

### Weather-dependent overhead line operation: Pilot phase and invitation to tender

**LOCATION:** Baden-Württemberg, Germany

**SYSTEM/TECHNOLOGY:** High voltage transmission networks

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

**INDUSTRY BRANCH/TYPE OF PLANT:** Green Energy, Transmission & Distribution, Other Industry Sectors

**CLIENT:** TransnetBW

**ACTIVITY PERIOD:** 2019-2020

#### Project description

As one of the four transmission system operators in Germany, TransnetBW GmbH continuously optimizes its power grid in order to adapt it to changing requirements in a forward-looking manner. The energy transition poses new challenges, especially for energy transmission.

The answer to the flexible feed-in of different energy sources is an adaptable transmission grid. One component of such a flexible grid is weather-dependent overhead line operation. By collecting weather data, power transmission capacity can thus be adapted to the prevailing weather conditions.

To implement this, 270 weather stations will be installed on overhead line masts and 30 weather stations on masts in substations along the power lines. The weather data will then be evaluated centrally and show detailed utilization capacities.

#### INP Services

INP Deutschland was commissioned with the supervision of the project with regard to the tender and pilot phase. Based on the experience gained from the pilot phase, the rollout of the remaining weather stations can be started.

- Preparation of bill of quantities
- Document review for contract conformity
- Comparison of the offers of all bidders
- Consulting
- Site inspections / photo documentation
- System thinking entire substation, gaps and collision detection

#### POINTS OF CONTACT



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