

#Light that Brings
Goodness

OVERVIEW OF PT CIKARANG LISTRINDO TBK

2026



CIKARANG LISTRINDO
ENERGY

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1. Legal Aspect

National Vital Object (Obvitnas)

Tentang PLTGU Cikarang Listrindo Tbk
Penetapan Obyek Vital Nasional Di Sektor Energi dan Sumber Daya Mineral

Business Permits for The Provision of Electrical Power for Public Use (IUPTLU)

Business operational license across five industrial estates :

1. Jababeka Industrial Estate
2. MM2100 Industrial Estate
3. Lippo Cikarang Industrial Estate
4. East Jakarta Industrial Park
5. Hyundai Inti Development Industrial Estate

**PT Cikarang Listrindo Tbk started its
operation on December 1st, 1993**

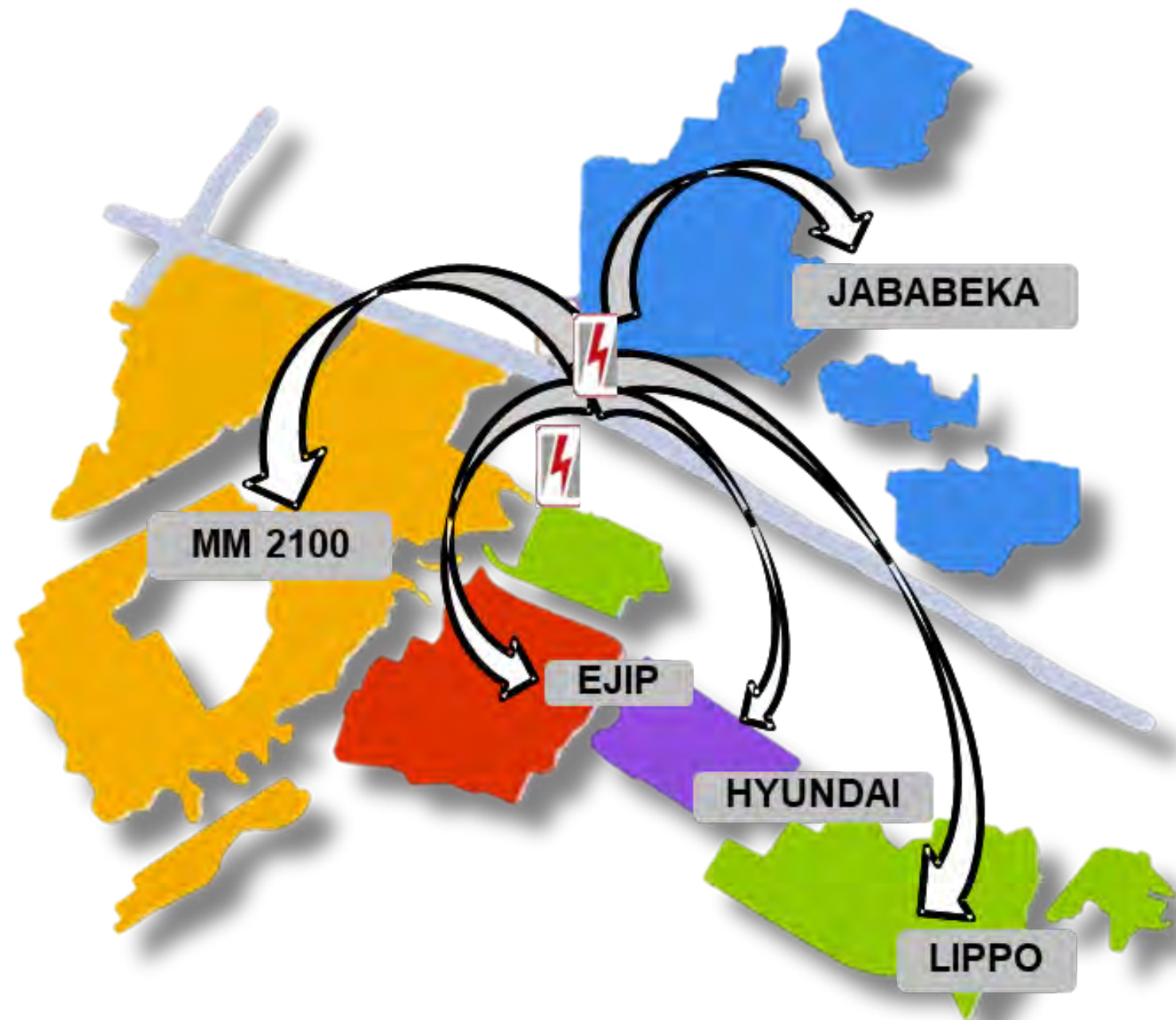


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2. Marketing Area



Cikarang Listrindo Tbk operates through a combined-cycle system and interconnected with Java-Bali system.

Starting in 1993, Cikarang Listrindo Tbk built its first power plant in Jababeka Industrial Estate, located about 45 km southeast of Jakarta. Since then it has set the pace for industrial development by providing its customers with high quality supply of electricity.

PT Cikarang Listrindo Tbk serves more than 3,000 customers in 5 Industrial Estates.

