

Rueil Malmaison, 9 January 2018

VINCI Construction wins a contract to build a pumped-storage hydroelectric plant in Morocco

- A turnkey energy storage project as part of the plan to develop and integrate renewable energies in Morocco
- A €284 million contract

VINCI Construction, as leader of a joint venture with the Andritz Hydro electromechanical company, has won the contract to build the Abdelmoumen pumped storage hydroelectric plant (PSP) located 70 km from Agadir, Morocco.

The €284 million pumped-storage scheme is part of the plan to develop and integrate renewable energies in Morocco. The contract covers construction surveys, civil engineering works, supply of materials and pumping equipment, assembly, testing and commissioning.

The civil engineering works to be carried out by VINCI Construction include earthworks for two reservoirs, excavation for the powerhouse to be embedded in the slope, and installation of the penstock pipe over a distance of 3 km, including 1 km underground. New roads will be built and several others will be refurbished to provide access to the facilities both during construction and during operation of the future site. The electromechanical equipment, for which Andritz Hydro is responsible, includes two 175 MW Francis turbines specially developed in the company's laboratory and a high voltage substation.

A total of 840 people will be recruited for the 48-month project, including 780 to be hired locally. A training programme will be set up to ensure worksite safety and quality.

The Abdelmoumen PSP: a pumped-storage energy solution

The water stored in an uphill tank will be released into a 3-kilometre transfer line (penstock and galleries) and travel on a natural slope to a tank about 550 metres downhill. A 350 MW hydroelectric plant will be built along the penstock between the two reservoirs. The reversible plant will generate electricity when operating in turbine mode and pump water from the lower to the upper reservoir in pumping mode. The system will thus generate renewable energy on demand. The system can be switched between pumping and turbine mode up to 20 times a day, depending on the amount of surplus electricity available or the needs of the Moroccan electricity grid.

VINCI, a long-term benchmark provider in Morocco

In Morocco, VINCI operates primarily via its subsidiaries Sogea-Satom and VINCI Energies. Sogea-Satom subsidiaries Sogea Maroc and Dumez Maroc have been operating in the country for 90 years. Sogea Maroc delivers solutions and services in four business areas (building, engineering structures, industrial civil engineering and hydraulic engineering). Its notable past projects include civil engineering works for the Jorf Lafsar chemical plant and the Renault plant in Tangier and the company is currently building the high-speed railway line stations in Tangier and Kenitra. Dumez Maroc for its part specialises in marine works and recently built the new fishing port in Casablanca. VINCI Energies Maroc began operating in Morocco 70 years ago and is a major provider in the country's electrification programme initiated in 1996. It is also the leading developer of high voltage and extra high voltage electricity generation, transmission, transformation and distribution infrastructure.

About VINCI Construction

VINCI Construction, a global player and European leader, is active on five continents, with more than 68,000 employees and almost 800 companies generating 2016 revenue of €13.7 billion. Structured according to an integrated model, the company has the capacity to intervene over the entire life cycle of a structure (finance, design, construction, maintenance) in eight sectors: buildings, functional structures, transport infrastructure, hydraulic infrastructure, energy, the environment, oil & gas, and mines.

www.vinci-construction.com

About VINCI

VINCI is a global player in concessions and contracting, employing more than 183,000 people in some 100 countries. We design, finance, build and operate infrastructure and facilities that help improve daily life and mobility for all. Because we believe in all-round performance, above and beyond economic and financial results, we are committed to operating in an environmentally and socially responsible manner. And because our projects are in the public interest, we consider that reaching out to all our stakeholders and engaging in dialogue with them is essential in the conduct of our business activities. VINCI's goal is to create long-term value for its customers, shareholders, employees, and partners and for society at large.

www.vinci.com

VINCI CONSTRUCTION SELECTED TO BUILD A PUMPED-STORAGE HYDROELECTRIC PLANT IN MOROCCO



In a joint venture with the
Andritz Hydro
electromechanical company



Contract value
€284m



Turnkey
delivery

48-month
project in the
Abdelmoumen
site, near Agadir

840 people
recruited

An **energy storage**
solution

Goal:

Help ensure Morocco's
energy independence

