



PT MIGAS HULU JABAR (PERSERODA)

REGIONAL OWNED ENTERPRISE

HEADQUARTERS OFFICE

Jalan Jakarta No. 40
Bandung, Jawa Barat 40272

REPRESENTATIVE OFFICE

Wisma Staco Lt. 7
Jl. Casablanca Kav. 18 Jakarta 12870
Telp : (021) 829 8417
Fax : (021) 835 5341

BUSINESSES AND PROJECTS

<http://www.migashulujabar.co.id>

GENERAL DESCRIPTION OF COMPANY

SHARE OWNERSHIP

100% Owned by Government of West Java Province



VISION

*"Becoming the **CHAMPION**
(**JUARA**) Energy Company in
Indonesia"*

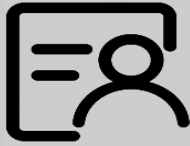


MISSION

- 1) Optimization of existing energy potentials to meet national energy needs, specifically in West Java;
- 2) Opening employment related to energy and its activities and industrial derivatives to create multiplier effect for regional and national development;
- 3) Contributing in maximization of Local Own-sourced Government Revenue of West Java by strengthening the carrying capacity of BUMD through cooperations with any parties and stakeholder.

NUMBER OF EMPLOYEE OF PT MIGAS HULU JABAR GROUP

47 Employees



ISSUED AND DEPOSITED CAPITAL

Rp35.000.000.000,-
(per December 2018)



MAIN BUSINESS

- Exploration
- Exploitation
- Energy support services



OFFICES

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LEGAL BASIS OF COMPANY ESTABLISHMENT

- Deed of Incorporation No.15, issued November 25th 2014.
- Deed of Amendment to the Articles of Association No. 24, issued Mei 14th 2018.
- The Structure of latest Management according to Notarial Deed No. 35, issued Desember, 26th 2018.






PT MIGAS HULU JABAR (PERSERODA)
BADAN USAHA MILIK DAERAH

OUR BUSINESS

PT Migas Hulu Jabar is West Java Province’s Regional Owned Enterprise in Oil & Gas Exploration & Production and Energy Support Services, established in November 2014.

Share Ownership: 100% Owned by West Java Government

Our Latest Business

Participating Interest	Participating Interest 10% Rights Holder in Offshore North West Java (ONWJ) Oil and Gas Working Area through MUJ subsidiary, MUJ ONWJ.	<div>PT MIGAS HULU JABAR GROUP</div> <div></div> <div><div>MIGAS HULU JABAR ONWJ</div></div> <div><div>ENM TOTAL ENERGY SOLUTION</div></div>
Energy Support Services	Including : <ul style="list-style-type: none">a) Management and Tech Servicesb) Electricity (Electric Safeguarding from Blackouts)c) Energy Infrastructure (Services)d) Energy Monetization (Total Energy Solution)	



