Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Education,
Research and Innovation SERI

Swiss Industry
Liaison Office
for International Research Organisations

Event sponsored by

PSI

4th Swiss ITER Supplier Meeting

PSI - Villigen

05.11.2026

ITER latest news 2026

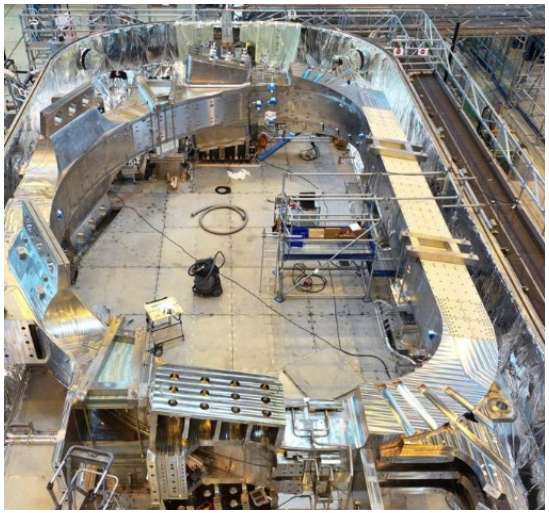


• On 28 July, the sixth of nine tokamak sector modules was successfully installed on the tokamak pitch.

• On 12 October, ITER completed a second set of energisation tests on coil #17 at 4 K.



• On 2 October, the final vacuum vessel sector (sector #2) arrived at the ITER site.



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Project review Swiss suppliers

Q3 2026

- **AMPEGON AG:** F4E-OPE-454 Electron Cyclotron HV Power Supply System (scope 8 units) – Extension EU Gyrotron upgrade program / 2 x High Voltage Power Supplies, - *Contract signed*

- **INFICON AG:** IO/15/CT/6000000165-1 Renewal Framework Contract for Passive Vacuum Gauges and Controllers - *Contract signed*

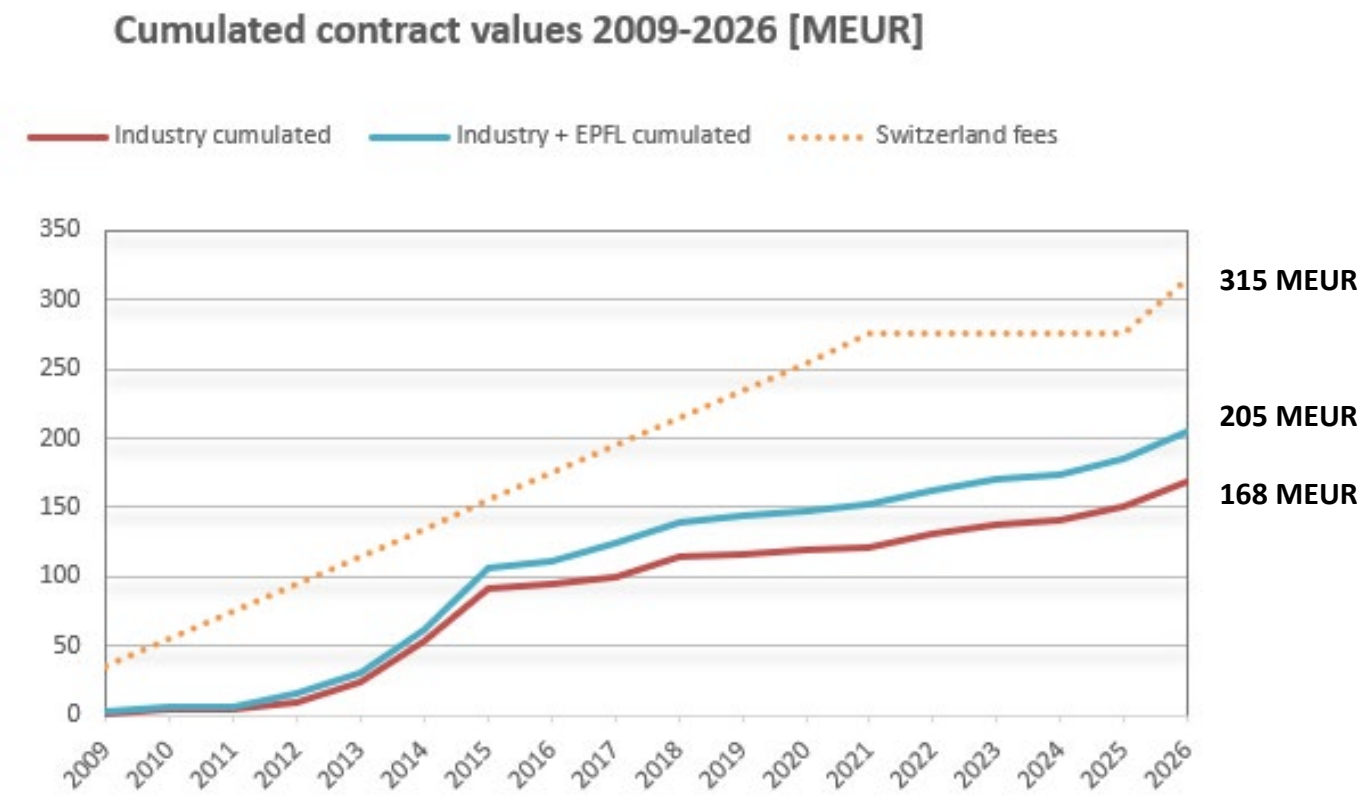
- **IMBACH & Cie AG:** Subcontracting in Tier 2 to F4E OPE-1578 Manufacturing of the Drift Duct for ITER Neutral Beam Injectors- *Contract awarded*

