

Demonstration Projects with the Aim of Developing
Joint Crediting Mechanism FY2013

JCM Demonstration and Verification Project

Utility Facility Operation Optimization Technology In Indonesia

New Energy and Industrial Technology Development Organization (NEDO)
Azbil Corporation

JCM Demonstration Project

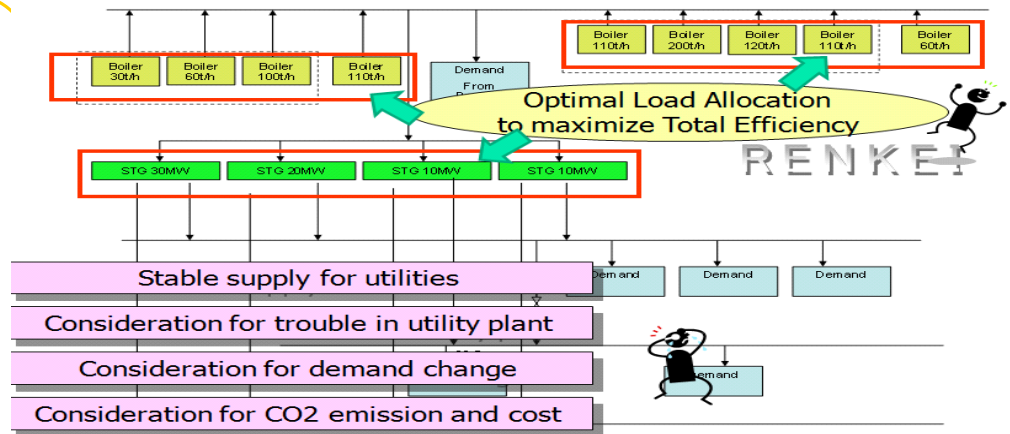
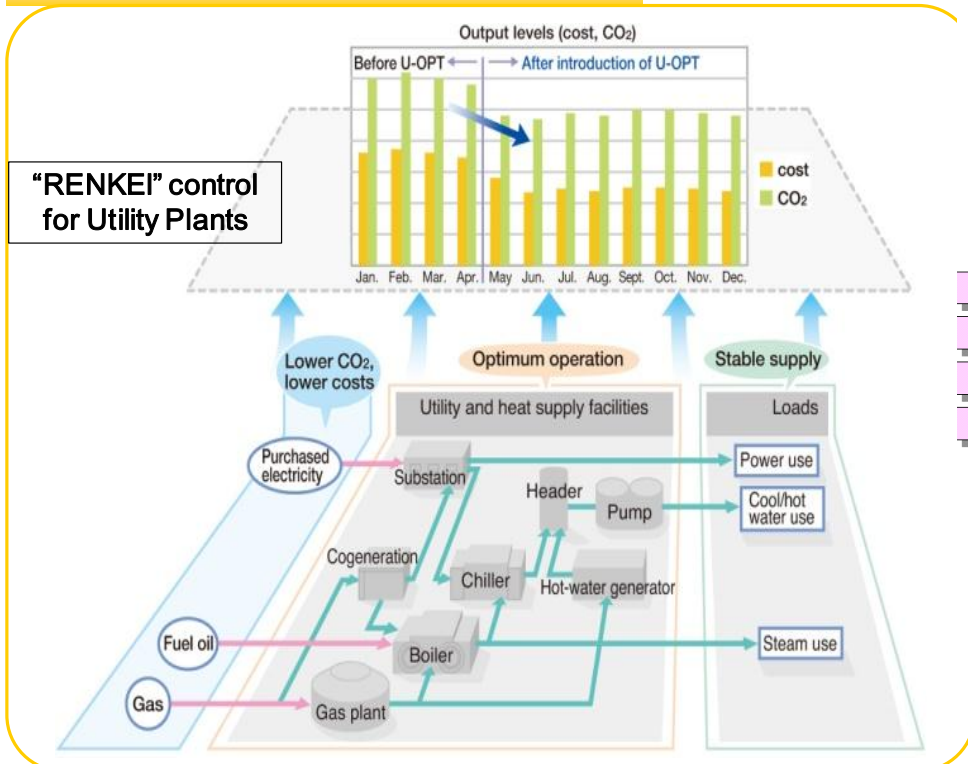
Operation Optimization in Utility Facility (“RENKEI” Control)

Summary

– Utility Facility Operation Optimization Technology is the “RENKEI” control, which is a Japanese leading-edge technology. By using optimization technology, the system determines the optimum selection of and the optimum load allocation for utility equipment, such as boilers, steam turbines, and chillers used in utility facilities, in order to minimize CO₂ emissions without any change of utility facility hardware. This technology will realize a great amount of CO₂ reduction.

Country	Indonesia
Contract company	Azbil Corporation
Project Site	PT. Pertamina Cilacap Refinery (Central Jawa)
Counterpart Ministry	Ministry of Energy and Mineral Resources
Expected Fuel reduction	800 TJ/year reduction
Targeted GHG Emission Reduction	55,000t-CO ₂ /Y

Summary of Introduced Technology



Outline of Project

- ① Create a PDD, certified by TPE
- ② Development of power facilities-linkage system
- ③ Connect to Pertamina's existing power control system
- ④ Baseline calculation for this project, development of CO₂ reduction program
- ⑤ Dissemination activities (Training for energy-saving diagnosis for improvement of facilities operations)