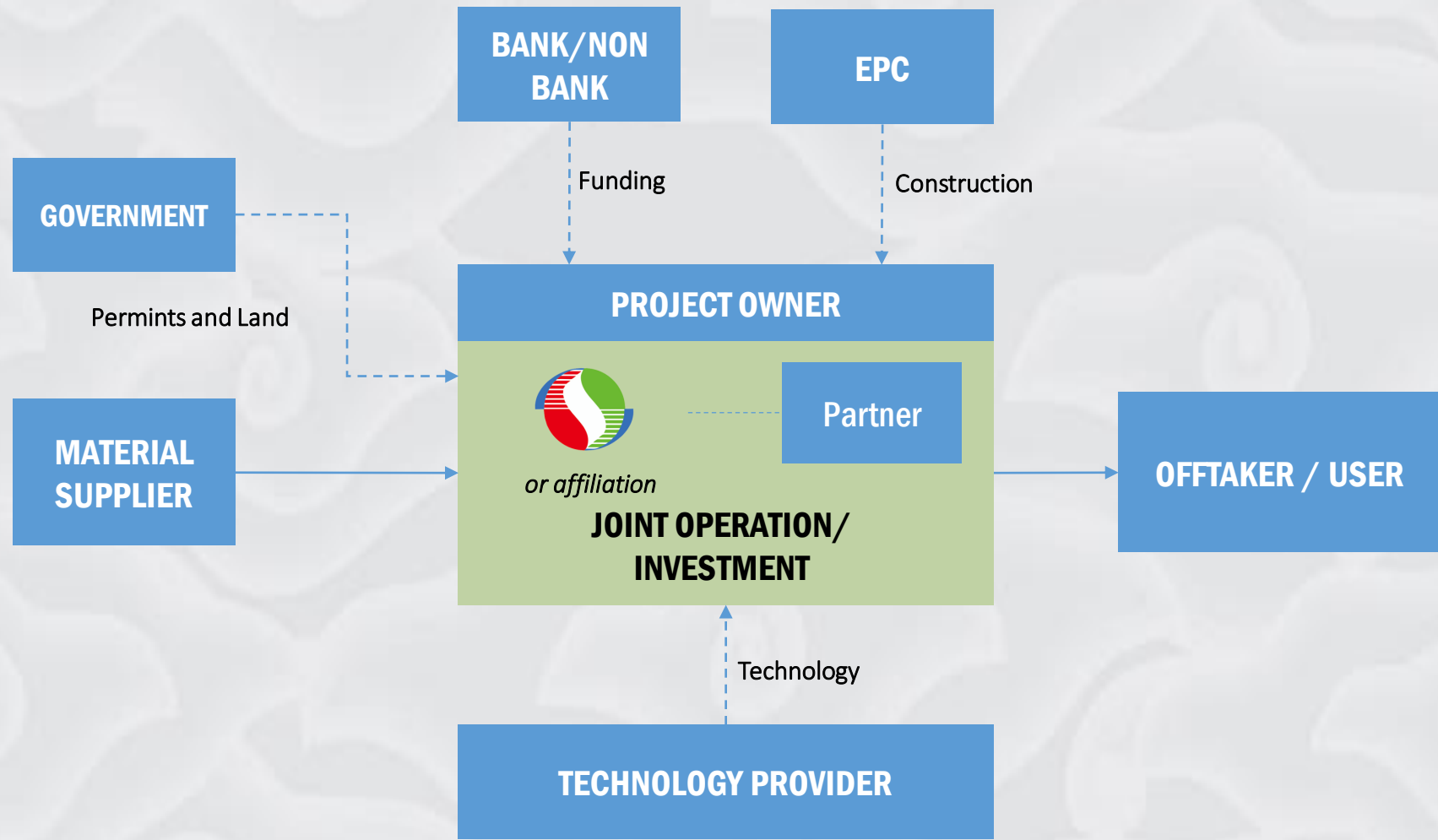
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PROJECT INVESTMENT COOPERATION POTENTIALS PT. MIGAS HULU JABAR (MUJ)

No	Project Name	Amount of Investment
1	Provision and Management of Diesel Rotary Uninterruptible Power Supply (DRUPS)	U\$ 100.000.000
2	Implementation of Renewable Power Plant Development In West Java, Indonesia	U\$ 10.000.000
3	Construction and Development of LNG Technology for Industrial and Retail Needs in West Java	U\$ 50.000.000



FUNDING AND PARTNERSHIP SCHEME



PROVISION AND MANAGEMENT OF DIESEL ROTARY UNINTERRUPTIBLE POWER SUPPLY (DRUPS)





**No Voltage Dip,
No Outage**

SUPER ULTIMA

Business Power Continuity Guaranteed with Dynamic UPS Systems



**PT MIGAS HULU JABAR (PERSERODA)
BADAN USAHA MILIK DAERAH**

SUPER ULTIMA

RUPS (ULTIMA 1)



Rotary UPS

A replacement power system with kinetic energy storage mechanism and connected to an existing electric generator that works to protect voltage disturbances such as voltage fluctuations, outages and other voltage disturbances so as to provide quality power to ensure the continued operation of production and business of the customers

