

Upgrading and Modernising the Java-Madura-Bali Electricity Control Centre

PROJECT SNAPSHOT

Country: Indonesia

The existing grid control system in the Java-Madura-Bali (JAMALI) region faces challenges in its capacity to integrate variable renewable energy into the grid, necessitating urgent modernisation efforts.

In order to address this, ETP is providing technical assistance to design a new control center, ensuring its ability to effectively manage and facilitate the seamless integration of clean energy sources.

This project will enable the State Electricity Company (PLN) to integrate 9.6 GW of renewable energy power by 2030 per the PLN's 2021-2030 business plan (RUPTL).

CONNECT



ETP'S CONTRIBUTION

This project delivers supports planning and preparation of the Supervisory Control and Data Acquisition (SCADA)/ Energy Management Systems (EMS) technology, building infrastructures, and human resources for the JAMALI Main Control Center (MCC) and Disaster Recovery Control Center (DRC). This will ensure that the quality of the technology complies with international standards, and facilitate the effective integration and utilization of renewable energy sources through high quality smart grid technology.



IMPACT

➔ Increased variable renewable energy deployment in Indonesia through smart grid technology, paving the way to reduction of greenhouse gases emissions



OUTCOME

➔ Modernizing the JAMALI grid to enable more variable renewable energy integration



OUTPUTS

➔ Detailed engineering design for the new JAMALI control centers



IMPLEMENTATION PARTNERS

ELC Electroconsults
deBarr



STAKEHOLDERS

Perusahaan Listrik Negara (PLN)
Ministry of Energy and Mineral
Resources (MEMR)



PLN



PROJECT DURATION

October 2021 - December 2023 (Phase 1)
January 2024 - October 2025 (Phase 2)

CONTACT DETAILS

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KEY OUTPUTS

- Delivery of a detailed engineering design for SCADA/EMS technology, and for the JAMALI MCC and DRC buildings
- Finalising tender processes for SCADA/EMS and JAMALI MCC and DRC building constructions
- Capacity building for PLN staff involved in control centre management, ensuring that staff are able to navigate the new technology and related processes