



# ***ITER Procurement Organization and Business Perspectives***

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**Journée Les Rencontres ITER - CCIAMP – Château de Cadarache – 27 September 2023**

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china eu india japan korea russia usa



# Christophe Dorschner

## Procurement Division Head

Christophe has taken the role of Procurement and Contracting Division Head in April 2019 at ITER Organization.

Prior to joining ITER, Christophe held various positions in Shell global organization and worked in France, the Netherlands and Singapore. He started in Chemicals in manufacturing sites as process technologist, maintenance engineer and turnaround manager. He later moved into commercial roles in which he reorganized and restructured the E2E order to cash process. He was a customer service center manager for Chemicals in Europe before moving in Contracting & Procurement. Since 2005, he has been holding different portfolio as a global category manager in Downstream, Upstream and for large projects. In his last role, he was the procurement operations director for Europe

Christophe graduated from Centrale Paris in France with a Master of Science in engineering. In addition, he is a fully qualified member of the Chartered Institute of Purchasing & Supply in UK.

**A multinational  
scientific  
collaboration without  
equivalent in history**

**A large-scale  
experiment to  
demonstrate the  
feasibility  
of fusion energy**

**China EU India Japan Korea Russia USA**

# Agenda

1. ITER Organization Procurement
2. IO Business Opportunities
3. Conclusion

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1. ITER Organization Procurement

2. *IO Business Opportunities*

3. *Conclusion*

## ITER Organization Procurement Principles

- International Public Procurement rules: Fairness, Integrity, Accountability, Transparency, Effective competition, Best value for Money.
- ITER Organization (IO) is a First-of-a-Kind Project, demanding the best from Industry at the International level, in order to secure the cost and the schedule of the Project.
- The IO is classified “Installation Nucléaire de Base” = Nuclear Installation under French regulation. Safety and quality requirements shall always be compliant with the French regulation for INB facilities.
- The IO is looking for Industrial Partners, combining the Tokamak scientific knowledge and the industrial know-how.

## Procurement Tools

- IPROC
  - ✓ Sourcing (request for offers)
  - ✓ Supplier database (suppliers need to register)
- IO web page on procurement  
<https://www.iter.org/proc/overview>



***Communication  
and document  
exchange  
through  
digitalization and  
web publishing***



# Supplier Registration

- Supplier registration is mandatory to participate to IO tenders and to be awarded with contracts & purchase orders;
- Today, +965 Suppliers are registered in IPROC;
- The instructions for Supplier registration in IPROC are available on the ITER Industrial Portal (link below + extract next slide):

<https://www.iter.org/proc/overview>

## You have received an invitation email to register?

Please find below material to guide you through the registration process:

- [Registration Guide for Invited Supplier \(EN\)](#)
- [Guide d'enregistrement fournisseur sur invitation \(FR\)](#)
- [How to register as a supplier upon invite from Iter \(Video\)](#)

## You have not received an invitation but want to register as supplier to Iter Organization?

Are you interested in bidding on tender opportunities with the ITER Organization?

Please fill in the below questionnaire "ITER Self-Supplier Request Process":

### [IProc \(ariba.com\)](#)

And submit the form.

The ITER team will check the data and have Ariba system sending you an invitation email to further registration.

## You have an existing account and need to create a user or update your information ?

- [Supplier account management \(EN\)](#)
- [How to create a Sub-user \(Video\)](#)

# Supplier Registration on the Industrial Portal

# Agenda

*1. ITER Organization Procurement*

**2. IO Business Opportunities**

*3. Conclusion*

# IO Business Opportunities - Where to find information (1/3)

- **IO Procurement Web Site:**

- www.iter.org - Procurement / General information = <http://www.iter.org/proc/overview>

- Publication of :

- . List of on-going Call for Tenders with the list of pre-qualified Candidates
    - . List of On-going Open Tenders, Call for Expertise,
    - . List of forthcoming Tenders
    - . List of Market Surveys

# IO Business Opportunities - Where to find information (2/3)

Call for Tenders

Call for Expertise

Open Tenders

Forthcoming Tenders

Market Survey

## CALL FOR TENDERS

New

Sign up to automatically receive our procurements Notifications

 | subscribe

38 results found

TENDER STEP :

COST RANGE :

SEARCH :

\* In the column "Cost Range", an indication of the cost range of the tender is given in the form of letters A, B, C and D.

