

Deployment of IoT at Combined Cycle Power Plant in Sodegaura-city, Chiba Prefecture
-start to study deploying IoT at Marubeni's global power assets -

Marubeni Corporation ("Marubeni") has agreed to deploy Predix, an IoT platform for power plant solutions developed by GE Power ("GE"), at Nakasode Clean Power ("NCP"), a combined cycle power plant in Sodegaura-city, Chiba Prefecture. Installation work will start in April 2017 and full operation is planned to start in March 2018.

NCP will be connected to Asset Performance Management ("APM") and Operation Optimization ("OO") software which are dedicated applications for the predictive maintenance and improvement of operational efficiency. The information acquired through sensors installed in the equipment is analyzed through machine learning based on factual and experimental knowledge and artificial intelligence (AI). It will be visualized on a real-time basis and will contribute to the quick and highly accurate decision-making. Optimization of plant operation will be realized through Predix and NCP is looking to increase revenue and reduce cost.

Marubeni owns more than 11GW in 23 countries and is engaged in the operation of power plants. Marubeni accumulates experience and know-how through NCP and is considering applying them across its entire electric power business for power generation and retail business in England, Japan and other Asian countries. Marubeni analyzes market conditions, through the deployment of IoT, aims to achieve more efficient power generation, procurement and retail sales of electricity across its entire power business portfolio, and will enhance profitability.

<Nakasode Clean Power Overview>

Headquarters	7-1, Nihonbashi 2-chome, Chuo-ku, Tokyo, 103-6060, Japan
Representative	President & CEO Takeshi Yamamoto
Equity	Marubeni Thermal Power Co., Ltd. *100% (*:Marubeni's wholly-owned subsidiary)
Location	Sodegaura-city, Chiba Prefecture
Capacity	100MW
Generation	Combined Cycle Gas Turbine
Main Equipment	2 Gas Turbines, 1 Steam Turbine and 3 Generators
Commercial Operation Date	January, 2008



<GE Power Overview>

Headquarters	New York, United States
Representative	President & CEO Steve Bolze
Foundation	1892 (GE's core operation. The company name "GE Power" is used from 2015.)
Business	Heavy Industry