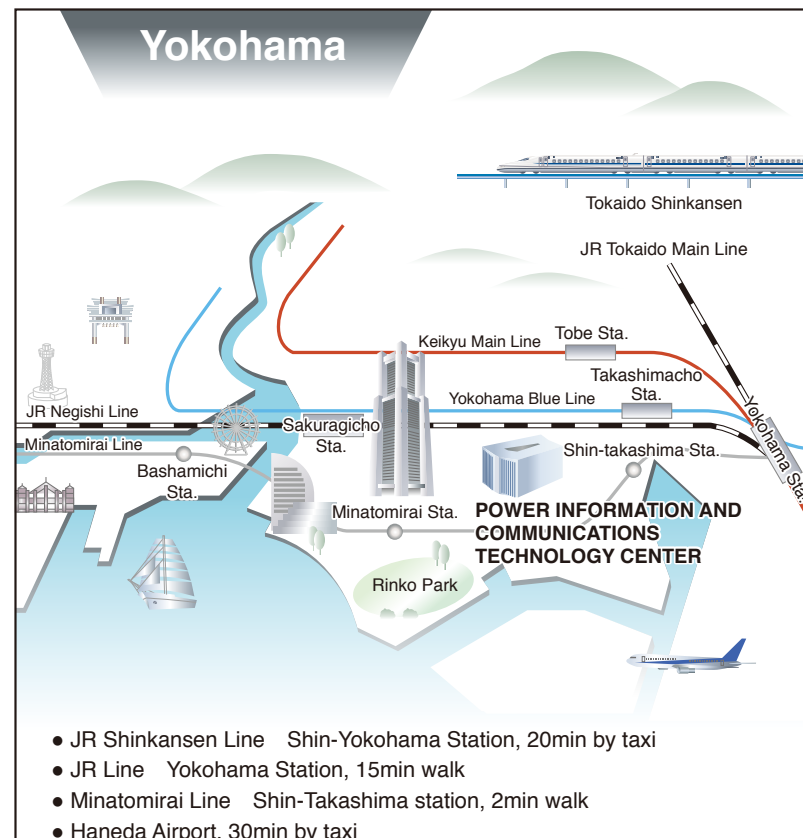


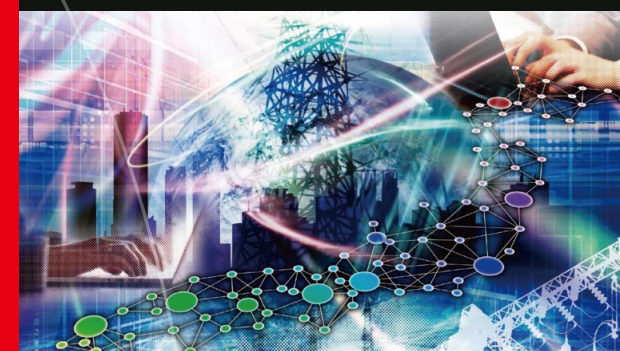
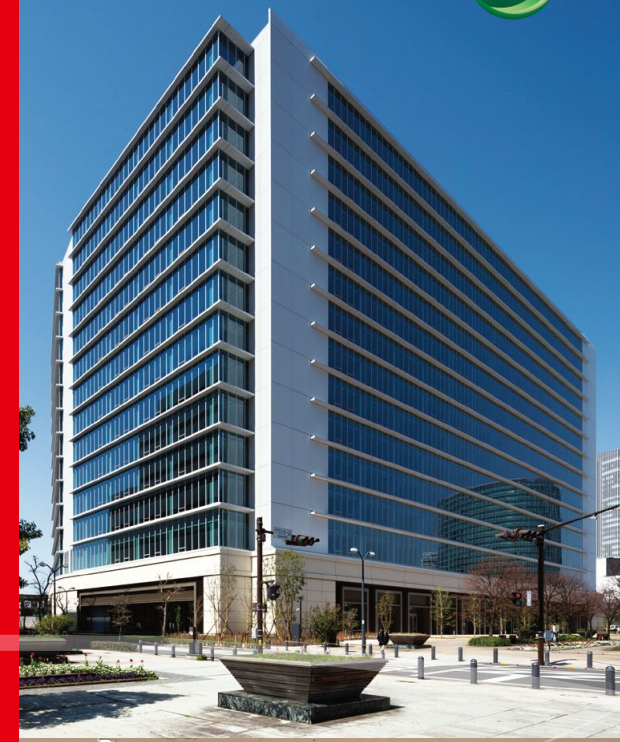
POWER INFORMATION AND COMMUNICATIONS TECHNOLOGY CENTER



