

GE Vernova's Hydro Power business completes first unit upgrade at Qairokkum, Tajikistan

Paris, France - September 20, 2023: GE Vernova's Hydro Power business has completed the upgrade of the first of six Kaplan turbine and generator units at the Qairokkum hydropower plant in Tajikistan.

Following the refurbishment process, the 21 MW unit has been upgraded to a capacity of 29 MW and is now connected to the grid. The output of each of the six refurbished units will increase from 21 MW to 29 MW, bringing the total capacity of the plant to 174 MW.

This over 60-year old hydropower plant located on the river Syr Darya is the only power plant located in the northwestern province of Sughd and the sole source of electricity for about 500,000 people in the province. The refurbishment activities will help extend the lifetime of the plant and its capacity to deliver even more clean and sustainable energy to Tajikistan.

GE was selected with Barki Tojik to refurbish the six Kaplan units at the state-owned Qairokkum hydropower plant. The scope of work includes the upgrade of the six turbines and generators, as well as part of the balance of plant and site supervision for its supplied equipment. GE Vernova leads the consortium which, with Cobra - a division of ACS Group, a Spanish company - will refurbish the Qairokkum hydropower plant. The plant is expected to be fully modernized by mid 2025.

As 90% of Tajikistan's electricity comes from hydropower, it is critical to adapt existing and new hydropower assets to future operation conditions. Qairokkum was chosen to pilot how a plant can enhance its performance through rehabilitation. Thanks to an improved design of the turbines, the plant will not only be able to produce more energy but also address variations of water flow in the region.



Bodo Mayer, Hydro Power EMEA Leader, GE Vernova, said *"The work done in Tajikistan on making hydropower plants climate resilient is essential for our industry's future and the global energy transition that we all support. We are extremely honored to contribute to this project and for the completion of the first unit's rehabilitation. This remarkable boost in capacity sets the stage for even greater clean energy production as we prepare to bring five more units online."*

Hydropower projects are set to be operational for the very long term, meaning that the projects will provide a large amount of renewable energy for several generations to come. A typical hydropower facility can have an operating life of more than a hundred years, if maintained regularly, without having to re-build dams.

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About GE Vernova

GE Vernova is a planned, purpose-built global energy company that includes Power, Wind, and Electrification segments and is supported by its accelerator businesses of Advanced Research, Consulting Services, and Financial Services. Building on over 130 years of experience tackling the world's challenges, GE Vernova is uniquely positioned to help lead the energy transition by continuing to electrify the world while simultaneously working to decarbonize it. GE Vernova helps customers power economies and deliver electricity that is vital to health, safety, security, and improved quality of life. GE Vernova is headquartered in Cambridge, Massachusetts, U.S., with more than 80,000 employees across 140+ countries around the world. GE Vernova's **Hydro Power** business produces advanced technologies that harness the power of water to help deliver reliable power to some of the world's largest economies and remote communities.

GE Vernova's mission is embedded in its name - it retains its legacy, "GE," as an enduring and hard-earned badge of quality and ingenuity. "Ver" / "verde" signal Earth's verdant and lush ecosystems. "Nova," from the Latin "novus," nods to a new, innovative era of lower carbon energy. Supported by the Company Purpose, *The Energy to Change the World*, GE Vernova will help deliver a more affordable,



reliable, sustainable, and secure energy future.

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