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A contract worth around €20 million

Alstom to supply equipment for Shuakhevi hydropower plant in Georgia

Alstom led consortium¹ has been awarded a contract worth around €30 million to equip the 2 x 89.3 MW Shuakhevi Hydropower plant located in Georgia. Alstom's share of the contract is worth around €20 million Euros. The Shuakhevi hydro power project is part of one of the largest foreign direct investment projects in Georgia to date. The aim of the project is to supply Georgia as well as Turkey with clean renewable energy to meet the peak electricity demand during winter. The power plant is expected to have an installed capacity of 178.6 MW and is expected to be commissioned in 2016.

Alstom's scope of the contract includes the supply and installation of electro-mechanical equipment which consists of 2 vertical Francis turbines of 89.3 MW (each operating at a speed of 600 RPM at the rated head of 396.2 meters), governors, spherical type main inlet valves, 2 three-phase vertical shaft generators with salient pole design, 2 three-phase generator step up transformers, 220kV gas insulated switchyard, overhead electric crane and mechanical & electrical balance-of-plant equipments. The main turbines and generators will be manufactured at Alstom's state-of-the-art Vadodara facility in Gujarat - one of the company's largest hydro manufacturing hubs worldwide, while electrical and mechanical balance-of-plant items will be supplied partially from Alstom's sites based in India as well as in Turkey².

Jacques Hardelay, Alstom's Hydro business Chief Operating Officer, said: *"Being supplier for this prestigious project, Alstom is proud to help Georgia in reducing its carbon footprint through renewable power generation. Alstom will therefore use its technological expertise on this project and will continue to seek new opportunities to challenge the boundaries through technology and innovation."*

The project is being developed by Adjaristsqali Georgia LLC (AGL) [Consortium of Clean Energy Invest AS [Norway], The Tata Power Company Limited [India] and the International Financing Corporation]. AGL plans to build up 3 hydropower plants (HPP) (Shuakhevi HPP, Koromkheti HPP, Kertvisi HPP) in the near future with average annual production of 500-

¹ The Consortium includes - Alstom India Limited, Alstom Power ve Ulaşım A.Ş. (Alstom Turkey), GES Genel Elektrik Sistemleri Yapım ve Mühendislik A.Ş. (GES Turkey) and GES Georgia Limited Company

² This is the second hydro project Alstom's Turkish teams supplied in Georgia after the Paravani hydropower plant (2 x 45,4 MW Francis turbines) project.



1200 GWh. The Shuakhevi HPP is the first project among these three, and will focus intensively on creating a positive social and environmental impact for the population in the region.

About Alstom

Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 93,000 people in around 100 countries. It had sales of over €20 billion and booked close to €24 billion in orders in 2012/13.

About Alstom in India

Alstom is a global leader in power generation, power transmission and rail infrastructure. Present in India since 1911, Alstom has strong capabilities in engineering, manufacturing, project management and supply of products and solutions for infrastructure. Alstom has four R&D centres in India: Transport in Bengaluru, Hydro Global Technology Centre in Vadodara and Grid R&D centres in Hosur & Padappai. It has two engineering centres for Power in Noida and Kolkata and twelve manufacturing units dedicated to: Power - Hydro in Vadodara, Boilers in Durgapur, auxiliary components and air preheaters in Shahabad, Steam turbines in Gujarat, Transport at Coimbatore and SriCity and Grid in Padappai, Pallavaram, Hosur, Vadodara, Naini and Noida

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