POWER INFORMATION AND COMMUNICATIONS TECHNOLOGY CENTER
ENERGY SYSTEMS CENTER

MITSUBISHI ELECTRIC CORPORATION

Yokohama i-Mark Place 4F 4-4-5 Minatomirai, Nishi-ku, Yokohama-shi, Kanagawa, Japan, 220-0012
Tel: +81 45 307 0888



Aiming to create new value in energy systems

“Realizing low-cost, low-carbon energy systems with excellent stability”

“Utilizing ICT to create advanced operating systems”

“Promoting open innovation globally”

This is our mission.

Sharing power system technologies with a base in Kobe and utilizing information system and communication system technologies (i.e., ICT), the Power Information and Communications Technology Center is contributing to its customers’ businesses and creating new value for energy systems.

Elemental Technologies

We create power operation use cases and optimal business logic for the digital age, enabling us to provide advanced solutions through the integration of wide-ranging power technologies and ICT technologies.

Power Technologies

Power system operation
Main circuit control
Generator control

Information Technologies

Mathematical programming
Database, OS/MW
Cybersecurity

Communication Technologies

Wide-area networks
Access networks
Sensor networks

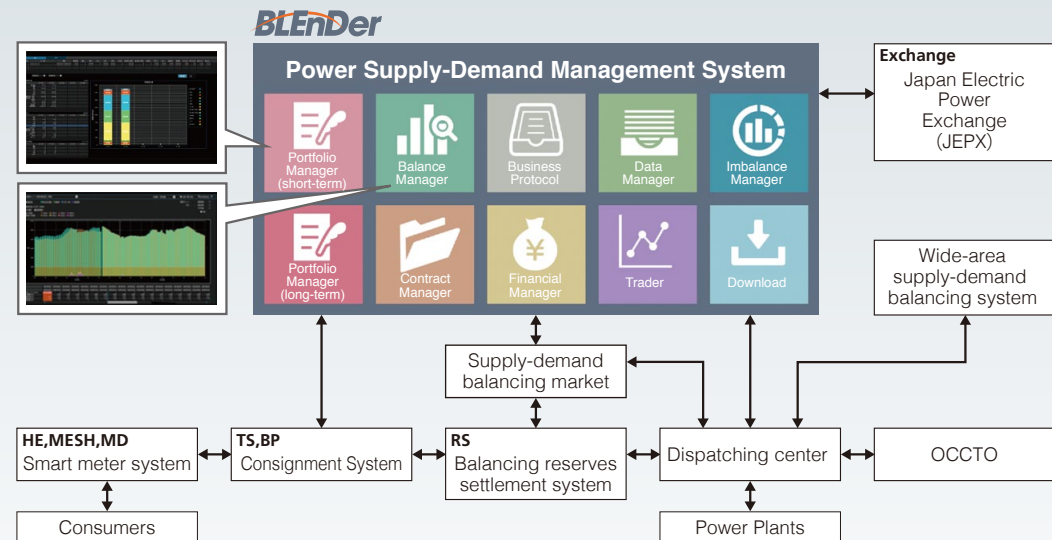


We provide various solutions to support smart operation of power transmission and distribution networks, and expand the power market.

