

### Engineering Services for Current Converters

**LOCATION:** worldwide

**SERVICES:** Commissioning, Documentation, As-built status and data recording, Pre-project planning and tendering, Basic-engineering and pre-engineering, Detail engineering, Maintenance

**INDUSTRY BRANCH/TYPE OF PLANT:** , Power plants, Industrial systems, Chemical plants

#### POINTS OF CONTACT



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#### Task areas

- Planning current converters, e.g. preparing diagrams and circuit diagrams
- Test setups and carrying out tests in the engineering and final test area
- Commissioning rectifiers, current converters, exciter systems, starters, protection circuitry (pre-commissioning, connecting to load, connecting to grid)
- Grid synchronization
- Global Mobility: Management of international fiscal and registrative requirements

#### Contract types

- Contract staff/temporary personnel, service contract, works contract

#### Selected projects

- Hydroelectric power plants: Rheinfelden (CH), Unteraa (CH), Merowe (SD), Bailianhe (CN)
- Coal-fired power plants: Mazeikiu (LT), Maritza (BG)
- Aluminum smelters: Isal (IS), Alba (BH)
- Steel mills: Guofeng (CN), Angang (CN)
- Rolling mill: Toranagallu (IN)
- Oil production facility: Darquain (IR)
- Graphite electrode plant: Selangor (MY)
- Gas liquefaction plant: Bonny Island (NG)
- Chemical plants: Everest (TH), São Paulo (BR), Beer Sheva (IL)
- Traction current rectifier stations: Turgi (CH), Zurich (CH); gas compression plant: Haidach (AT)

#### References

## INP Reference

- ABB, Switzerland
- Alstom, Switzerland
- Bombardier Transportation, Switzerland
- Convertteam, Germany, France
- Siemens, Germany

### Systems

- ABB ACS, Unitrol, Megadrive LCI, PSR, Megatrol, AC 800 PEC
- Alstom P320 AVR
- Bombardier TRAXX
- Convertteam ALSPA C80-HPC (LogidynD2)
- Siemens RG3-T4, Simadyn D/Simatic TDC with CFC