



Presentation

**KIB – GmbH**

**KIB GmbH**

**Kirchenbauer Ingenieur Büro GmbH**

Siemensstr. 1

D- 85716 Unterschleißheim

Markus Kirchenbauer, Dipl.-Ing. (FH)

Managing Director

Fon: +49(0)89-726310110

Fax: +49(0)89-726310163

Email: [info@kib-gmbh.de](mailto:info@kib-gmbh.de)

Web: [www.kib-gmbh.de](http://www.kib-gmbh.de)

Foundation: 1999

The KIB- GmbH was founded in 1999.

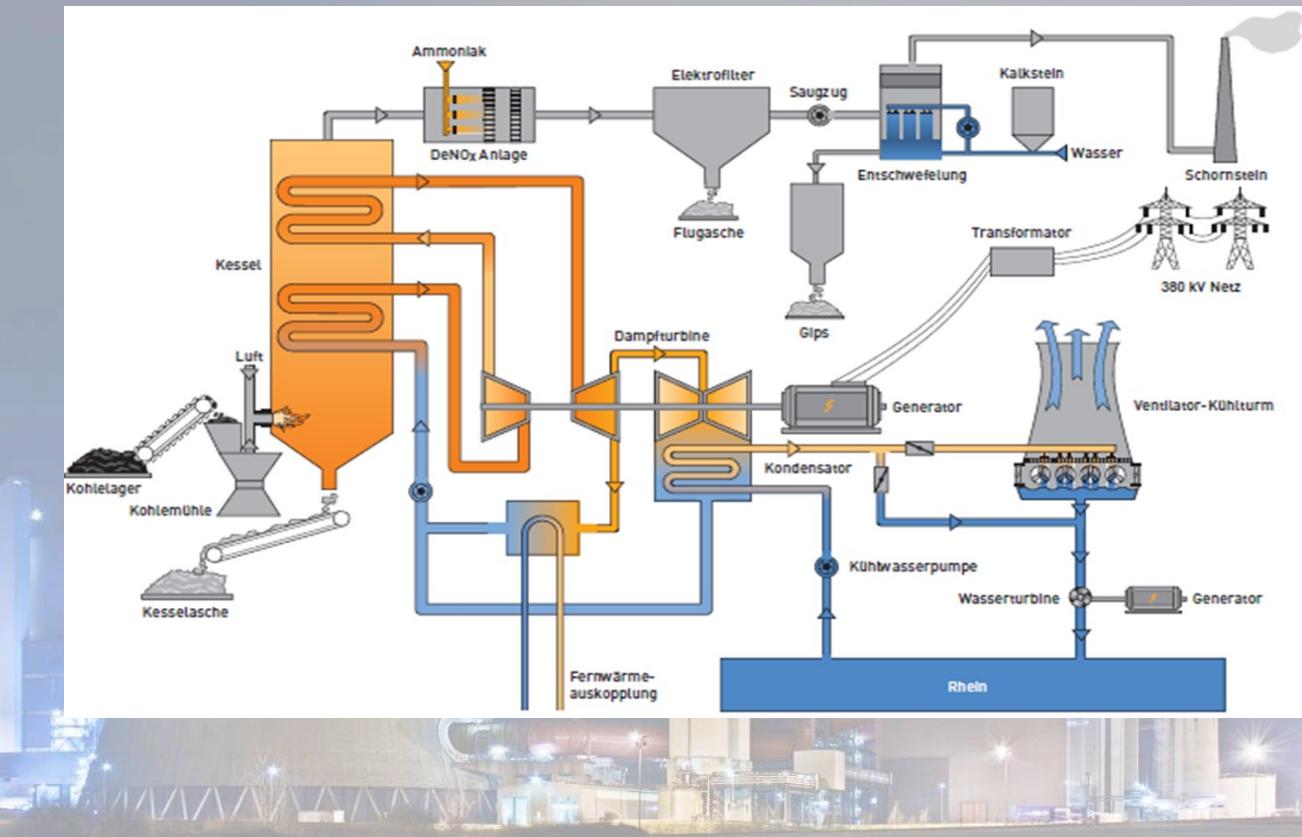
In all areas of plant design all engineering services from basic to detail engineering of site arrangement, pipe and steelwork engineering will be provided.

