

Digital Power Plant Overview

JERA is building a mechanism to generate value by implementing, as an application, advanced O&M using data and AI.



JERA's Vision for the Future of the Digital Power Plant

Package "plant equipment and people work," including user-oriented technology such as kaizen. (standardization and digitization)

Operation

Real-time management not only of operational control values but also of adjustment capabilities and operational indicators like availability.

Inspection work and daily log entry are structured through **mobile applications**.

Performance Management

Real-time management of indicators for thermal efficiency and auxiliary power as well as of each factor of deterioration.

Optimum operating conditions and parameters are calculated using a digital twin.



Maintenance

Real-time management of maintenance indicators such as actual planning and progress work, trouble and maintenance costs, and the reliability of each facility.

Supports lifecycle optimization with data-based know-how and **predictive maintenance** applications.

Health/Safety/Security/Environment

Real-time management of indicators such as the number of accidents and disasters and values for environmental emissions.

Support for disaster and accident response through the creation of systems and applications.