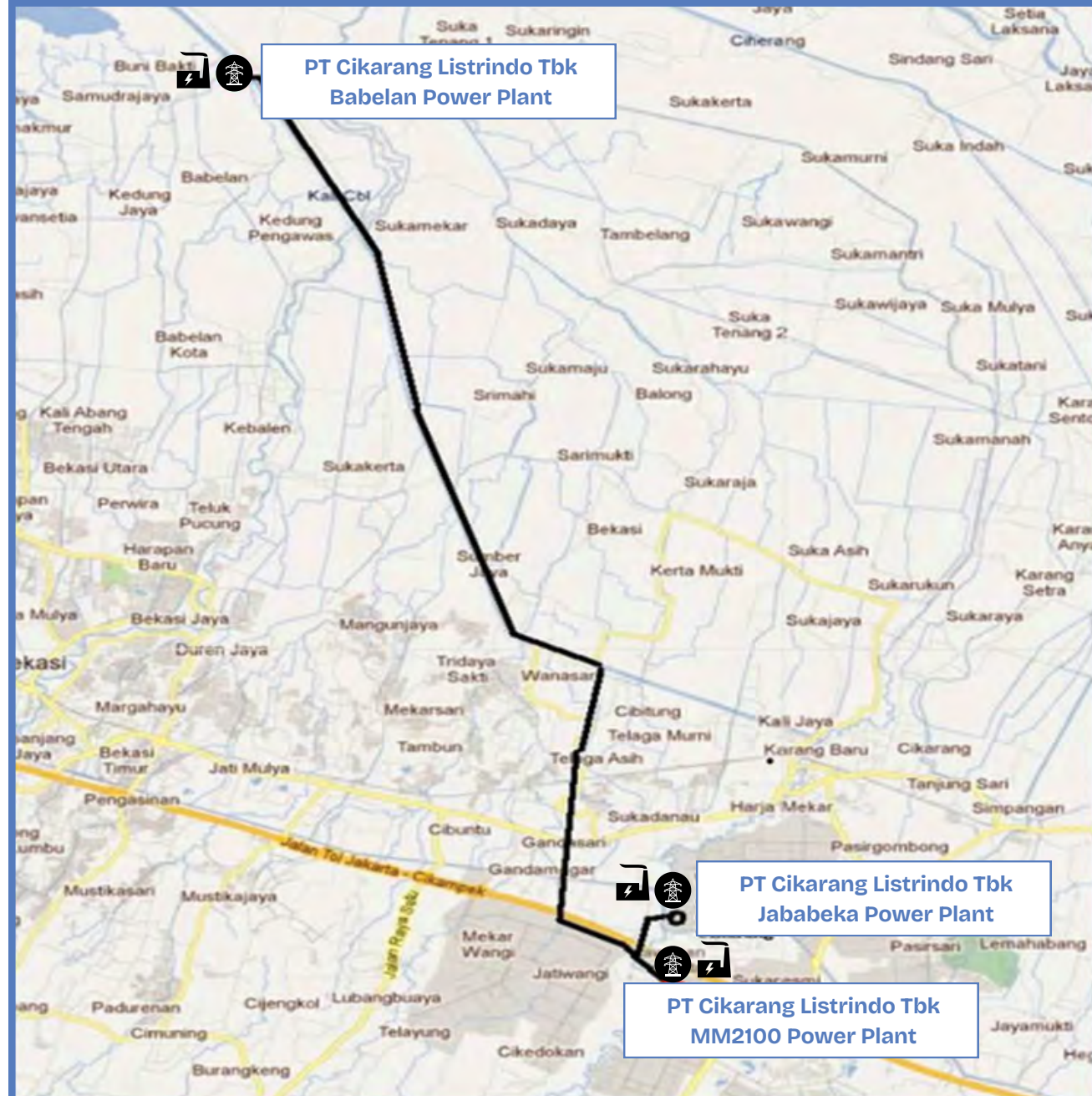


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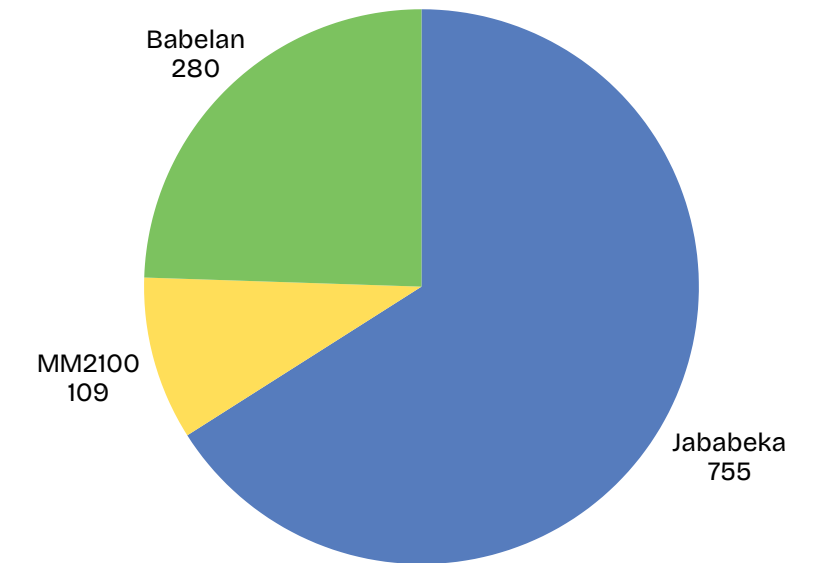
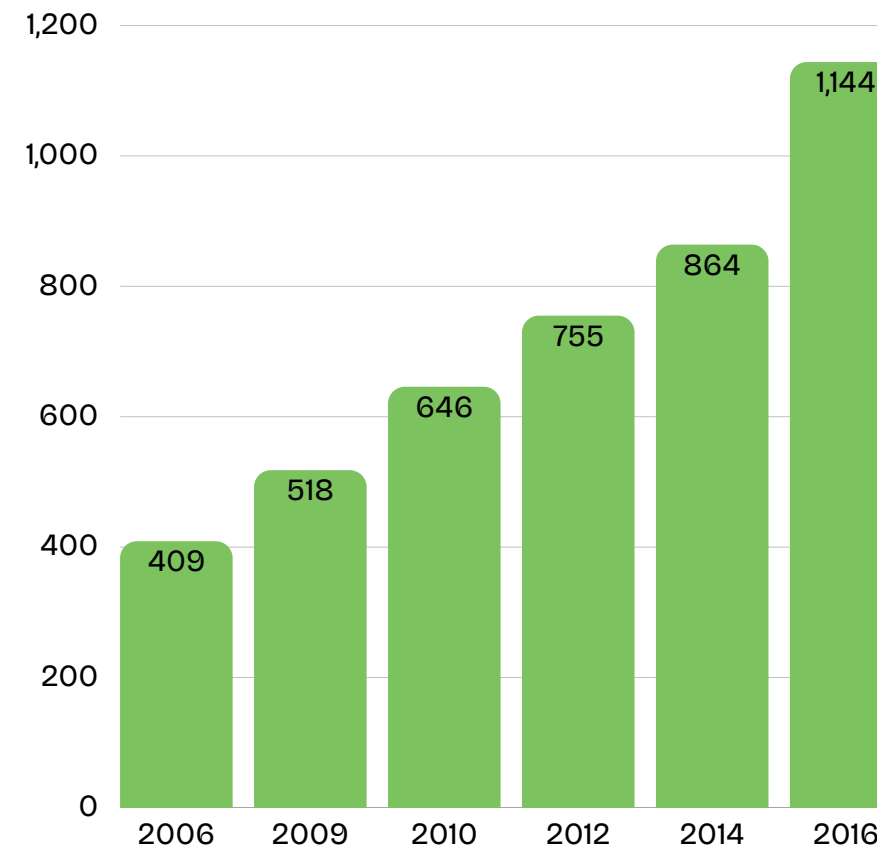


