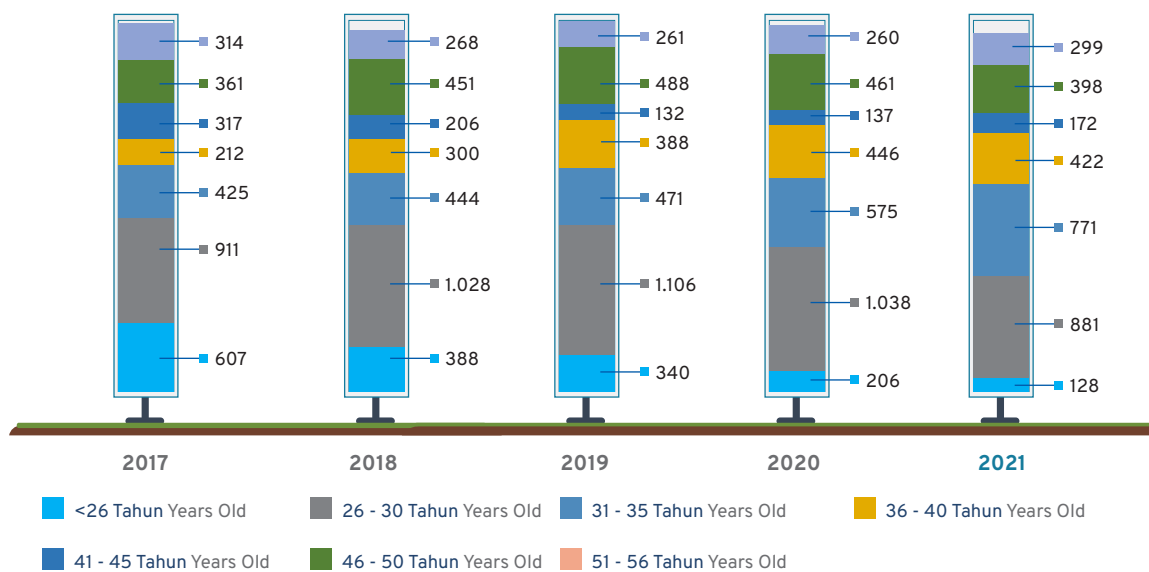


SUMBER DAYA MANUSIA HUMAN RESOURCES

Tabel 18. Jumlah Pegawai Berdasarkan Usia
Table 18. Number of Employee by Age

Usia Age	2017		2018		2019		2020		2021	
<26 Tahun Years Old	607	19%	388	13%	340	11%	206	7%	128	4%
26 - 30 Tahun Years Old	911	29%	1028	33%	1.106	35%	1.038	33%	881	29%
31 - 35 Tahun Years Old	425	14%	444	14%	471	15%	575	18%	771	25%
36 - 40 Tahun Years Old	212	7%	300	10%	388	12%	446	14%	422	14%
41 - 45 Tahun Years Old	317	10%	206	7%	132	4%	137	4%	172	6%
46 - 50 Tahun Years Old	361	11%	451	15%	488	15%	461	15%	398	13%
51 - 56 Tahun Years Old	314	10%	268	9%	261	8%	260	8%	299	10%
TOTAL	3147	100%	3085	100%	3186	100%	3123	100%	3071	100%

