

Abengoa is an international company that applies innovative technology solutions for sustainability in the infrastructures, energy and water sectors. It is currently present in South America, North America, Europe, Africa and Middle East.

## Power

Abengoa has wide experience in the power generation sector with open cycle and combined cycle technologies, cogeneration, wind farms, solar thermal, photovoltaic and biomass plants, that together reach more than 13 GW (2.3 under construction) installed capacity.

The company is worldwide leader in the solar thermal energy sector and counts with its own tower and parabolic trough technology and with unique capabilities of engineering, construction, commissioning and operation and maintenance of solar plants.

It should be noted our high design capacity and hybridization of technologies to offer the best solution to our customers.

## Water

Abengoa is a leading company in the international desalination market and an international benchmark in the construction of hydraulic infrastructures and treatment plants.

It currently has a global capacity to produce 4.3 million cubic meters per day of desalinated water, of which 2.6 million are under construction, by means of more than 30 desalination plants built in 13 countries. It has a global capacity to produce 2.2 million cubic meters per day of drinking water and to treat more than 1.5 million cubic meters per day of wastewater.

Abengoa carries out turnkey projects that encompass the entire value-chain: development, engineering, purchasing, construction, plant commissioning, in addition to offering operation and maintenance.

It is at the forefront of hydraulic initiatives with public and private institutions, for the implementation, improvement and exploitation of regulatory infrastructures, transport (+1,100 km of large pipelines), distribution (+4 M of people served), irrigation (+500,000 ha) and hydroelectric plants (+400 MW installed in more than 40 projects).

Abengoa was responsible for the railway electrification of the Mecca-Medina AVE.



## Transmission and Infrastructure

Leading international contractor in transmission and infrastructures for energy, industry, transport, environment and communications.

Abengoa has built more than 27,000 km of transmission lines all over the world and more than 330 substations in the last 15 years. Currently, interconnection projects are being executed of up to 800 kV for both AC and DC. In the railway sector, more than 4,500 km of railway lines have been electrified and over 80 traction substations have been constructed. The company has a facility and infrastructure division that specializes in all kinds of installations, plants and other buildings (hospital, correctional and administrative facilities, etc.). It also has a production center for electrical panels and electronics and one for the manufacture of metal structures.

## R&D + Innovation

Technological development continues to be Abengoa's key competitive advantage in the undertaking of high added value projects. The company continues to develop R&D and Innovation projects, which improve both the performance of current products and services and the acquisition of new skills. Abengoa has 280 granted patents accumulated since 2008.

### Solar Thermal

Development of more efficient solar thermal plants. Abengoa has its own technology and a worldwide solar thermal installed capacity of 35%.

### Energy Storage

Storage systems to improve the quality of the electricity network and to favor the integration and dispatchability of renewable energies.

### Hydrogen and Fuel Cells

Development of fuel cells, hydrogen production plants and hydrogen service stations for vehicles.

### Aerospace

Electrical and electronic products for the aerospace and defense sectors, as well as the promotion of synergies between space technologies and energy.

## O&M Services

Abengoa provides operation services and implementation of predictive, preventive and corrective maintenance of renewable, conventional and water treatment plants, with the aim of optimizing their reliability, performance and availability, minimizing the consumption of fuels, chemicals and consumables, as well as the emission of greenhouse gases (GHG) and maximize their production. Abengoa's vertical of Services is based on three areas: O&M, O&M equipment and centralized engineering.

Abengoa is a leader in the development and construction of solar thermal power plants worldwide.