For adjusting advanced supply and demand in the power market

Power supply and demand adjustment mechanism solution

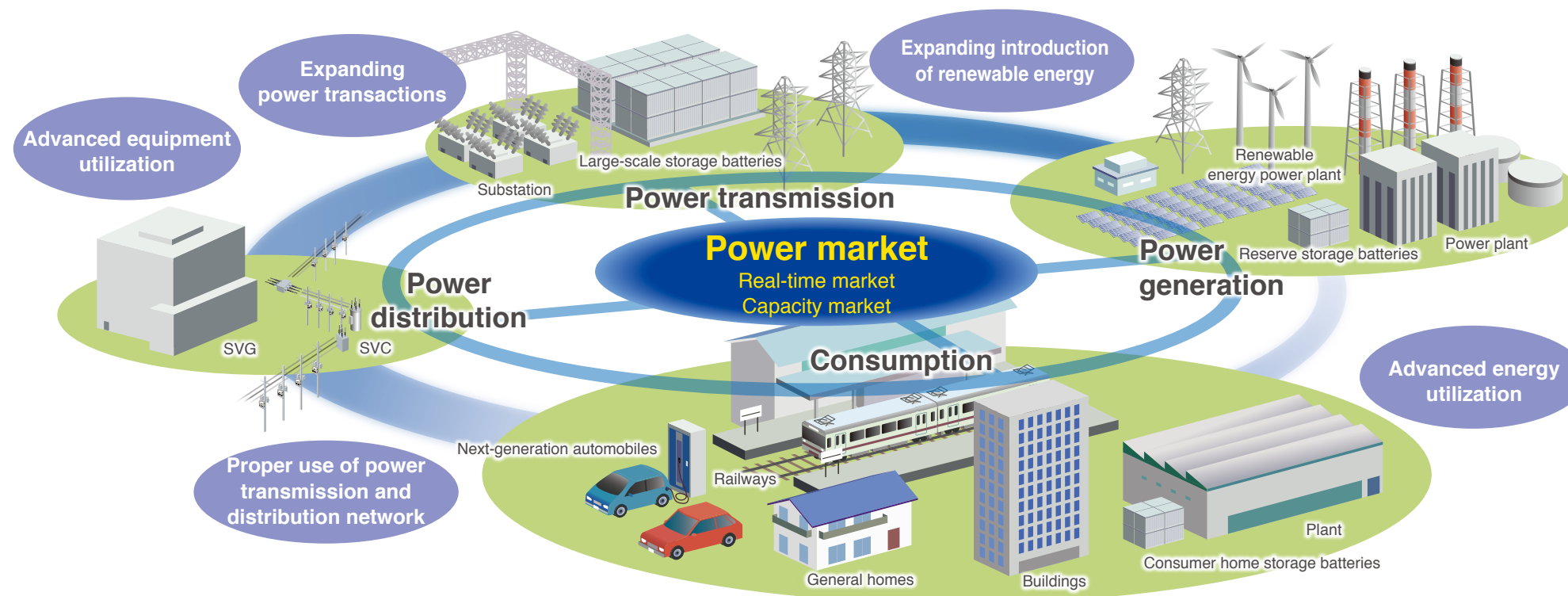
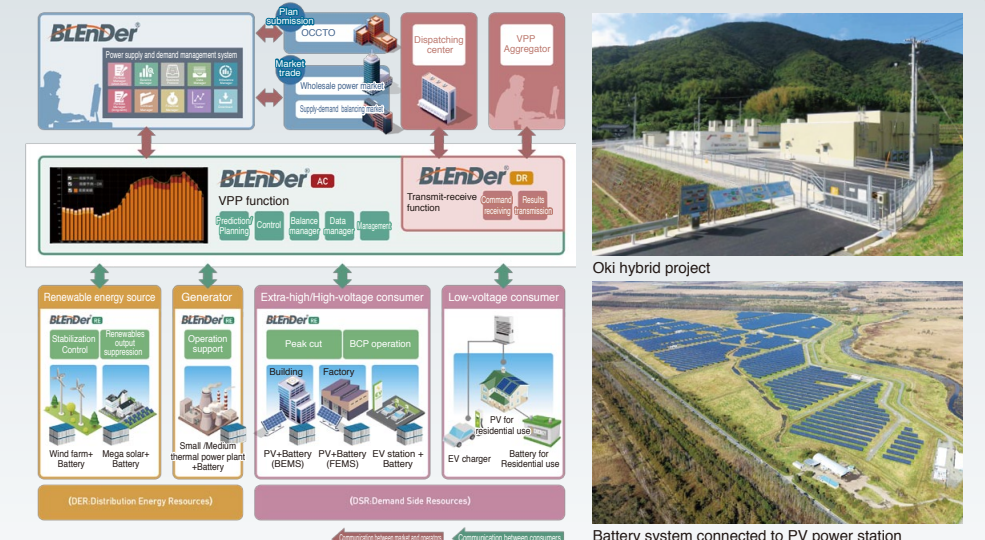
We have developed the "BLENder" Series lineup of packaged software applications, the ideal solution for business operations that are becoming more complex in the evolving power market.



