

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

### Bauherr

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

### Projektierung

IUB Engineering Ltd.

### Zeitraum

2009-2013

### Baukosten

CHF 5,500,000

### Leistungen

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

### Beschreibung

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.

### Hauptdaten

- 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