- **VAT Vacuum** F4E Forward Agreement Contract ECRH Isolation valves - *Contract under negociation*

- **INSPIRE AG**: TDP F4E OPE-1940 / Action 3 -Feasibility study of Tungsten AM processing for low-cost components – *Offer unsuccessful*

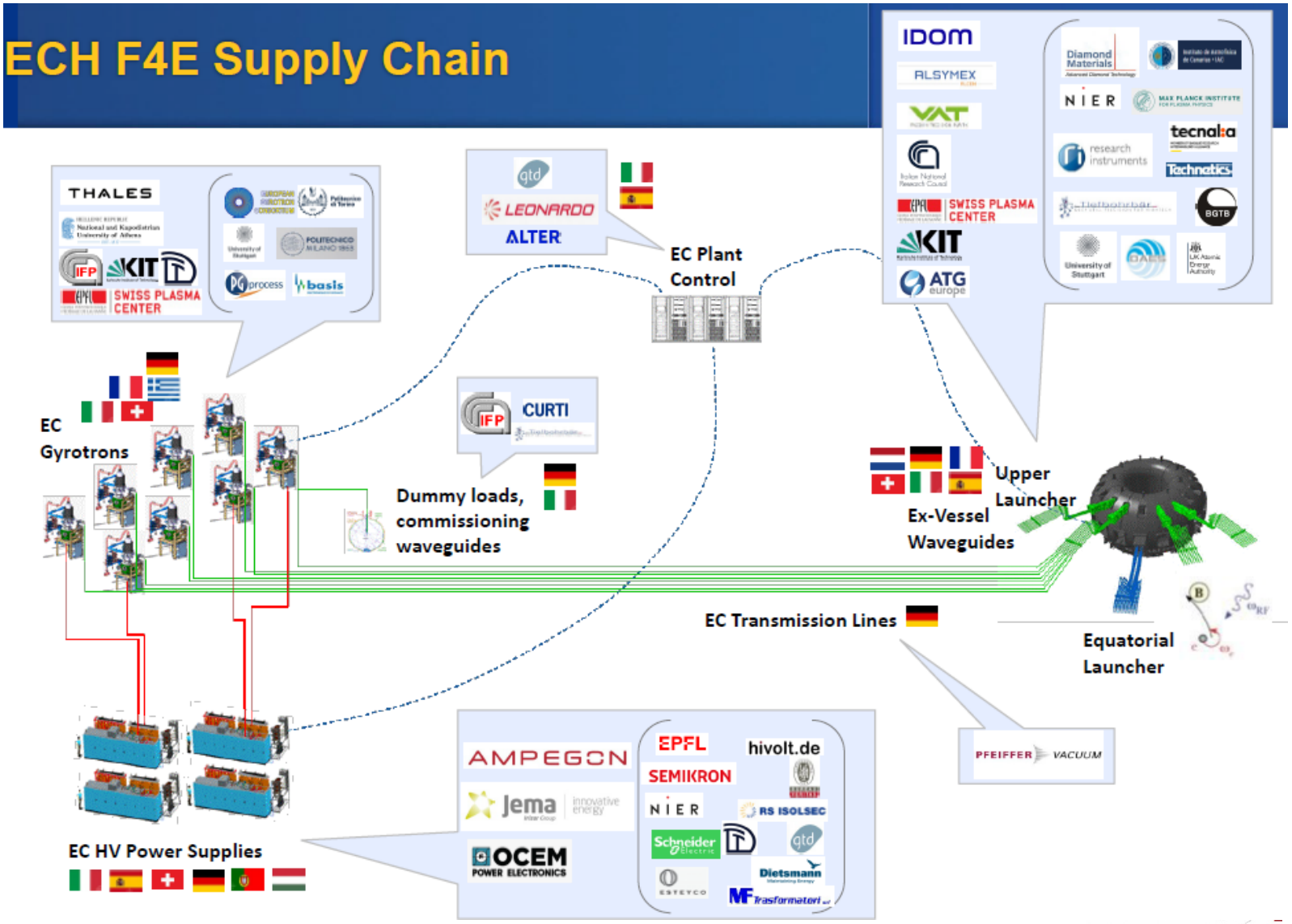
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Swiss cumulated contracts ITER
Q3 2026



