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Two hydropower contracts for €180 million in Latin America

An Alstom-led consortium will equip Santo Antonio do Jari hydropower plant in Brazil

Alstom, in consortium with Brazilian engineering companies CESBE and Areva Koblitz, has been awarded an engineering, procurement and construction (EPC) contract worth approximately €310 million by Consorcio Amapa Energia to provide power equipment for the new 373.4 MW Santo Antonio do Jari hydroelectric plant to be built on the river Jari in Brazil's Amazonian region. The plant will be commissioned in late 2014.

Alstom's share of this contract represents more than €100 million, of which around 80% directly for Alstom and 20% for IMMA*. Alstom will supply Kaplan turbines and generators, hydromechanical equipment, lifting equipment, DCS (digital control system), engineering works, erection, supervision and commissioning, for the three units of the plant.

Alstom's Kaplan hydro power turbines will be specifically designed to meet the challenging operating conditions of Santo Antonio do Jari. Santo Antonio de Jari will be a run-of-river hydro power plant, meaning that it uses the river current to produce energy and is therefore subject to large variations in water flow caused by seasonality and high rainfall.

Marcos Costa, Vice-President Alstom Power Latin America, said: *"This contract is a strong endorsement of Alstom's market-leading hydro power technology and project execution capabilities because it requires extremely robust turbines with a large operating range in order to cope with the high river flow variations of the river Jari."*

Hydropower accounts for 85% of Brazil's power production. Alstom, present in Brazil for 55 years, has played a significant role in the development of hydropower in Brazil by providing products and services for hydropower projects like Itaipu, the world's second largest hydroelectric dam, and the projects Tucuruí, Jirau and Santo Antônio, as well as thermal power projects like TermoBahia and ThyssenKrup CSA.

Alstom has supplied over 100 hydro turbines and generators to the Brazilian market over the past ten years, accounting for 35% of Brazil's installed hydro capacity.

* About IMMA

With the purpose of subsidizing hydroelectric projects in Brazil's northern region, through the provision of hydromechanical and lifting equipment for the undertakings of this sector in Amazonia, Alstom, world leader in power and transport infrastructure, has partnered with Bardella, a traditional domestic capital goods company with on-demand engineering, for the construction of Indústria Metalúrgica e Mecânica da Amazônia - IMMA. With an investment of R\$ 90 million, the works, delivered in March 2010, are located in Porto Velho, State of Rondônia, and have 235 thousand square meters of total area and 33 thousand square meters of built-up area. Equipped with operating machines, boilermaking area, gritblasting and painting, the factory has a lifting capacity of 130 tons and production of 12 thousand tons a year.

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Alstom confirms its presence in Peru with an €80 million contract for Chaglla hydroelectric dam

Alstom has been awarded a contract worth just over €80 million by Odebrecht Perú Ingeniería y Construcción to provide power equipment for the new Chaglla hydroelectric dam in Huánuco, Peru, to be commissioned in 2015. With an output of 450 megawatts (MW), Chaglla will be Peru's second largest hydropower plant.

Alstom will supply the complete electromechanical package for the project, which includes a powerhouse with two vertical Francis turbines of 225 MW each, generators and electrical and mechanical auxiliary systems. The scope also includes power transformers and switchyard equipment provided by Alstom Grid, hydromechanical equipment, Digital Control System, telecom and plant protection, as well as a small hydro power plant.

The plant's turbines and generators will be manufactured at Alstom's Taubaté factory in Brazil.

"After the El Quimbo contract in Colombia awarded to Alstom in 2010, the Chaglla contract demonstrates Alstom's strength in Latin America and its willingness to be present in Peru's very promising energy market", said Jérôme Péresse, Sector President, Alstom Renewable Power and Senior Vice President, Alstom Hydro.

Hydropower accounts for 27% of power production in Peru, which is currently diversifying its power generation mix to include more renewable power.

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 92,000 people in around 100 countries, and had sales of €20.9 billion in 2010/11.

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