3. Electricity Generation & Capacity Growth

150 kV Overhead Transmission Line Route



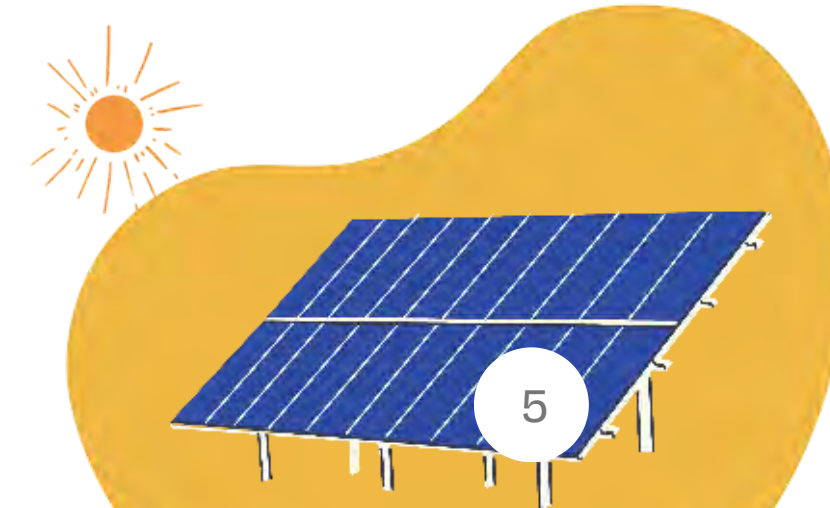
Generation Capacity Growth



Total Capacity : 1144 MW

Cikarang Listrindo have three (3) power plants with two (2) different fuels, such as natural gas for CCGPP Jababeka and GFPP MM2100 and coal for CFPP Babelan.

Cikarang Listrindo has increased the capacity of power plant to meet the demand from customers and PLN.



