

# ITER ORGANIZATION CONSTRUCTION UNDERWAY

The ITER Organization entered an important phase of its history in August 2010, when construction began on the first of 39 buildings and technical areas of the ITER scientific installation. Today, work is accelerating on the walls of the Tokamak Complex and on the auxiliary buildings that will house the many systems required for machine operation (power supply, cryogenics, cooling water ...). As part of its in-kind contribution to the ITER Project, Europe is financing and supervising the construction of nearly all buildings.



The ITER switchyard (located off this diagram, to the right) will dispatch electricity from the local 400 kV double power line to seven transformers on the ITER site. The first four transformers have been "energized" in order to meet the needs of the emerging scientific installation.



The ITER machine will be assembled from bottom to top in this space - the six-storey bioshield that was completed in 2018 (inside E).



The Tokamak Complex (E), at the heart of ITER construction, is rising around the circular arena where machine assembly activities will begin in 2018. Photo: ITER Organization/EJF Riche

## KEY

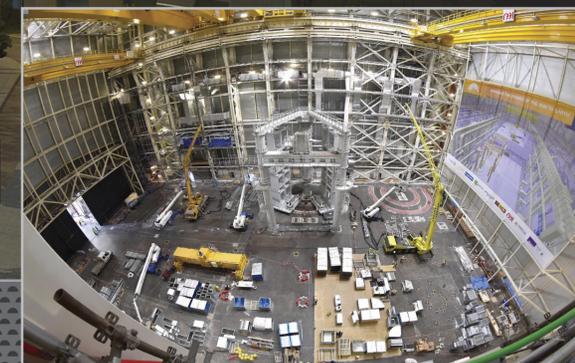
- (A) ITER HEADQUARTERS
- (B) CONTROL ROOM
- (C) COOLING TOWERS
- (D) HOT CELL
- (E) TOKAMAK BUILDING
- (F) NEUTRAL BEAM HIGH VOLTAGE POWER SUPPLY
- (G) ASSEMBLY BUILDING
- (H) MAGNET POWER CONVERSION
- (I) CRYOPLANT
- (J) COIL WINDING FACILITY
- (K) RADIO FREQUENCY BUILDING



After recuperating the heat of the ITER machine, the water circulating in the installation will be transferred to this zone (C) where it will be cooled using an evaporative process in tall cooling towers. Photo: ITER Organization/EJF Riche



The extensive cryogenic power needed to cool the ITER magnets, thermal shield and cryopumps will be delivered from a single location on the ITER site - the 5,400 m<sup>2</sup> cryoplant (I). Installation is underway now.



Pre-assembly activities for the largest machine components will be carried out in the Assembly Building (G), before the components are transferred by overhead crane to the Tokamak assembly area (E).

THE ITER PROJECT IS CURRENTLY UNDER CONSTRUCTION IN SOUTHERN FRANCE,  
ON A SITE 75 KM NORTH OF MARSEILLE.