



**FUSION  
FOR  
ENERGY**

BRINGING  
THE **POWER**  
OF THE **SUN**  
TO **EARTH**

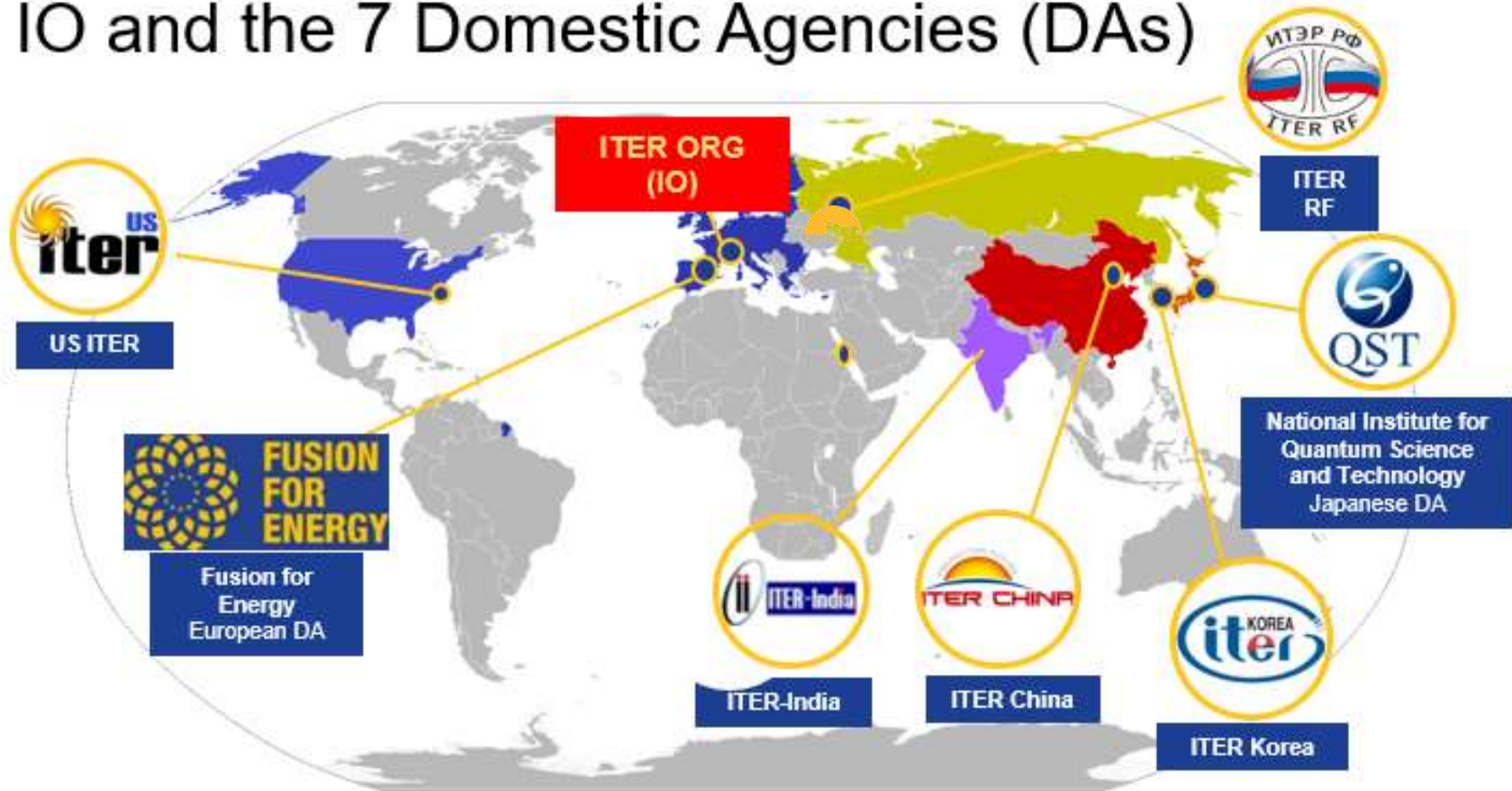
# F4E Business Opportunities

F4E Market Analysis Group  
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28<sup>th</sup> of May 2025 - online