ECH Electron Cyclotron Heating

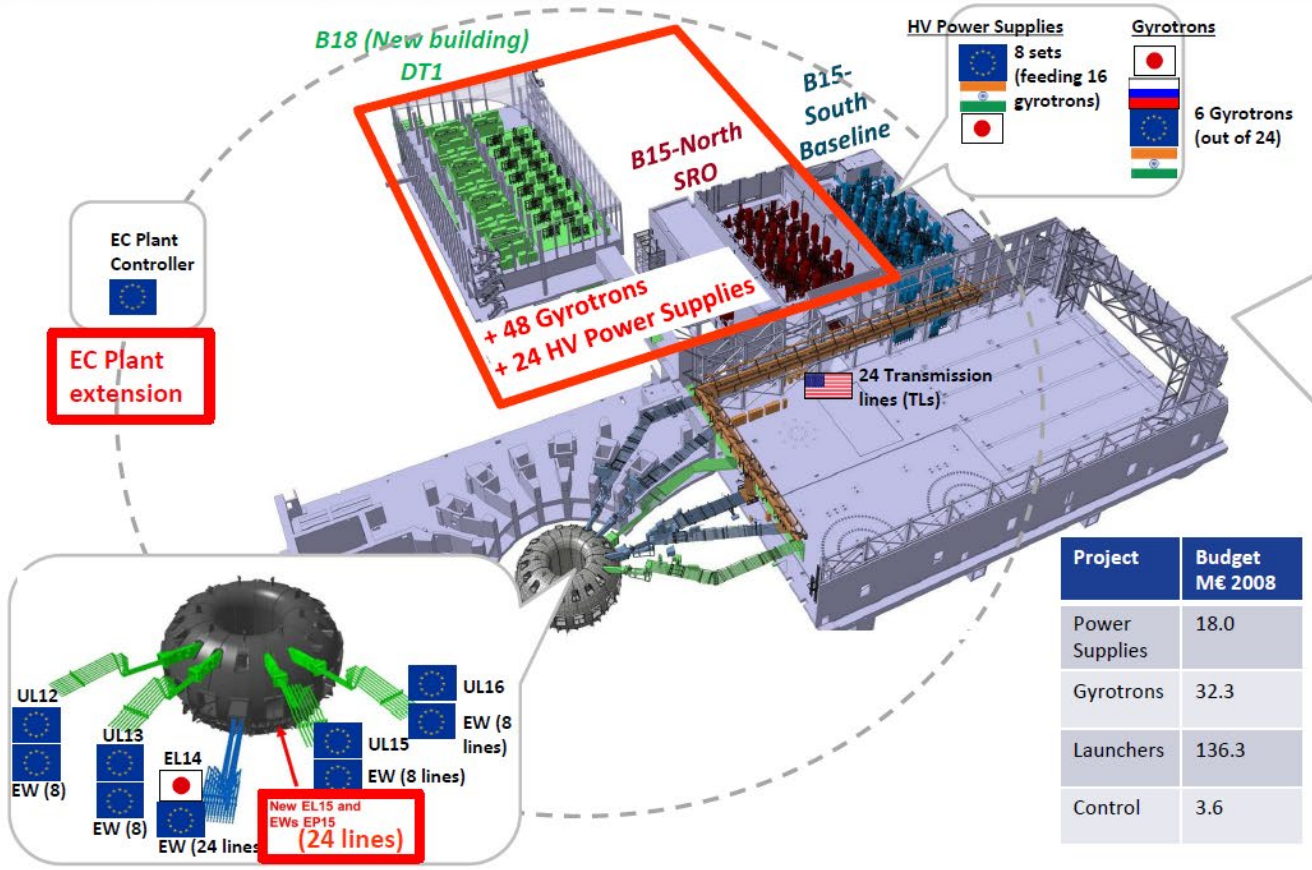
High involvement of Swiss entities



ECH Upgrade – ITER

Tendering 2027-2028

Upgraded ECH system of ITER



Project	Budget M€ 2008
Power Supplies	18.0
Gyrotrons	32.3
Launchers	136.3
Control	3.6

Total installed RF power 72MW
(~60MW plasma injected)

Original baseline	SRO	EC Upgrade (ITER re-baseline) DT1
24	+24	+ 24 Gyrotrons
12	+12	+ 12 High Voltage PS
24	+24	+ 24 Transmission lines
1		+ 1 Equatorial Launcher (EL15)
4		+ 0 Upper Launcher
56		+ 24 Ex-Vessel Waveguides
		+ Extended control system
		+ Building B18, ancillaries

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Technology maping

Parts/Technology	Strength level Industry CH	Strength level Academia CH	Attractivity
ECH heating			
ECH gyrotrons	++ LARMOR mmWave systems	+++ EPFL	+++
ECH waveguides (deep drilling, corrugation, cleanliness for UHV)	++? Tiefbohrbär DEEP DRILL PRECISION FOR HIGHTECH	++ EPFL	+++
ECH pulsed power supplies	+++ AMPEGON	+ EPFL	++++
Vacuum			
Metal-seal vacuum isolation valves (gate sealing, closing mechanism)	+++ VAT	++ EPFL	++++
First mirror components (coating, precision machining)	Missing	+++ Universität Basel	++?
ITER-specific gauge heads (withstanding high magnetic fields)	+++ INFICON	+	+++
Magnets			
HT superconductive magnets	++? Proxima Fusion	+++ PSI EPFL	+++?
Magnet converters & protection	++ Sécheron ABB	++	++++
Tritium			
