

# IFERC Newsletter

IFERC

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International Fusion Energy Research Centre, Rokkasho, Aomori 039-3212, Japan

## Meeting

### 30<sup>th</sup> IFERC Project Committee (IFERC PC-30) meeting

The 30<sup>th</sup> International Fusion Energy Research Centre (IFERC) Project Committee (IFERC PC-30) meeting was held at the IFERC site, Rokkasho on 23<sup>rd</sup> March 2022 as a hybrid meeting with physical and online participation, due to travel limitations for COVID-19. Thirty-eight participants attended the IFERC PC-24. Among these were 6 committee members, including the PC chair, Kenji Tobita, 3 project team members, including the Project Leader, Susana Clement, Deputy Project Leader Noriyoshi Nakajima, 1 secretary, 1 PC invited expert, and 27 experts from the EU and JA Implementing Agencies.

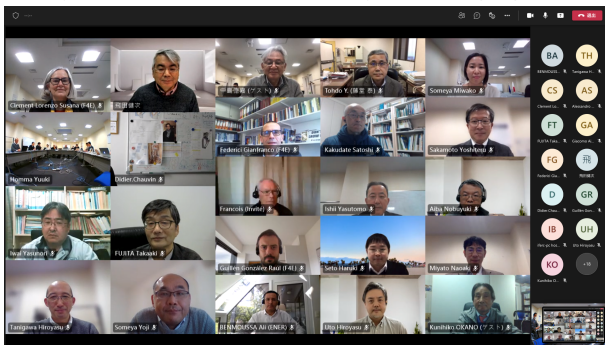


Fig. 1 screenshot of IFERC PC-30 meeting

IFERC project proceeds as originally planned. The recent status of CSC Activity, of DEMO Design Activity (DDA), of DEMO R&D Activity, and of REC Activity were reported together with Status and Planning of Procurement Arrangement. Activities in 2021 were summarized in the Annual Report 2021 for IFERC Project, where contributions provided by the parties were visually shown using data based on the Credit Management System (CMS). Noting with the satisfaction the steady implementation of the collaboration of IFERC with ITER, the PC members recommended the Annual Report 2021 for approval by Broader Approach (BA) Steering Committee (SC) in the 29<sup>th</sup> BA SC meeting held on 27<sup>th</sup>–28<sup>th</sup> April.

The most important issue in this meeting was to update IFERC Project Plan in BA Phase II using the new template common to all BA projects approved by the BA SC. In the new template, the overall schedule for each sub-project is clearly described with its major milestones. Regarding the contributions of each party, three tables present the value estimates and allocation to each Party, the status of the procurement arrangements, and the

annual profile for each activity. The IFERC PC members recommended for approval by the BASC the updated IFERC Project Plan, with its clear description of the targets and milestones.

Hereafter, the recent topics are described. Regarding CSC, it was reported that HPC resources such as JFRS-1 and Marconi 100 were continuously provided in FY 2022, and that computer resources were allocated to projects targeting priority areas relevant to fusion development programmes such as ITER, JT-60SA, DEMO and IFMIF/EVEDA. In particular, ITER scientists had joined two existing simulation projects to include urgent simulation activities on divertor physics and disruptions.

As for DDA, the progress of activities resulted in 54 publications. It was also reported that the first intermediate Check and Review of JA DEMO programme, similar to G1 Gate Review for EU in 2020, was successfully completed. The efforts to recover from problems caused by COVID-19 were presented.

In DEMO R&D Activity, the steady progress in 4 task areas covering R&D in tritium technology, structural materials, functional materials, and corrosion database led to 52 publications, of which 5 joint papers. The population of engineering databases had started. One concern was that the recent Russian situation would result in delays of activities in the task of functional materials, where irradiations in Russian reactors had been cancelled.

The REC activities continued to have high visibility and urgency due to the COVID-19 situation. Under the BA-IO collaboration, the ITER Dashboard (web-based data viewing tool installed at REC) was tested using the L2VPN dedicated line between REC and ITER CODAC. The preliminary test results showed that auto-update of the streaming data worked well, the data viewing was stable during a long-time test, and the latency between IO and REC was less than 1sec. In parallel, the collaboration with IFMIF/EVEDA on remote participation has enabled the commissioning and operation activities of LIPAC.

IFERC Project is progressing according to plan and delays due to COVID-19 were partly recovered. The details of activities in each sub-project will be reported in the individual newsletters in near future.

*(IFERC Deputy Project Leader: Noriyoshi Nakajima)*