Our experience from numerous national and international projects and the various tasks, we can pass on to our customers in the form of individual problem and customer-oriented solutions.

In the design and calculation as well as in site service, we assure you targeted finding solutions and unrivalled expertise.

A powerful team combines innovative solutions with customer-specific requirements.

## KIB-GmbH - In the power plant at home



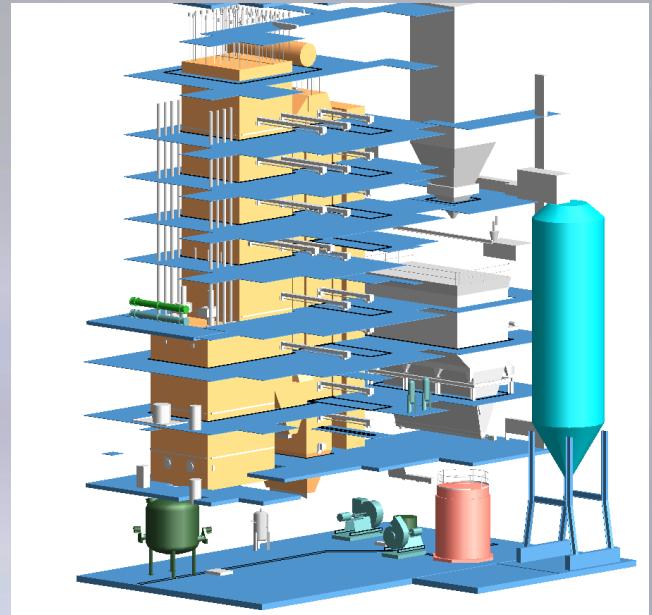
## Fields of activity

- Conceptual design
- Process engineering
- Arrangement design
- Pipe design
- Air channel design
- Calculation
- Steel construction
- Construction-design services



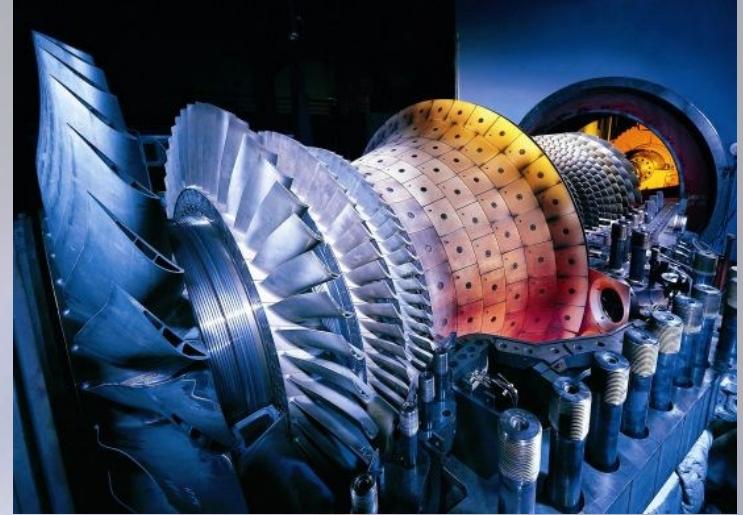
## Areas of activity

- Power plant technology
- Exhaust cleaning systems
- Petrochemicals
- Tank farms
- Pipeline pumping stations



## Staff

- Project/Team Manager 5
- Calculator 7
- CAD Designers 20
- PDMS Administrative 5
- Organization 2



