INP Reference

Renewal of Secondary Technology - Substation Daxlanden

LOCATION: Daxlanden, Karlsruhe, Germany

SYSTEM/TECHNOLOGY: 380 kV-AIS system

SERVICES: Project management, Pre-project planning and tendering, Installation supervision

INDUSTRY BRANCH/TYPE OF PLANT: Power Generation

CLIENT: TransnetBW

PROJECT SIZE: approx. EUR 1 million overall project size

Project description

At Daxlanden, TransnetBW GmbH and Netze BW GmbH operate a 380/220/110 kV substation. The TNG 380 kV AIS plant was built in the 1960s.

INP was commissioned as a general

contractor to carry out the preliminary planning for the renovation of the

secondary equipment of the existing 380kV system.

This rebuilding measure affects the areas of protection, remote and control system.

Scope of Work

Protection:

- Two new line safety cabinets
- A new coupling safety cabinet
- Adaptations of the remote stations (Philippsburg and Eichstetten)
- New loop for replacement switch operation.
- Wide-area cabinet of the 380 kV system will be expanded
- Creation of new fiber optic cable connections

Telecontrol/control systems:

- New conventional telecontrol technology for the existing 380 kV fields.

POINTS OF CONTACT

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- New alarm system EB/400 kV integrated in telecontrol technology 380 kV
- New on-site operating level 400 kV integrated in control systems
- Improvement of the redundancy concept for network technology
- Renewal of telemetry of existing 380 kV panels

INP Services

General planning services for pre-project planning Substation Daxlanden:

- Inventory control, preliminary studies
- Participation in the technical variant selection
- Pre-project planning
- Cost estimate
- Establishment of the schedule
- Specification sheet
- Execution of requirement specification
- Bid check, participation in discussion with bidders, award recommendation