Nuclear and Aerospace industries

We bring our capabilities in the management of major-scale projects and high value engineering offerings to the non-hydrocarbons Energy market
Over the years, we have developed a recognised expertise in the Metals & Mining sector with several successfully executed projects. Through our Nuclear, Aerospace and Mining & Metals Business Unit, we extend our capabilities in the management of major-scale projects and high value engineering offerings to the non-hydrocarbons energy market.

**Our services offering in the Nuclear sector**

Technip provides engineering services from basic to detailed design, project management, control assistance and construction services.

We are involved at several stages of the nuclear industry chain, from mining (upstream) to chemistry and reprocessing (downstream).

In 2010, TSU Projects, a jointly-owned subsidiary of Technip and SGN (Areva Group), worked on the Imouraren project, the world’s largest uranium ore treatment project. This particular year also marked the beginning of cooperation with leading global industry players on a number of different consultancy missions, focusing initially on project management and control.

In January 2012, ANDRA (the French radioactive waste management agency) awarded Technip the design from scoping to detailed engineering of a nuclear waste underground storage facility.

**Our services offering in the Aerospace industry**

Engineering services have been provided by Technip to the Aerospace industry, since 2000, year of the acquisition of SNPE Engineering by the Group.

We carry out various technical studies, project management and construction services for aeronautics systems, manufacturing, storage and maintenance facilities, technical assistance for military programmes, design and safety studies for energetic materials facilities etc.
Over the years, Technip has successfully delivered several large-scale and prestigious projects.

**Energetic materials**

**U.P.G. Guiana’s Propellant Plant**

Client: ESA – CNES
Manufacturing of Ariane 5 booster (propellant) manufacturing plant

**Missions carried out by Technip**
- Engineering, Procurement services including conceptual study, basic design, and detailed design

**An ongoing project**
- Studies: 1986 - 1988
- Plant upgrade and retrofit: 2006 -2012

**Valduc - France**

Client: CEA
Project building 218, nuclear material recycling

**Missions carried out by Technip**
- Engineering, Procurement and Construction Management from preliminary studies to construction, commissioning and start-up

**EPR nuclear power plant in the UK**

Client: EDF CNEN then EDF DIN UK

**Missions carried out by Technip**
- Consulting and advice about planning management, assistance to EDF for project control

**ANDRA - CIGEO**

In early 2012, the Gaiya joint-venture was awarded a contract by ANDRA to be the main contractor of the future Industrial Center for Geological Disposal (Cigéo - Centre industriel de stockage géologique) planned to be located in the East of France.

ANDRA is the French Radioactive Waste Management Agency in charge of the long-term management of all radioactive waste in France.

Cigéo is designed to provide long-term confinement for the waste and to ensure that the storage is reversible during 100 years.

This contract is in the framework of the French law of June 28, 2006, making ANDRA responsible for designing and setting up a storage center for high-level and intermediate-level long-lived waste.

It covers Cigéo’s conceptual and front-end phases. The first conceptual study phase, to be conducted in 2012, will prepare the public consultation that will take place in 2013.

Illustration: courtesy of ANDRA
QHSE, a strong value within Technip

At Technip, we protect people and safeguard the planet through a continual quest for excellence and a commitment actioned by everyone at every level in the organisation.

Olkiluoto 3 Nuclear Power Plant - HSE award for the Technip Project Team

Since November 2010, Technip’s yard in Pori, Finland, has been designing, manufacturing, delivering and installing permanent steel structures for Areva in the Nuclear Island buildings of the Olkiluoto 3 Nuclear Power Plant, Finland, under construction. The Technip OL3-site team recently won the HSE award given each month by the client to one contractor for their HSE performance. Areva described Technip as a “proactive and rules-respecting company with well-prepared method statements/risk assessments”. Other criteria for the award include monthly safety statistics, general housekeeping level and speed of corrective actions.