DRUPS (ULTIMA 2)



Diesel Rotary UPS

A replacement power system with a kinetic energy storage mechanism and connected with a diesel engine mechanically using a mechanical clutch that works to protect voltage disturbances such as voltage fluctuations, outages and other voltage disturbances so that it can provide quality power to ensure the production and business operations of customers



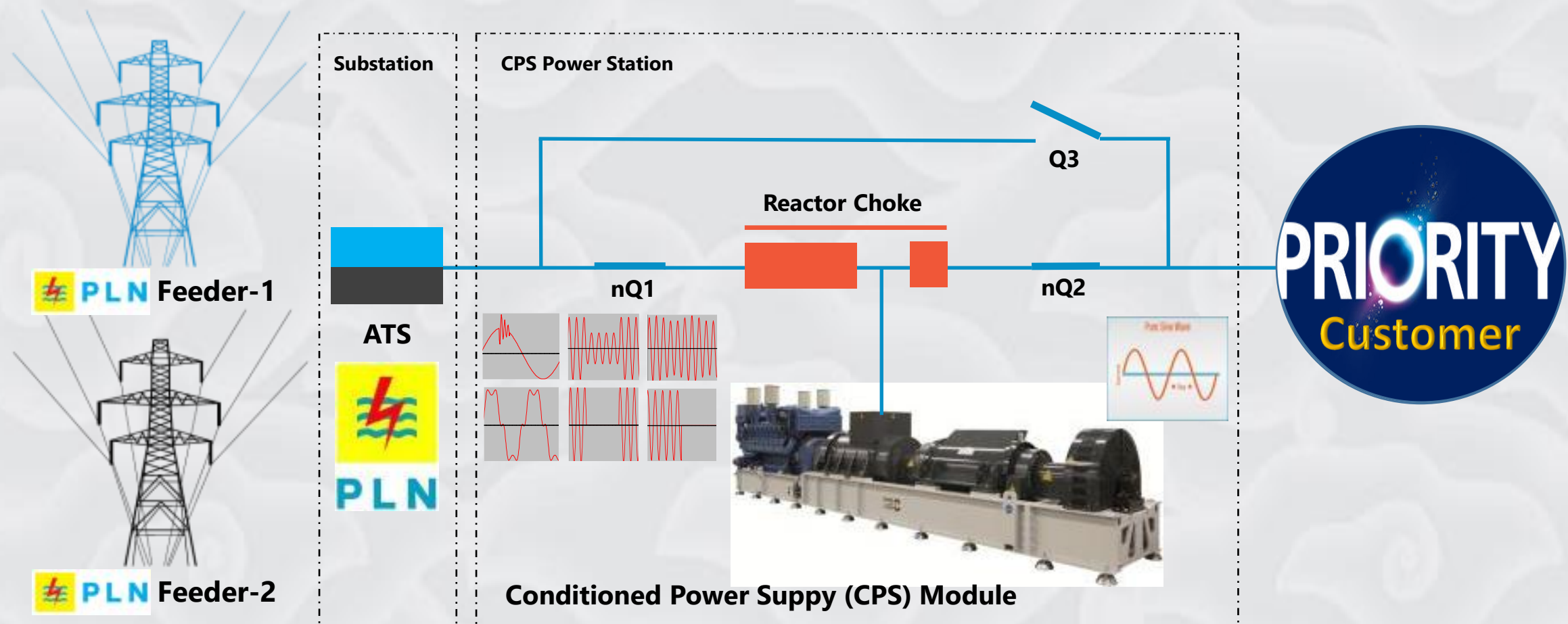
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COOPERATION AGREEMENT



