

Press release

Lomé, September 30, 2020

Siemens Energy helps Togo meet almost 40% of electricity demand

- Providing gas turbine and other key components for the 65 MW combined cycle Kékéli Efficient Power plant project
- Project will improve access to cleaner energy and improve grid stability in the country
- Plant will eventually be fully staffed by Togolese citizens

Siemens Energy has successfully delivered a SGT-800 gas turbine to the site of Kékéli Efficient Power S.A., as part of their development of the 65 megawatt (MW) combined cycle power plant in the Republic of Togo, supporting improved access to reliable and affordable energy in the West African nation.

The turbine was built by Siemens Energy in Finspång, Sweden, and shipped to Togo by sea, to form the core of the combined cycle power plant. Located in the capital Lomé, the 65 MW plant will cover almost 40% of the country's expected demand at completion, whilst creating job opportunities for Togolese citizens.

The turbine delivery follows a competitive bidding process which led to the signing of a memorandum of understanding, in October 2018, between the Republic of Togo, Siemens Energy, Pan-African industrial group Eranove, and EPC partner TSK Group, to successfully develop the country's first gas-fired combined cycle power plant. This Independent Power Producer (IPP) project represents the first time an IPP has been entirely financed by African financial institutions.

During the groundbreaking ceremony that took place last year, the Energy Minister Ably-Bidamon had said: "The construction of this thermal power plant

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will comply with all environmental norms fighting against greenhouse effects and harmful effects of climate change.” He also had stressed how this power plant will contribute to Togo’s ambition to achieve 100% electrification by 2030, up from 45% back in 2018. With assistance from Siemens Energy, this ambition is becoming reality.

“We are proud to be following through on our commitment to the people of Togo to provide affordable and reliable power sources while also moving toward an environmentally sustainable and financially accessible baseload energy production,” said Marcus Nelle, Senior Vice President of Sales for Africa at Siemens Energy. “Due to its flexibility, the unit will contribute to the stabilization of the power grid in Togo and enable easier integration of renewables into the grid.”

The Kékéli project is aligned with the goals of the new National Development Plan (NDP), of meeting the nation’s growing electricity needs at an affordable cost. It will help reduce Togo’s reliance on less efficient heavy fuel oil (HFO) reciprocating engines power plants in the local energy mix and reduce CO₂ emissions. For each unit of electrical energy produced, natural gas-fired combined cycle power plants produce over 20% less CO₂ than the HFO power plants previously dominating Togo’s energy mix. Even when operating on natural gas, reciprocating engines emit high quantities of unburnt hydrocarbons (e.g. methane), which are extremely powerful greenhouse gases. These emissions are negligible for gas turbines. Kékéli Efficient Power is thus a big step for Togo towards an environmentally sustainable energy mix.

Eranove and Siemens Energy are committed to ensuring the long-term maintenance of the power plant in order to provide reliable energy to the Togolese people.

Through the development of training in management, operations and maintenance, the power plant will eventually be fully staffed by Togolese citizens.

The Kékéli project will make use of Togo's gas infrastructure to serve as a proof of concept that gas fired power plants can be a reliable, economical, efficient and decarbonizing alternative to HFO. At the time of start-up, Kékéli Efficient Power will be the most efficient power plant of its range and the smallest combined cycle power plant with Siemens Energy gas turbines in sub-Saharan Africa. It will also provide energy security for Togo as the SGT-800 can be fueled by natural gas supplied from the West African Pipeline, or by liquefied propane gas.

With more than 370 units sold worldwide, the SGT-800 has a proven, longstanding track record of successful installations around the world, and is perfectly suited for base and intermediate load as well as grid support.

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