

Progress of JT-60SA Project

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The JT-60SA project was initiated in June 2007 under the framework of the Broader Approach (BA) agreement and Japanese national fusion programme for an early realization of fusion energy by conducting supportive and complementary work for the ITER project towards supporting the basis for DEMO. In 2009, after a complex start-up phase due to the necessity to carry out a re-baselining effort to fit in the original budget while aiming to retain the machine mission, performance, and experimental flexibility, the detailed design of the project could start immediately followed by the start of manufacturing of the long lead items. Components and systems of JT-60SA are procured by the implementing agencies (IAs): Fusion for Energy in EU and QST (previously JAEA) in Japan. With the project now in an advanced implementation stage, the early defined approach for its implementation has proven to be successful and hence continues to be employed. This is underpinned by the very close collaboration between QST in Japan, F4E in Europe, and all other European stakeholders: the EU Voluntary Contributors (EU-VCs) and EUROfusion. The employed management model follows the early establishment of a single Integrated Project Team (IPT) that operates in accordance to an agreed Common Quality Management System, defining resources and processes crossing the lines between organizations. For JT-60SA the same management model strategy is planned also for the period beyond 2020, that is when the facility will be jointly operated and enhanced by the EU and JA. The paper will overview the progress of the manufacturing and assembly of the JT-60SA machine, the outlook towards First Plasma, and progress in preparing for the scientific exploitation of JT-60SA following this milestone.

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