**A** Item range 300 000 – 2 000 000 EUR

**B** Item range 1 500 000 – 5 000 000 EUR

**C** Item range 4 000 000 – 12 000 000 EUR

**D** Item range above 10 000 000 EUR

| Reference              | Title                       | Tender Process                                                                                        | Current Step                                   | Cost range |
|------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|
| IO/23/CT/10025737/GRD  | Emergency Response Building | <br><b>UPDATED</b> | Call for Nomination<br>Status : <b>Ongoing</b> | <b>C</b>   |
| IO/23/CFT/10025842/ERA | SF6 Gas Handling System     |                  | Call for Nomination<br>Status : <b>Ongoing</b> | <b>C</b>   |

## IO Business Opportunities - Where to find information (3/3)

- **Industry Liaison Officers (ILOs)**

A network from different European countries works together with Fusion for Energy to raise awareness regarding funding schemes and ways to get involved in the ITER project.

A series of information days and seminars are planned throughout the year to report on the roadmap of the different procurement packages and facilitate partnerships between companies.

Link = [https://industryportal.f4e.europa.eu/ip\\_pages/ilocorner.aspx](https://industryportal.f4e.europa.eu/ip_pages/ilocorner.aspx)

- Tokamak Complex Detritiation System
- Maintenance & Preservation of buildings and components
- Diagnostic prototypes & devices
- TCWS Supplies
- Engineering Services
- Corporate Services
- Logistic Services
- First Plasma Components
- Hot Cell Facilities

# Tokamak Complex Detritiation System (1/2)



The Tokamak Complex

- ***Design and Fabrication contract***
  - *To be signed during 2024*
  - *Tens of Euro millions business volume*

# Tokamak Complex Detritiation System (2/2)

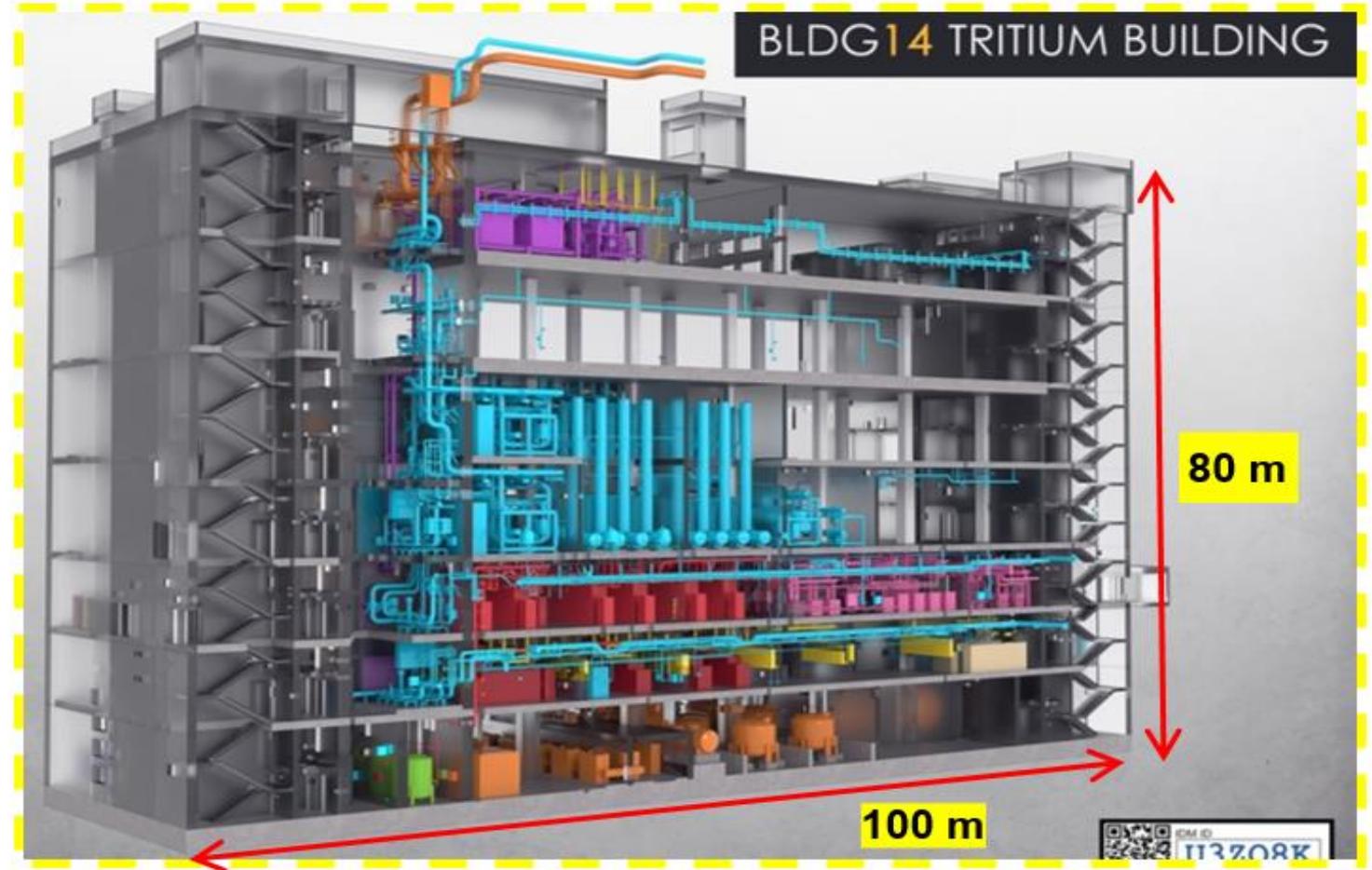
Tokamak Complex Detritiation System in B14 (system shown in blue)