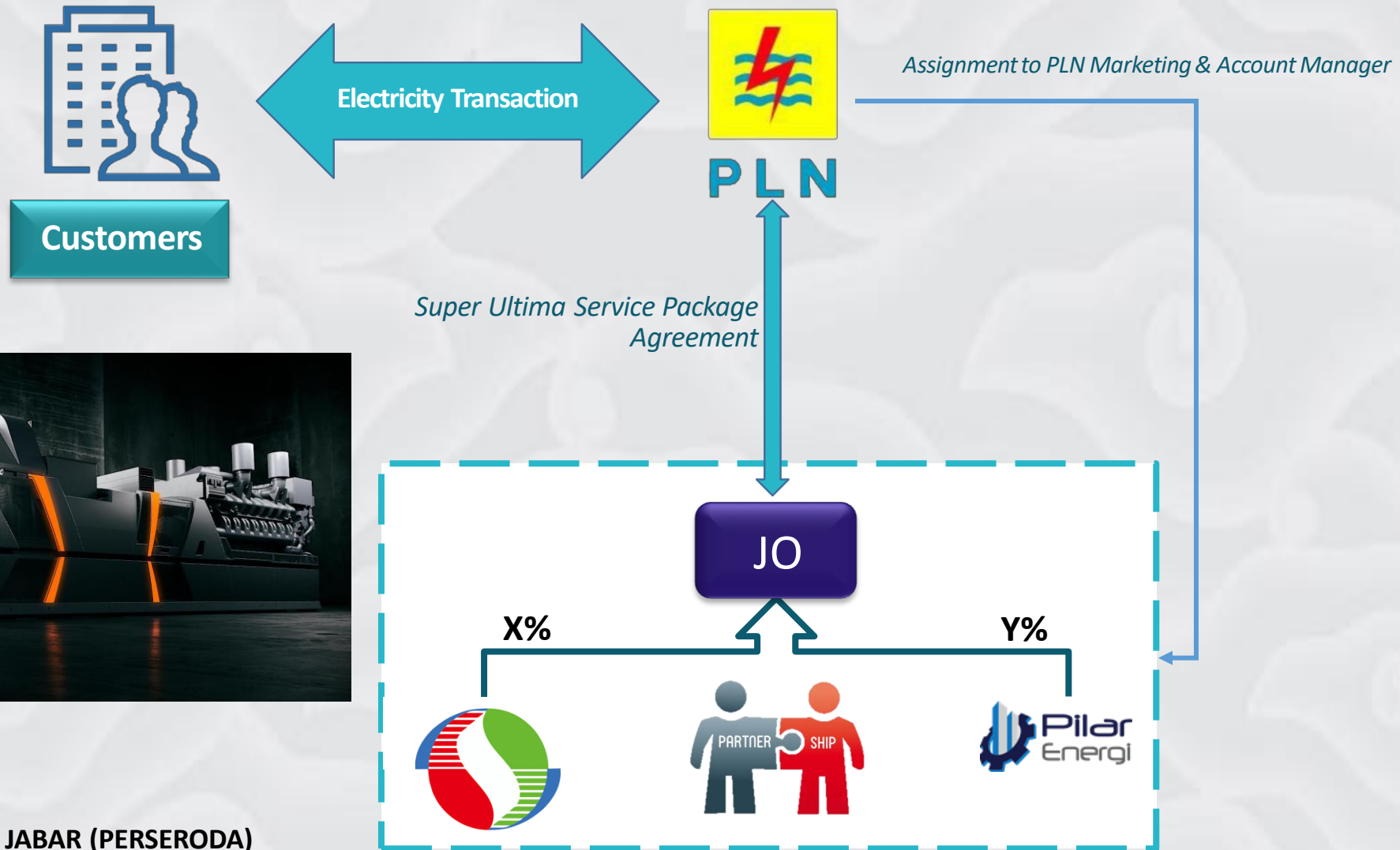
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ELECTRICAL SYSTEM CONFIGURATION



PLN serves priority customers with quality and reliability power through CPS – DRUPS Systems