Digital energy initiatives

Dispersed Power Sources Management System

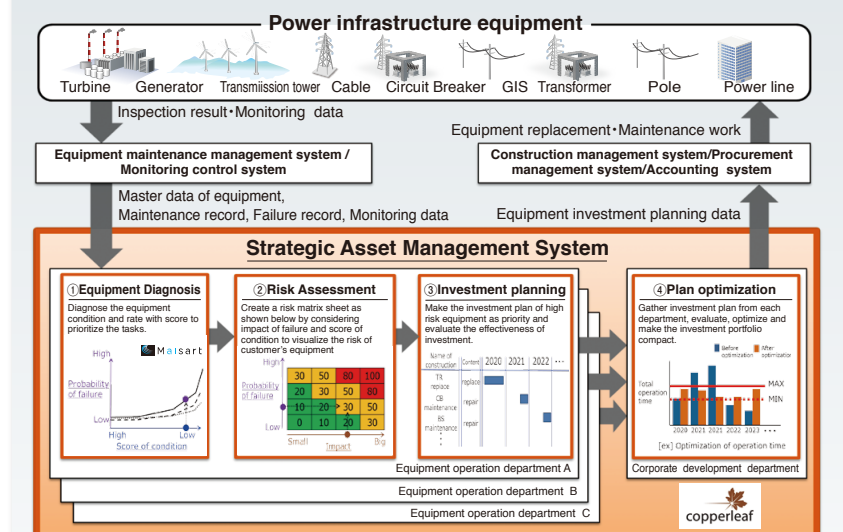
The digital energy solutions by our dispersed power sources management system will enable both renewable energy introduction and grid stabilization and realize supply-demand balancing through the ancillary services market.



Towards advanced power asset operation using ICT

Asset management solution

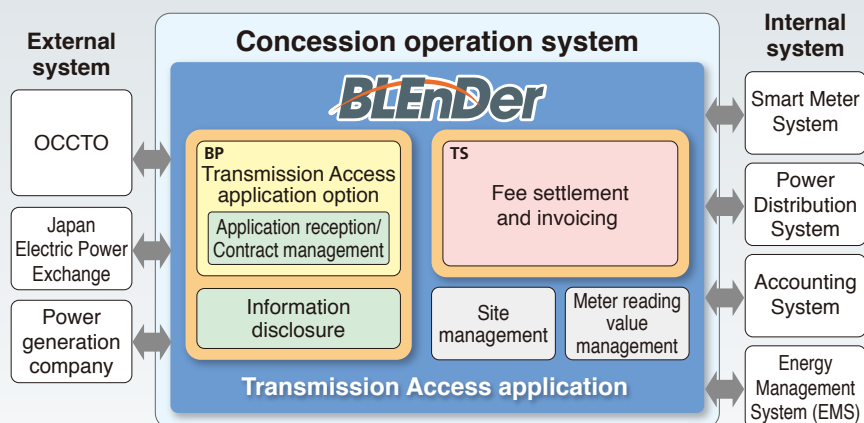
Our asset management system will add the new functions of equipment diagnosis, risk assessment and investment plan to contribute to advanced asset utilization and mid- and long-term management planning.



Towards the open and efficient operation of power transmission and distribution networks

Power transmission and distribution access solution (Transmission Access Management System)

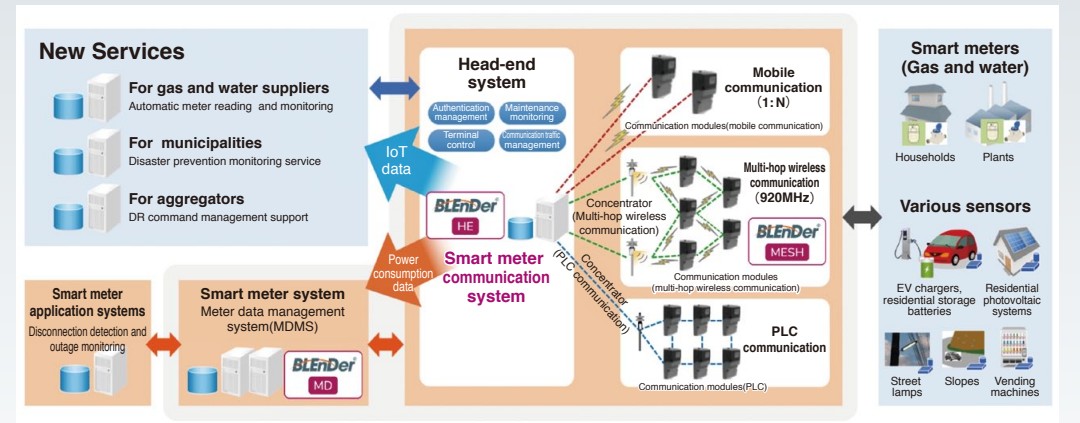
Utilizing the "BLENder" Series packaged software application, our power transmission and distribution systems provide a fair and efficient operating environment.