## Process System in B14

- 16 catalytic reactors, 8 scrubber columns, 8 blowers
- Organised into 8 separate modules, each 1400 Nm<sup>3</sup>/hr capacity

## Piping Network:

- Connects to 150+ clients
- ~ 11km stainless steel piping



# Maintenance & Preservation

- Study LT Preservation TKM
- Purpose Built Tools Maintenance
- Cooling Towers Periodical Cleaning
- Site Security System Maintenance



Vacuum Vessel sector



Cryostat Lid



Poloidal Field coil in cold testing



Central Solenoid modules





## DIAGNOSTICS

- Purpose built tools maintenance
- Propellant Suppressor prototype
- DMS Manufacturing and Supply
- Shielding blocks
- In- Vessel camera

# TCWS Supplies

- I & C Components (sensors, switches, cubicles,...)
- Valves
- ESPN equipment (pumps, heat exchangers, pressurizers,...)
- Electrical Components (Heaters, SIC breakers, low flow pumps,...)





## Engineering Services

- Leak inspection
- Specialized Engineering Services for Port Plug Structures
- Cable Support Engineering Services
- Commissioning Support Engineering Services

# Corporate Services

- IT Support services
- IT Security Consulting services
- SAP Application Maintenance services
- MIS Global Support services
- Site Emergency services
- Maintenance plotters, photocopiers, printers and scanners



## Logistic Services

- Logistic On-site Services
- Logistic Off-site Services

## **The Main Functions of the ITER Hot Cell Facility:**

- ***To maintain activated and/or contaminated equipment,***
  - *In Vessel Components,*
  - *Port Cell Equipment,*
  - *Tokamak Remote Handling equipment,*
- ***To treat and interim store radioactive waste,***
- ***To import and export components and waste,***
- ***Human access to the Hot Cell and the Tokamak machine.***

- Design obsolete and too expensive
- New conceptual design under study
- New factors will be added
- Overall objective is keep high nuclear safety standards and to lower the price
- New Schedule not yet determined

# First Plasma Components

- Power Converters
- Blankets
- Neutral beam Port liners
- In-Vessel viewing port extension
- Divertor instrumentation
- Central interlock system



# Agenda

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3. **Conclusion**

# Conclusion

- ❖ In participating to the ITER Project with the IO and/or the Domestic Agencies, the Industry develops competencies that will be key for the next steps of the fusion programme.
- ❖ The ITER Project and Industry together have to find economically efficient solutions to a great technical challenge requiring high skills, experience in high technologies, nuclear field and construction.
- ❖ The ITER Project is a unique industrial business opportunity for the Industry, including SMEs and National Laboratories, which are recognized as important players for the Project.
- ❖ There are still significant business opportunities!!



Thank you for Your Attention

