EUROfusion

WPMAG Final Meeting
14-16 January 2026
PSI, Villigen

Update on EU-CN Collaboration

Richard Kamendje
EUROfusion

This work has been carried out within the framework of the EUROfusion Consortium, funded by the European Union via the Euratom Research and Training Programme (Grant Agreement No 101052200 — EUROfusion). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the European Commission can be held responsible for them.

Specific Agreement on Magnets

- Formally valid until 31 December 2025
- To be extended to 2027 based on mutual consent?
- Activities for 2026-2027?
- Status of Deliverables?
- Report for 2021-2025?

Reference	
D-1	Manufacture of short-length HTS full-scale conductors.
D-2	Experimental tests useful for the development of HTS full-scale conductors. Analysis and interpretation of the results.
D-3	Modelling analysis of HTS CICCs: AC losses, effects of EM load, shielding current, Tcs, MQE.
D-4	AC losses assessment and thermal-hydraulic simulations of BEST CS (CORC-like conductor).
D-5	Testing the HTS insert of CS module in liquid nitrogen and the hybrid CS module in operative conditions.

Report on assessment of INCO contribution to tackling Roadmap-related R&D issues

- Technology/Engineering
  - Magnets
  - Remote Maintenance
  - Breeding Blankets
- Physics
  - Plasma scenarios
  - Long pulse operation
  - Plasma exhaust

Grant Deliverable Report

General

Work Package ID	25-WPPMU
Grant Deliverable ID	PMU.D.08
Grant Deliverable Title	Report on assessment of INCO contribution to tackling Roadmap-related R&D issues
Lead Beneficiary	MPG
Due Date for Deliverable	12/2025
Dissemination level*	PU

* PU = Public, fully open; SEN=Sensitive; R-EU/EU-R: EU Classified, S-EU/EU-S: EU Classified; C-EU/EU-C: EU Classified

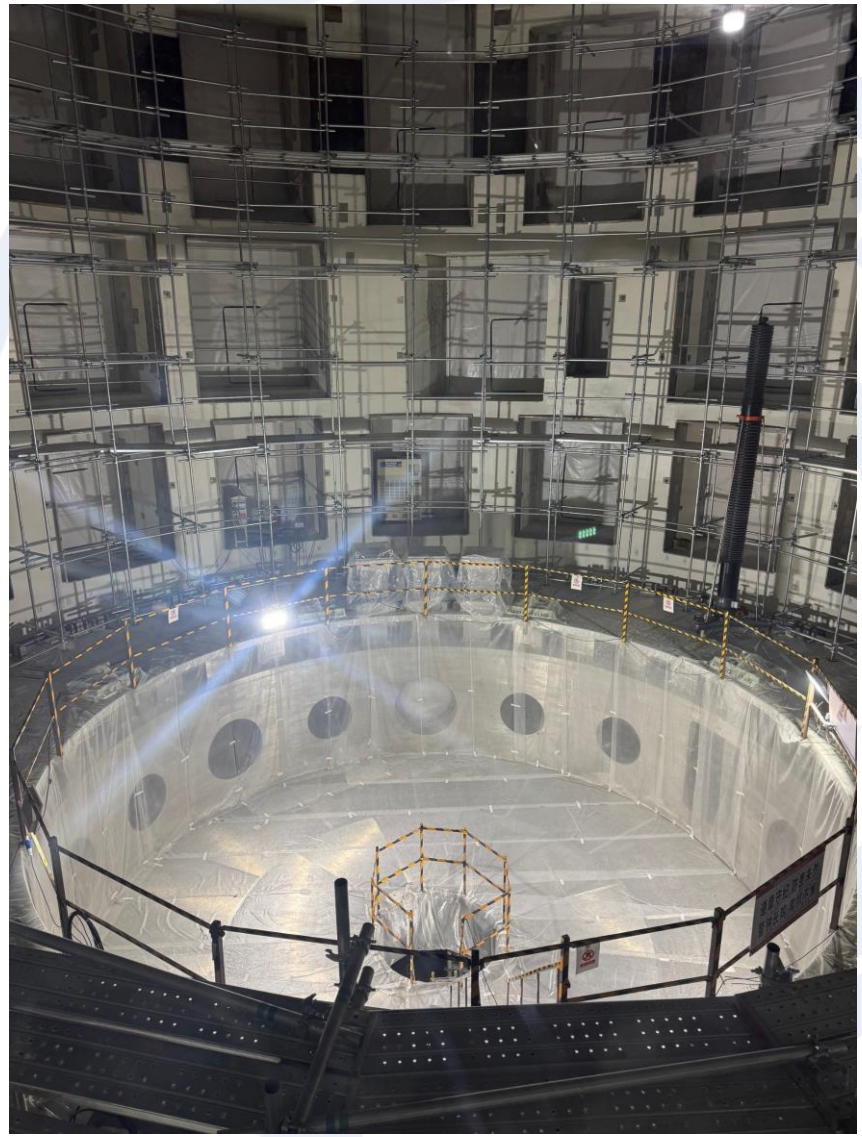
BEST is coming…..!

Oct. 2023

May 2024

Oct. 2024

Oct. 2025



30 Sept. 2025

Nov. 2025

Release of the BEST Research Plan

- A **big thank** to all contributors from EUROfusion for the sizable amount of work done within a one-year time span

- Above all, **Yevgen Kazakov** should be commended for his strong leadership and dedication that have made this possible

Research Plan Available under:

https://euro-fusion.org/wp-content/uploads/2025/11/BEST-Research-Plan-v1.1.pdf

Next Steps Following the Release of the BEST Research Plan

Focus in 2026 will be on

- Jointly elaborating an Integrated Commissioning Plan for BEST
- Establishing the various EUROfusion teams to be involved in commissioning, operation and experiments → achieve integration with CN teams
- Finalising and signing a dedicated Technology Management Plan for BEST with the help of the EC