

Siemens supplies HL-class power island to South Korea

- **First order from Asia for HL-class gas turbine**
- **New power plant with a capacity of more than one gigawatt**
- **Efficiency rating of more than 63 percent**

Siemens will set up a high-efficiency HL-class power island for a new combined cycle power plant (CCPP) in South Korea. This will be the first two state-of-the-art HL-class gas turbines that Siemens will supply to a customer in Asia. The new plant, which will be built in Yeosu, in South Korea's Gyeonggi Province, will run on regasified liquefied natural gas (LNG) and offer a generating capacity of more than one gigawatt. With a maximum efficiency rating of more than 63 percent the gas turbine will allow the power station to get the most out of the valuable LNG for electricity generation, enabling especially economical and environmentally friendly operation. The customer is South Korean EPC SK Engineering & Construction Co., Ltd., which is constructing the entire plant for the independent power producer Yeosu Energy Services.

"The very high efficiency of our innovative HL-class technology makes it perfect for South Korea," says Andreas Pistauer, Head of Power Generation Asia and Pacific at Siemens Gas and Power. "The country has to import its entire gas requirement in the form of LNG by sea at huge cost, therefore higher efficiency ratings mean major financial benefits."

"We're happy the Yeosu project gives us the chance to work with Siemens once again," says Harrison Lee, Senior Executive Vice President of SK Engineering & Construction. "Our collaboration on the Paju (Jangmoon) and Wirye projects has proven that we can construct highly efficient and high-performance power stations

safely and reliably. Utilizing Siemens' new HL-class technology, we are convinced that the resulting combined cycle power plant will provide especially economical and reliable energy."

Yeoju is designed as a multi-shaft CCPP, in which two gas turbines and one steam turbine will each drive their own generator. Siemens' power island concludes two SGT6-9000HL gas turbines, one SST6-5000 steam turbine, three SGen6-2000P generators, two heat recovery steam generators, and the SPPA-T3000 distributed control system. The plant has a capacity of 1,004 megawatts. The commissioning is scheduled for mid-2022.

Power stations that will use the new Siemens HL-class gas turbine are currently under construction in North Carolina and Mississippi in the US, and in Lincolnshire in the UK. Yeoju is the fourth order Siemens has received for its HL-class, and the company has now sold a total of five machines of this type. The Siemens HL-class is based on the proven design of the SGT-8000H series of gas turbines, and benefits from the extensive experience gained with this type, which has now accumulated more than one million service hours around the world.



Two SGT6-9000HL gas turbines, a steam turbine and three generators will produce electricity at the new combined cycle power plant in Yeoju, South Korea.

This press release and a press picture are available at

www.sie.ag/2PTT5d9

For further information on Siemens Gas and Power, please see

www.siemens.com/energy

For further information on the SGT6-9000HL-Gasturbine, please see

www.new.siemens.com/global/en/products/energy/power-generation/gas-turbines/sqt6-9000hl.html

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