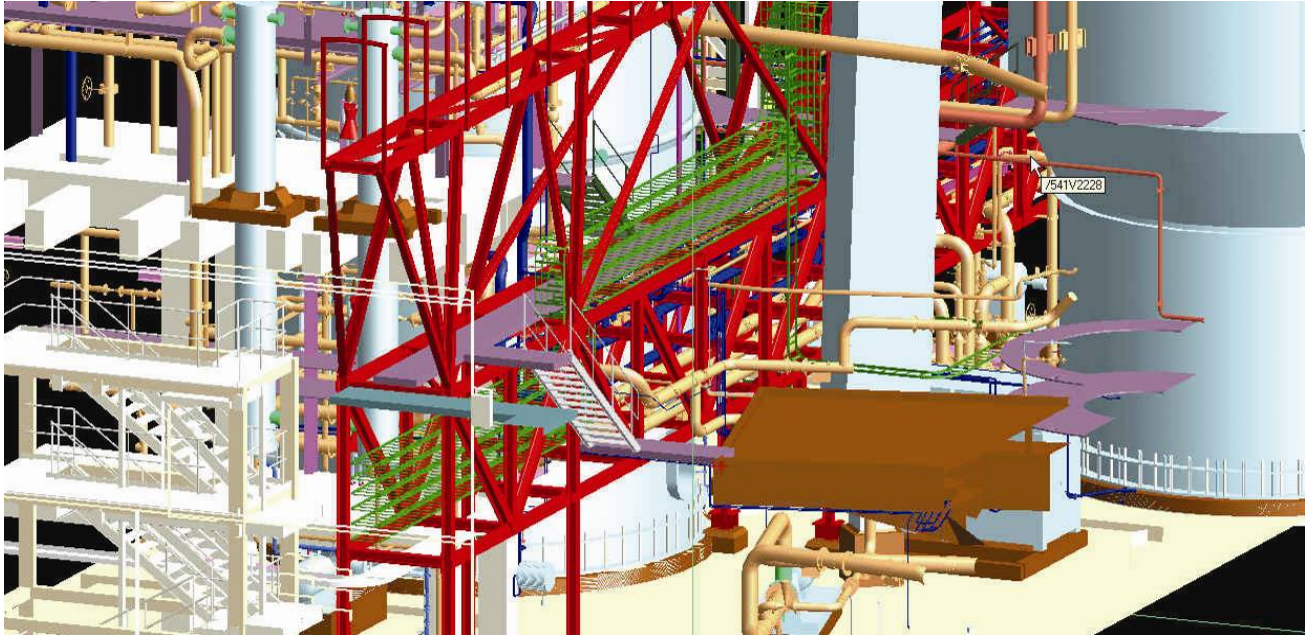


BUILDING AND CIVIL ENGINEERING SERVICES FOR INDUSTRY AND ENERGY PLANTS – A WSP CAPABILITY



WSP's multi-disciplinary capability enables us to offer fully integrated delivery teams to local and global clients. Our broad knowledge base includes the project's life cycle including surveys, studies, planning, engineering and design to supervision, management, inspection and maintenance. We have a strong track record on both new build and refurbishment work for major blue chip, medium sized and public sector organisations throughout the world.

With our wealth of experience we have provided services in over 100 countries and are active in many industrial sectors such as power generation, transmission and distribution, steel and metal processing, timber, pulp and paper, mining and mineral, oil and gas, chemical, food and beverages, pharmaceutical and biotechnology as well as automotive.

Our experience in the energy sectors includes renewals, such as wind power industry, biomass plants, waste-to-energy plants, and hydro power plants, as well as nuclear and conventional power sectors, including thermal, coal and peat power plants.

Drawing on our wide-ranging and shared experiences from working with many of the leading industries and energy sector clients, we are continuously striving to develop and improve our quality and services in order to deliver value adding project investments. We aim to effectively merge the links between process, construction, civil design and site execution to ensure minimum interface problems, more effective and reliable communication throughout the project for all parties involved, resulting in tangible time and cost savings for our clients. Development and innovation feature in every aspect of our work – in the design, project management, technical

solutions and advanced BIM modelling. In short, quality managed totality.

Balancing innovation with commercial considerations, and leveraging both lessons learned and value added during the successful delivery of major projects is the core to our approach. Our teams are keen to share the experiences from a wide portfolio of projects, which embrace the key elements of the scheme. We have established a world-class client base and enjoy a high level of repeated collaboration.

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BUILDING AND CIVIL ENGINEERING SERVICES FOR INDUSTRY AND ENERGY PLANTS – OUR REFERENCES



Kvarnsveden



Olkiluoto

Nuclear Power Plant Olkiluoto 3, Finland

TVO's new nuclear power plant is the single largest investment in the industrial history of Finland. The production of electricity in Olkiluoto 3 is scheduled to start in 2012. Olkiluoto 3 is a pressurised water reactor with type designation EPR (European pressurised water reactor). The plant has a capacity of 1,600 MW. The construction of the unit is the responsibility of a Franco-German consortium of Areva NP and Siemens AG on a turnkey basis. WSP has been commissioned to fulfil a number of tasks in the project, from engineering and design to supervision and third party verification.

Kvarnsveden Paper Mill, Sweden

One of Sweden's largest industrial projects of the contemporary era is the paper mill in Borlänge located in the heart of the country. Stora Enso has invested in the world's fastest paper machines to produce the high-grade SC paper used in glossy magazines. The newest machine, called PM12, has an estimated annual capacity of 420 000 t.

Goole Float Glass Plant, United Kingdom

Guardian is one of the world's largest manufacturers of float glass and fabricated glass products. WSP were appointed to provide the civil and structural engineering for Guardian's float glass plant in Goole at junction 36 of the M62. WSP provided the client with a team of engineers with experience of glass manufacturing plants presenting them with tried and tested solutions, and supported the client with their knowledge of statutory procedures, permits, UK construction processes and regional knowledge.

Santa Fe Pulp Mill, Nacimiento, Chile

The CMPC Celulosa S.A. pulp mill is located in Nacimiento 500 km South of Santiago. The mill produces pulp from eucalyptus. A particular challenge was the need for earthquake resistant structures. The domestic Chilean seismic regulations impose strict standards on structures and equipment and compliance with these regulations is checked by qualified external inspectors. WSP was the designer of the soda recovery unit for the project. The quality of the engineering was verified during the Maule region earthquake in 2010, which was the strongest

earthquake worldwide since the 2004 Indian Ocean earthquake.

Ormen Lange Gas Processing Plant, Norway

Ormen Lange is the second largest gas field in Norway located 120 km northwest of the More Coast in a sub sea depression left by the Storegga slide 8,000 years ago. The field is situated in water depth of 800 to 1,100 m where climatic and oceanographic conditions, including sub-zero temperatures and strong current make it one of the most challenging projects in the world. The gas is transported to shore, where processing will take place, and exported to Easington on the east coast of England through the world's longest sub sea export pipeline – 1200 km.

Westfalen Power Station New Units, Germany

RWE, Germany's largest power producer, operates the Westfalen Coal Station which comprises 3 units commissioned in 1960's. This project expands the capacity of the existing power station in Hamm using advanced ultra-efficient power station technology and optimised operation processes. The new D and E units are set to come on stream mid 2011 and early 2012 respectively, with a total output of approximately 1,600 MW. The new plant, like the existing one, will be fired by hard coal and petroleum coke.