## Experience

Design and construction experience for more than 15 years

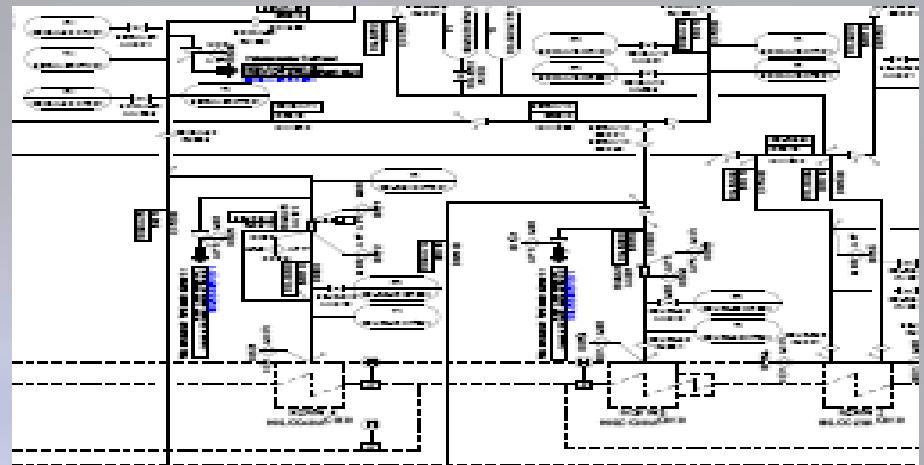
## Conceptual design

- Implementation of requirement analysis
- Development of sound design fundamentals
- Creation of process flow sheets
- Conceptual arrangement design
- Fixing of routing areas

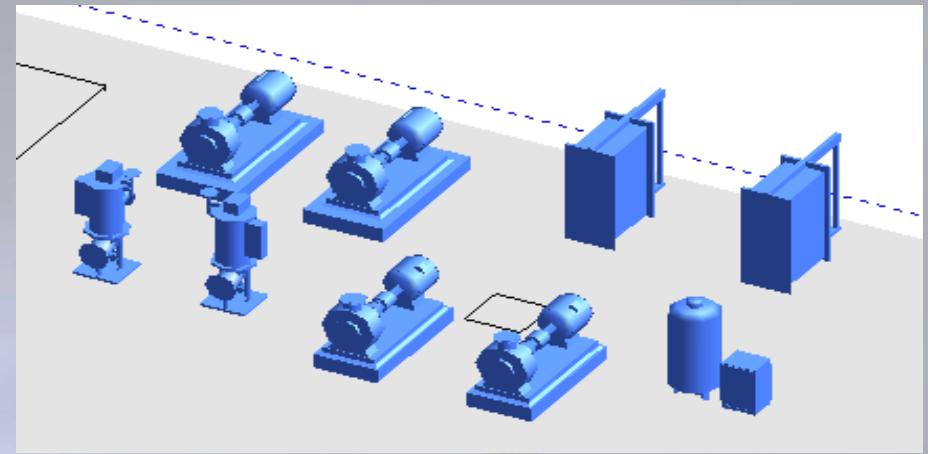


## Process engineering

- Dimensioning of aggregates
- Pipe dimensioning
- Lost pressure calculation
- Insulation dimensioning
- Creation of equipment schemes