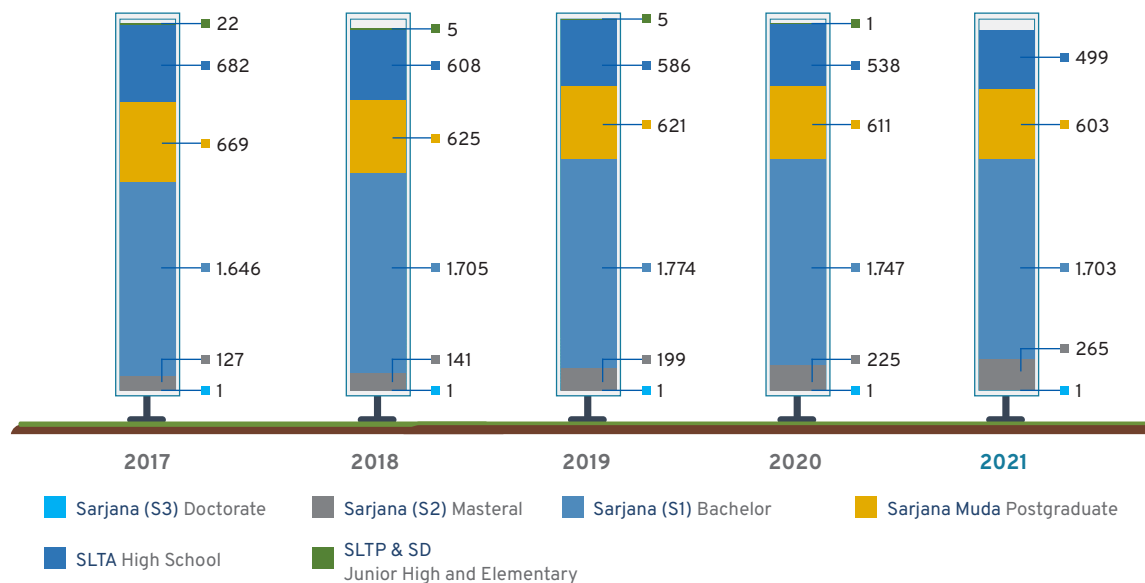
Grafik 21. Jumlah Pegawai Berdasarkan Usia
Graph 21. Number of Employee by Age



Tabel 19. Jumlah Pegawai Berdasarkan Pendidikan
Table 19. Number of Employee by Education

Pendidikan Education	2017		2018		2019		2020		2021	
Sarjana (S3) Doctorate	1	0,03%	1	0,03%	1	0,03%	1	0,03%	1	0,03%
Sarjana (S2) Masteral	127	4,04%	141	4,57%	199	6,25%	225	7,20%	265	8,63%
Sarjana (S1) Bachelor	1646	52,30%	1705	55,27%	1774	55,68%	1747	55,94%	1703	55,45%
Sarjana Muda Postgraduate	669	21,26%	625	20,26%	621	19,49%	611	19,56%	603	19,64%
SLTA High School	682	21,67%	608	19,71%	586	18,39%	538	17,23%	499	16,25%
SLTP & SD Junior High and Elementary	22	0,70%	5	0,16%	5	0,16%	1	0,03%	0	0,00%
TOTAL	3147	100,00%	3085	100,00%	3186	100,00%	3123	100,00%	3071	100,00%

Grafik 22. Jumlah Pegawai Berdasarkan Pendidikan
Graph 22. Number of Employee by Education

