



KARGI HPP

KARGI HYDROPOWER PROJECT



The Kargi hydropower project (HPP) is situated on the Kizilirmak River, downstream Osmancik town in Corum Province. The project is under development by Akel Enerji A.S, a subsidiary of Statkraft Enerji A.S, which is owned 100 % by Statkraft AS, Europe's largest generator of renewable energy. EMRA (Energy Market Board Authority) issued the generation license to build and operate for 49 years in 2007. Construction start is planned to be during winter 2010/2011.

PROJECT DESCRIPTION

The Kargi Dam and HPP was developed by the Turkish General Directorate of Electrical Power Resources Survey and Development Administration (EIE) in order to utilize the energy potential of the Kizilirmak River between the town of Osmancik and the planned Boyabat reservoir (not part of the Kargi project).

To collect water and give sufficient head for power production a 13 metre high dam will be built across the river approximately 10 km downstream Osmancik. This dam will create an artificial lake with a highest water level of 405 meters above sea level up to the city and inundate 3 km² of agricultural land and 1 km² of forestry and state owned land.

The reservoir will have capacity to store approximately 15 hours full production in Kargi HPP. During operation of the

power station the water level may be drawn down 2.5 meters.

The dam will be an approximately 500 meter long earth-fill dam. In the southern end there will be a concrete spillway, while the water intake construction will be on the northern side. From the intake the water will be diverted through an 11.5 km long tunnel to the power house situated east of the village Maksutlu. The water from the power house will flow into the Boyabat reservoir at 330 meters above sea level.

Access to the site will be from the Istanbul – Samsun highway for the dam site and from road 785 for the power house site. Rigging facilities with construction camp for offices, workshops and living quarters will be placed near the sites. During the construction period the number of workers is estimated to be

FACTS AND FIGURES

→ Estimated mean annual production: 470 GWh

The total production capacity equals approximately 1 % of the total hydropower capacity (current) in Turkey.

→ Installed capacity: 102 MW

→ Gross head: 75 m

→ Maximum discharge: 167 m³/sec

→ Height of dam: 13.5 m

→ Type of dam: Earth- fill dam

→ Highest regulated water level: 405 meters above sea level

→ Inundated area: 4 km²

None of the villages in the valley will be flooded.

→ Construction workers (estimated): 400 people



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around 400 people. After construction the number of workers will be approximately 30 persons. The project-owner intends to prioritise the engagement of local staff, both during construction and operation; but the need for special qualifications and experience may make it necessary to use mostly skilled workers from other parts of Turkey.

ACTIVITIES AND TIME SCHEDULE

The tender documents for civil works and electromechanical works were released May/June 2010. The contracts with the selected contractors will be signed after the investment decision in November 2010.

The expropriation process has started and will continue through the winter 2010/2011.

A 16 km long 154 kV transmission line will be built, connecting the power house to Kargi town and the central grid.

Construction will commence as soon as possible after the investment decision, and is planned to be completed by November 2013.

CONTACTS

Interested members of the public or organisations may obtain further details on the project or submit any comments or questions through the contacts listed below.

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