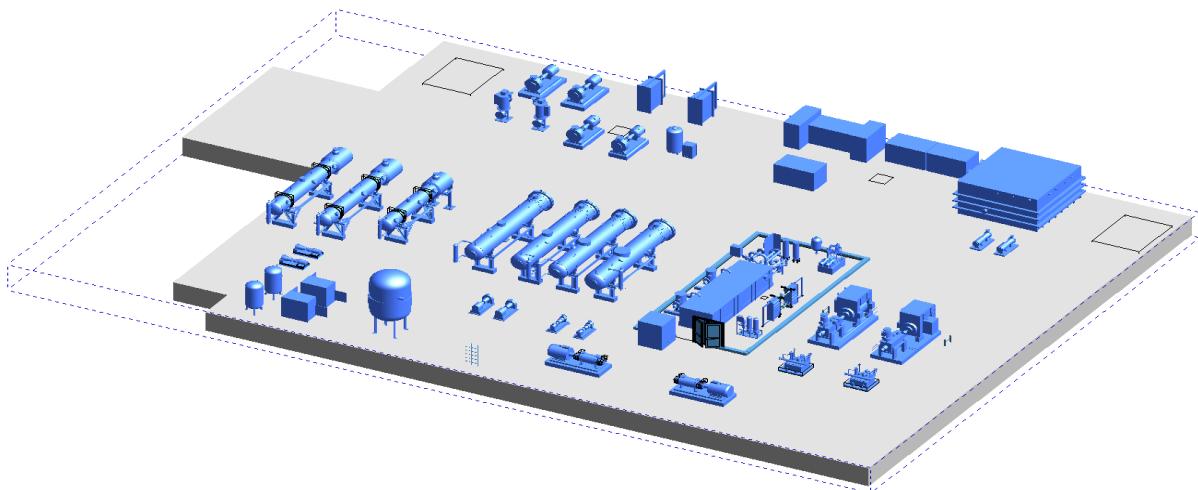
## Arrangement design



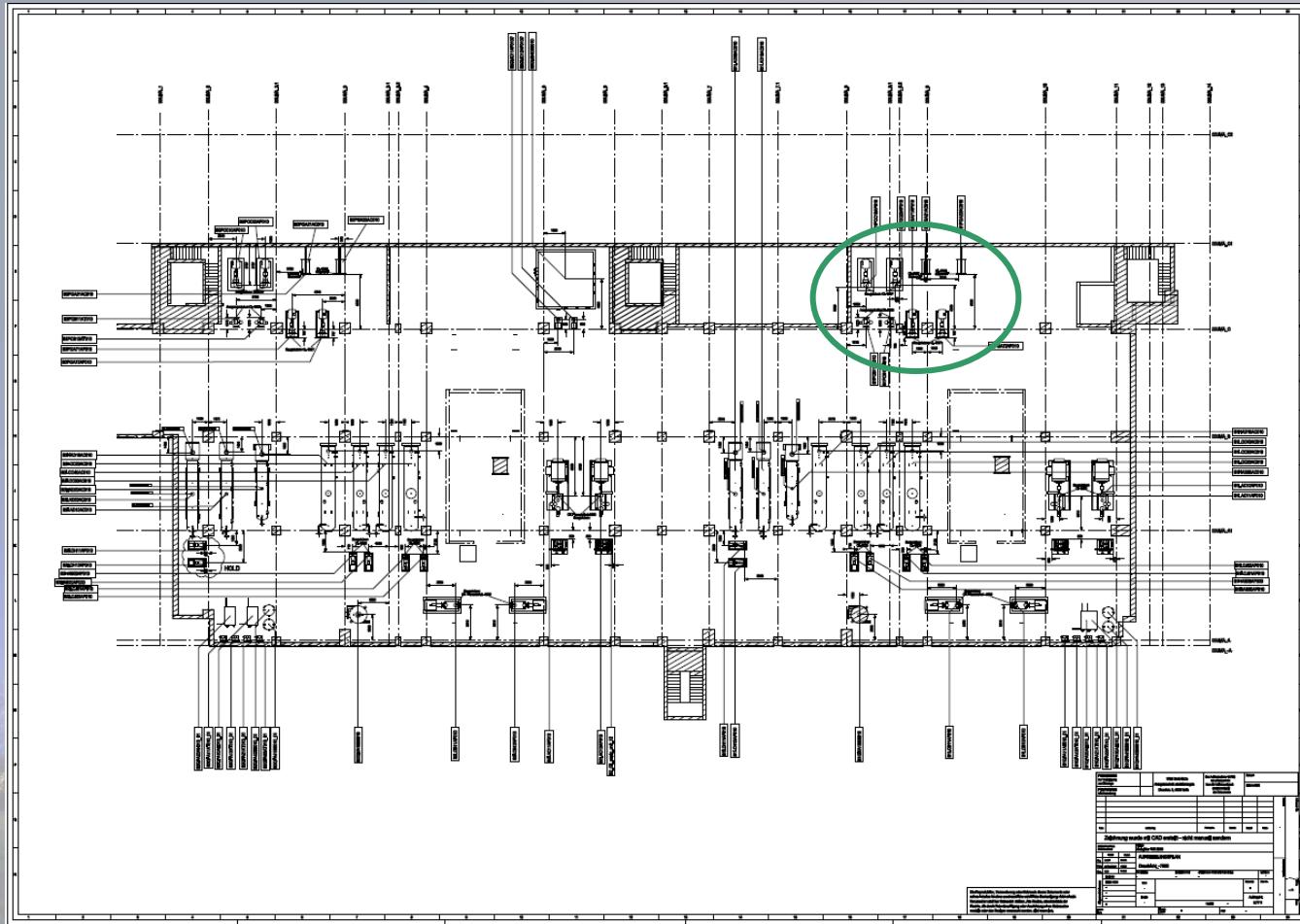
- 3D Equipment arrangement,
- 2D Layout drawings