PROFIT SHARING SCHEME



PT MIGAS HULU JABAR (PERSERODA)
BADAN USAHA MILIK DAERAH

IMPLEMENTATION OF RENEWABLE POWER PLANT DEVELOPMENT IN WEST JAVA INDONESIA



CONSTRUCTION OF SOLAR POWER PLANT



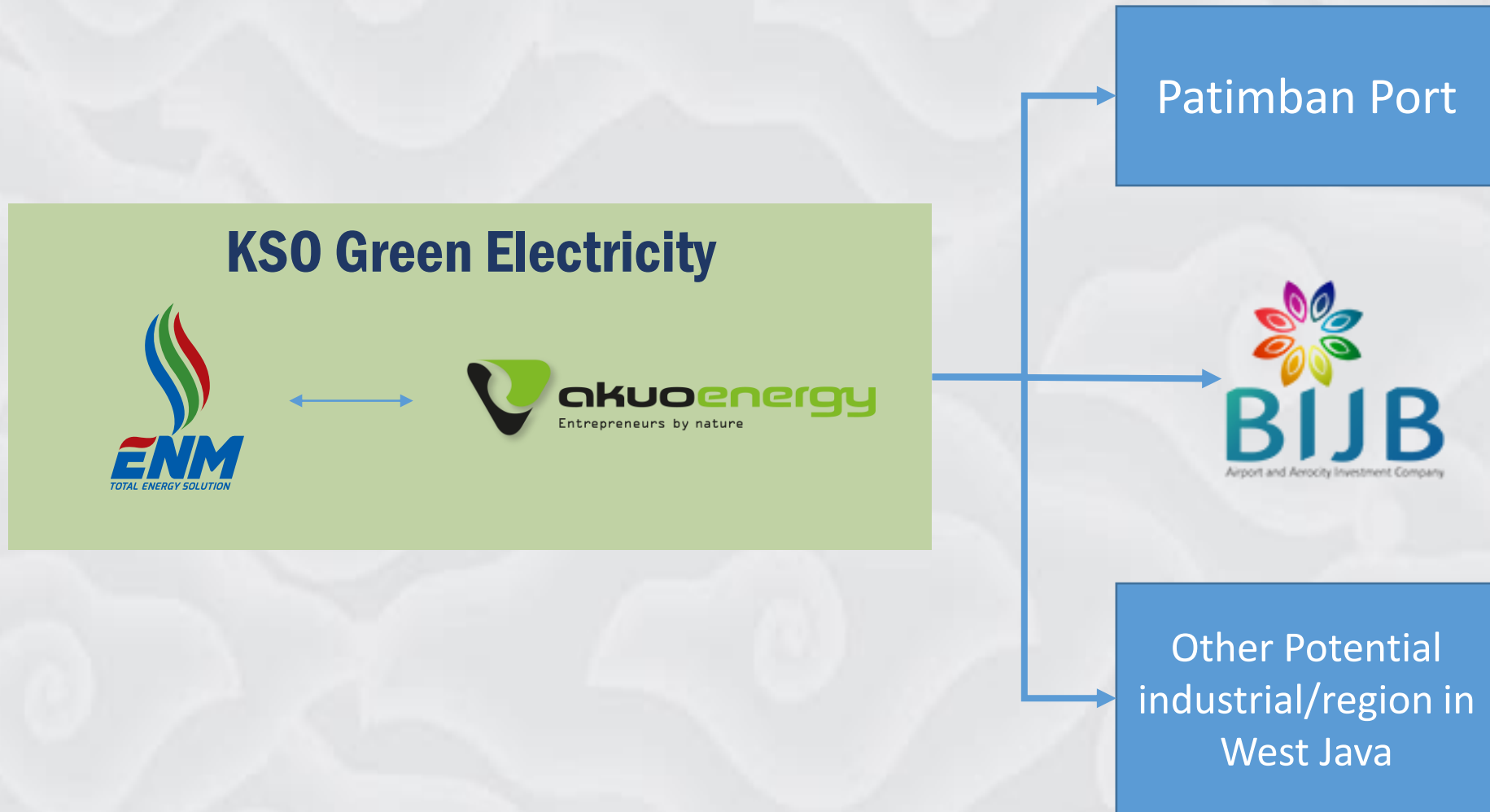
**Provision of Solar Power Plant both in
Industrial and Retail Scale
(Sustainable Building)**

MUJ will develop new renewable energy and energy conservation in West Java as an effort to reduce fossil energy consumption in Indonesia, specifically in West Java, one of them is Solar Power Plant.



