

SITE REPORTS

LOWER KALEKÖY

IN TOTAL 550 MVA

TURKEY – As a member of an international consortium, ANDRITZ Hydro has secured a contract for electro-mechanical equipment destined for the Lower Kaleköy hydropower plant in Turkey.

The privately owned company Kalehan Genç Enerji Üretim A.S., part of the Kalehan Energy Group, selected ANDRITZ Hydro to design, manufacture, install and commission three 186 MVA generators for HPP Lower Kaleköy.

Each of the three main generators for the plant, located on the Murat River in Bingöl Province, weighs more than 700 t. Moreover, the contractual scope of work covers excitation and monitoring systems for the three main units, as well as for an environmental unit which will generate power from ecological water flows. Two ANDRITZ Hydro locations are involved in the project execution. Core components are to be manufactured in Weiz, Austria, whereas additional generator parts and installation

services are to be performed by the local ANDRITZ Hydro company in Izmir, Turkey.

This project is Kalehan's third in a hydro-cascade along the Murat River, a tributary of the Euphrates River. Previously, ANDRITZ Hydro has supplied mechanical and electrical equipment to the Beyhan-1 hydropower station which is already operating and the HPP Upper Kaleköy, which is currently under implementation and is scheduled to start energy generation in the second quarter of 2018.

The overall output of HPP Lower Kaleköy amounts to 500 MW and the hydropower plant will produce about 1,200 GWh of electrical energy per year, thus providing important support to the Turkish grid. Commissioning of the plant is scheduled for March 2020.

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**Lower Kaleköy | Turkey****Technical data:**

Total output:	500MW
Scope:	3 × 186MVA
Head:	88m
Voltage:	14.4kV
Speed:	166.7rpm
Stator Diameter:	10,400mm
Av. annual production:	1,200GWh