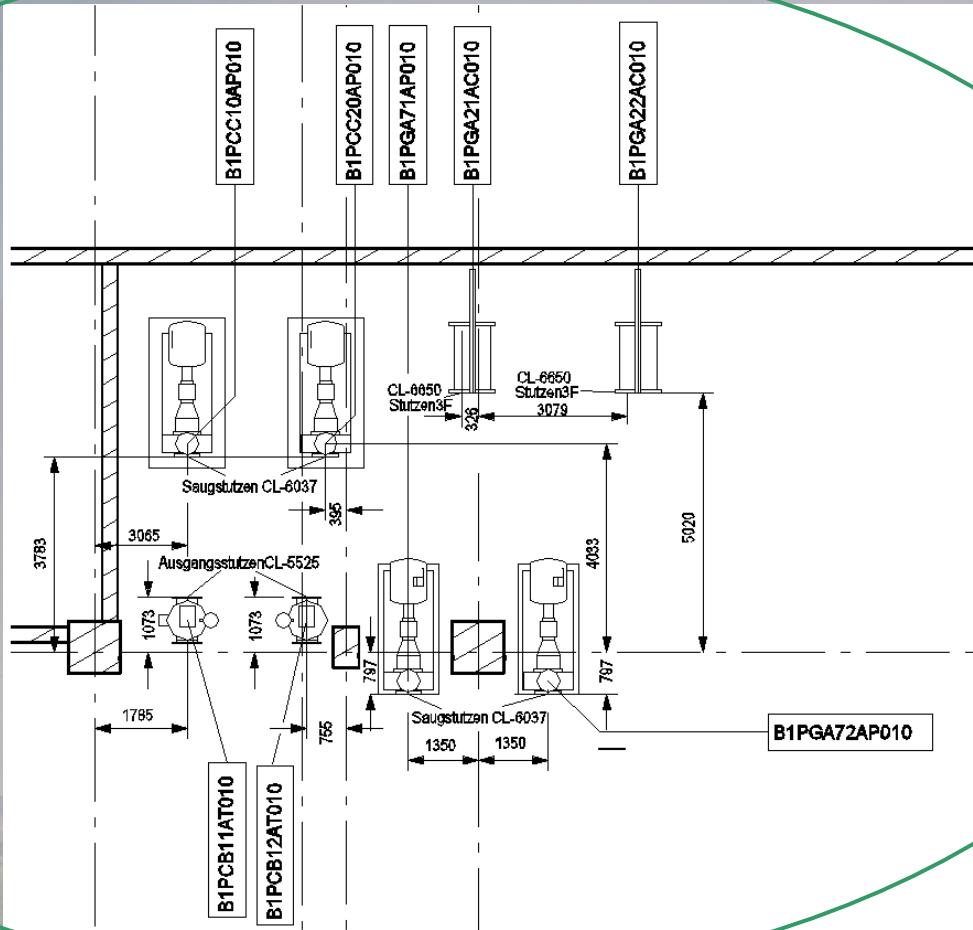
## 3D – Equipment arrangement



## 2D - Arrangement drawings

