

CIKANDANG, INDONESIA

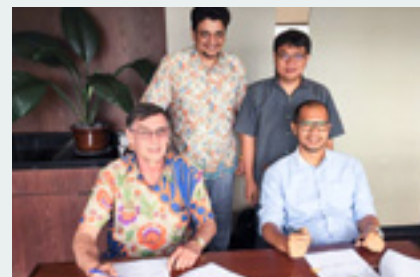
An additional 35 GWh of stable power per year for West Java

ANDRITZ Hydro has signed a contract for the electro-mechanical equipment for the 6-MW Cikandang hydropower project in Indonesia. The contract is with PT Republika Mandiri Energi, a special purpose company of PT Bukaka Teknik Utama, a renowned limited company listed on the Indonesia Stock Exchange (IDX). This

company already runs several hydropower plants in Indonesia.

The scope for ANDRITZ Hydro for Cikandang includes design, engineering, manufacturing and supply, as well as supervision of installation and commissioning of the complete electro-mechanical equipment for the plant. A consortium of ANDRITZ Hydro Indonesia and ANDRITZ Hydro India will execute the project. Cikandang is scheduled to commence commercial operation in September 2020.

The Cikandang project is located in Garut Regency, West Java, Indonesia, and will utilize the Cikandang River to produce electricity. A 20 kV transmission line from this plant will be interconnected with the JTM PT PLN (Persero) network and to the Garut Regency of Indonesia. Estimated annual energy production of the plant is 35 GWh with a 67% plant capacity factor. Indonesia's government has projected



electricity demand growth of 6.87% per annum. During the next decade, the government aims to add 56,024 MW of power plants, where the renewable energy contribution would be 23% of the total.

ANDRITZ Hydro will continue to contribute to the stable power supply in Indonesia and to expand the supply of high-efficiency power generation systems. With this order, ANDRITZ Hydro has once again strengthened its leading position in the Indonesian hydropower market.

AUTHOR

Mohanty Itishree
hydronews@andritz.com

TECHNICAL DETAILS

Total output: 6 MW
Scope: 3 × 2 MW
Voltage: 6.3 kV
Head: 45.38 m
Speed: 600 rpm
Runner diameter: 878 mm

KAMOLOT, UZBEKISTAN

First order for Compact Hydro in Uzbekistan

Uzbekistan has a wide network of irrigation canals, which were built at the beginning of the 20th century. It represents a significant untapped hydropower potential. A plan for a hydropower station to use this potential was formed early last century and in 1939 some basic structures for the powerhouse of Kamolot were built. In 1982, further construction measurements were implemented, but the power station was never completed.

ANDRITZ Hydro has now received the order from the Chinese enterprise group Dongfang Electric International Corporation (DEC) for the complete electro-mechanical equipment of this plant. DEC is acting as the main contractor for the end customer, JSC Uzbekhidroenergo, an Uzbek state-run utility.

The scope of supply for ANDRITZ Hydro comprises four identical Bevel Gear Bulb

turbines with a runner diameter of 2,150 mm and a rated power output of 2.13 MW each. The contract also includes synchronous generators, hydraulic power units, cooling water system, as well as a package of controls and automation. Transportation to site, supervision of installation and commissioning are also part of the contract.

The first two of the four turbines were commissioned in October 2019.

AUTHOR

Hans Wolfhard
hydronews@andritz.com

TECHNICAL DETAILS

Total output: 8.5 MW
Scope: 4 × 2.13 MW
Head: 7.77 m
Voltage: 6.3 kV
Speed: 217 rpm
Runner diameter: 2,150 mm