4. Supply Reliability



Power Plant Supply Reliability

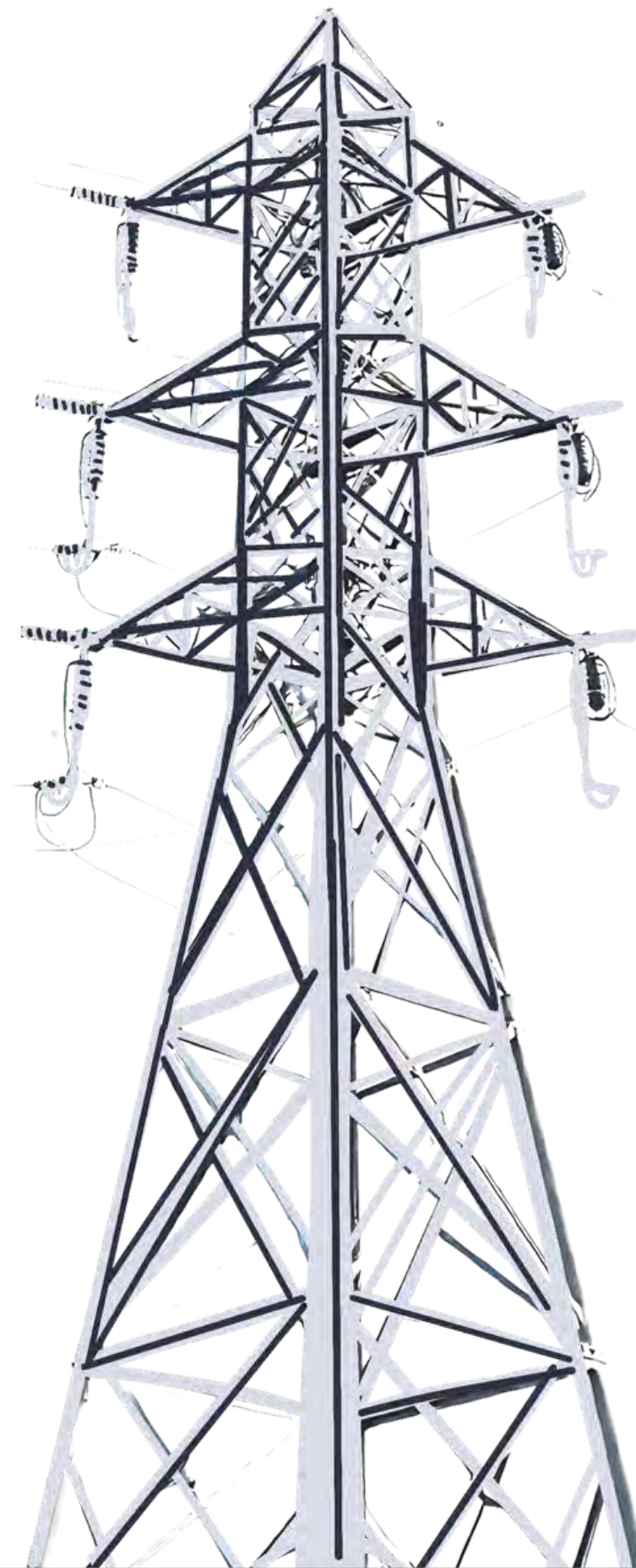
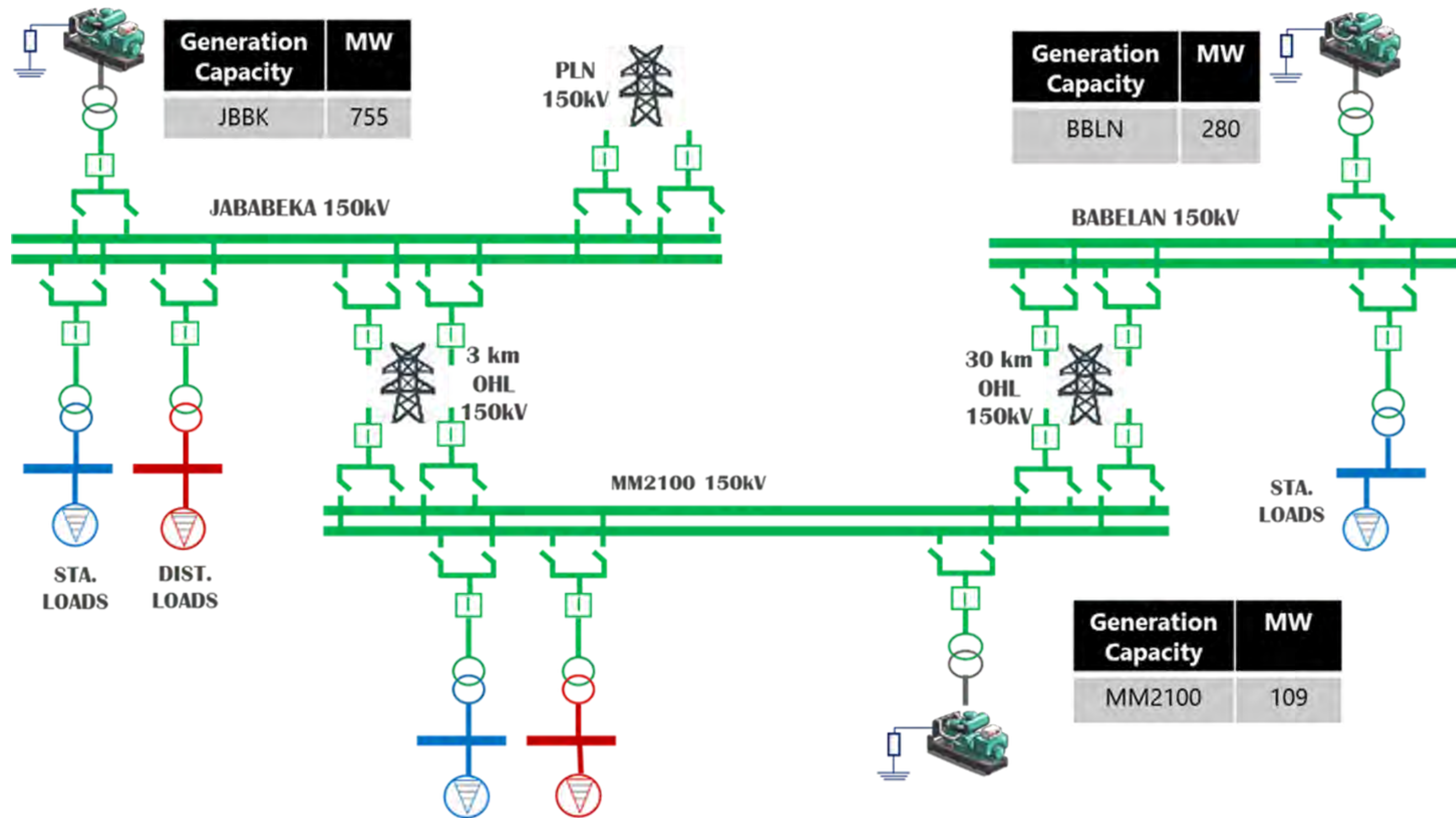
- ▶ Three (3) locations of power plants in Jababeka-Cikarang, MM2100-Cibitung and Babelan-North Bekasi
- ▶ Well known generation manufacturers:
 - ▶ Gas Turbine Generator (GTG) Frame-6 and Frame-9 by General Electric (GE)
 - ▶ Steam Turbine Generator (STG) by Mitsubishi and Siemens
 - ▶ Medium size generator units for flexible operation and higher reliability
 - ▶ Coal Plant Generation by Siemens
 - ▶ CFB Boiler by Valmet
- ▶ Two (2) main substations in Jababeka & MM2100
- ▶ Advanced control technology and monitoring system

Fuel Supply Reliability

- ▶ Dual fuel (gas & HSD oil)
- ▶ Two gas sources: Pertamina and PGN
- ▶ Two coal sources: Adaro Energy and AGM
- ▶ Gas delivery system :
 - ▶ 18 inch pipe line connected to Tegal Gede gas station
 - ▶ 12 inch pipe line connected to KP-72 (in MM2100 Plant)
 - ▶ 14 inch pipe line connected to PGN
- ▶ Back-up fuel : HSD oil with a capacity of 2 x 2.000.000 liters
- ▶ Three utilize gas compressors to maintain gas pressure



5. Electricity Network



6. Transmission & Distribution Network



150 kV Transmission System

- Two (2) lines of 150kV Over Head Line (OHL) to PLN at GI Cikarang
- Two (2) lines of 150kV OHL connecting Jababeka – MM2100 and two (2) lines of 150kV connecting MM2100 - Babelan
- Double bus 150kV switchyard at Jababeka, MM2100 and Babelan

Distribution Network System

- Open Ring network topology at 20kV network system, each substation supplied by one (1) main feeder and one (1) express/back-up feeder.
- SCADA to monitor & remote operation (some substation only) of 20kV feeder load.
- AMR to monitor MV & LV customer load.
- GIS as design and asset management: feeders, cable routes, transformers, cable bridge, substation, distribution panels, etc.

150 kV Transmission System

- Two (2) 150 kV Main-substations located at Jababeka and MM2100.
- Five (5) Switchgear Rooms 20kV at Jababeka and one (1) main substation at MM2100 to provide main feeder and backup feeder.
- Main Distribution Transformers 150/20kV, Capacity 60/80MVA ONAN/ONAF: ten (10) units at Jababeka and 6 (Six) units at MM2100.
- Back-up Distribution Transformers 150/20kV, Capacity 60/80MVA ONAN/ONAF: two (2) units at Jababeka and two (2) units at MM2100.
- One spare-unit Distribution Transformer 150/20kV, Capacity 60/80MVA ONAN/ONAF
- Mobile generator set, 400V, 250kVA & 150kVA, to provide electricity back-up to customers
- Mobile MV/LV substation (Unit GarduBergerak / UGB), 20kV to 400V, 630kVA, to provide emergency electricity back-up
- Mobile MV cable, 550 meters to provide emergency electricity back-up
- Digital Meter Reading which routine calibrated by Metrology Department.
- International standard distribution network material.