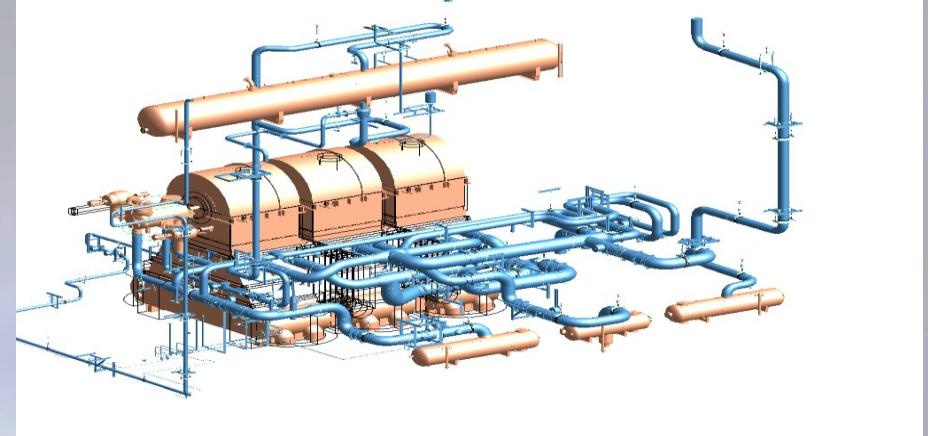


## Focus 2D - Arrangement

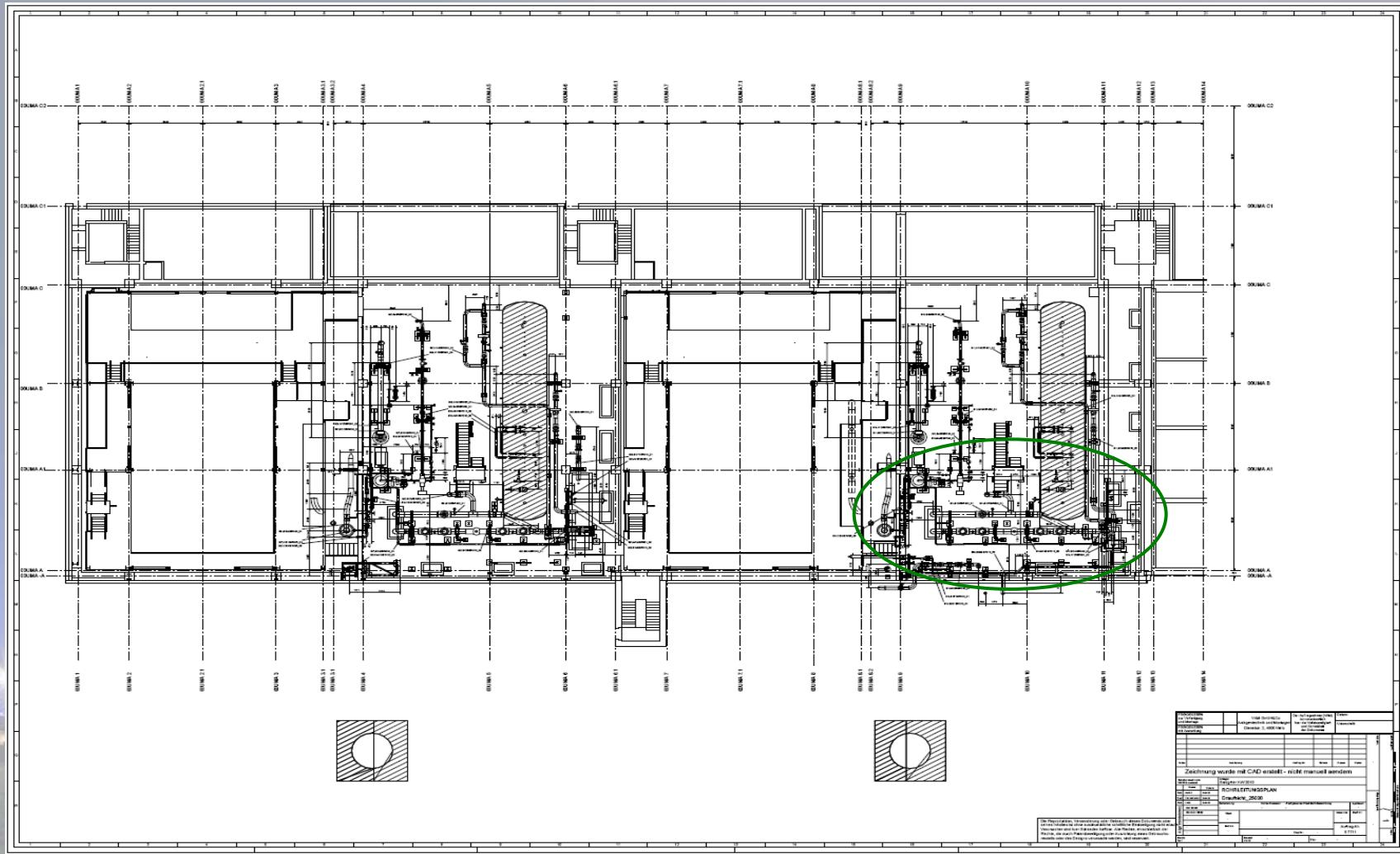


## Piping design

