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EANS-News: ANDRITZ to supply two pump turbines for the Hatta Pumped Storage Power Plant in Dubai

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Company Information

Graz/Vienna - OCTOBER 3, 2019. International technology group ANDRITZ has signed a contract - as part of a consortium with the European construction group STRABAG - with Dubai Electricity and Water Authority (DEWA) to supply and commission the entire electro- and hydro-mechanical equipment for the Hatta Pumped Storage Power Plant located in the Hajar Mountains 140 km southeast of the city of Dubai. Startup is expected for the first quarter of 2024. The contract value for the electro- and hydro-mechanical equipment is more than 100 million euros.

ANDRITZ will provide the electromechanical equipment for two 125 MW Francis-type pump turbines with double-fed asynchronous generators and auxiliary systems, all gates and trashracks, 320 m of penstocks, main inlet valves, main power transformers, GIS switchyard, and high-voltage cables to connect the new power plant to the national grid. A detailed model test to guarantee the characteristics of the turbine will be conducted in ANDRITZ's own test laboratories.

Hatta will be the first project of its kind on the Arabian Peninsula. The final concept is based on a shaft-type powerhouse close to the existing hydro reservoir, capable of providing 250 MW for six hours. Due to the relatively limited reservoir capacity, the available head will vary significantly between 175 and 125 m during the cycle. To overcome this substantial variation in head but still keep the units running at a high efficiency level over the complete cycle, both pump turbine units are equipped with double-fed asynchronous motor-generators, allowing the units to operate at variable speed.

Dubai has the clear goal to diversify the emirate's energy mix and increase the share of renewable energy from the current level of 7 to 75% by 2050. To achieve this ambitious target, DEWA decided not only to increase the share of power generation from renewable sources, like photovoltaics and wind power, but also to build the necessary hydro-pumped storage capacity required to balance the volatility of these renewable energy sources.

ANDRITZ is one of the few global suppliers to have reference projects and expertise for such specific technologies. Award of this order is a very important milestone for ANDRITZ and its consortium partners because this prestigious contract is considered a lighthouse project for DEWA and the entire region. In securing this contract, ANDRITZ has once again confirmed its position as a leading supplier for electromechanical equipment in the hydropower industry.

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ANDRITZ GROUP

ANDRITZ is an international technology group providing plants, systems, equipment, and services for various industries. The company is one of the technology and global market leaders in the hydropower business, the pulp and paper industry, the metal working and steel industries, and in solid/liquid separation in the municipal and industrial segments. Other important fields of business are animal feed and biomass pelleting, as well as automation, where ANDRITZ offers a wide range of innovative products and services in the IIoT (Industrial Internet of Things) sector under the brand name of Metris. In addition, the company is active in power generation (steam boiler plants,

biomass power plants, recovery boilers, and gasification plants) and environmental technology (flue gas and exhaust gas cleaning plants) and offers equipment for the production of nonwovens, dissolving pulp, and panelboard, as well as recycling plants.

ANDRITZ stands for passion, partnership, perspectives and versatility - core values to which the company is committed. The listed Group is headquartered in Graz, Austria. With almost 170 years of experience, 29,600 employees, and more than 280 locations in over 40 countries worldwide, ANDRITZ is a reliable and competent partner and helps its customers to achieve their corporate and sustainability goals.

ANDRITZ HYDRO

ANDRITZ Hydro is one of the leading global suppliers of electromechanical equipment for hydropower plants. With over 175 years of accumulated experience and more than 31,000 turbines installed, totaling approximately 430,000 megawatts output, the business area provides the complete range of products, including turbines, generators, and additional equipment of all types and sizes - "from water to wire" for small hydro applications to large hydropower plants with outputs of more than 800 megawatts per turbine unit. ANDRITZ Hydro has a leading position in the growing modernization, refurbishment, and upgrade market for existing hydropower plants. Pumps (for water and waste water management such as irrigation, drainage, desalination, or water transport, as well as for various other applications in a wide range of industries) and turbogenerators for thermal power plants are also assigned to this business area.

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