

# Press release

Kagoshima, Japan, June 3, 2021

## Siemens Energy Performed First Remote Outage for Steam Turbines

- Successful remote outage for a NPP in Sendai, Japan – the first worldwide for Siemens Energy.
- Demonstrates the project team's commitment and dedication in ensuring that customer's needs are met despite the time-zone difference
- Underscores the strengths of digitalization backed by real-time technical support when on-site assistance could not be rendered due to COVID-19 travel ban

The first remote outage was successfully performed and completed for 2 units of an 890MW Sendai NPP in Japan together with Marubeni Utility Services, which is a partner of Siemens Energy in Japan's nuclear industry while Siemens Energy Japan provides strong support from Sendai. As Siemens Energy is the Original Equipment Manufacturer (OEM), the project team was entrusted to supervise the inspections performed by Nishinippon Plant Engineering and Construction Co Ltd, a subsidiary of Kyushu Electric Power Co Inc, for two units of the LP Turbine. The works involved assembling and disassembling the turbines under close supervision, fact-finding inspection and remote recommissioning including vibration assessment during shut down and restart. Remote balancing has been duly planned but was not needed during restart due to the good vibration behavior of the turbine.

The customer's high demand for data security worked very well in underscoring Siemens Energy's strength in cybersecurity and enhanced digital capabilities that include setting up live streams for immediate support and monitoring of works. A joint outage approach was also carried out in which the project team from Germany worked the night shifts to ensure availability for the customer throughout their normal work hours during the day. By accommodating the customer's time and keeping up the service support, it demonstrated the project and local teams' and commitment and fervor to exceed expectations for this contract that was awarded to Siemens Energy. This further solidifies the long-standing relationship and trust that is shared between all parties.

Due to the travel ban imposed from the COVID-19 pandemic, onsite supervision could not be performed and were fully dependent on total remote settings and virtual alignment. By understanding the customer's pain points, Siemens Energy managed to resolve the issues with its technological competencies and transformed challenges into opportunities that led to this breakthrough outage performance as the first global success in exclusively remote approach.

"This outage inspection has been carried out for about half a year not only under immigration restrictions from overseas but also under strict prevention of COVID-19 infection. We would like to thank Marubeni Utility Services and Kyushu Electric Power for their cooperation in completing the construction without delay over this long period of time. In the future, we will make use of this knowledge and achievements to further improve our services and strive to win the trust of our customers." said Mr Yasuhiko Otsuki, Managing Director of Siemens Energy K.K., Japan.

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