

Power electronics systems

Energy solutions

Energy management

Energy management optimization package for power generation facilities EMS-Package

Easy, low-cost energy optimization.

Contributing to energy-saving operations and reduced greenhouse gas emissions by accurately controlling energy supply and demand at overseas ironworks and plants with in-house power generation facilities.

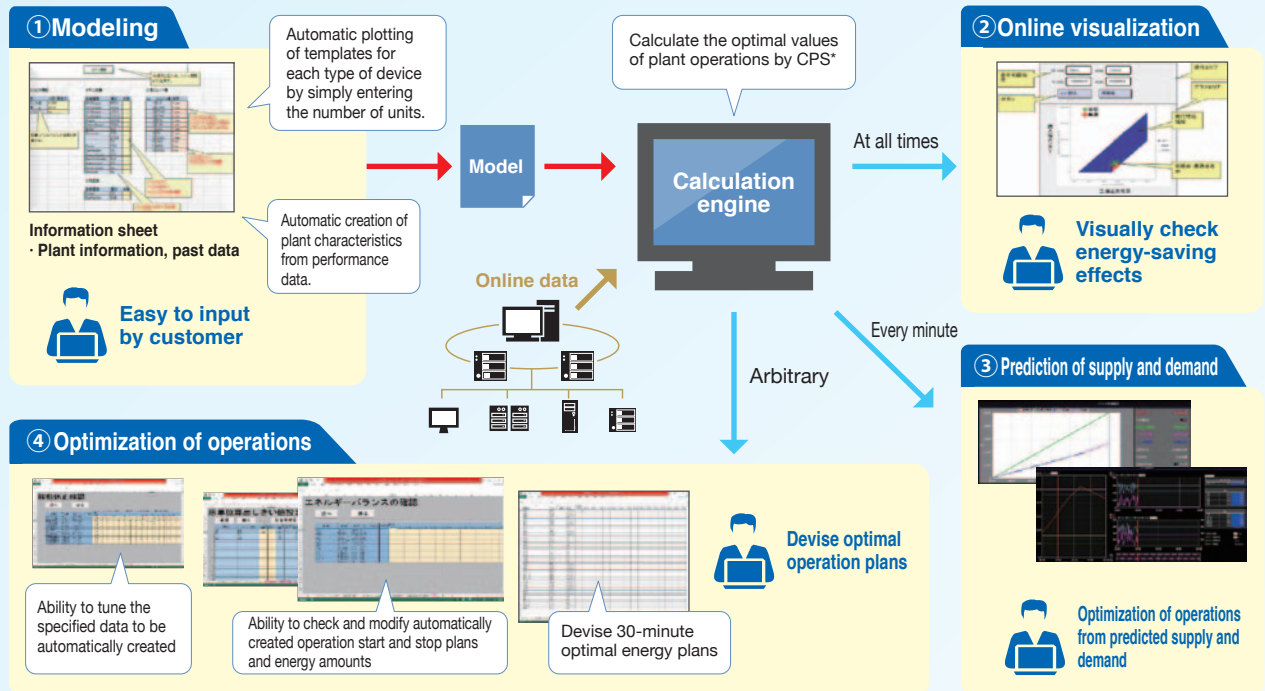
【Benefits】

- ✓ Lower initial investment enables installation at an early stage
- ✓ Visualization of areas where energy conservation can be improved enables optimal operations
- ✓ Automatic generation of optimal models from plant information and past operating data records
- ✓ Easy operation using Excel sheets



【System features】

Equipped with functions to visualize possible energy savings and guidance on optimization of operations. Applicable to factories that utilize by-product fuels and boilers.

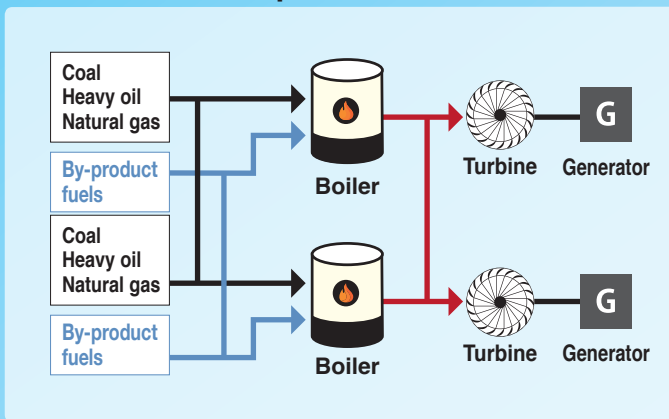


*CPS: An abbreviation for cyber-physical system, an advanced system that connects information technologies to physical devices and machines.

【Functional overview】

Function	Overview
① Modeling	Create models easily by entering the plant configuration, supply and demand plan, facility information, and restrictions into Excel sheets.
② Online visualization	Estimate the effects of installation using analysis tools. Use computer algebra technology to clearly visualize comparisons with existing conditions.
③ Demand forecast	Automatically predict the future energy balance by understanding the operating state from plant data
④ Optimal operations	Create energy allocation plans and output guidance for optimal operations as graphs

【Installation example】



Support for optimization of operations is possible if any one of these applies:

- ✓ Multiple fuels can be supplied to multiple boilers.
- ✓ Reusable energy is generated during product manufacturing processes. (For example: by-product gas, by-product oil, etc.)
- ✓ The generated main steam can be supplied to multiple turbines.

For needs such as these:

- We want to get started quickly and cheaply.
- We can get by with only guidance.
- We want to do it easily using Excel software.
- We want to try doing it by ourselves.

【System configuration】