## IO and the 7 Domestic Agencies (DAs)



- A** Item range 300 000 – 2 000 000 EUR
- C** Item range 4 000 000 – 12 000 000 EUR

- B** Item range 1 500 000 – 5 000 000 EUR
- D** Item range above 10 000 000 EUR

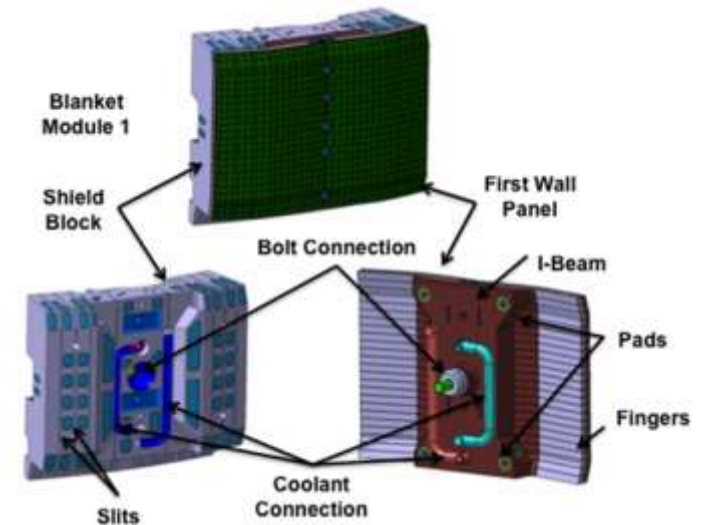
Value Range Categories

- **OMF-1877: High Heat Flux testing of mock-ups** (ongoing Market Survey).  
Target CFT Q3 2025.

(5000 cycles at 2 MW-m<sup>2</sup> + 1000 cycles at 2.5 MW-m<sup>2</sup>.)

With electron beam of at least 200 kW.

First testing during Q3 2026 until Q4 2028.





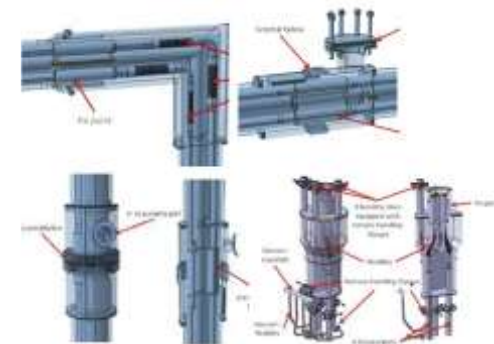
- **OFC-1592 Vacuum & Cryogenic services and minor mechanical works (including LN CRYOLINES DN25)** (cat **A**).

Target CFT June/July 2025. Open procedure.

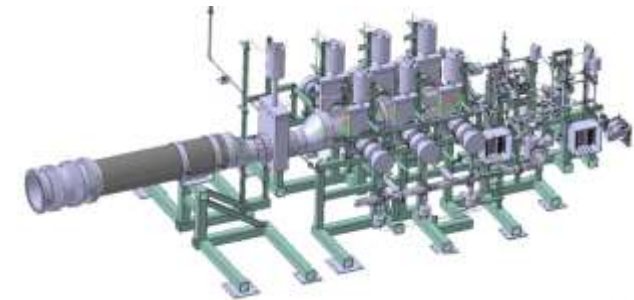
- **OPE-1867 Leak Detection (ex-OPE-0982):** Cat. **B**  
Market Survey ongoing; Target CFT Q3 2025 (October). => Manufacturing and Assembly (Design already done). Competitive with Negotiation.

- **NB Cryopumps** (2 X 3 units, cat **D**)
  - 500 cryopanel ; >650 thermal shield panels
  - Tight tolerances

=> Target CFT Q4 2025-Q1 2026 (depending if MITICA cryopump tests are positive)



Examples of some of the rigid cryolines subcomponents



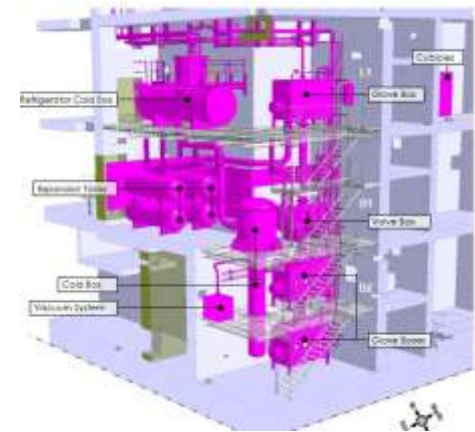
Mitica cryopump prototype

- **OFC-1868 Isotope Separation System (ISS) and Water Detritiation system (WDS) Design and Engineering Support (cat D)**