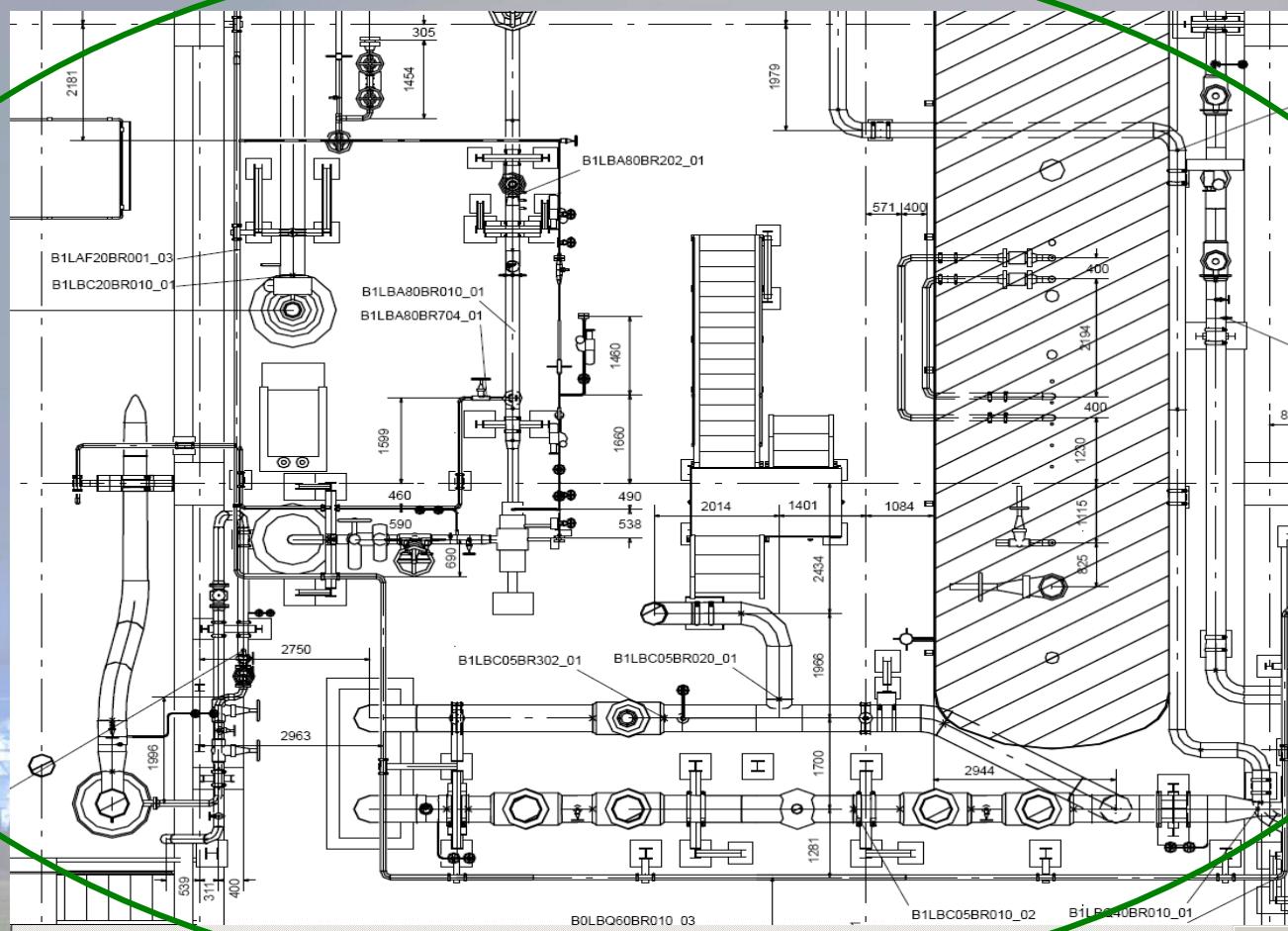
- Basic design
- Detail design
- Support design
- Pipe overview drawings
- Detail isometrics



