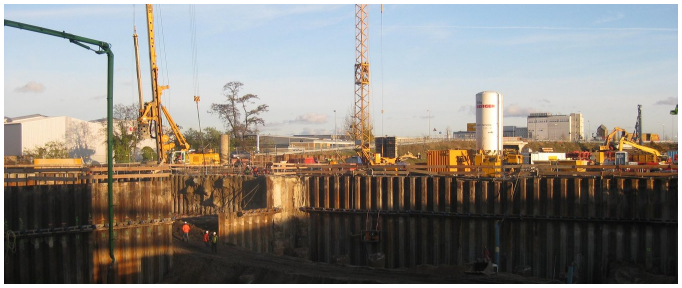
BBV SYSTEMS
WIR SORGEN FÜR SPANNUNG | WE STRESS FOR STRENGTH

Reference

Großkraftwerk Mannheim



SHORT DESCRIPTION

Construction of a coal-fired power plant block to ensure long-term electricity and district heating generation

THE PROJECT

As part of the project, the large Mannheim power plant was expanded to include an additional section - Block 9 - with an output of 911 megawatts. With this coal-fired power plant unit, Implenia is securing the generation of electricity and district heating in the long term.

The order for the new power station unit 9 was awarded to a consortium under the technical leadership of Implenia's predecessor company. The order included the expanded shell construction for the main and ancillary systems of the power plant, consisting of more than 26 individual structures, including the boiler house, machine house, two 128-meter-high stair towers and two 68-meter-high fly ash silos in sliding construction, switchgear building, E-filters, supply and Disposal building, coal storage and unloading as well as quay wall. Most of the structures are deeply founded.

The contract also included the execution of infrastructure work within the facility, such as roads, track systems and underground lines.

SERVICES IN DETAIL

- Main masses
- – Earthworks: 430,000 m^3
- – Reinforced concrete: 130,000 m^3, including sliding construction: 15,000 m^3
- – Formwork: 230,000 m^2
- – Underwater concrete: 15,500 m^3
- – Steel sheet piling: 39,400 m^2
- – Concrete piles: 26,500 running meters
- – Road construction: 5 km
- – Pipelines for sewer construction: 20 km
- – Track construction: 2.2 km

CHALLENGES

The moving and shoring of enormous masses had to be accomplished within a short time and on the spatially very limited construction area.

FACTS

Location	Mannheim , Germany
Status	completed
Start of construction	June 2009
Completion	October 2011

SERVICES

Excavation pits