

Improvement of navigation on the Magdalena River, Colombia

Water

With more than 100 years of experience, Tractebel provides high level engineering solutions to public and private organisations for the implementation and operation of large infrastructures in the field of Hydropower, Water Resources, Water Supply and Sanitation.

Tractebel carries out its mission on the world market, with its diversity of cultures, languages and climate conditions, by listening to and understanding every one of its Customers and Partners.

Developing, planning, designing and supervising the construction of water projects require multi-disciplinary engineering skills. Our specialists have acquired their know-how and expertise over several decades of extensive experience of implementing all sizes of projects around the world.

Our consultancy and engineering services encompass the entire life cycle of a project from conceptual or early planning studies through construction and commissioning of schemes up to operation support and rehabilitation. It includes not only state-of-the-art engineering services but also advisory services to accompany the development of your project.

Tractebel, your water engineering & advisory partner.

over
€140M
water turnover

over
700
water experts worldwide

projects in more than
100
countries

over
1,000
ongoing water projects

AREAS OF EXPERTISE

Water Resources and Climate Change

- Climate change resilience and adaptation
- Sustainable river basin development
- Hydrology and floods
- River hydraulics
- Sediment management
- Irrigation

Hydraulic Infrastructures

- Waterways, locks and ship lifts
- Dams
- Geotechnics and underground works
- Water transfers and pumping stations

Hydropower

- Large hydropower projects
- Micro and small hydropower projects
- Pumped storage plants
- Hydro and electromechanical equipment

Coasts, Ports and Marine Facilities

- Hydrometeorological hazards
- Coastal erosion and estuarine flood management
- Ports and terminals
- Dredging consultancy

Water Supply and Sanitation

- Water and wastewater treatment plants
- Desalination
- Water distribution networks
- Wastewater collection & stormwater drainage
- Effluent re-use

Digital Services

- Hydro-informatics and numerical modelling
- Digital platforms for monitoring and forecasting
- Industrial cybersecurity

Environmental and Social Consultancy

Economic, Financial and Transaction Advisory

OUR ORGANISATION

Home to five of the world's leading water engineering companies, Tractebel is a global player in the sector. Combining the skills of these unique companies makes Tractebel your truly reliable partner for realising any of your water projects, wherever they are.



OUR FULL LIFECYCLE SERVICES



SELECTED REFERENCES

Water Resources & Climate Change

Nepal, flood hazard project of 25 major river basins, pre-feasibility studies with climate change scenarios, 2015-2016

Belgium, quantifying and mapping of drought as impact of climate change, 1.3 million ha hydrologic drought modelling, 2018-2019

Sri Lanka, Mahaweli water security investment programme, 103,000 ha irrigation and drinking water project, detailed design, construction supervision, institutional development and environmental assessment, 2015-2020

Namibia, Oshakati, design of drainage and flood protection dykes to protect the city, 2011-2014

Hydraulic Infrastructures

Panama, third set of lock complex, reference design of locks, hydraulic modelling, technical assistance, review of design build & documents, 2002-2018

Egypt, Assiut dam and ship locks, layout studies, hydraulic modelling, EIA, geotechnical investigations, tendering and construction supervision, 2008-2017

India, Song dam, update of design project review, 148 m high concrete dam for water supply & ground water recharge, since 2018

France, real-time traffic capacity and trajectory studies on the Seine-Nord, 240 km network of inland waterways, since 2017

Hydropower

Ethiopia, Grand Renaissance, 6,000 MW, design review and construction supervision, since 2012

Brazil, Jirau HPP, 3,750 MW, design, project management and construction supervision, 2008-2016

Kyrgyz Republic, Toktogul rehabilitation, 1,200 MW, assistance during tendering process, design review and site supervision, since 2016

Morocco, Abdelmoumen pumped storage, 350 MW, construction design review and assistance for site supervision, 2010-2015

Coasts, Ports & Marine Facilities

West Africa, coastal areas management programme, disaster risk reduction and climate change adaptation measures for coastal erosion and flooding, 2016-2017

Uruguay, Montevideo LNG terminal, owner's engineer, site supervision, design of the marine infrastructure and dredging, detailed design breakwater & scour protection, environmental management, 2011-2012

Singapore, TUAS terminal scour protection, design of scour protection for a new quay wall including physical modelling and CFD modelling for propeller induced forces, 2015-2017

Ecuador, Guayaquil channel sedimentation, in situ measurements and numerical model to determine maintenance dredging volumes in a navigation channel, 2017-2018

Water Supply & Sanitation

Qatar, water security mega reservoirs, implementation of the world's largest water reservoirs, 475 km of main transmission pipelines, since 2013

Colombia, wastewater treatment plant Medellín, 432,000 m³/d, design and advisory during construction, 2010-2018

Uganda, waste water treatment plant Kampala and sewerage system, 45,000 m³/d, design and construction supervision, 2010-2018

China, Bayanaoer, 100,000 m³/d waste water treatment plant and reclamation plant, 2011-2014

Desalination

Saudi Arabia, 8 sea water reverse-osmosis plants for SWCC, 220,000 m³/day, owner's engineer since 2019

Tunisia, 6 brackish water plants, 32,500 m³/day, design review, tendering and construction supervision, 2017-2022

Digital Services

EcoPAM: Ecological Pro-Active Management tool, is an online tool to forecast the impact of dredging plumes on sensitive areas, 2012-2019

Colombia, operational decision support platform for the Rio Bogota, platform to evaluate and adopt future qualitatively and quantitatively water planning strategies, 2015-2017

Environment & Social Consultancy

Brazil, Belo Monte HPP, Environmental Impact Assessment Studies (EIA/EIAR) and Basic Environmental Plan, 2009-2016

Malawi and Tanzania, Songwe river basin development programme, strategic environmental and social assessment, specific ESIA's and RAPs, 2013-2015

Economic, Financial & Transaction Advisory

Senegal, concession contract and tariff framework for the Senegal River water resource availability, update of legal, regulatory and tariff framework for water provision, 2018-2019

Guinea, Souapiti HPP transaction services, contractual advisory for developing the 450 MW greenfield project, 2016-2018