For advanced management of power distribution systems using the Internet of Things (IoT)

Large-scale IoT solution (Smart Meter System)

With a supply record of over 10 million communication units for the domestic market and reliability backed by the achieved data collection rate of over 99.9%, we can commit to providing a reliable large-scale network, connecting each smart meter and the center system.



Development environment and facilities

We have an advanced environment and facilities for the planning, development, production and maintenance of Power ICT systems:



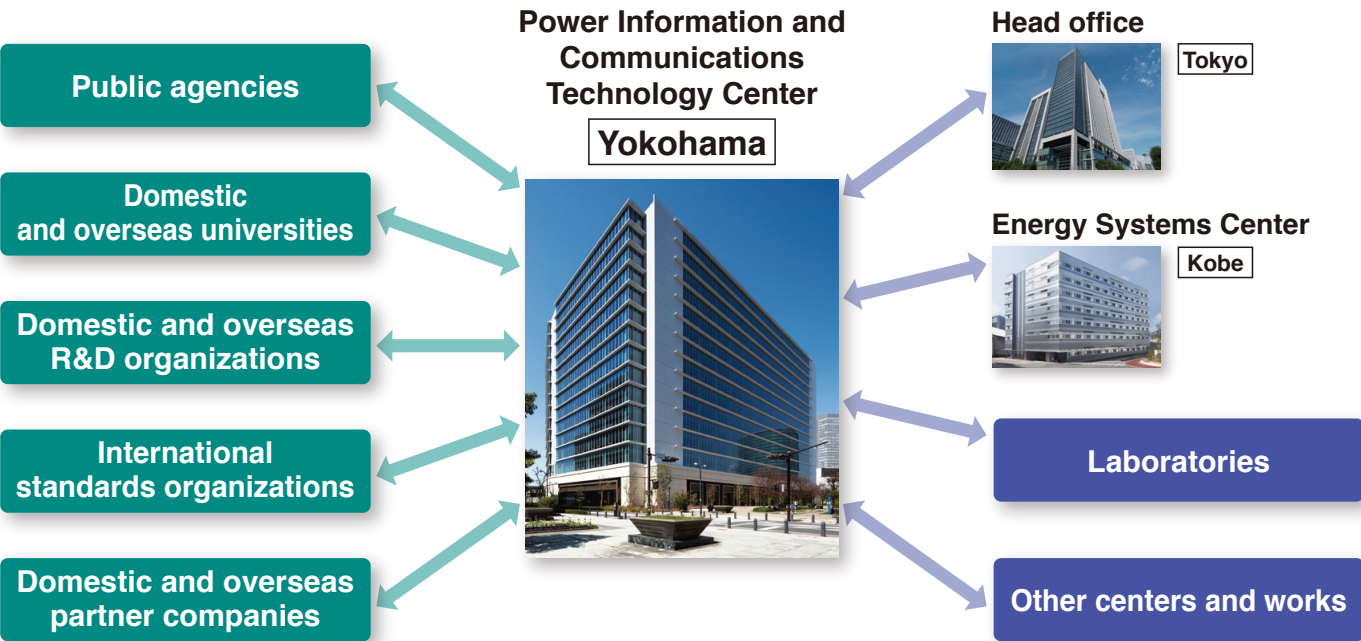
*POC : Proof Of Concept



* Facilities include a remote maintenance room, verification room, etc.

Promoting open innovation

To support societies that keep changing at the global level, our aim is to create new value in energy systems through various forms of cooperation domestically and internationally.



* We are engaged in standardization activities domestically and internationally. (IEC, IEEE, IETF, CIGRE wide-area institution business protocols, Japan Electric Power Exchange API, Echonet, etc.)