

Energizing Energy Transition

IPP JAWA-1 Project, an Effort to Strengthen the Clean Energy Business

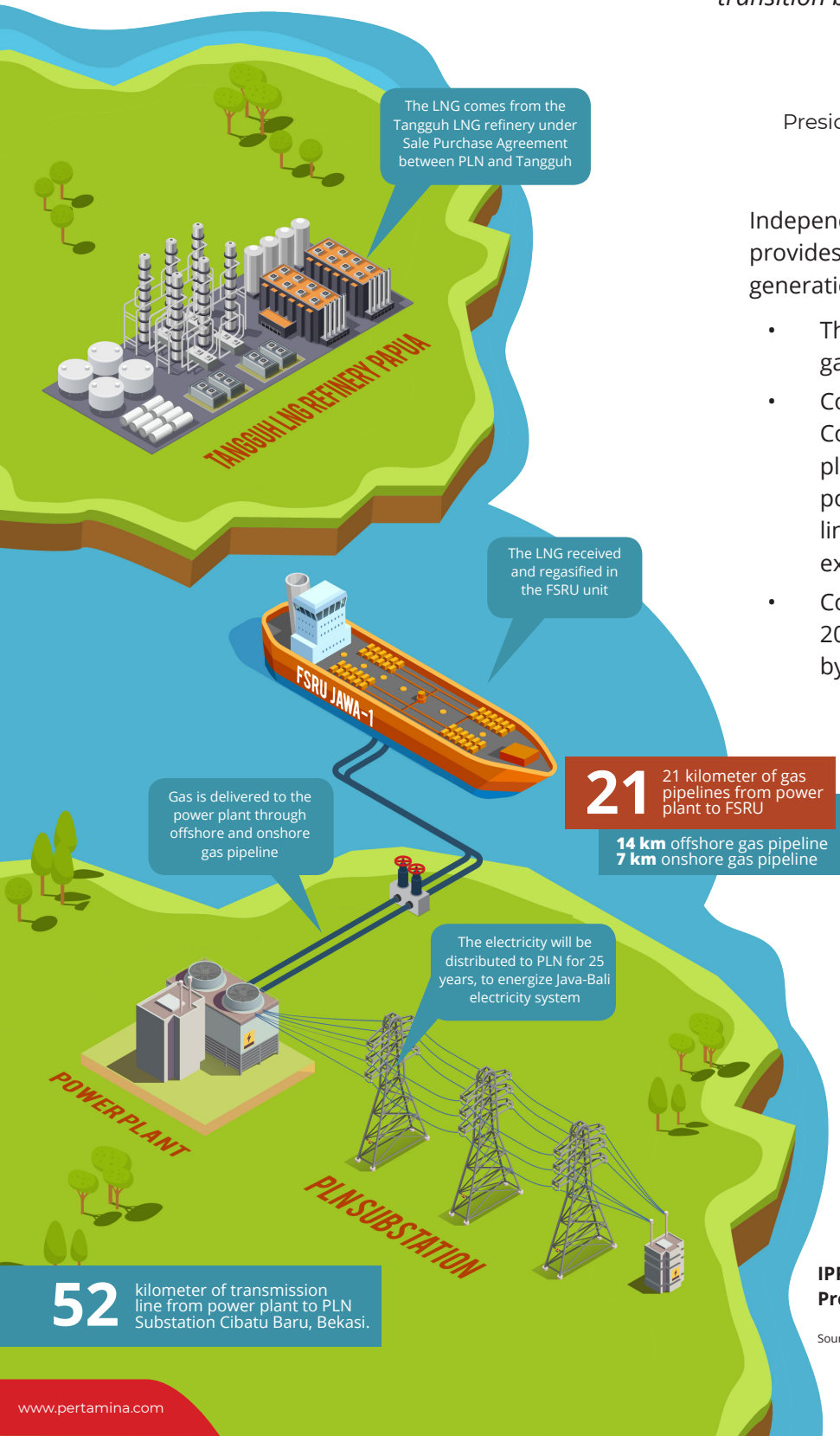
"Pertamina ensures its readiness to face the global energy transition by carrying out strategic initiatives for the development of clean energy"

Nicke Widyawati

President Director & CEO PT. Pertamina (Persero)

Independent Power Plant Jawa-1 (IPP Jawa-1) provides cleaner power for Indonesia's electricity generation target.

- The IPP Jawa-1 is a project that integrates gas facilities with a power plant project.
- Consisting of a new generation 2x880 MW Combined Cycle Gas Turbine (CCGT) power plant, FSRU, the gas pipeline between the power plant and FSRU, and transmission lines that connect the power plant with the existing PLN interconnection point.
- Commercial Operation Date (COD) target 2021, the project has been 87,5% completed by Q3-2020.



