

EWB Forsthaus substation (BE): high-voltage switchgear GIS, transformers, cable systems and plant control technology UW

Committente

Energie Wasser Bern (EWB) (Bern Power and Water Utility)

Progettazione

IUB Engineering Ltd.

Realizzazione

2009-2013

Costo dell'opera

CHF 5,500,000

Prestazioni

Planning and coordination with construction, tendering, planning and construction services, construction supervision and completion for the following components of the technical equipment:

- Switchgear GIS 132 kV
- 2 power transformers 132 / 10 kV; OFWF; 60 MVA and 40 MVA
- 1 standard power transformer 25 MVA
- Protection and equipment control system
- Earthing concept
- Cable system 132 kV
- Floor covering transformer trays
- Extinguishing system transformer room

Descrizione

The waste incineration plant Forsthaus in Bern was newly erected. The new plant has a wood, gas and steam combined power plant and produces district heating and electricity. The power produced in the plant is fed into the network via Forsthaus West Waste Incineration Plant Substation with 4-field, gas-insulated switch gear (132 kV), 3 transformers (60, 40 and 25 MVA) and cables via Holligen Substation.

Dati principali

- MWIP with heat and electricity production
- Water-cooled transformers
- Technical room with plant control system
- GIS and control room WTH: 7.6 x 9.0 x 12.5 m
- Transformer rooms: WTH 7.6 x 9.0 x 11.7 m
- Cable basement: H 2.5 m
- Mains voltages: 132 kV / 10 kV
- Max. power: 60 / 40 / 25 MVA

