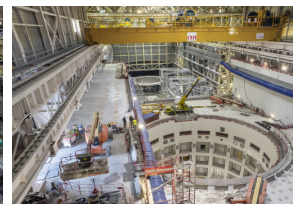
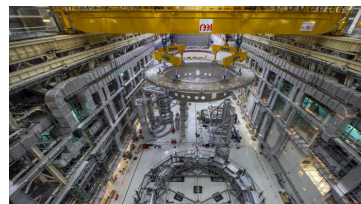
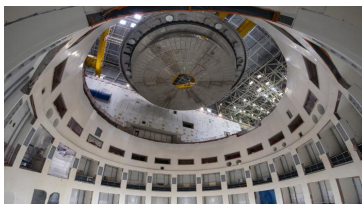


## Installation – ITER assembly begins



The 1250 ton cyrostat base is positioned over the ITER tokamak pit for installation. This base is the heaviest lift of tokamak assembly. Credit: ITER Organization



**Topic:** [Fusion Nuclear Science](#)

June 2, 2020

ITER, the world's largest international scientific collaboration, is beginning assembly of the

fusion reactor tokamak that will include 12 different essential hardware systems provided by US ITER, which is managed by Oak Ridge National Laboratory.

The systems include superconductors for the toroidal field magnet system and ORNL-developed pellet injection technology for plasma fueling and performance. These critical components will help ITER achieve its mission to demonstrate a self-heated, burning plasma and 500 megawatts of fusion power.

30-foot-tall central solenoid magnet, also fabricated under ORNL management, is considered the “heart of ITER” because it will initiate and drive plasma current inside the tokamak.

The start of ITER tokamak assembly is a momentous milestone for the project and makes the fusion community — at Oak Ridge and around the world — excited for the future,” Kathy McCarthy, US ITER project director, said.

The first shipment of central solenoid modules to ITER, located in southern France, will begin later this year.

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## Related Organizations

US ITER Project

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Oak Ridge National Laboratory is managed by UT-Battelle LLC for the US Department of Energy

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