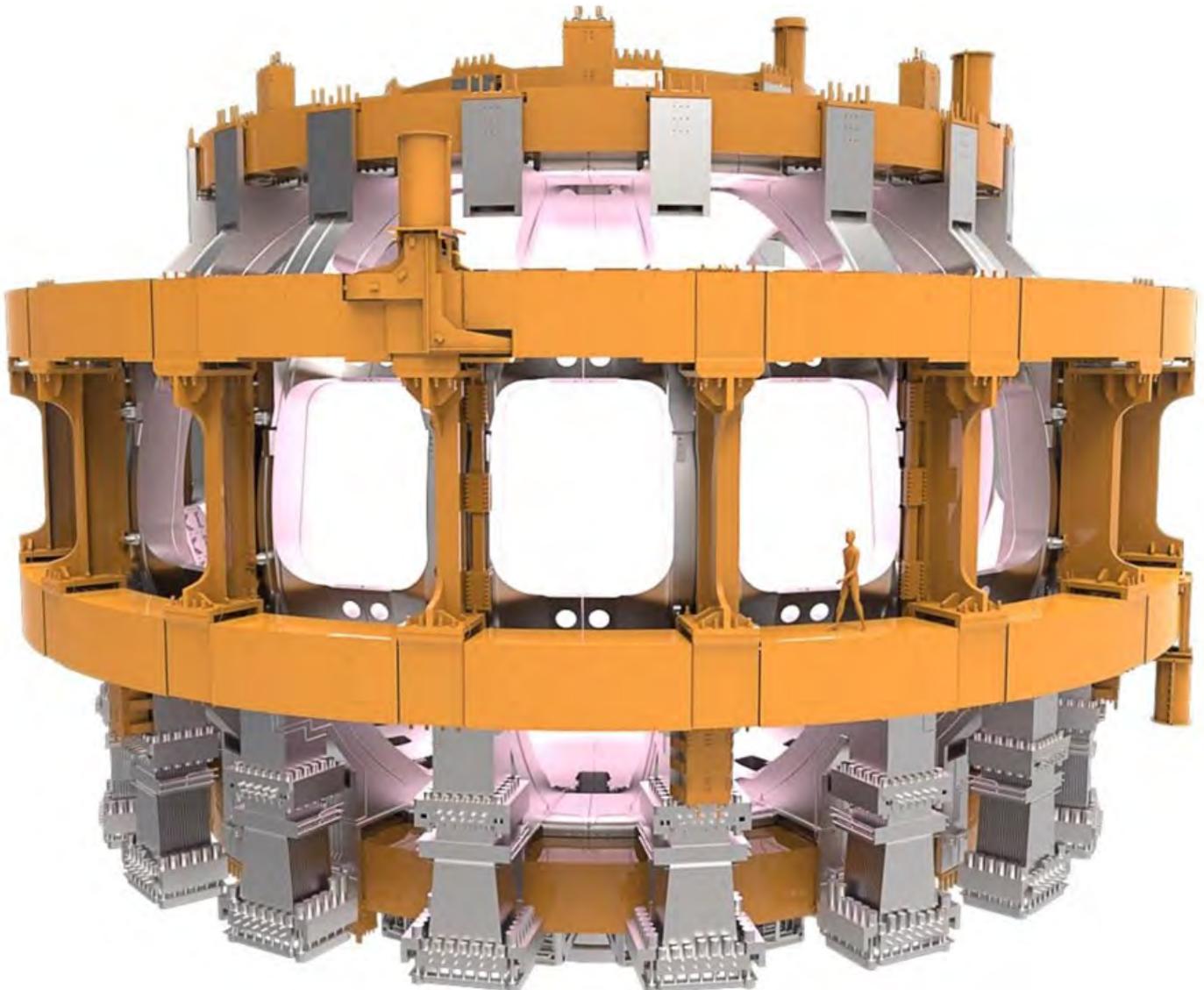




PF6 COLD TESTED AT TEMPERATURES SIMILAR TO PLUTO

All pictures courtesy of ITER



In the coming months ASG Superconductors will celebrate several important milestones for the production of the poloidal field coils that will be part of the biggest fusion device - ITER.

Seven parties are building the biggest Tokamak machine to test fusion energy through magnetic confinement.

This experiment will allow scientists to study a "burning plasma" that will produce a greater thermal output (500 MW).

Due to their large sizes, i.e. 17 and 24 m diameter, four of the six PF coils are manufactured on-site (Cadaroche), in a dedicated workshop under the supervision of Fusion For Energy. Once ready they will be handed over to ITER Organization for their assembly.

The PF coils will be positioned horizontally around the ITER vacuum vessel, and the 18 D-shaped toroidal field coils, to control the shape and stability of the plasma.

At the end of January, the sixth poloidal field coil left the factory and was put into storage until assembly. It was manufactured jointly by F4E and ASIPP (China). Then, it was cold-tested at 80 K by ASG and F4E. A temperature similar to Pluto - the furthest and smallest planet in our Solar system.



In April, the fifth poloidal field coil will be completed. It's the first to be entirely manufactured on-site.

The first part of its production has been performed by CNIM following ASG Superconductors manufacturing procedures and drawings, constantly under our and F4E's supervision.

The insertion into the tokamak pit of the sixth and fifth coils, will pave the way for an important ITER milestone: the start of TF (Toroidal Field) coil assembly inside the Tokamak building, where the machine will be housed.

This year the second poloidal field coil will be delivered. Its diameter is around 17 m.

In the meantime, the fourth poloidal field coil is in progress, with a diameter of around 24 m.

Together with Fusion for Energy and the other companies, we continue to work every day for fusion energy.

We will keep you informed on the progress of the biggest international partnership that will bring the power of the Sun to Earth.

#ITER #magnets #pfcoils #tokamak #coldtest #f4e #manufacturing #innovation #fusionenergy

