

Media Release

AMEC joint venture wins contract for ITER nuclear fusion project

London, United Kingdom, (19th September 2014) – AMEC, the international engineering and project management company, working in joint venture with Iberdrola Ingeniería y Construcción and Mecánica Industrial Buelna (MIB), announces today the award of a contract to develop and manufacture a prototype First Wall panel for the ITER nuclear fusion reactor.

The First Wall panels are crucial to the success of ITER, a multi-billion pound project in Caderache, Southern France, which aims to demonstrate the technical feasibility of nuclear fusion as a future power source. The panels form part of a barrier that protects the vacuum vessel at the heart of the ITER machine from neutrons and other energetic particles produced in the fusion process.

The multi-million pound contract awarded by Fusion For Energy (F4E) follows on from the joint venture's success in developing a one-sixth size semi-prototype under a contract awarded in 2013.

"The successful delivery of this contract is an important step along the road to the development of a fusion reactor," said Greg Willetts, Director of AMEC's Consultancy Services business. "Our role will be to verify and provide technical design expertise in the fabrication, manufacturing and testing of a First Wall panel using our unrivalled knowledge of hot isostatic pressing of metals which we have developed during the last decade."

Francesco Zacchia, Blanket Module Responsible Officer at F4E said: "This contract represents an essential step towards our final goal to fabricate the First Wall panels for ITER. We are looking forward to AMEC, Iberdrola and MIB solving the challenging manufacturing issues and to delivering on time with the expected high quality."

Marcos Pérez, Technical Director of Leading Enterprises Group, of which MIB is part, said: "This project is of particular importance for MIB, since it allows us to apply our expertise in advanced precision machining in a new market sector, nuclear fusion."

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Notes to editors: F4E is responsible for the supply of about 50% of the ITER FW panels (Russia contributes 38% and China the remaining 12%), which encompasses 215 panels.

Each panel consists of a stainless steel support structure bonded to a heat sink material and beryllium tiles.

The heat sink material is made up of a copper alloy which transfers the heat generated from the plasma to the water coolant, while the beryllium tiles act as an interface for the plasma.

The contract for pre-series and series fabrication for the FW panels is planned to be awarded in 2017.

AMEC (LSE: AMEC) is a focused supplier of consultancy, engineering and project management services to its customers in the world's oil and gas, mining, clean energy, environment and infrastructure markets. With annual revenues of some £4 billion, AMEC designs, delivers and maintains strategic and complex assets and employs around 27,000 people in around 40 countries worldwide. See [www. amec.com](http://www.amec.com)

Mecánica Industrial Buelna, S.L. (MIB): is a Spanish company in the Leading Enterprises Group, specialised in advanced machining and welding processes, focused in a wide range of industrial sectors, including nuclear, oil & gas, renewable energies, automotive, aerospace, railways, etc. With annual revenues of around 25M€, LE Group employs around 250 people. See <http://www.leadingenterprises.es> and <http://www.mecanicabuelna.com>

Iberdrola Ingeniería y Construcción S.A.U. (IIC): is 100% owned by Iberdrola Group, created with the main purpose of integrating all of Iberdrola's engineering capabilities in one company. IIC is responsible for the providing Iberdrola and external customers with engineering and construction services across all generation technologies, transmission and control of energy networks and energy efficiency projects. With more than 2.400 people and with a presence in more than 30 countries, IIC has annual revenues of around 700 M€. See www.iberdrolaingenieria.com

Fusion for Energy (F4E) is the European Union's Joint Undertaking for ITER and the Development of Fusion Energy. The organisation was created under the Euratom Treaty by a decision of the Council of the European Union. F4E is responsible for providing Europe's contribution to ITER, the world's largest scientific partnership that aims to demonstrate fusion as a viable and sustainable source of energy. ITER brings together seven parties that represent half of the world's population – the EU, Russia, Japan, China, India, South Korea and the United States. F4E also supports fusion research and development initiatives through the Broader Approach Agreement, signed with Japan – a fusion energy partnership which will last for 10 years. F4E is established for a period of 35 years from 19 April 2007 and is located in Barcelona, Spain. Ultimately, F4E will contribute towards the construction of demonstration fusion reactors.

ITER: the name 'ITER' is derived from the Latin word for 'the way' or 'journey.'