POWER & ENERGY
Techint Engineering & Construction provides Engineering, Procurement, Construction, Operational and Management solutions for large-scale projects at a global level.

Thanks to its broad experience and its local roots in every country where it operates, Techint E&C is able to develop high complexity projects, from design to start up, protecting the environment and ensuring the welfare of the surrounding communities.

Techint E&C designs and delivers cost-effective and sustainable solutions to its customers worldwide by participating from an early stage of the project and following up its development until the facility is operating.

Through its engineering centers in Argentina, India, Italy and Mexico, Techint E&C develops feasibility studies and basic and detailed engineering, bringing best-in-class technology, and constructability and modularization solutions to its customers.

With 70 years of experience and 25,000 employees worldwide, Techint E&C has completed more than 3,500 projects in America, Europe, Middle East and Africa.

**PESQUERÍA POWER PLANT PROJECT: A CASE OF INTEGRATED ENGINEERING SERVICES**

Techint E&C’s most recent and challenging project has been the Power Plant in Nuevo León State, Mexico: a 900 MW combined cycle power plant made up of three gas and one steam turbines. Techint E&C teamed up its engineering centers in order to deliver best-cost solutions in a very tight schedule.

Our professionals in Mexico brought in their extensive knowledge of local regulations and codes, our team in Argentina developed basic engineering on the GE’s Power Island and its related purchasing support, whereas our engineering center in India provided 3D modeling knowledge and capabilities as well as noise prediction studies. In total, 290,000 engineering man-hours to design one of the largest power plants of its kind in the country.
Techint E&C designs and builds power generation plants in the entire range of conventional and unconventional technologies: from fossil-fuel units in conventional thermal, open cycle and combined cycle configuration, to nuclear, hydroelectric, waste-to-energy plants and renewables.

Transmission lines and substations are also part of the Techint E&C’s capabilities, as far as consultancy, engineering and project management services both for new plants and retrofitting.

WE COVER THE ENTIRE RANGE OF POWER PLANTS

CUSTOMIZED SUSTAINABLE PROJECTS

Through strategic alliances with key equipment and turbines manufacturers, Techint E&C aims at increasing plant efficiency and minimizing emissions.

We implement state-of-the-art gas turbines, steam turbines, boilers with high efficiency and low emission technology, including pollution – NOx, SOx, CO2 – control technologies.

Techint E&C is committed to reaching the target of zero accidents and making a contribution to the sustainable development of the countries where it operates. All the projects are executed under ISO 9001 (Quality Management System), ISO 14001 (Environmental Management) and OHSAS 18001 (Occupational Health and Safety Management System).

MORE THAN 300 POWER GENERATION PLANTS AND 200 TRANSMISSION LINES AND SUBSTATIONS BUILT IN SEVERAL COUNTRIES.

LONG-TERM EXPERIENCE

Techint E&C’s experience in the Power segment dates back to the 50s, with the development of engineering and construction of hydropower plants and transmission lines in Argentina and Brazil. Since then, the company has developed more than 300 power generation plants (more than 12,000 MW installed in combined cycle power plants) and 200 power transmission lines and substations: more than 7 million kVA in electric substations and more than 23,000 km in transmission lines installed.

We have an extensive experience in industrial equipment, covering all power plant ancillary systems, such as fuel and residues handling and treatment, water treatments, main and auxiliary cooling, water intake and outfall infrastructures, Balance of Plant, site improvements and plant integration (cogeneration, district heating, etc.).
INTEGRAL SOLUTIONS FOR OUR CLIENTS

PESQUERÍA POWER PLANT
CUSTOMER: TECHGEN (TECPETROL/TERNIUM/TENARIS)
SERVICES PROVIDED: Engineering, procurement, construction and start up of a 900 MW combined cycle power complex (three gas and one steam turbines), including a 400 kV electrical substation, transmission line and Zero Liquid Discharge water treatment system.

PUNTA NEGRA HYDROELECTRIC POWER PLANT
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction and start up of a hydroelectric project over San Juan River for basin regulation, irrigation and power generation. Works include dam, two 32.5 Francis-type turbines, intake structure and headrace tunnel, and transformer station.

SCANDALE 800 MW COMBINED CYCLE POWER PLANT
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction, commissioning, start up and tests of a combined cycle thermoelectric power plant comprising two 400 MW units with a multi-shaft configuration, designed in compliance with the latest environmental regulations.