Commercialization

The electricity will be distributed to PLN for 25 years with a BOOT scheme (Build, Own, Operate and Transfer) to ensure the electricity supply of the Java-Bali electricity network, through a 500 kV transmission line from the power plant to PLN substation.

**IPP Jawa-1,
Process & Facilities**

Source: PPI

52 kilometer of transmission line from power plant to PLN Substation Cibatubaru, Bekasi.

IPP Jawa-1 is developed by Pertamina Power Indonesia

PT Pertamina Power Indonesia (PPI) is a subsidiary of Pertamina, which manages Power and NRE Subholding. PPI operates IPP Jawa-1 along with other the value chain of new & renewable energy, geothermal based power, including the installation of Solar PV as a solar module-based renewable energy power plant, Biomass/Gas power plant in various regions in Indonesia. As a Sub holding company, PPI supervises PT Pertamina Geothermal Energy.

Pertamina's Eminence in NRE



Agent of Development

- Building new energy infrastructure to support energy security and economic development
- Contributing in National Strategic Project
- Developing areas to reduce inequality



Cost of Competitiveness

- Delivering energy power solution with competitive tariff rates
- Provide access to affordable power tariff to all Indonesia



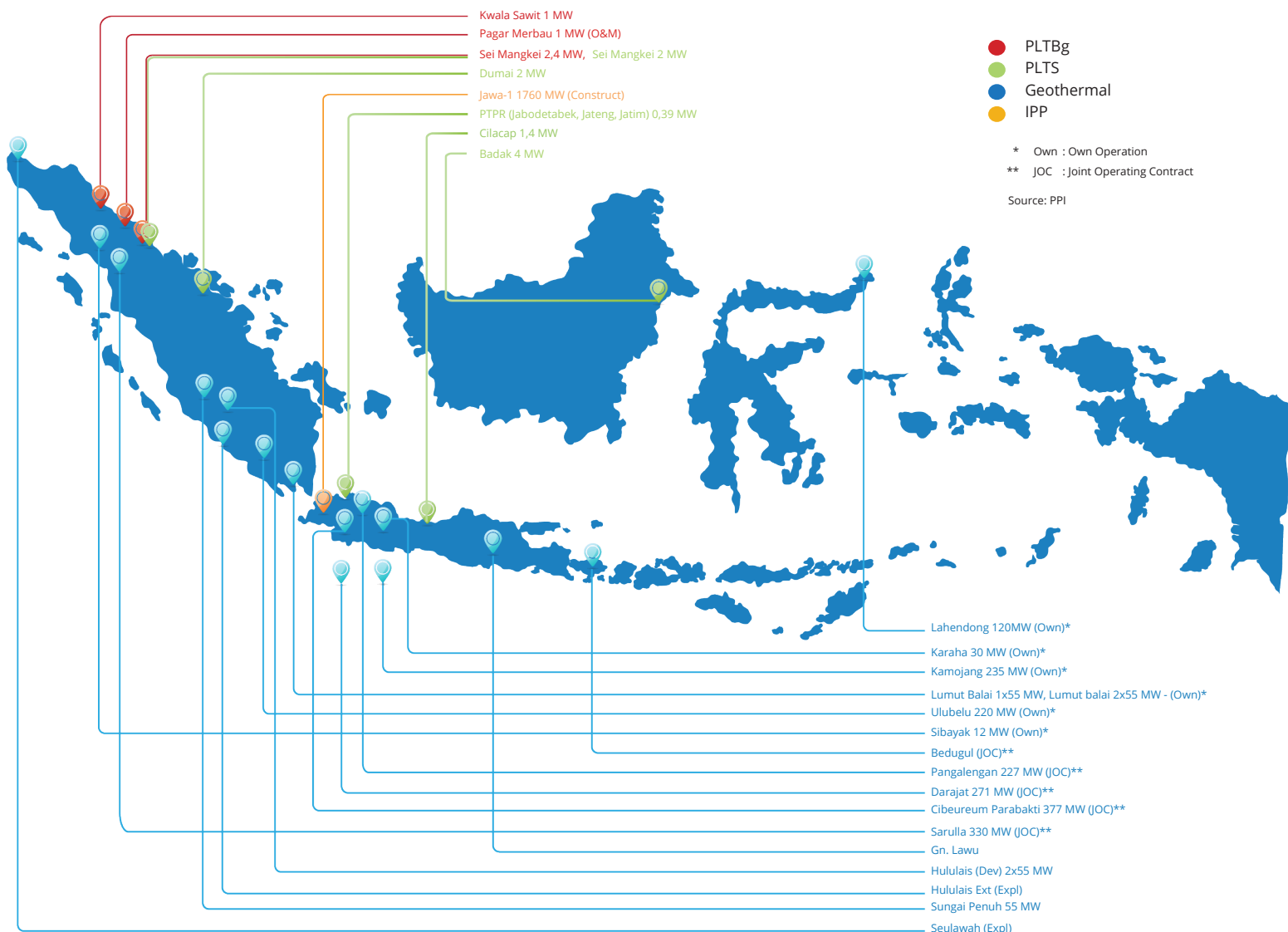
Clean and Green Energy Solution

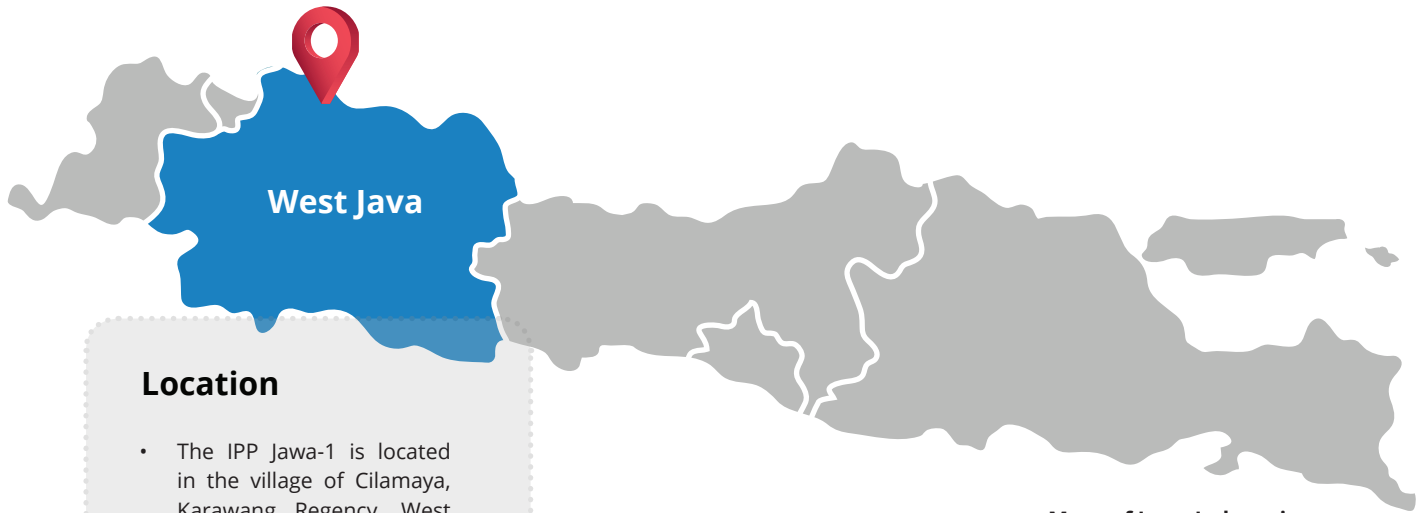
- Providing power generation solutions that designed and tailored to serve each industry
