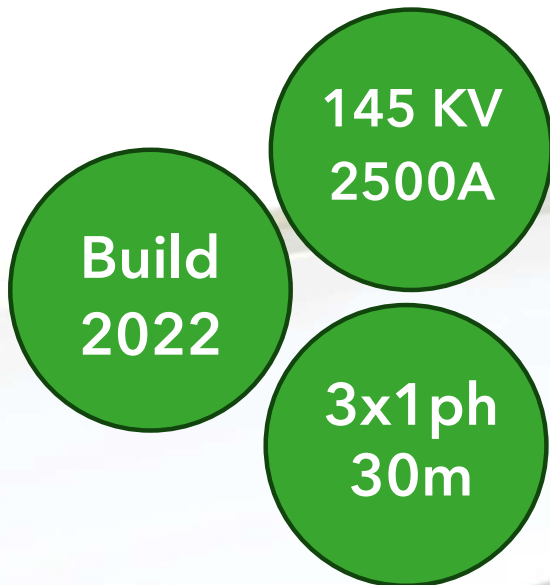


# Pressurized Air Cable 145 kV, 2500 A

## Pilot installation & Type tests



### Main ratings

- ⌘ Transmission power: 620 MW
- ⌘ Rated voltage: 145kV
- ⌘ Rated current: 2500A
- ⌘ Enclosure type: Single-phase
- ⌘ Isolation medium: Pressurized Air
- ⌘ Rated pressure: 10 bar
- ⌘ Country: CH

### Project description

This project was a pilot installation of pressurized air cables for 145 kV, 2500 A on a substation of Swiss railway operator. The cable was first type tested with FKH for AC, BIL and High current and then installed in triangular arrangement inside a protective PE tube of 710 mm diameter. Installation was done by Hivoduct from one side using our proprietary roller system. The system was energized by encapsulated HV transformer at  $145\text{kV}/\sqrt{3}$  for 1 year in one phase and at 2000 A continuous current in the 2nd phase. Pressure and temperature was monitored during 1-year successful operation. Many visitors were brought on-site to experience this new type of high-voltage cable. Project was supported by Swiss BFE funding.

**“This project was the first ever site installation of pressurized air cables. It was a successful milestone for this new technology”**  
**W. Holaus, CEO Hivoduct**

