

### ESPO – Pump Stations for Crude Oil Pipeline

**LOCATION:** Siberia, Russian Federation

**SERVICES:** Commissioning, Site management

**INDUSTRY BRANCH/TYPE OF PLANT:**

**CLIENT:** Transneft

#### Project description

The government of the Russian Federation granted Transneft – Russian state company and operator of the country's crude oil pipeline – the contract to construct the ESPO pipeline (Eastern Siberia - Pacific Ocean). It bears the name of its path and, at around 2,700 kilometers in length and investments of about 12 billion US dollars, in the first construction phase it reaches from Taishet (Irkutsk) to Skovorodino (Armur region), near the Chinese border. In addition to aspects of environmental protection, extreme regional conditions such as the risk of earthquakes in the highest category and ambient temperatures of up to minus 60 degrees Celsius pose particular challenges.

On the resulting section where six pump stations were built, INP supported ABB Switzerland within the overall project.

#### INP services

In addition to a supervisor and a technical site manager, INP provided a site manager whose area of responsibility extended beyond the following main tasks:

- mechanical and electrical installation
- contact partner in all logistical and commercial matters
- liaison to the customer (Transneft)
- responsibility for the whole process on-site, in collaboration with the Swiss INP office

#### Data

- 6 pump stations each with
  - 8 main transformers
  - 4 exciter transformers
  - 4 variable speed drive systems (ACS 6000)
  - 4 main motors (synchronous motor, 4-pin 14,500 kW; 3pH 50Hz)

#### POINTS OF CONTACT



**Thomas Jäger**  
Geschäftsführer  
INP Schweiz AG  
Spinnereistrasse 3  
5300 Turgi  
Schweiz  
Tel. +41 56 552 19 00  
[thomas.jaeger@inp-e.com](mailto:thomas.jaeger@inp-e.com)  
[www.inp-e.com](http://www.inp-e.com)