



Cibe 3 Hydropower plant

Ethiopia

At the helm of the Energy Transition, Tractebel provides a full range of services throughout the life cycle of its clients' projects.

As one of the world's leading engineering and advisory companies and with more than 150 years of experience, we are able to offer our customers multidisciplinary solutions in **energy, water** and **urban**.

Our broad range of expertise extends across Europe, Africa, Asia, Middle East and Latin America, allowing us to rise to our clients' most demanding challenges with the same high-quality engineering and advisory services no matter where their projects are.

Tractebel holds international certifications that testify to its Commitment to Excellence in Quality, Health, Safety and Environment as well as Ethics with the Anti-Bribery Management System and implements the United Nations Sustainable Development Goals.

Tractebel has developed over **600 projects in Africa** since 70 years and has **200 experts**.

Leveraging on 30 years of experience in Ethiopia working on large strategic projects, Tractebel is proud to be a partner to Ethiopia for its sustainable development and to have established long-term business relations with the local authorities and private companies.

OUR MISSION

Tractebel is determined to **contribute to a better sustainable future** for Ethiopia tackling the challenges in the fields of renewable energies (hydropower, wind, geothermal, ...), transmission and distribution, and water as well as infrastructures, smart cities and transport.

We are committed to **help our clients**, realizing their projects in a sustainable, competitive and reliable way.

AREAS OF EXPERTISES

ENERGY

- Renewables (Wind, Solar, Geothermal, Biomass...)
- Energy System Consultancy
- Digital & Decentralised Energy
- Nuclear
- Thermal Energy
- Transmission & Distribution
- Rural electrification
- Gas & LNG

WATER

- Hydropower
- Water Resources and Climate Change
- Irrigation
- Reservoirs and Dams
- Flood Protection
- Waterways
- Ports and Marine Facilities
- Water Supply and Sanitation
- Desalination
- Economical and financial studies
- Transaction advisory

URBAN

- Smart & Complex Buildings
- Transport & Mobility
- Urban Design & Master Planning
- Energy Efficiency
- Environmental & Social Program

SCOPE OF SERVICES

- Master plan and Roadmaps
- Due Diligence
- Pre-Feasibility & Feasibility studies
- Environmental & Social Impact Assessment
- Architect Engineer
- Owner's Engineer & Lender's Engineer
- Consulting Engineer
- Independent Engineer
- Project & contract Management

ENERGY

- **Ashegoda Wind Farm** 120 MW in Tigray region - Client: EEP. Feasibility Studies, Owner's Engineer for the management of the EPC Contracts (Project and Contract Management, Design Review, Construction Supervision).
- **Assela Wind Farm** 100 MW in Oromia region - Client: EEP. Feasibility Study and Environmental and Social Impact Assessment (ESIA) report.
- **Ethiopia - Djibouti Interconnection 220kV DC** - 280 km Transmission Line, Extension of Semera Substation (Ethiopia), Extension of 230/63/20 kV Jaban'as Substation (Djibouti). Project Management, Network and System Studies, Preparation of Technical Specifications and Tender Documents, Training.
- **Ethiopia - Kenya Interconnection 500 kV DC** - 1000+ Km Transmission Line, two 400kV AC to 500 kV DC substations and adjacent 400kV AC substations. Project Management Services, Design Review, FAT, Construction and Commissioning Supervision.
- **400 kV Transmission Line from GERDP to Beles** - Client: EEP under GERDP Contract. 240 km long TL with 400 kV Substation and 400/500 kV Interconnection Bay at GERDP Site.
- **500 kV Substation at GERDP** - Client: EEP under GERDP Contract. Owner's Engineer Services (Project and Contract Management, Design Review, Construction Supervision).
- **400 kV Switchyard at Gibe 3 Site** - Client: EEP under Gibe 3 HEP Contract. Owner's Engineer Services (Project and Contract Management, Design Review, Construction Supervision).

WATER

- **Gibe 3 HEP** - Client: EEP - 1870 MW Hydroelectric Plant with 240 m high RCC dam (**tallest in Africa**) with surface outlet works (discharge 15,000 m³/s), 2 power waterways (intakes, 950/740 m long 11 m power tunnels). Owner's Engineer for the management of the EPC Contracts.
- **Grand Ethiopian Renaissance Dam Project (GERDP)** - Client: EEP - 6000 MW Hydropower Plant (**largest powerplant in Africa**) with 150 m high RCC dam and 50 m high 5.3 km long CFRD dam, surface outlet works (discharge 20,000 m³/s). Owner's Engineer

for the management of the EPC Contracts (Project and Contract Management, Design Review, Construction Supervision)

- **Dam Break Analysis and Emergency Preparedness Plan** for GERDP;
- **Gafarsa Water Supply Project** - Client: AAWSA - Rehabilitation of two dams, water treatment plant (30 000 m³/day), two 15 km long 400 mm pipes. Prefeasibility study, Detailed Design, Tender Documents, Technical Assistance, Supervision of works.
- **Tis Abay II Hydropower Project** - Client: Ministry of Water Resources then EEP Co - 1.6 km long feeder canal for 150 m³/s, 2 penstocks, a 73 MW outdoor power plant with 2 units and a 30 km long 132 kV-line. Feasibility Study, Detailed Design, Tender Documents, Construction Supervision.
- **Tekeze Hydropower Project** - Client: Ministry of Water Resources. Arch dam (height = 185 m), spillway of 4500 m³/s, 300 MW (4 units) power house with switchyard and HV transmission lines. Prefeasibility Study, Feasibility Study, Detailed Design, Tender Documents and Environmental Impact Assessment.

URBAN

- **Bridge on the Omo River** - Client: EEP under Gibe 3 HEP - 90 m long road bridge over the Omo River in Southern People and Nationalities region. Owner's Engineer Services for the management of the EPC Contract.
- **Welayta-Chida-Sodo Road** - Client: EEP under Gibe 3 HEP - 90 km long road project. Owner's Engineer Services for the management of the EPC Contract.
- **Two road bridges on the Blue Nile River** - Client: EEP - 240 m long road bridges over the Blue Nile River in Benishangul Gumuz region. Owner's Engineer Services.
- **240 km road relocation project** - Client: EEP under GERDP Contract - 240 km roads in Benishangul Gumuz region. Owner's Engineer Services for the management of the EPC Contract.



KEY FIGURES

Presence in more than **70 countries**
 Projects developed in over **160 countries**
5,000 employees
€671 Million turnover
600 projects in Africa
200 experts on Africa continent

Local contact

Ethiopia Operations Manager - Yared.girma@tractebel.engie.com
 Business Developer - Ashenafi.girma@tractebel.engie.com
 City Addis Abeba Zone/SubCity Kirkos
 Woreda 08 House No New Tel No 092278425



 Location of our projects