PT MIGAS HULU JABAR (PERSERODA)
BADAN USAHA MILIK DAERAH

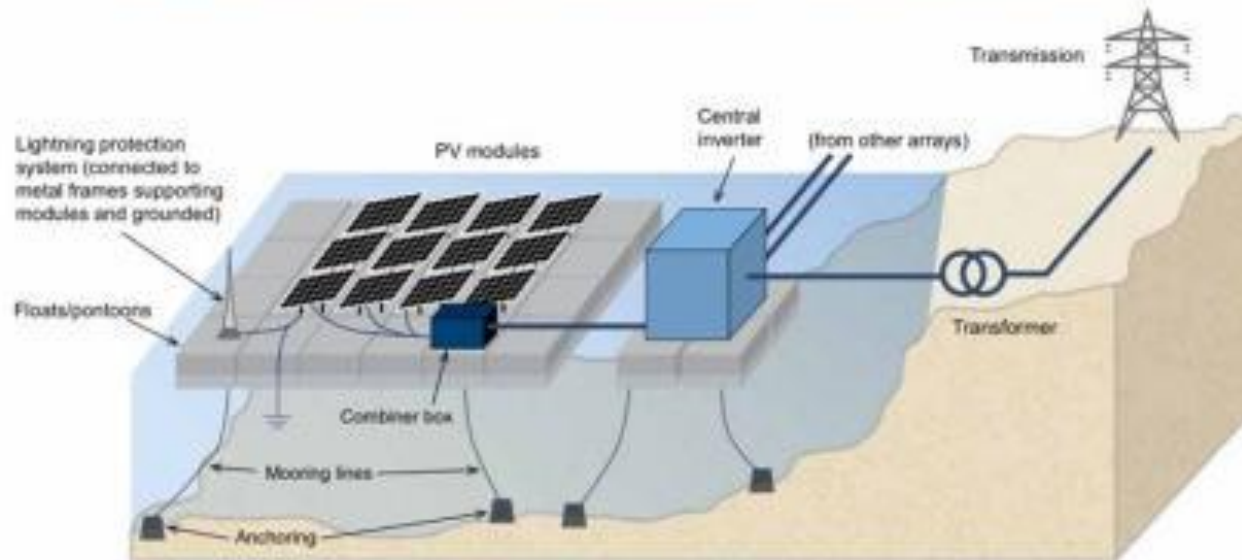
BUSINESS SCHEME



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CONSTRUCTION OF SOLAR POWER PLANT

FIGURE E.1 Schematic representation of a typical large-scale FPV system with its key components



Source: Solar Energy Research Institute of Singapore (SERIS) at the National University of Singapore.


MUJ will be cooperating with international companies that holds *Floating Solar Photo Voltaic Technology*. Whereby the solar panel will be put and float above lake or river. MUJ is planning to construct the Solar Power Plant above Saguling Reservoir and other reservoirs in West Java.



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CONSTRUCTION OF POWER PLANT

A. Project Summary	
Project name	SAGU Floating Solar PV Power Plant
Size	60 MWp
Location	-6.918108, 107.375950 Saguling Dam, West Java
Water Surface	93 Ha
Production assumption	93,500 MWh/year
Connection to POC	7 km to Saguling Substation
Solar irradiation	1,559 kWh/m ² /year
PPA exp. Date / FIT	Q3 2020 / cUSD 6.81 per kWh
Building start date	Q1 2021
Commissioning target	Q1 2022
Investment Value	Approx. USD 60 Million