7. Maintenance

Power Plant Maintenance

Original Equipment Manufacturer (OEM) Procedure

Enterprise Asset Management System (EAMS - Maximo)

Long term contract with General Electric for Combine Cycle

Maintenance contract with Siemens and Valmet for Coal Plant

Maintenance of Distribution Network

Enterprise Asset Management System (EAMS - Maximo)

Predictive Maintenance : Infra Red Test, Partial Discharge, Transformer Oil Analysis, MV & LV Cables Diagnostic / Assessment

Preventive Maintenance to MV-Substation, MV Panels, MV/LV Transformers, LV Panels, Building, Routes, Cable Bridge, etc.

Periodic inspection to all asset including building & cable route

Any emergency call is handled instantly and professionally

Supported by experienced staff and up to date equipments



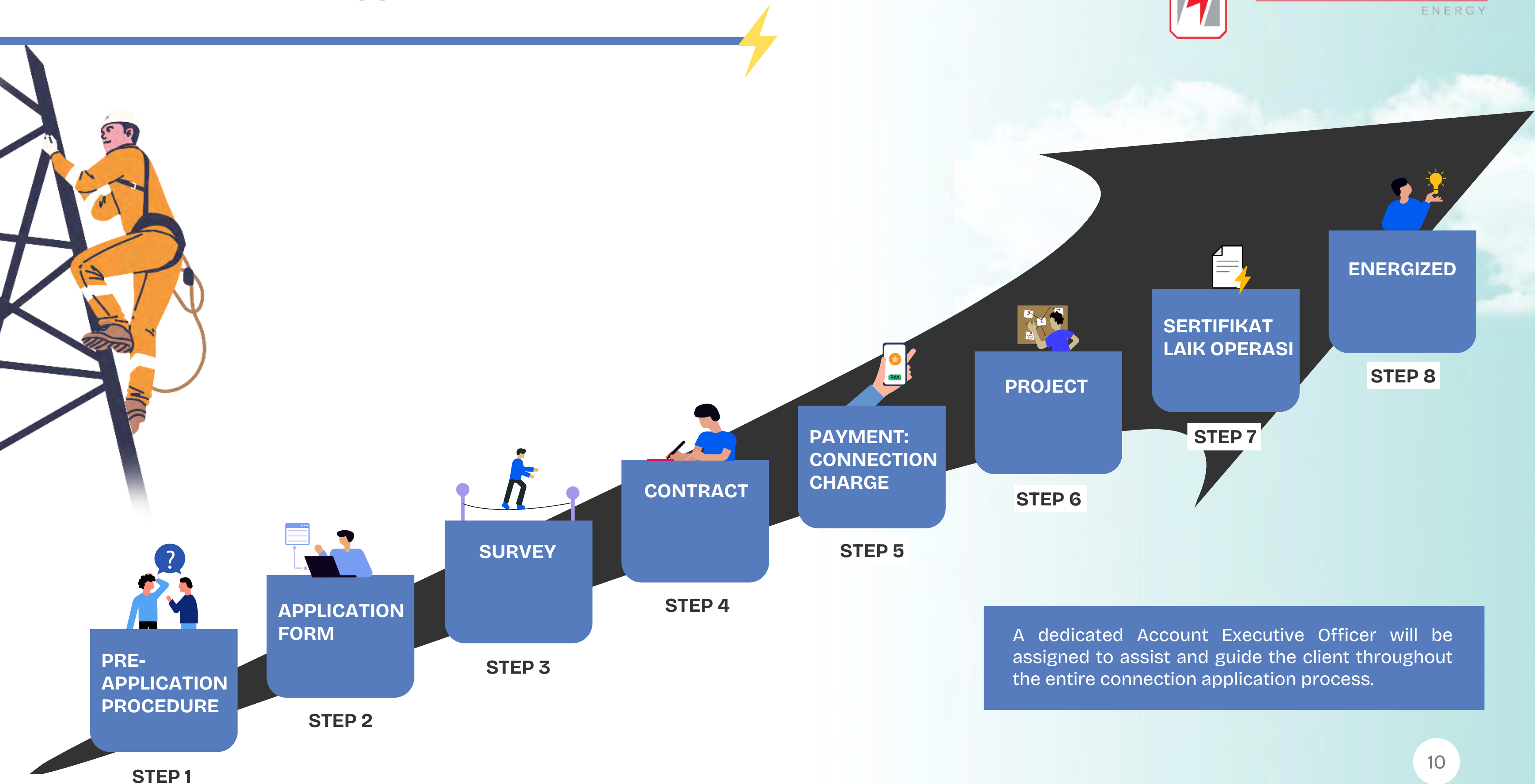
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8. Connection Application Flow