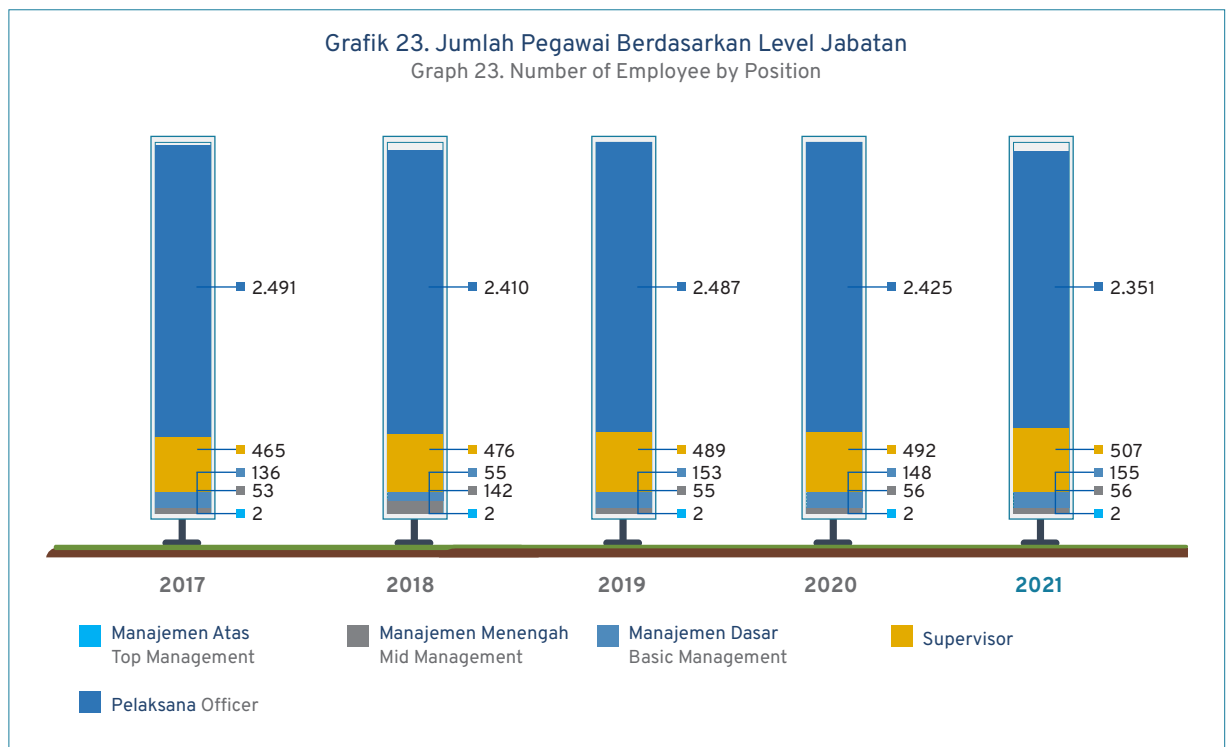




Tabel 20. Jumlah Pegawai Berdasarkan Jenjang Jabatan
Table 20. Number of Employee by Position

Level Jabatan Position	2017		2018		2019		2020		2021	
Manajemen Atas Top Management	2	0,06%	2	0,06%	2	0,06%	2	0,06%	2	0,07%
Manajemen Menengah Mid Management	53	1,68%	142	4,60%	55	1,73%	56	1,79%	56	1,82%
Manajemen Dasar Basic Management	136	4,32%	55	1,78%	153	4,80%	148	4,74%	155	5,05%
Supervisor	465	14,78%	476	15,43%	489	15,35%	492	15,75%	507	16,51%
Pelaksana Officer	2491	79,15%	2410	78,12%	2487	78,06%	2425	77,65%	2351	76,55%
TOTAL	3147	100,00%	3085	100,00%	3186	100,00%	3123	100,00%	3071	100,00%

Grafik 23. Jumlah Pegawai Berdasarkan Level Jabatan
Graph 23. Number of Employee by Position

