

2. Fusion for Energy (F4E)

MUNICIPALITY

Barcelona

HEADING

F4E is a dynamic organisation whose purpose is to promote the worldwide role of Europe in the development of fusion energy. The main task of this organisation, formally known as the European Union's Joint Undertaking for ITER and the Development of Fusion Energy, is to manage the European Union's contribution to the ITER international fusion project.

IDENTIFYING DETAILS

- F4E headquarters: District 22@ in Barcelona
- F4E personnel: 364 members
- Over 220 contacts, including collaborators from European industry and research organisations
- Over 30 Catalan companies have expressed their interest in taking part in the project
- The organisation offers a multicultural environment that brings together different professional spheres such as engineering and physics, management, administration, law and communications

PROJECT DESCRIPTION

Fusion for Energy (F4E) is the European Union organisation responsible for Europe's contribution to the ITER project.

ITER, which means "path" in Latin, is the largest partnership of its kind in the world, and is tasked with demonstrating fusion's potential as an energy source. Its seven members represent half the world's population: the European Union, Russia, Japan, China, India, South Korea and the United States.

The ITER Project aims to demonstrate that fusion can be a viable energy source. Fusion is the energy source of the sun and the stars. Fusion can provide a large-scale energy source with abundant fossil fuels, but without CO₂ greenhouse gas emissions or long-lasting radioactive waste. The day-to-day functioning of a fusion power station does not require any radioactive material to be transported.

F4E also lends support to R+D fusion initiatives via the Broader Approach Agreement, a fusion energy partnership agreement with a duration of ten years which represents around 340 million euros of European and Japanese investment. Spain is one of the countries providing financial support.

In 2013, F4E signed contracts with forty-two European companies and research laboratories to the value of 720 million euros. These contracts are related both to the construction of the ITER platform and the production of its components, and to the R+D of technologies linked to the project.

Locally, F4E has been in contact with Catalan authorities to present the project's progress and its potential industrial impact, and approaches have also been made to Catalan research centres to promote knowledge exchange. One highlight has been its collaboration with the [Catalonia Institute for Energy Research](#) (IREC) and local and national authorities in its participation in the 11th edition of the [International Symposium on Fusion Nuclear Technology](#), held in Barcelona in September.

WEBSITE

www.fusionforenergy.europa.eu

RESPONSIBLE

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