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9. Solar PV



2018

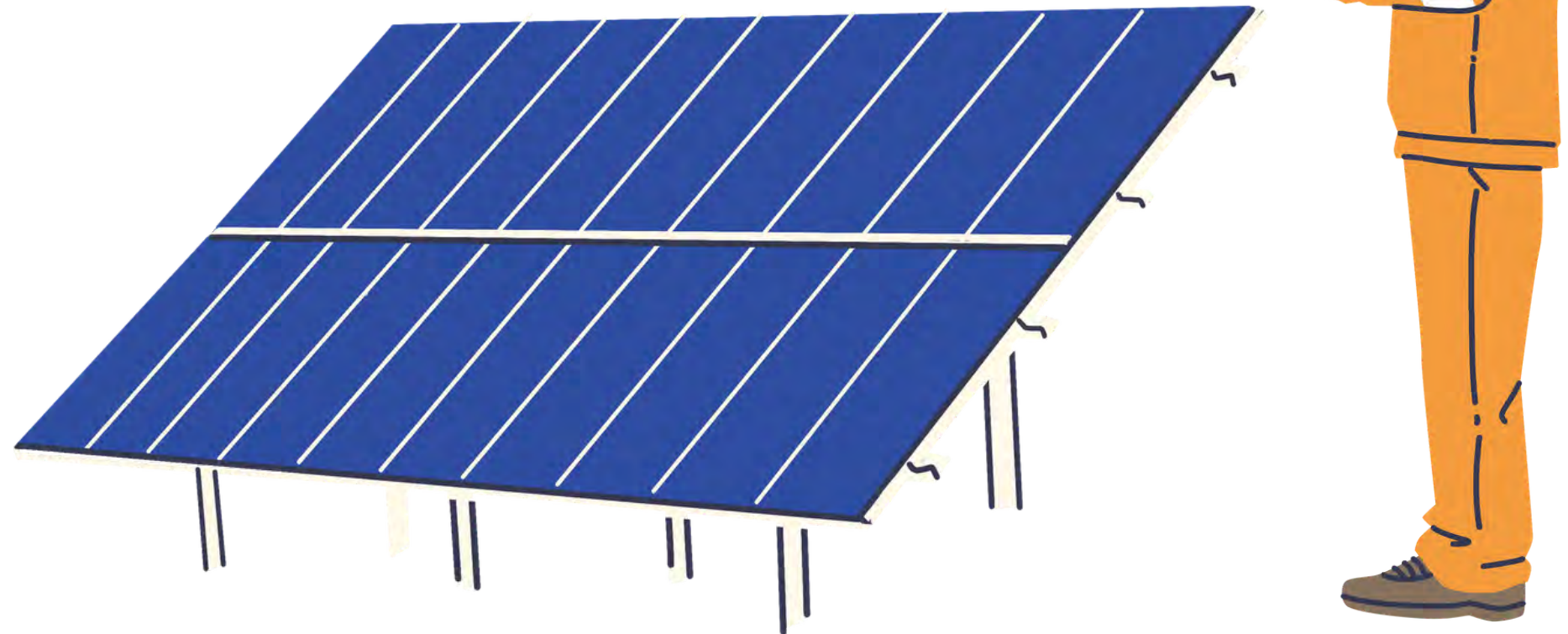
Installed 52.5 kWp solar power at Jababeka

2019

Started providing customers with solar power as a renewable energy source

Q126

Expanded solar power capacity to 45.97 MWp, with another 11.98 MWp in progress



10. PV Supply Regulation



The maximum capacity of the PV system (kWp) is determined by the available area, the customer's load profile, and the feasibility study.



The duration of the Solar PV contract is 15 years. All insurance obligations are the responsibility of each asset owner.



The connection charge is Rp 850.000/kWp. The tariff for PV supply is c\$ 9/kWh and is applicable for 15 years.



O&M is conducted by PT CL. The customer must provide a water source for maintenance (14 liters/kWp).
Cleaning times are as follows:

- ▶ Afternoon (03.00 – 05.30 PM), or
- ▶ Morning (06.30 – 09.00 AM)

Based on considerations of electricity supply network security and reliability, PT CL will carry out efforts to limit energy output or turn off PV Supply if necessary



The customer must provide a structural assessment by a third party that confirms the rooftop's ability to support an additional load of approximately 15 kg/m².



11. Co-firing Biomass



The Company's commitment to environmental aspects is also demonstrated by obtaining an Assurance Statement in accordance with GHG emissions across all PTCL work areas, in compliance with ISO 14064-1:2008.

The assurance statement has been verified and certified by the international certification body, Transpacific Certifications Limited (TCL)*

2021

Installed biomass handling system in PLTU Babelan, allowing biomass utilization for up to 28 MW of capacity generation

Q126

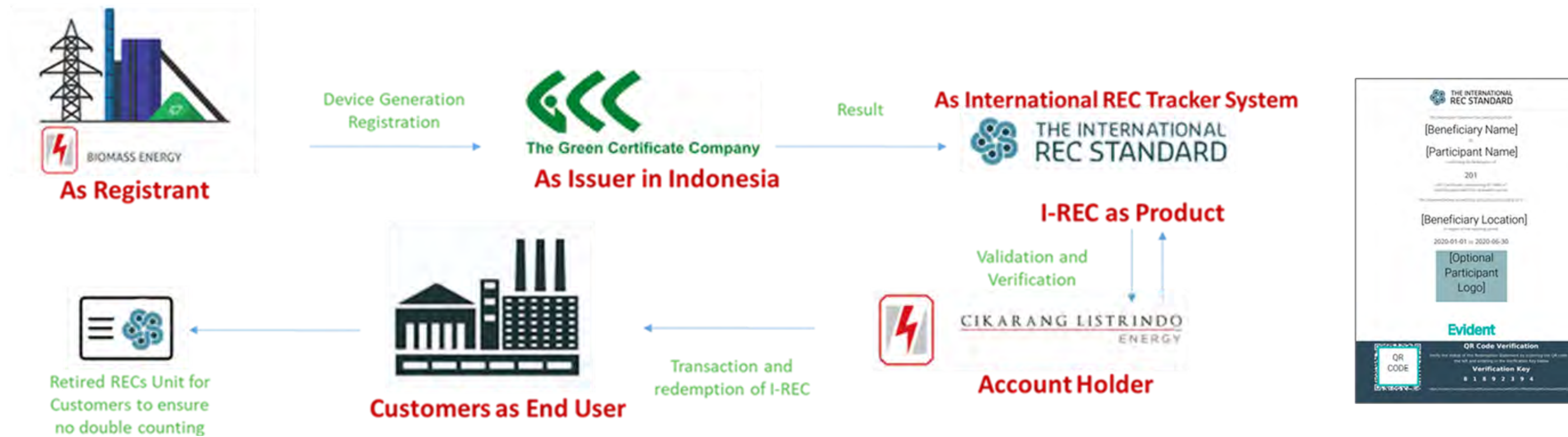
Expanded biomass co-firing capacity by up 70 MW of capacity generation. The renewable energy (biomass) generation has successfully reached a total output of 65.5 MWh, since its initial implementation .

- ✓ To diversify its generation mix, in 2017, PTCL successfully inaugurated a Coal-Fired Power Plant using Circulating Fluidized Bed (CFB) boiler technology.
The CFB boiler supplied by Valmet, a Finnish company, enables us to utilize various solid fuels, including biomass, and reduce emissions through the relatively low combustion temperature of CFB (limiting NOx), combined with limestone injection to reduce sulfur (SO₂). At the same time, this CFB boiler technology also has the capability to burn biomass.
- ✓ In 2021, we replaced coal with 18,645 tons of biomass, equivalent to 30,220 MWh of power (2020: 1,403 tons of biomass, equivalent to 2,271 MWh of power). As part of the Company's commitment to climate change, we aim to reduce greenhouse gas (GHG) emissions by 20% by 2030.*
- ✓ The company successfully implemented a biomass handling system in Q3 2021. Palm Kernel Shells and Wood Chips will be used as raw materials in this initial phase. Other biomass options will be considered as alternative sources in the future.



