CHEMPARK Dormagen







SHORT DESCRIPTION

Construction of a new boiler plant consisting of ten steam boilers, three steel pipe stacks, a natural gas reducing station and a transformer

THE PROJECT

Implenia constructed a new boiler plant at CHEMPARK Dormagen, its key elements being ten steel boilers, three steel pipe stacks, a natural gas reducing station with an adjoining cooling pit, and a transformer. The rated thermal input of the individual natural-gas-fired boilers is approximately 36.5 megawatts. The exhaust gases are released into the atmosphere via the adjoining multi-flue stacks.

The building work primarily involved reinforced concrete works (foundations, base slabs, adjoining ancillary buildings), rising steel construction with two platform levels, an all-round trapezoidal sheet façade (boiler house), and a thermal insulation composite system (ancillary buildings).

CHALLENGES

The logistics posed a significant challenge, since after completion of the base slab all ten boilers had to be built during the first construction phase on account of their size. It was not possible to begin work on the rising steel structures prior to this. The rest of the construction period was also subject to various plant protection measures, and had to be completed alongside the extensive pipeline and electrical installation work that was being conducted at the same time

SUSTAINABILITY

Compliance with the Implenia sustainability requirements for suitable construction processes and methods

FACTS

Location	Neusser Landstraße 406, Cologne , Germany
Status	completed
Construction volume (value of our services)	4.7 M EUR
Start of construction	December 2014
Completion	June 2016
Contracting entity	Bilfinger Piping Technologies GmbH
Planning	Bilfinger Piping Technologies GmbH - vertreten durch ihre BU Nord/Ost

SERVICES

Civil engineering

Industrial construction