

CADARACHE, FRANCE

# ITER Fusion Reactor



**Currently valued at more than €20 billion, ITER is expected to achieve first plasma by December 2025.**

The ITER Organization was established in 2006 through an international agreement between seven member states: the European Union, India, Japan, China, Russia, South Korea, and the United States. Funded and administered by its members, ITER is building the world's largest and most advanced tokamak reactor – an experimental machine designed to harness the energy of fusion. The ITER Tokamak fusion reactor will be a unique experimental tool to demonstrate fusion reaction on a much larger scale than previously achieved. Able to hold ten times the plasma volume of the largest machine operating today, the ITER Tokamak is expected to produce 500 MWe of output power for 50 MWe of input power, or 10 times the amount of energy input.

Design and construction of the ITER facility began in 2007. Under a framework contract awarded in 2010, PT&C supplied the ITER Organization with experienced project controls managers, cost estimators, schedulers, and risk analysts. PT&C provided project controls management for the tokamak fusion reactor vessel and all other key systems; cost estimating support for all project areas including the tokamak, auxiliaries and facilities; and scheduling/ planning support for the tokamak integrated project schedule.

When the ITER Council requested that the organization update its baseline by evaluating all baseline deliverables from 2015 through 2025, PT&C worked onsite – with international participants, site technical officers, engineers, and the project management office – to re-assess scope, costs, schedule and risks associated with the ITER project. The schedule baseline was unanimously approved by the ITER Council in June 2016. The ITER Organization exercised the optional 3-year extension of PT&C's 5-year framework contract to provide project controls expertise.

## Acuity's role at ITER included:

- Leadership in effective project analysis and management.
- Project planning and scheduling for the TOKAMAK reactor and auxiliary system.
- Reliable cost estimating and risk analysis.
- Coordination of project roles and interdependencies of the international contributors.

**703.261.1110**

Call now and learn more.