12. Renewable Energy Certificate (REC)

RECs PTCL's



PT Cikarang Listrindo Tbk has registered the Babelan Co-Firing Biomass generator with I-REC and set up an account to perform REC transfers, redeem, and retire.



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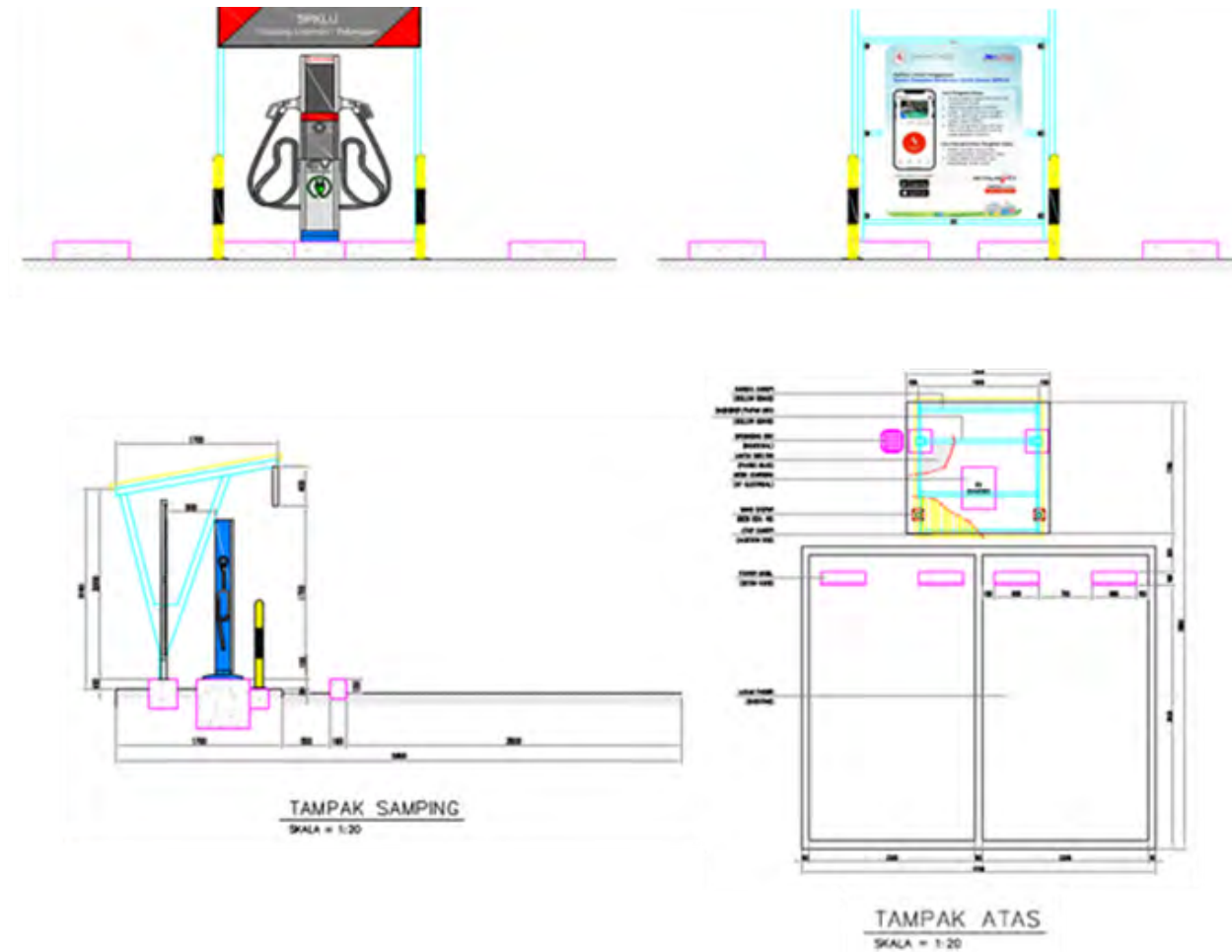


13. Electric Vehicle (EV) Charging



PT Cikarang Litrindo Tbk's provides EV Charging to customer for its value-added excellent services

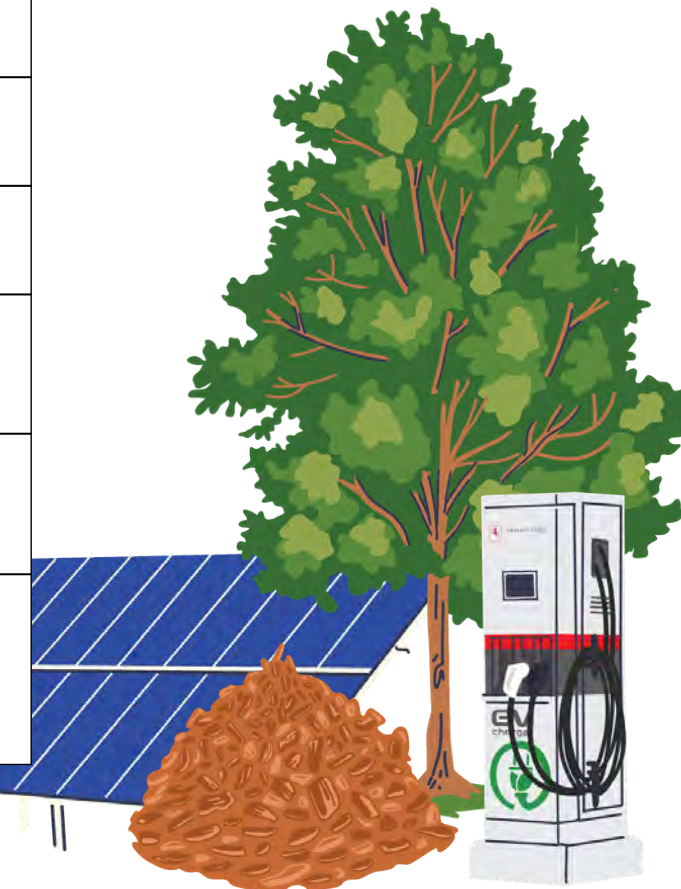
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14. Service Bundling Scheme