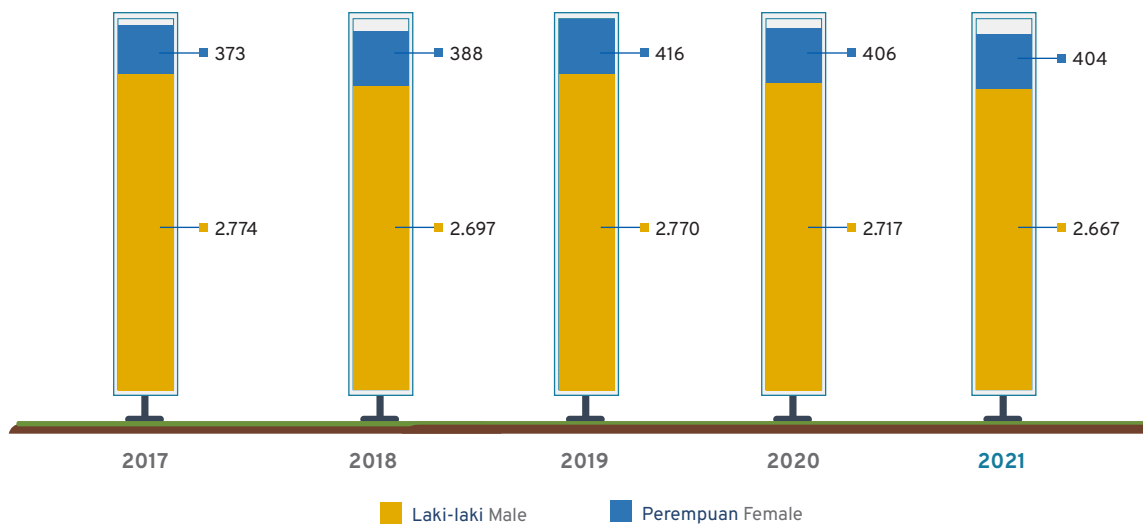




Tabel 21. Jumlah Pegawai Berdasarkan Jenis Kelamin
Table 21. Number of Employee by Gender

Jenis Kelamin Gender	2017		2018		2019		2020		2021	
Laki-laki Male	2774	88,00%	2697	87,42%	2770	86,94%	2717	87,00%	2667	86,84%
Perempuan Female	373	12,00%	388	12,58%	416	13,06%	406	13,00%	404	13,16%
TOTAL	3147	100%	3085	100%	3186	100%	3123	100%	3071	100%

Grafik 24. Jumlah Pegawai Berdasarkan Jenis Kelamin
Graph 24. Number of Employee by Gender







PENJELASAN ISTILAH DAN SINGKATAN

TERMS AND ABBREVIATIONS





PENJELASAN ISTILAH DAN SINGKATAN TERMS AND ABBREVIATIONS

1. CF (*Capacity Factor*), adalah perbandingan antara jumlah produksi listrik selama periode operasi terhadap jumlah produksi terpasang selama satu periode tertentu (1 tahun), yang dinyatakan dalam persen.
2. Daya Terpasang, adalah kapasitas daya suatu unit pembangkit sebagaimana tertera pada papan nama (*name plate*) dari generator atau mesin penggerak utama (*prime mover*), dipilih mana yang lebih kecil. Khusus untuk PLTG, kapasitas terpasangnya adalah sebagaimana tertera pada papan nama berdasarkan *base-load*, bukan berdasarkan *peak-load*.
3. DMN (Daya Mampu Netto), adalah besarnya daya *output* suatu unit pembangkit yang sudah dikurangi dengan pemakaian sendiri unit pembangkit tersebut.
4. EAF (*Equivalent Availability Factor*), adalah rasio antara jumlah waktu suatu unit pembangkit listrik siap beroperasi terhadap jumlah jam dalam satu periode tertentu, yang dinyatakan dalam persen.
5. EFOR (*Equivalent Forced Outage Rate*), adalah jumlah jam unit pembangkit dikeluarkan dari sistem (keluar paksa) dibagi jumlah jam unit pembangkit dikeluarkan dari sistem ditambah jumlah jam unit pembangkit beroperasi, yang dinyatakan dalam persen.
6. PS (Pemakaian Sendiri), adalah energi listrik yang digunakan sendiri oleh suatu pusat pembangkit listrik untuk menggerakkan peralatan bantu, penerangan sentral dan lain-lain.
7. ST (Susut Trafo), adalah susut energi atau energi yang hilang di dalam suatu trafo (bila trafo dialiri arus listrik maka akan ada energi yang hilang dalam gulungan, inti dan struktur sekitarnya).
8. SFC (*Specific Fuel Consumption*), adalah jumlah konsumsi bahan bakar spesifik dari suatu pembangkit listrik untuk menghasilkan energi listrik sebesar 1 kWh.
9. Tara Kalor Netto, adalah jumlah energi bahan bakar yang diperlukan suatu pembangkit untuk menghasilkan energi listrik sebesar 1 kWh netto, yang dinyatakan dalam satuan kilo kalori/kWh.
10. SOF (*Scheduled Outage Factor*), adalah rasio dari jumlah jam unit pembangkit listrik keluar rencana (*planned outage*) terhadap jumlah jam dalam satu periode. Besaran ini menunjukkan prosentase ketidaksiapan unit pembangkit akibat pelaksanaan pemeliharaan, inspeksi dan *overhaul* pada suatu periode tertentu, dinyatakan dalam persen.
1. CF (*Capacity Factor*), is the ratio between the amount of electricity production during the period of operation over the installed production amount over a specified period (1 year), which is stated in percent.
2. Installed Capacity, power capacity of a unit generator as stated on the name plate from the generator or prime mover, whichever is smaller. Especially for GTPP, the installed capacity is as stated in nameplate based on base-load, not based on peak-load.
3. Net Dependable Capacity, is the magnitude of the power output of a generating unit that has been reduced with the use of its own generating units.
4. EAF (*Equivalent Availability Factor*), is the ratio between the amount of time a unit is ready to operate the power plant over the number of hours given period, stated in percent.
5. EFOR (*Equivalent Forced Outage Rate*), is the number of hours a generating unit removed from the system (forced exit) divided by the number of hours the generating unit removed from the system plus the number of hours of generating unit operation, stated in percent.
6. Self Consumption, is the electrical energy that is self used by a central power plant to power auxiliary equipment, central lighting and others.
7. Energy Losses, is the shrinkage energy or energy loss in a transformer (when transformer electricified it will lost some energy in the windings, core and surrounding structure).
8. SFC (*Specific Fuel Consumption*), is the amount of the specific fuel consumption of a power plant to generate 1 kWh of electrical energy.
9. Net Plant Heat Rate, is the amount of fuel energy required for a power plant to produce 1 kWh net power, started in kilo calories/kWh.
10. SOF (*Scheduled Outage Factor*), is the ratio of the number of hours of electricity generating units out plan (*planned outage*) over the number of hours in the period of time. This measurement shows the percentage of unpreparedness generating units as a result from the implementation of maintenance, inspection and overhaul in a given period, stated in percent.

