

EWB / Construction of Substation - Waste Incineration Plant Forsthaus West

Client

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

Consultant

IUB Engineering AG

Construction period

2009–2013

Construction costs

CHF 5,500,000

Services provided

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; ODFW; 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

Description

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.

Main technical data

Waste incineration plant with heat and power production, water-cooled transformers. Technical room with control & instrumentation.

GIS and control room	7.6x9.0x12.5 m
WxDxH	
Transformer tray WxDxH	7.6x9.0x11.7 m
Cable vault (H)	2.5 m
Voltage	132 kV / 10 kV
Max. capacity	60 / 40 / 25 MVA