No	Item	RE - Standard	RE - Plus	RE - Ultimate
1	Renewable Energy Source	Solar PV Rooftop	Solar PV + Biomass	Solar PV + Biomass + SPKLU
2	Acknowledgment as a Renewable Energy Consumer	Yes	Yes	Yes
3	Declaration of Renewable Energy Usage	Yes	Yes	Supported by REC's Ownership
4	Site Visit to a Renewable Energy Facility	No	Yes	Yes
5	Dedicated Account Executive Support	Yes	Yes	Yes
6	Access to Monitoring Services	Yes	Yes	Yes
7	Term of Contract	15 Years	As per Customers' Request	Min. 15 Years
8	Tariff	USD 9 cents/kWh	+10% Tariff Standard	+15% Tariff Standard
9	Annual Report on Renewable Energy Consumption by an Independent Auditor"	No	Yes	Yes
10	Customer Classification	Potential Medium Voltage Customers $\geq$ 500 kVA	Potential Medium Voltage Customers 500 kVA - 3.000 kVA	Potential Medium Voltage Customers > 3.000 kVA





PT Cikarang Listrindo Tbk provides Electric Vehicle (EV) Charging to customer for value added services

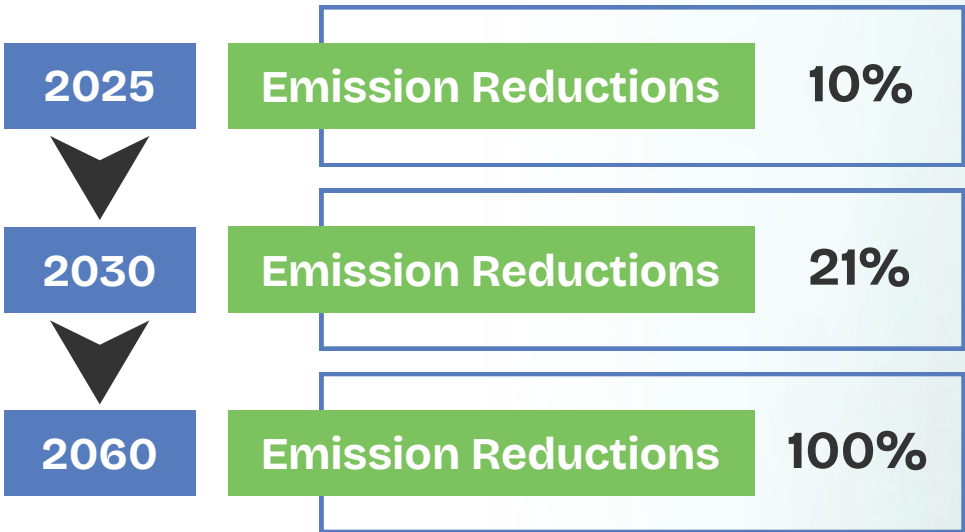
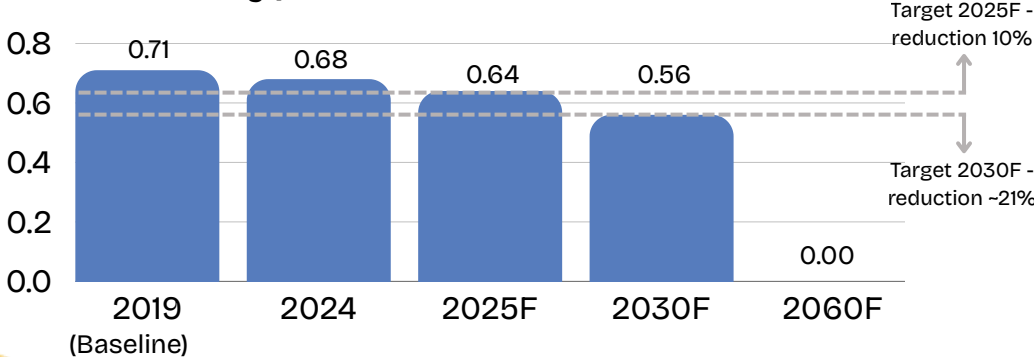
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Near-term Actions to Reduce Emissions

- ✓ Increase Solar Power generation by 15 MWp p.a.
- ✓ Increase use of biomass to replace coal. The Company plans to gradually enhance the co-firing capacity of PLTU Babelan.
- ✓ Construct a gas engine plant with a capacity of 50 MW to support operational needs efficiently, while improving operational performance
- ✓ Maintain the efficiency of operating units with good maintenance and periodic replacement and upgrade of internal components

Paving The Way to Net Zero Emissions in 2060

Emission Intensity (tonnes GHGe/MWh)



16. Customer Services



Account Executive

Customer can easily reach our services through our Account Executive in 24 hours.



Customer Website

All customer applications and information about monthly billing can be accessed through our customer website.



Digital Metering & Monitoring

We can do real time monitoring of customer's load profile. Customer's energy report for monthly billing is downloaded from Automatic Meter Reading (AMR).



Engineering Team

Our engineers are ready to help for customer's electrical asset problem solving.



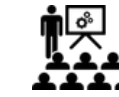
Excellent Service Program

We can give suggestions in order to improve reliability system in customer's facility.



Maintenance in Customer's Substation

We conduct electrical assets maintenance in customer's substation, in collaboration with our selected contractors which are specialized in transformer and cubicle maintenance.



Technical Seminar

We invite our customers to have a seminar with speakers from well-known brands for cubicle, transformer, etc.



Knowledge Sharing Session

We can do sharing session about operation and maintenance in electrical asset. We have a simulator room in MM2100 plant so customer can try to operate MV cubicle.



Preventive Maintenance Checking

We provide preventive maintenance checking such as Infrared Thermography (MV cubicle-transformer), Breakdown Voltage (transformer), Insulation Test (MV cubicle, cable), etc.



17. The Advantages of Choosing Power Supplies from PTCL



24 hours services



Transparent Process



Timely Connection Services



Sufficient Generating Capacity



Coverage area that is not extensive



Flexible capacity application & various service features



18. Our Customers



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THANK YOU



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