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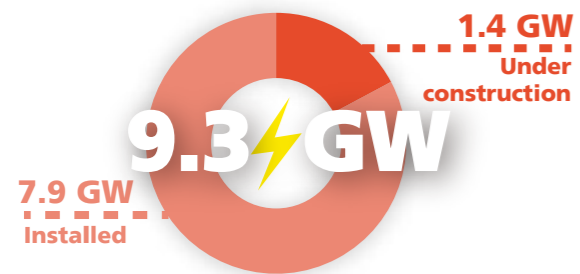
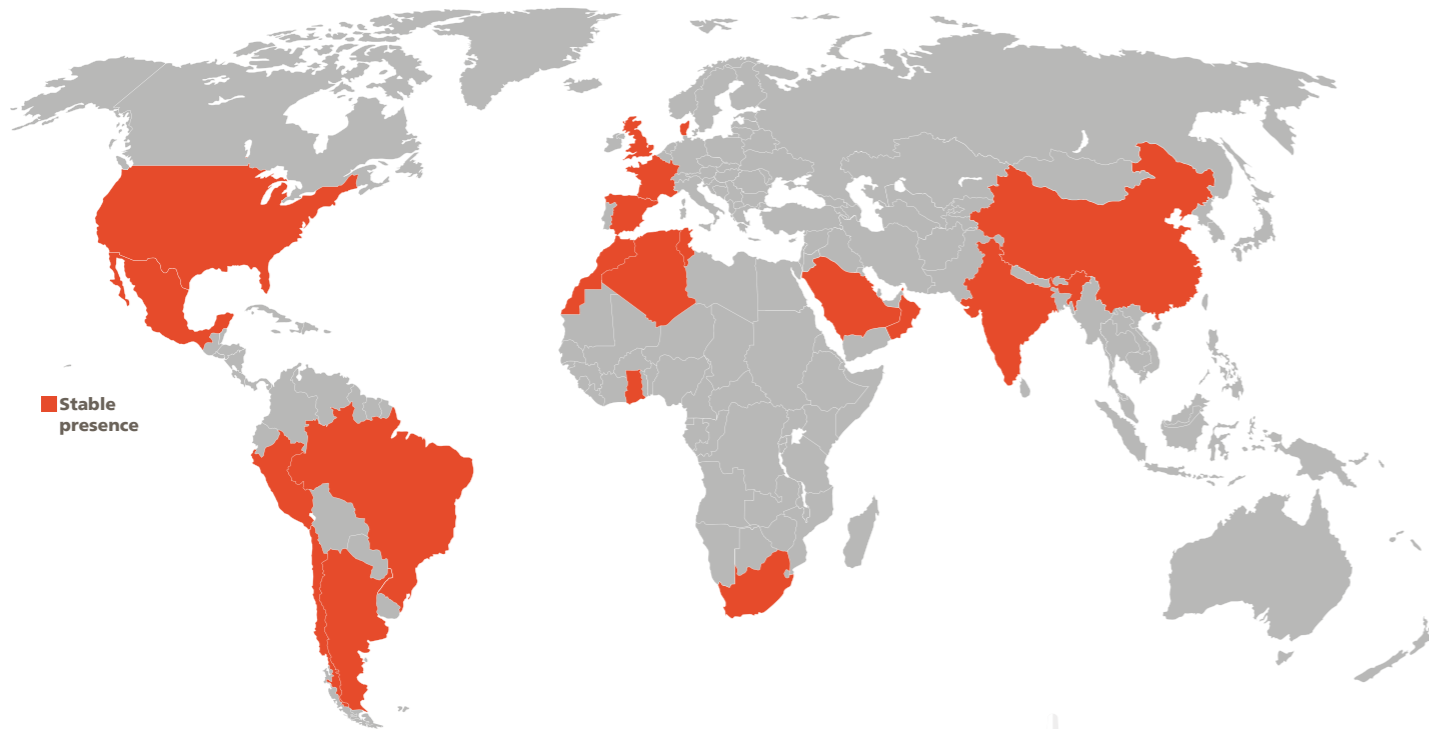
The company is building the largest reverse osmosis desalination plant of the world.

Abengoa is a benchmark in the O&M of solar plants of which it has a commercial experience of 1,631 MW.



www.abengoa.com

# ABENGOA



9.3 GW of installed power in conventional generation plants, of which 1.4 are under construction.



2.3 GW\* solar power constructed, 910 MW under construction, and 480 MW of wind power.  
\*35 % of solar thermal installed capacity worldwide.



+ 27,000 km of transmission and distribution lines and more than 330 substations worldwide over the last 15 years.



+ 1.7 million of m<sup>3</sup>/day of desalinated installed capacity and 2.6 million m<sup>3</sup>/day under construction.

