

The French ITER Industrial Committee: Le Comité Industriel ITER (C2I)

Grasping the complexity of the industrial requirements of ITER

- Large scale international research project, involving cutting-edge technology
- 40 years life
- Numerous Procurement Authorities and interfaces
- Evolving nature of the detailed design & components pricing
- Complex Work Breakdown Structure (Procurement allocation) particularly for newcomers
- Relevant information is not easily available

The French Organization

Mr. Bernard BIGOT, “ General administrator” of CEA, France Representative for ITER

- Coordination of French Government Agencies
- Official representation of France in international relationships (ITER Organization, Fusion for Energy, ...),

ITER France Agency

- Collection of local Councils’ financial contributions towards Host State commitments
- Site preparation
- Missions performed on behalf of ITER Organization:
 - Public Enquiry
 - Regulatory Procedures
- Technical Interface with ITER Org. & ELE
- Decommissioning

ITER Industrial Committee

- Mobilize French industry
- Organize French industrial capacity for future calls for tender

Regional Support Unit « MISSION ITER PACA »

- International School
- Road itinerary adapted to regional economic development
- ITER induced regional economic development
- Facilitate business links between local & international companies

Fusion Energy Science Mission

- Domestic research program CEA, CNRS, University
- Coordination of research activities
- Education: Master Degree & Post-Graduate curricula

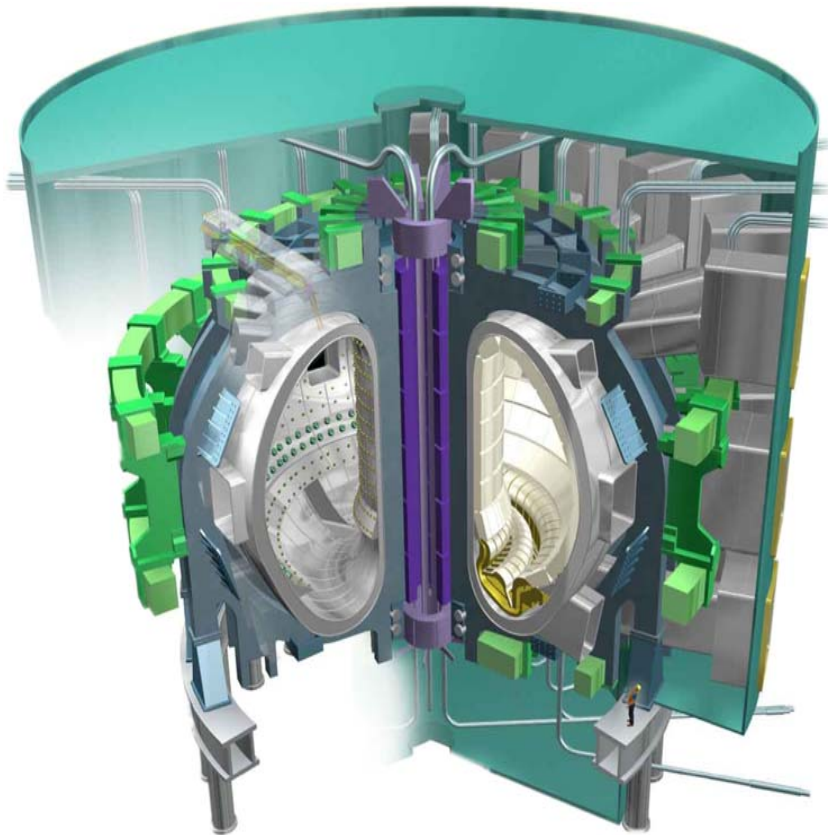
Mission ITER is the French « Industrial Liaison Officer » within the European ILO network set up by « Fusion for Energy »

- Initiated in July 2006 by the Ministry of Industry
- 3 Class of actors
 - **Industrial companies:** Air Liquide, Areva, Alstom, Astrium Space Transportation, CNIM, Cegelec, Cybernetix, Sagem Défense Sécurité, Schneider Electric, Siemens, Suez, Thalès...)
 - **Scientist & Research and Industry associations:** CEA, 10 Clusters : Capenergies, Pôle Nucléaire Bourgogne, Pôle Optique-Photonique, Route des Lasers, MIPI, TRIMATEC, S²E², system@tic, ViaMéca
 - **French national and local agencies and associations:** CEA, Development agencies in the Provence-Alpes-Côte d'Azur /PACA Region, Technical Centers, Ministries in charge of Economy, Industry, International Trade and Research
- **Around 150 industrial members today**

5 Key Industrial Challenges

- Raising the awareness of the industry, in particular SMEs, to allow for optimal participation in the up-coming ITER procurement
- Anticipation of the Design review, the procurement regulations and determination of the applicable codes & standards is however required
- Focus on the European « in-kind » contribution to ITER; the analysis of supply requirements of other Parties' Domestic Agencies opens up additional areas of business cooperation
- Potential bidders will need to interact in the most appropriate fashion with EURATOM Associations and Research laboratories to build upon their knowledge base
- Industrial Property Rules protection shall not be overlooked while enforcing the ITER-specific IPR Agreement

Assimilation of ITER engineering & industrial requirements



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12 Thematic working groups

- Engineering and services
- Magnets System
- Vacuum Vessel
- In Vessel Components
- Remote Handling
- Cryogenics
- CODAC
- Assembly,
- Power Supply
- Diagnostics & Optics
- Auxiliary Systems
- Civil Engineering

A forum for pre-competitive networking

and assimilation of ITER engineering & industrial requirements

Thematic groups: 4 main aims

- Analyze specific technological requirements and opportunities for prime contractors and partnerships at European or international level
- Identify worldwide potential prime contractors
- Promote industrial and scientific skills to mobilize on ITER project at national level
- Identify specific needs of potential suppliers (connecting with suppliers or sub-contractors, with European or international partners, support in information - ITER procurement rules, schedule, codes & standards...- training) and specific concerns (contractual clauses, liabilities...)
- Present the industrial vision of the technological challenges for ITER

Links with of firms active on the European market are welcome

Pre-competitive networking

First realizations

- With the support of CEA experts, a catalog of about 100 descriptive summaries of each component of the ITER device was provided, primarily to enable SMEs to perform a cross-reference with their know-how
- December 2007, in parallel with the 13th ICFRM in Nice and organized with CEA, the « ITER Business Forum 2007 » (IBF/07)
- A website (<https://mioga.minefi.gouv.fr/ITER/public/SITE/>) has been set up to support the Forum and facilitate cross-fertilization. Links with the French website www.iterentreprises.com. The website is the support for F4E/ILO information flow.
- A program of European and international events has been set up with UBIFRANCE since end of 2007. Aims: promoting French skills abroad and encouraging partnerships between foreign and French companies on ITER
- An industrial skills cartography is in progress: more than 1000 companies (potential rank 1, 2, 3...) interested have been identified.