=> 1 FW Contract Design + Support to Owner during manufacturing of the following supply procedures and contracts (separated CFTs each one): Helium Refrigeration System (Design & Build, CFT Q1 2026), Cryogenic and Mechanical Systems (Supply), Populated Glove Boxes (Supply), and the I&C cubicles (Supply).

=> Market Survey + ongoing exchanges with companies.

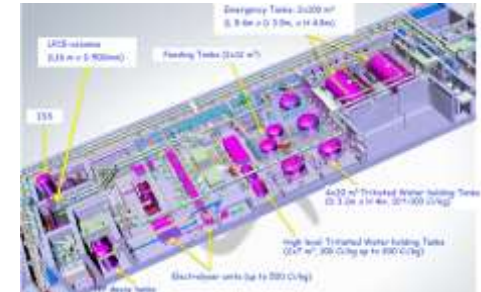
=> Target CFT: June-July 2025. Open procedure.



- **Water Detritiation System (cat D)**

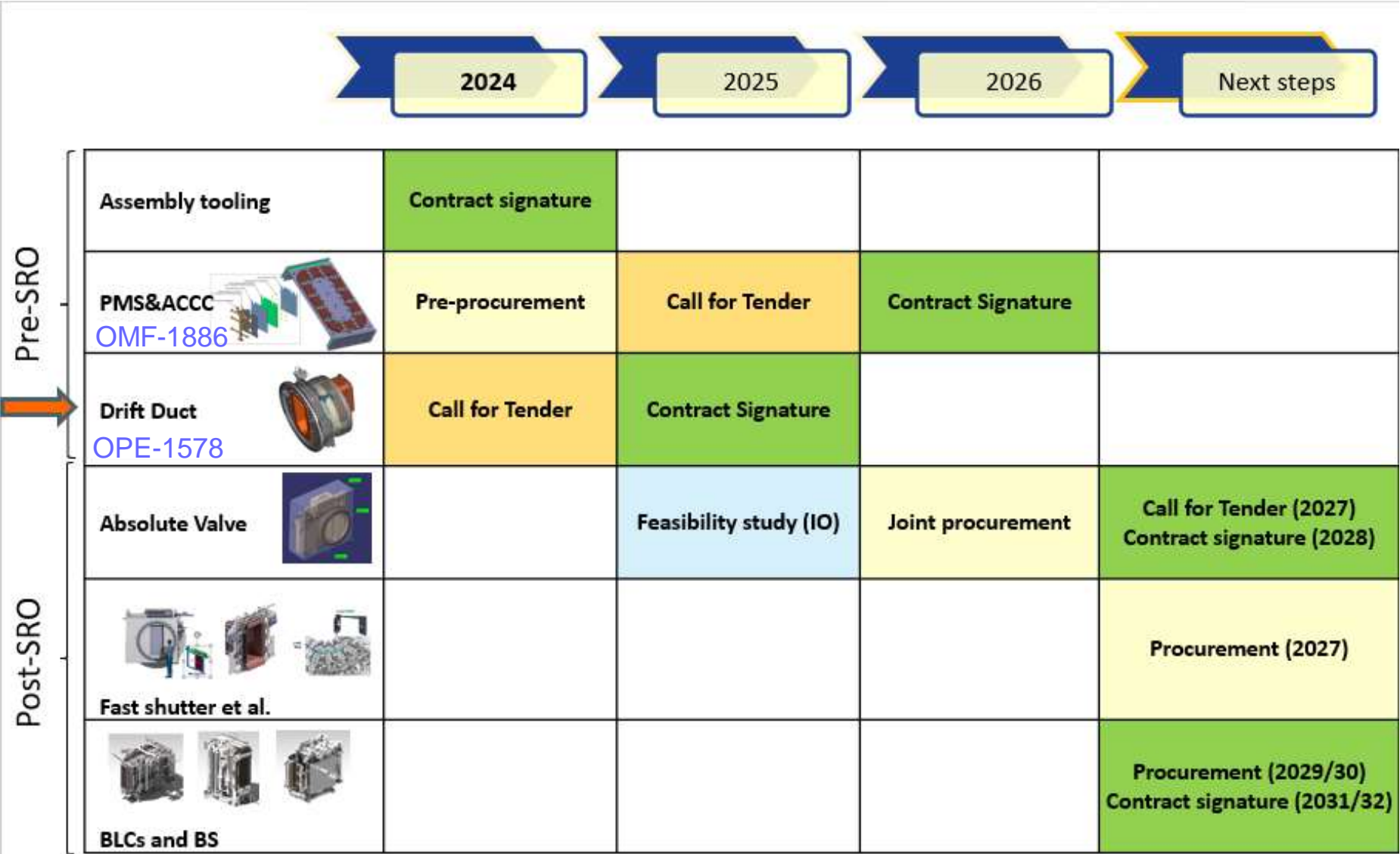
=> Distillation columns: Target CFT Q4 2026-Q1 2027.