Tritium technologies (mass transfer isotope separation packings, tritium analytics)	+++ SULZER CHEMTECH smolsys ltd.	+ PSI ETH	++++
Materials			
Additive Manufacturing spec. alloys	++ inspire	++ ETH	+++?

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Features for fusion in Switzerland

- **Unique Swiss Facilities**
  - EPFL FALCON Gyrotron Test facility
  - EPFL TCV Tokamak
  - PSI SULTAN SC Cable Test facility
- **Fusion specific know-how through Swiss research labs**
  - HTS Magnets design & test (PSI) – reference CHART Program
  - First wall mirrors for optical diagnostics (UNI Basel)
- **Endemic Swiss Industry know-how (transferable to fusion)**
  - Vacuum & Cryogenics (results)
  - HV pulsed power supplies (results)
  - Magnet drivers, control & protection (exploration)
  - Tritium handling (exploration)
  - New Materials/ Advanced Engineering & Processes (exploration)*
    - *results over transmission lines /Upper Launcher F4E project
    - *results over feed-throughs / LEVI ITER project

Organisation in clusters ⇨ SwissFusion

ITER next opportunities

- https://industryportal.f4e.europa.eu/f4e-calls/
- Budget EU 2021-2027: ~€5.6 billion
- Mostly spent through industrial procurement to European-based entities
- Procurement range: ~€600 M/year .

- https://www.iter.org/industry/procurement/tenders/calls-tender
- Procurement subset range: ~€150–300M/year
- Over 50% of the tenders from the ITER International Organization are won by European companies.

