

SOUTH KOREA

NAMGANG

Experience further content



Output increase of about 20%.

At the end of 2016, ANDRITZ HYDRO received an order from Korea Water Resources Corporation (K-water) for the turnkey refurbishment of the existing Namgang hydro-power plant in South Korea. The project site is located some 100 km west of Busan, South Korea's second largest city.

ANDRITZ HYDRO is the main contractor, being responsible not only for the entire electro-mechanical scope of supply, but also for the disassembly of the old turbine equipment, the necessary civil work structure for the new turbines, Electrical Power Systems (EPS) and mechanical auxiliary equipment. After refurbishment, HPP Namgang will be equipped with two Compact

Axial Bulb turbines – each with a runner diameter of 2,850 mm and a power output of 9 MW. This represents an increase in power output of about 20% over the old turbines.

Along with the previous delivery of 14 Bevel Gear Bulb turbines for the “Four River Restoration Project” in 2011 and 2012, the order for HPP Namgang is an additional important reference for the Compact Hydro business unit of ANDRITZ HYDRO, further strengthening the market position of the company in South Korea.



Technical data:

Total output:	18 MW
Scope:	2 x 9 MW
Voltage:	6.6 kV
Head:	17.88 m
Speed:	240 rpm
Runner diameter:	2,850 mm

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PERU

CARHUAC

Minimizing environmental impact.

Carhuac is a 21 MW hydroelectric power plant in Peru using the waters of the River Santa Eulalia, one of the two main fresh water supply streams of the capital city Lima.

Located about 115 km east of Lima, the project is being developed by Andean Power SAC, a company associated with the Austrian development company Carbon Projektentwicklungs GmbH in partnership with Hidroelectrica Bolivana.

Andean Power SAC awarded an EPC-contract to GCZ Ingenieros SAC including a “from water-to-wire” package, which was subsequently awarded to ANDRITZ HYDRO France. The scope of supply from ANDRITZ HYDRO comprises turbines, generators, main inlet valves, hydraulic pressure units,

cooling water system, MV switchgear, automation and SCADA systems, AC/DC auxiliary systems, and a diesel generator.

As a run-of-river plant, involving no dams or impounding of water, the Carhuac hydro-power station is designed for minimal environmental impact. Surrounding communities are also benefitting from the project implementation and its operation with



job offers and local procurement, as well as the establishment of multiple social development programs.

Contract execution is proceeding according to schedule, with equipment expected to be delivered after 12 months. Commercial operation is anticipated to commence at the beginning of 2018.

The successful execution of this project establishes a path for closer cooperation on further projects with this customer. ANDRITZ HYDRO is looking forward to supporting further Austrian investment in Peru.

Technical data:

Total output:	21 MW
Scope:	10.5 MW
Head:	155.46 m
Speed:	600 rpm
Runner Diameter:	1,070 mm

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