B. Project Status	
Permitting	MoU with PT Indonesia Power as the reservoir owner (IP, subsidiary of PLN) has been signed.
Study Assessment	<ul style="list-style-type: none">- Initial Environmental Study has been done (including water quality analysis).- Grid Impact Study will be launched this year- Preliminary Anchoring Study and layouting has been completed.- Energy Resource Assessment has been completed
Land Acquisition	Surface water operated by Indonesia Power for Hydro Power Plant beside the dam
Barrier/Risk	<ul style="list-style-type: none">- Environmental (water pollution); poor access for plant's ground facility
Planning & Priority 2019-2020	<ul style="list-style-type: none">- Conduct Grid Impact Study and approved by PLN- Location permit to acquire the land (and other permitting)- Complete Feasibility Study (in progress)- Detail Engineering and Geotechnical Study (incl. Bathymetry Survey)- PPA signed Q3 2020

Benefits of Floating Solar PV Construction:

- Simplified land acquisition
- Increasing output of energy through natural cooling process (by water)
- Reducing surfaced water evaporation
- Utilizing unproductive area (lake surface)
- Reducing Algae growth in the lake
- Protecting water from unwanted activities (Illegal fishing)

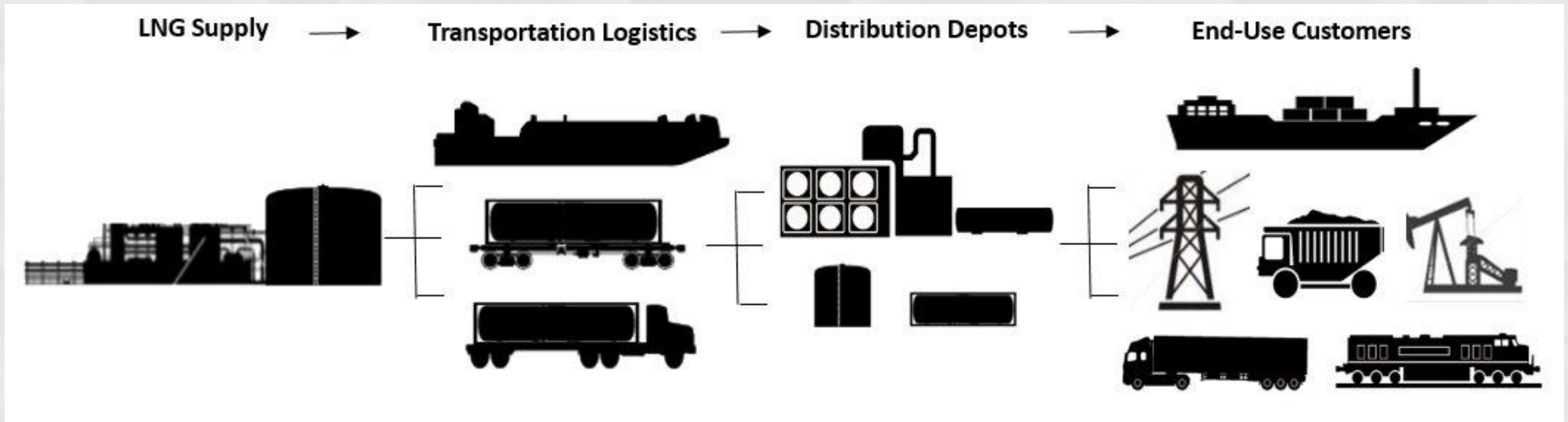


PT MIGAS HULU JABAR (PERSERODA)
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NATURAL GAS UTILIZATION FOR INDUSTRIAL AND RETAIL NEEDS



LNG VALUE CHAIN



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BUSINESS SCHEME



PT MIGAS HULU JABAR (PERSERODA)
BADAN USAHA MILIK DAERAH

**ENERGI
UNTUK NEGERI**
ENERGY FOR COUNTRY



PT. MIGAS HULU JABAR (PERSERODA)
Badan Usaha Milik Daerah

HATUR NUHUN



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