- **TDP Fuel Cycle:** report done and sent to participants for feedback (deadline 23<sup>rd</sup> of May).



- **REMS (Radiological and Environmental Monitoring System) Qualification, Procurement, Installation (Cat. D)**  
⇒ Target CFT Q3 2025 => mid-November (PA: 07-2025).

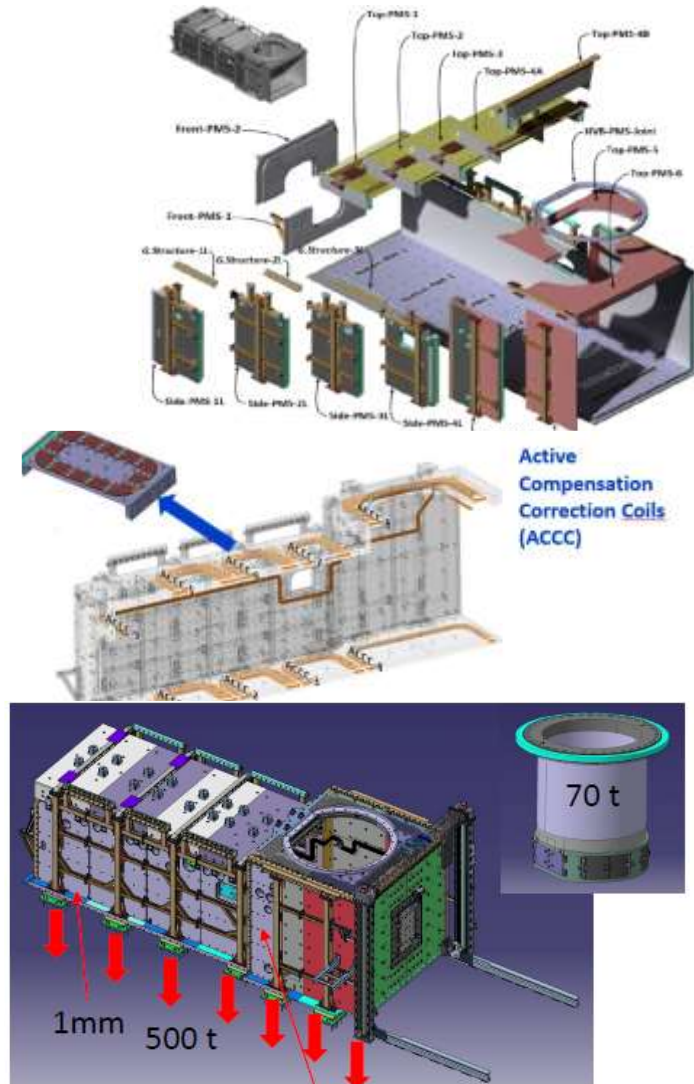




- **OMF-1886:** Passive Magnetic Shielding (PMS) Cat. D. (2 units)
  - Active Compensation Correction Coils (ACCC): 2 x 8 units.
  - Skills: Construction and precise assembly (1mm gaps/0.1 mm tolerances) of heavy components (500t) nuclear classified (RCC-MR) + coil design and manufacturing).
  - 3 contracts in parallel (each one Design + only one Manuf.)

=> Target CFT: June-July 2025.

