

Jema in the JT60SA research project in Japan



Jema is awarded the procurement of the power supplies for the JT60SA research project in Japan

This past March, the CEA research centre awarded Jema Energy the contract for the procurement of the JT-60SA superconducting magnet power supplies (SCMPS).

For Japan, the signed contract includes the design, production, transportation, installation and start-up of the toroidal field coil power supply (TF PS) and of four equilibrium field (EF) coil power supplies (EF2, EF3, EF4 and EF5 PS). Furthermore, in order to reduce technical risks on site, Jema will carry out a complete set of tests at full power in the Lasarte-Oria factory before the items are shipped to Japan.

The systems will be delivered to the customer in August 2017.

Jema has extensive experience in supplying custom systems for nuclear fusion laboratories, and it has participated in international projects such as JET and MAST. The company is currently also manufacturing for CEA a high precision power supply for the resolution of the NeuroSpin magnetic resonance imaging system.



What is the JT-60SA?

JT-60SA is a fusion experiment designed to support the operation of the ITER and to research the best way of optimising the operation of fusion power plants built after the ITER. It is an international joint research project involving Japan and Europe, and it will be built in Naka (Japan) using the infrastructure of the existing JT-60 upgrade experiment. SA stands for "super advanced" since the experiment contains superconducting coils and it will study advanced methods for plasma operations.

What is fusion?

Fusion is the energy source of the sun and stars. On the ground, fusion research has the aim of proving that this energy source can be used to produce electricity in a safe and environmentally friendly manner, with sufficient energy resources, to meet the needs of a growing world population.

Ecuador: New photovoltaic projects



This year, Jema will deliver its powerful photovoltaic systems in Ecuador. These two ambitious projects in the region of Manabí, of 30MW and 12MW, will have a solar radiation of 1,737 kWh per square meter and year.

For Jema, this project marks the launch of the new Worldwide Solutions service that supplies and starts-up photovoltaic inverters anywhere in the world. These are turnkey projects in which customers place the entire power portion in the hands of expert engineers at Jema. Depending on the technical specifications of the photovoltaic plant, Jema's engineering team designs a custom solution for each customer. In this case, and

for the two Ecuador projects, several maritime containers will be supplied with the 600 kW photovoltaic inverters, medium voltage systems, security and communications.

These systems offer high performance and efficient cutting-edge technology, and they will inject the power grid with an estimated energy production of 62,181 MWh each year.

Ecuador actively promotes the use of renewable energy as a source for generating clean and lasting energy for the nation's development.



New Jema implementations in Brazil and Mexico

After establishing the first Jema subsidiary in the United States in 2012, the company continues its commitment towards undertaking new markets and large energy projects on the other side of the Atlantic. The new additions this year are Brazil and Mexico, which are previously familiar destinations in the critical power systems area for which Jema has already delivered projects to off-shore oil rigs along Mexico's Pacific coast.

With the aim of strengthening the company's presence in Mexico while offering customers with a closer and more personalised service, Jema has launched its commercial operations in Queretaro, Mexico. Without a doubt, Irizar's infrastructure and solidity in this

country gives JEMA an unbeatable opportunity to achieve its short-term commercial objectives.

Brazil also offers great business opportunities for the company. The economic growth and the increased demand for energy reveal a promising future for the energy sector and critical power system suppliers. Large engineering firms are being awarded the construction of numerous power plants, which are often combined cycle, steam and renewable, to fulfil the nation's needs. JEMA's products are already prepared to offer their maximum performance and quality, complying with the strictest international technical regulations.