

## **Abengoa starts commercial operation of phase two of the Taweelah desalination plant in Abu Dhabi**

- Abengoa has passed the contractual tests of phase two of the Taweelah desalination plant, which has desalinated 83.33 MIGD.
- It is the largest reverse osmosis desalination plant in the world (909,218 m<sup>3</sup>/day, phase one + phase two) and the first in the emirate to combine the production of drinking water with the generation of clean energy.
- It is one of only four desalination plants worldwide to be shortlisted for desalination plant of the year at the Global Water Intelligence's Global Water Awards.

April 21, 2023 - Abengoa, the international company that applies innovative technology solutions for sustainability in the infrastructure, energy and water sectors, in consortium with the company SEPCOIII, has started commercial operation of phase two of the Taweelah desalination plant (Abu Dhabi), following the successful completion of the contractual tests. This is the largest reverse osmosis desalination plant in the world (909,218 m<sup>3</sup>/day) and the first to combine the production of drinking water with the generation of clean energy. The project is located at the Taweelah power and water generation complex, 45 km north of Abu Dhabi (United Arab Emirates).

Specifically, testing for Taweelah group two was successfully completed on April 9. Following the successful completion of the contractual tests, commercial operation of phase two of the Taweelah desalination plant has been declared by our client, the leading developer, investor, owner and operator of power generation and desalinated water production plants, ACWA Power, TAQA and Mubadala.

Previously, in phase one of Taweelah, which entered commercial operation and was delivered to the customer in mid-2022, Abengoa managed to desalinate 450,000 m<sup>3</sup>/day. The plant produces 909,218 m<sup>3</sup>/day (phase one + phase two), making it the world's largest plant in production. The Taweelah desalination plant guarantees supply to the city of Abu Dhabi (approximately four and a half million people) throughout the year and is the first large-scale plant in the emirate to combine the production of drinking water with the generation of clean energy, thanks to the installation of a photovoltaic solar field with a capacity of more than 70 MWp. The project will reduce the energy demand of the desalination plant in a sustainable manner. Furthermore, this project, located on the coast of the Persian Gulf, is part of the plan developed by the government of the United Arab Emirates

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to encourage private participation in the development of the country's infrastructures.

Abengoa's scope of work at the Taweelah plant included the design, engineering, supply of the main equipment, supervision of assembly, commissioning, start-up of the reverse osmosis and post-treatment systems and advice on the pre-treatment processes carried out by third parties. All in all, the Taweelah desalination plant meets each one of the drinking water parameters required by the Emirate of Abu Dhabi, including hardness, alkalinity, LSI (Langelier Saturation Index), SDI (Silt density Index), pH and boron content.

Abengoa once again demonstrates its capacity to develop complex projects from the technical point of view, and to adapt to adverse working conditions, in very diverse countries, providing an optimum response to the client's requirements. It also consolidated its position as a leading company in the desalination sector worldwide, and strengthened its presence in the Middle East, where it has a very extensive portfolio: in Saudi Arabia, the Jubail 3A desalination plant (600. 000 m<sup>3</sup>/day), Rabigh III (600,000 m<sup>3</sup>/day) and Shuaibah III (250,000 m<sup>3</sup>/day), all completed; Dubal (47,750 m<sup>3</sup>/day), in the United Arab Emirates, in operation; and Salalah (114,000 m<sup>3</sup>/day), in Oman, also completed.

## **Taweelah, shortlisted as desalination plant of the year**

The Taweelah desalination plant has been shortlisted as a finalist in the Global Water Awards, organized annually by the prestigious water industry publication, Global Water Intelligence (GWI), in the Desalination Plant of the Year category. The projects are currently being voted on by the magazine's subscribers. The winners will be announced in May, during the Global Water Summit gala.

The organization said of the Taweelah desalination plant that it "represents a historic step towards the decarbonization of the emirate's thermal desalination system. The new IWP (Intelligent Water Project), which uses a solar photovoltaic plant to supply more than 30 % of its energy, will reduce Abu Dhabi's carbon footprint by 2.5 million tons of CO<sub>2</sub> per year, ushering in a new era of sustainable desalination in the emirate."

## **About Abengoa**

Abengoa applies innovative technology solutions for sustainability in the infrastructure, energy and water sectors. ([www.abengoa.com](http://www.abengoa.com))

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