

Press release

Dubai, November 23, 2020

Siemens Energy to upgrade and expand services at Jebel Ali L2 power and water station in Dubai

- Integrated 20-year long-term service agreement includes intelligent gas turbine controller, jointly developed by DEWA and Siemens Energy
- Upgrade to the latest SPPA-T3000 power plant control system
- Additional 33 BOX upgrades for gas turbines and generator services added

A new package of enhanced energy services from Siemens Energy will supply Dubai Electricity and Water Authority's (DEWA) Jebel Ali L2 power and water station with the latest advancements in power plant service, maintenance, and controls. Under terms of the new long-term service agreement, Siemens Energy will supply an intelligent controller for each of the four SGT5-4000F gas turbines, the latest SPPA-T3000 control system, services for generators, as well as added upgrades for outage reduction and operational flexibility.

The intelligent controller was co-developed by DEWA and Siemens Energy in 2019 and was the world's first thermodynamic Digital Twin Gas Turbine (GT) Intelligent Controller. The controller uses Artificial Intelligence (AI) and Machine Learning to systematically give power plant operators a complete and continuous overview and scenario-based assessment of power plant operations.

Developed and manufactured by Siemens Energy, the upgraded SPPA-T3000 control system features online patch update capabilities which enables continuous, safe plant operations during the update as it doesn't require system shutdown. By having all equipment running on one

Contact for journalists

Amy Pempel

Phone:

+1 407-408-1932

E-mail:

amy.pempel@siemens.com

Siemens Energy AG
Communications
Head: Robin Zimmermann

Otto-Hahn-Ring 6
81739 Munich
Germany

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control system, it also enhances planning for maintenance services and management of spare parts.

Upgrades for the SGT5-4000F gas turbines will enable interval extension between outages providing increased operational flexibility, allowing for a higher number of starts and reduction of outages by approximately 25 percent.

“DEWA is consolidating its leading position, both nationally and globally, by providing electricity and water services to the highest international standards of reliability, efficiency, availability and safety,” said Nasser Lootah, Executive Vice President of Generation at DEWA. “Our strategic partnership with Siemens dates back over 30 years. Siemens Energy’s technologies contribute to around 53% of DEWA’s total generation capacity, enough power for more than 2.5 million residents in Dubai.”

Karim Amin, Executive Vice President of Siemens Energy, Generation Division, said, “This new agreement underscores the longstanding relationship we have with DEWA and the successes we’ve achieved together in bringing our advanced technologies and services to DEWA’s water and power facilities. We look forward to continuing this collaboration for many years to come.”



Pictured: Siemens SGT5-4000F gas turbine

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This press release and a press picture are available at

<https://bit.ly/3kEEa2r>

For further information on Siemens Energy's intelligent controller, please see <https://bit.ly/3loWbCt>

For further information on the SPPA-T3000, please visit <https://bit.ly/sppa-t3000>

For further information on Siemens Energy, please see www.siemens-energy.com

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