PLTU	: Pembangkit Listrik Tenaga Uap	CFPP	: Coal Fired Power Plant
PLTG	: Pembangkit Listrik Tenaga Gas	GTPP	: Gas Turbine Power Plant
PLTGU	: Pembangkit Listrik Tenaga Gas & Uap	CCPP	: Combined Cycle Power Plant
PLTD	: Pembangkit Listrik Tenaga Diesel	DEPP	: Diesel Engine Power Plant
PLTA	: Pembangkit Listrik Tenaga Air	HPP	: Hydro Power Plant
PLTS	: Pembangkit Listrik Tenaga Surya	SPP	: Solar Cell Power Plant
MW	: megawatt	MW	: megawatt
KWh	: kilowatt-hour	KWh	: kilowatt-hour
MWh	: megawatt-hour	MWh	: megawatt-hour
GWh	: gigawatt-hour	GWh	: gigawatt-hour
Kcal	: kilo calorie	Kcal	: kilo calorie
MSCF	: 103 Standard Cubic Foot (M=103)	MSCF	: 103 Standard Cubic Foot (M=103)
MMSCF	: 106 Standard Cubic Foot (MM=106)	MMSCF	: 106 Standard Cubic Foot (MM=106)
MMBTU	: 106 British Thermal Unit (MM=106)	MMBTU	: 106 British Thermal Unit (MM=106)
HSD	: High Speed Diesel Oil	HSD	: High Speed Diesel Oil
IDO	: Intermediate Diesel Oil	IDO	: Intermediate Diesel Oil
MFO	: Marine Fuel Oil	MFO	: Marine Fuel Oil
NG	: Natural Gas	NG	: Natural Gas
BBG	: Bahan Bakar Gas	GF	: Gas Fuel
BBM	: Bahan Bakar Minyak	FO	: Fuel Oil





20¹⁷/₂₁ STATISTIK PERUSAHAAN CORPORATE STATISTIC



PT PEMBANGKITAN JAWA-BALI (PJB)

Jl. Ketintang Baru No. 11
Surabaya (60231)
Jawa Timur, Indonesia

☎ +62 31 8283 180
☎ +62 31 8283 183
✉ info@ptpjb.com

www.ptpjb.com