Monthly updated selection for CH: https://www.swissilo.ch/tenders

Horizon Europe & Euratom

The Architecture of European Research & Innovation



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

European Public Private Partnerships 2026-27 on Fusion Energy

1st call

- **EUR 32 million** EU funding (for 3 projects)
- Opening: 15 September 2026 / Deadline: 04 March 2027
- Expected outcome: to mature and demonstrate (TRL 6-8) technologies in one of the key areas:
  - Call 1. Plasma heating and current drive → LARMOR mmWave systems
  - Call 2. High Temperature superconducting magnets
  - Call 3. Diagostics and control → FUSIONALITY

2nd call

- **EUR 45 million** EU funding (for 3 projects)
- Opening: 15 April 2027 / Deadline: 04 November 2027

"..Key technology areas should be amended in order to align the scope with the Partnership's SRIA (FusionNow EU fusion industry consortium) .

https://commission.europa.eu/funding-tenders/find-funding/eu-funding-programmes/iter_en#about-the-programme

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Behond ITER – Next fusion spots

ITER (IO + F4E
+ US, CN, KO, IN, JP, RF)

EU FUSION PPPs

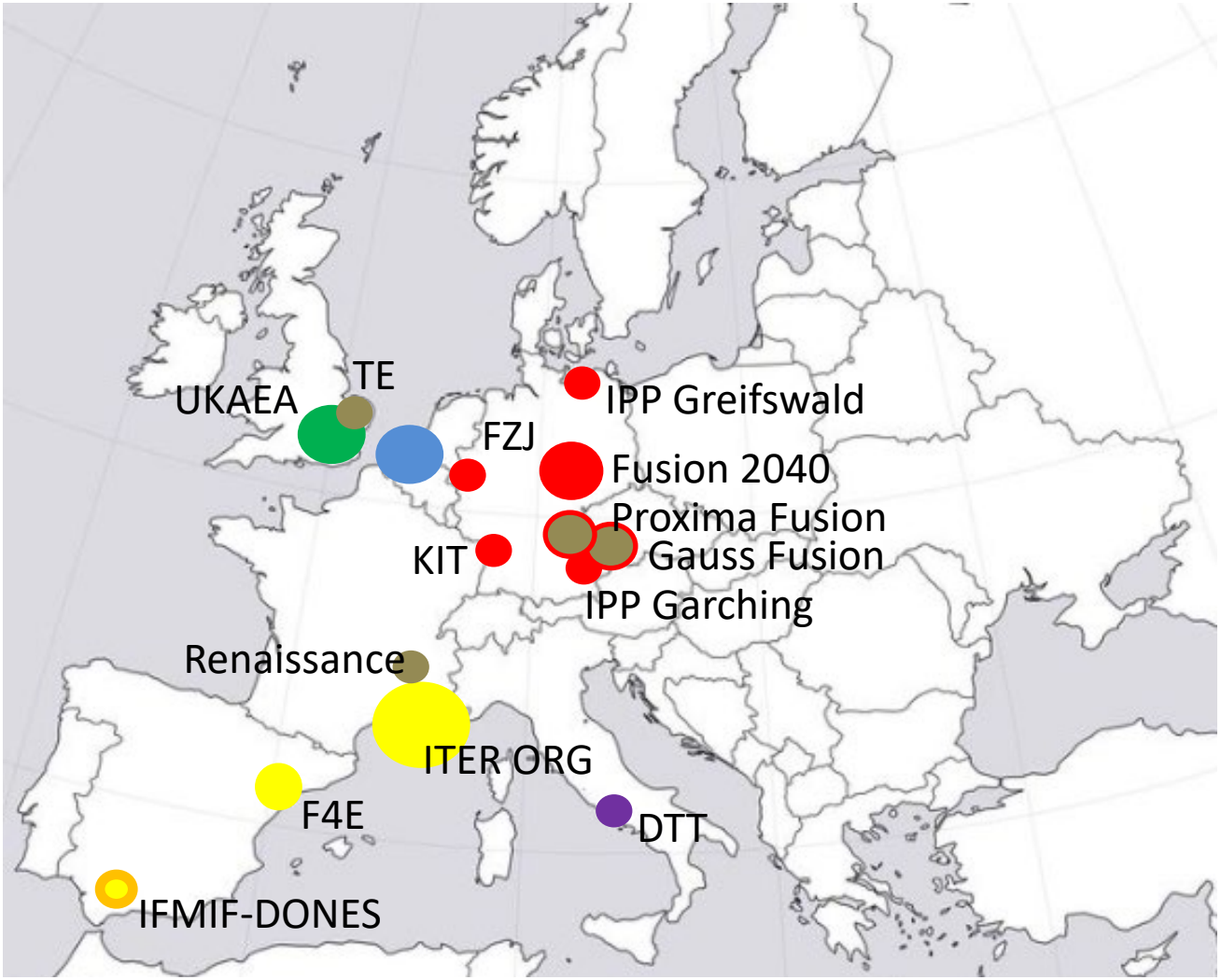
DE National Program

UK National Program

Italy DTT Tokamak

Start-ups EUROPE

Start-ups USA +
China national programs



addressed by SwissFusion

Opportunities Fusion 2040 Germany

Bundesministerium
für Forschung, Technologie
und Raumfahrt

Förderbekanntmachung "Hubs für die Fusion"

