No.4 October 2014

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Well, What's this ?

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Japan Atomic Energy Agency

Hello everyone, this is JT-60SA

We are jointly constructing the JT-60SA machine in collaboration with researchers and engineers in Europe, making mutual efforts for its successful completion by integrating technologies in manufacturing the components in Japan and Europe.





March 2019 JT-60SA First plasma



May 2014 Assembly of the vacuum vessel started



January 2013 Assembly of JT-60SA started January 2014 Temporary installation of equilibrium field coils

October 2012 Disassembly of JT-60 completed



October 2009 Disassembly of JT-60 started



Evolution of manufacturing JT-60SA

JT-60SA cutting-edge

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Checking the tip end of the pancake coil

^{讓子力研究開発機構}

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Adjusting the two-frequency gyrotron using for heating the plasma

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JT-60SA cutting-edge

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JT-60SA cutting-edge

Adjusting the testing device of the negative-ion source for heating the plasma

Operating the negative-ion source testing device



JT-60SA and the future of nuclear fusion

International collaboration among various countries and regions

The JT-60SA project is a joint scheme, combining the "Satellite Tokamak Program" and the national program.

We are consolidating the views of the fusion community in Japan, and making them contribute to the discussions between Japan and Europe.





Domestic community



EU-Japan Technical Coordination





Contribution to the DEMO reactor

Based on the results of the predecessor JT-60, JT-60SA will give full support to ITER and contribute to the realization of a continuously operational and economically attractive demonstration reactor with the development of human resources such as researchers and engineers who will take the lead in the next generation.



No. 4 Contents

Hello everyone, this is JT-60SA	02
Evolution of manufacturing JT-60SA	03
JT-60SA cutting-edge	04
JT-60SA and the future of nuclear fusion	09



The photo on the front cover page is a zoomed-in photo of the one shown above, which shows a superconducting equilibrium field coils temporarily installed on the cryostat base.

graph JAEA

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