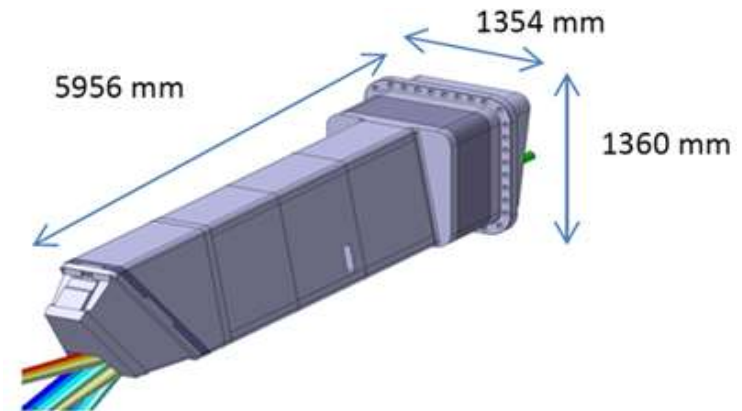
- **New CFT** for PMS/ACCC material (about 800 t. of S235 steel (EN 10025-2) and pure iron plates.





- **OFC-1183: Cat. D. 6 Diag PORTS Manufacturing and Assembly + Testing Facility.**

Target CFT: Q4 2025 (=> November).



*Upper Port Plug general dimensions*

- **OMF-1755: CODAC I&C Integration Services** (ex-OMF-0989). Target CFT Q2 2025. Cat **D**. (Not Safety-Important Components, not Protection important Component)
- **Hardware** (cubicles, cabinets and assembly services). Target CFT Q4 2025.
- **CODAC I&C Integration services** (engineering) with PIC/ SIC, French nuclear regulation. Target CFT in 2026.

- **OMF-1831** Project Management Support. (cat A).

=> Target CFT mid-July 2025.

=> 2 lots: Lot 1 Primavera. Lot 2 Ecosys.

- **OPE-1851** Independent Evaluation of the adherence of the Management System to ISO 19443 (cat A < 143.000 euros). Target CFT Q3 2025.

- **Final Design and Supply of Ancillary Systems (3 systems out of 5)**

1<sup>st</sup> System - Final Design and Manufacturing of Tritium Extraction & Accountancy Systems + Gloveboxes in Tritium Room.

Market Survey closed – **CFT in 2026** Cat **C**

2<sup>nd</sup> System – Water Cooling System, Coolant Purification System

Market Survey closed – **CFT in 2026** Cat **D**

3<sup>rd</sup> System – Water Cooled Lead Lithium loop - Cat **B**

=> **Market Survey CLOSED. CFT in 2026**



- **OPE-1405: Integration and testing of Actively Cooled Divertors of JT-60SA**, estimated contract value: **CD**, Market Survey closed, Target CFT **Q2-3 2025** (Competitive with Negotiation).
- **OFC-1695: Maintenance and Optimization of the Tetrode-based Radio Frequency Power System modules of LIPAc.** => Target CFT **Q3-4 2025**
- **OPE-1716: Prototypes of a Low-Beta Hald-wave resonator** with Frequency tuning system and **RF Coupler** for LINAC of IFMIF-DONES **SRF Coupler (Design of the cavity, Supply of a superconductive Cavity** => Target CFT **Q3-4 2025**.
- **OPE-1725: JT60SA Pellet Injectors (re-issue):** Market Survey to be decided, dissemination to target companies and ILO network will be performed. Value **A**, Target CFT **Q2-3 2025** (Competitive with Negotiation).
- **OPE-1824: Tungsten** raw material for JT-60SA Divertor (see Technical Note on Industry Portal). Target CFT: June 2025.
- **OMF-1844: Hardware Acquisition Channel** for Broader Approach. Target CFT **Q3 2025**.

- **AFC-1760:** Library Resources and Subscriptions Launch, estimated Q4 2025.
- **OMF-1784:** Administrative Support Cat. **D.** Q2-3-2025.
- **AFC-1833:** Facilities Management services (Target CFT Q3 2025).
- **AFC-1848:** Audiovisual and photographic services Launch estimated Q3 2025.  
**AFC-1849:** Media Monitoring and Media analysis services Launch estimated Q3 2025.
- **AMF-1875:** Specialised learning services (Target CFT Q4 2025).



**THANK YOU**