Im Rahmen des Förderprogramms „Fusion 2040 – Forschung auf dem Weg zum Fusionskraftwerk“ und der „Hightech Agenda Deutschland“ der Bundesregierung fördert das BMFTR den Aufbau von je einem Kompetenzzentrum (Hub) für die thematischen Schwerpunkte „**Laserfusion**“, „**Magnetfusion (Stellarator)**" sowie „**Brennstoffkreislauf und Materialentwicklung**“. Die Hubs sollen dazu beitragen, die Technologie- und Marktreife von Fusionstechnologien zu erhöhen, den Aufbau notwendiger Lieferketten zu stimulieren und Fachkräfte auszubilden bzw. zu gewinnen.

Alle Informationen, Bewerbungsbedingungen, Musterskizzen und Antragsvorlagen finden Sie hier:

ZUR BEKANNTMACHUNG

https://info.bmftr-fusionsforschung.de/-lp/8PD6032543/m6HPD294/0//

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Opportunities Roadmap 2026 UK



https://assets.publishing.service.gov.uk/media/69c576d4cdfd19de13d0f752/fusion-energy-strategy-march-2026.pdf

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Opportunities – DTT Tokamak

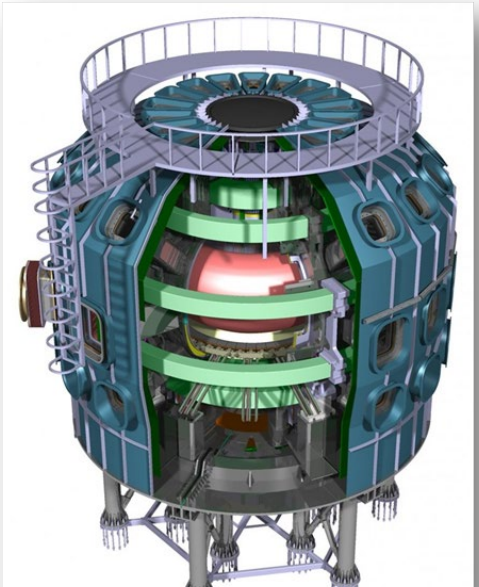
DTT (Divertor Tokamak Test) - Italy

DTT will investigate innovative solutions for the heat extraction based on advanced divertor configurations and new materials such as liquid metals in conditions relevant to a fusion power plant. The construction has started in Frascati (n. Rome) with the goal of having DTT in operation during this decade.

The construction costs amount to 614 M€ and are secured by ENEA through specific agreements with the Ministry of University and Research and the Ministry for Ecologic Transition, with Regione Lazio and with the EUROfusion Consortium plus a loan from the European Investment Bank.
ENEA will remain the final owner of the facility. Operating costs (mainly for the design of the components) amount to 130 M€ and are provided pro rata by all the Consortium members.

Partners:

ENEA, CREATE, ENI,
Consorzio RFX, INFN,
Università degli Studi della Tuscia,
Università degli Studi di Milano-Bicocca,
Università degli Studi di Roma Tor Vergata,
Politecnico di Torino, Italian National Research Council,
CETMA



https://dtt-project.it/industry-info-day/

Fusion events for industry 2027

- F4E ECRH Mapping Workshop, 11 Dec Online, 25-26th Feb, 2027 Barcelona
- 2027 FusionXGlobal, 25-27th Feb, Munich
- 2027 Fusion Industry Association Conference, 17-18th Mar, Washington DC
- 2027 ITER Business Forum, 14-16 Apr, Mandelieu



→ **Project Switzerland booth in progress**

- 2nd Topical Workshop on Fusion Technologies – SaxFusion, 01th Jun, Dresden
- EPS European Physical Society Conference on Plasma Physics, 5-9th Jul, Lausanne
- Fusion Expo Germany, 19-21st Oct, Frankfurt
- ICFRM-23 International Conference on Fusion Reactor Materials, 24-29th Oct, Miami

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THANKS TO BE PART OF THE SWISS ILO NETWORK



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