ATUCHA II NUCLEAR POWER PLANT
CUSTOMER: NUCLEOELÉCTRICA ARGENTINA S.A. (NA-SA)
SERVICES PROVIDED: Detailed engineering, construction and start up assistance at the Reactor Auxiliary Building, as well as finishing works including civil works completion services, insulation, painting and electrical installation.

TRANSMISSION LINE SIEPAC LOTE 1
CUSTOMER: EMPRESA PROPIETARIA DE LA RED (EPR)
SERVICES PROVIDED: Design for final engineering, material and equipment procurement, civil and electromechanical works, final tests and start up of the transmission line interconnecting with the systems through the region.

CALABRIA, ITALY
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, construction and start up assistance at the Reactor Auxiliary Building, as well as finishing works including civil works completion services, insulation, painting and electrical installation.

GUERRERO, MEXICO
CUSTOMER: COMISIÓN FEDERAL DE ELECTRICIDAD (CFE) / CARBOELÉCTRICA DIAMANTE
SERVICES PROVIDED: Project engineering, procurement, construction, tests and start up of the 650 MW plant. Works included coal handling system, ash and fly ash handling system, and water and wastewater treatment system, among other facilities.

NUEVO LEÓN, MEXICO
CUSTOMER: TECHGEN (TECPETROL/TERNIUM/TENARIS)
SERVICES PROVIDED: Engineering, procurement, construction and start up of a 900 MW combined cycle power complex (three gas and one steam turbines), including a 400 kV electrical substation, transmission line and Zero Liquid Discharge water treatment system.

SAN JUAN, ARGENTINA
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction and start up of a hydroelectric project over San Juan River for basin regulation, irrigation and power generation. Works include dam, two 32.5 Francis-type turbines, intake structure and headrace tunnel, and transformer station.

BUENOS AIRES, ARGENTINA
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction and start up assistance at the Reactor Auxiliary Building, as well as finishing works including civil works completion services, insulation, painting and electrical installation.

EL SALVADOR-GUATEMALA-HONDURAS
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction and start up assistance at the Reactor Auxiliary Building, as well as finishing works including civil works completion services, insulation, painting and electrical installation.

BUENOS AIRES, ARGENTINA
CUSTOMER: ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO
SERVICES PROVIDED: Detailed engineering, procurement, construction and start up assistance at the Reactor Auxiliary Building, as well as finishing works including civil works completion services, insulation, painting and electrical installation.

GUERRERO, MEXICO
CUSTOMER: COMISIÓN FEDERAL DE ELECTRICIDAD (CFE) / CARBOELÉCTRICA DIAMANTE
SERVICES PROVIDED: Project engineering, procurement, construction, tests and start up of the 650 MW plant. Works included coal handling system, ash and fly ash handling system, and water and wastewater treatment system, among other facilities.
WE PARTNER WITH LEADING TURBINES MANUFACTURERS TO PROVIDE BEST-IN-CLASS TECHNOLOGY.

**LOS CARACOLES HYDROELECTRIC POWER PLANT**

**Customer:** ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO  
**Services Provided:** Engineering procurement, electromechanical erection, construction, pre-commissioning, start up of a new dam over the San Juan River. The plant is equipped with two 65 MW Francis-type turbines and a 43 km power transmission line (134 kV).

**TURBIGO 800 MW REPOWERING OF THE EXISTING POWER PLANT**

**Customer:** ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO  
**Services Provided:** Engineering procurement, electromechanical erection, construction, pre-commissioning, start up of a new dam over the San Juan River. The plant is equipped with two 65 MW Francis-type turbines and a 43 km power transmission line (134 kV).

**MANUEL MORENO TORRES HIGH POWER TRANSMISSION LINE (STAGE II)**

**Customer:** ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO  
**Services Provided:** Engineering procurement, electromechanical erection, construction, pre-commissioning, start up of a new dam over the San Juan River. The plant is equipped with two 65 MW Francis-type turbines and a 43 km power transmission line (134 kV).

**PUERTO NUEVO COMBINED CYCLE POWER PLANT**

**Customer:** ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO  
**Services Provided:** Engineering procurement, electromechanical erection, construction, pre-commissioning, start up of a new dam over the San Juan River. The plant is equipped with two 65 MW Francis-type turbines and a 43 km power transmission line (134 kV).

**SURALAYA THERMAL POWER PLANT**

**Customer:** ENERGÍA PROVINCIAL SOCIEDAD DEL ESTADO  
**Services Provided:** Engineering procurement, electromechanical erection, construction, pre-commissioning, start up of a new dam over the San Juan River. The plant is equipped with two 65 MW Francis-type turbines and a 43 km power transmission line (134 kV).