- Pertamina group have access to upstream and downstream resources and infrastructure which resulted in a comprehensive energy solution

Source: internal Pertamina

Journey to 10 GW

In 2026, the Subholding Power and NRE estimates to have 10 GW by extensive growth in Gas to Power, NRE, geothermal activities, and others. Until end 2020, Pertamina operations in NRE as seen as below:





Maps of Java, Indonesia

Location

- The IPP Jawa-1 is located in the village of Cilamaya, Karawang Regency, West Java; Next to SKG Cilamaya PT Pertamina Gas, and surrounded by facilities owned by PT Pertamina EP and PT Pertamina Hulu Energy Offshore North West Java.
- Project area is 39 hectares, consisting power plant, housing complex and buffer zone.

Source: internal Pertamina

IPP Jawa-1 Project Contribution to Sustainability

The IPP Jawa-1 project is one of the clean energy strategic projects aligned with Pertamina’s sustainability goals. On a broader scale, it will help to achieve the UN’s SDGs Goals, among others:



- Natural gas is 15-20% cleaner compare with other fossil fuel resources
- Cost of generation is lower than others



- Delivering energy power solution with competitive tariff rates
- Pertamina Jawa-1 Project reflects a substantial commitment to SOE synergy to support national economic growth
- The project promotes job creation and development of the local economy (TKDN)



- Uses natural gas to produce clean energy with the lowest carbon emission amongst other fossil fuel resources

Source: internal Pertamina