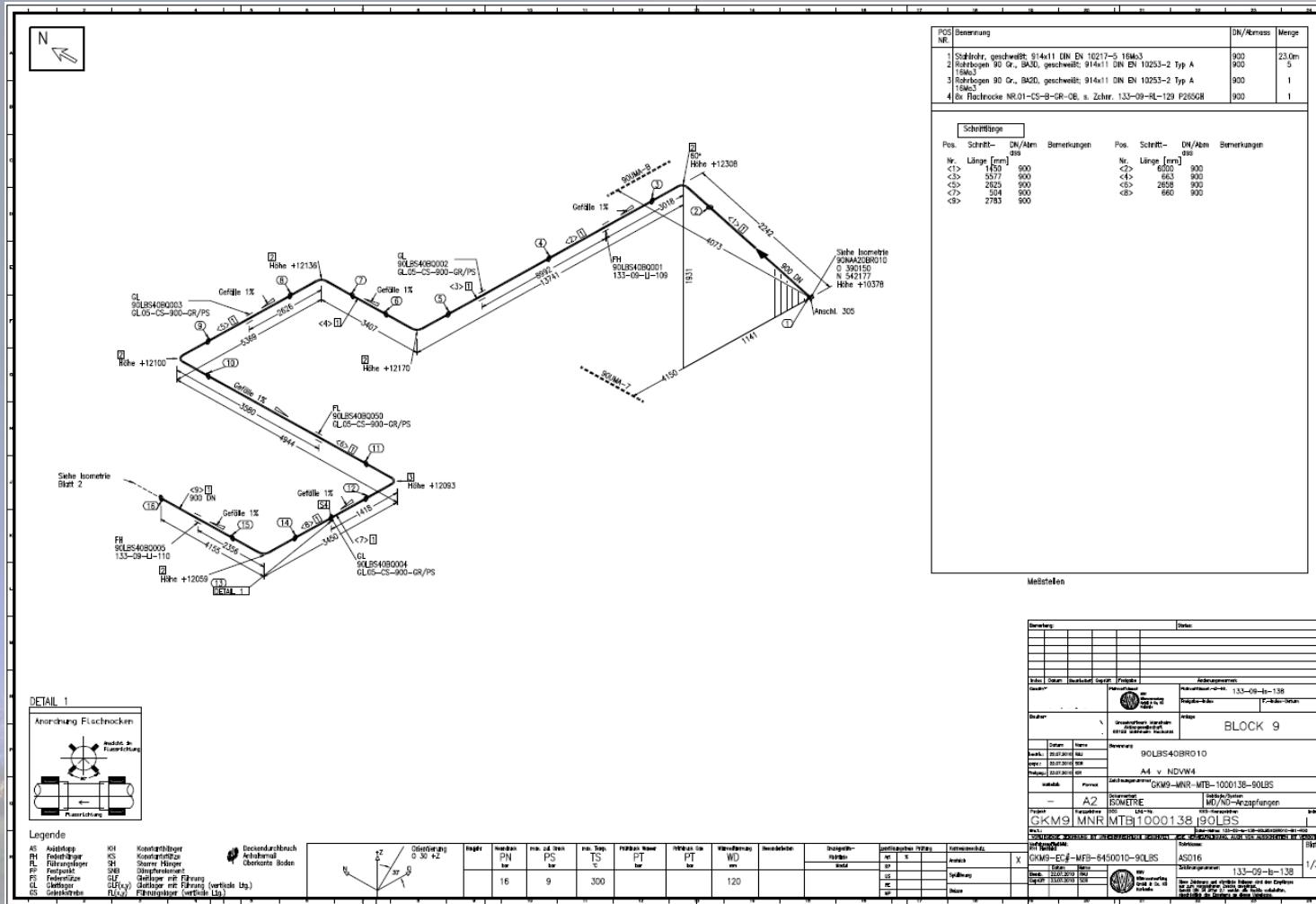
# Overview drawing



## Excerpt pipe plan

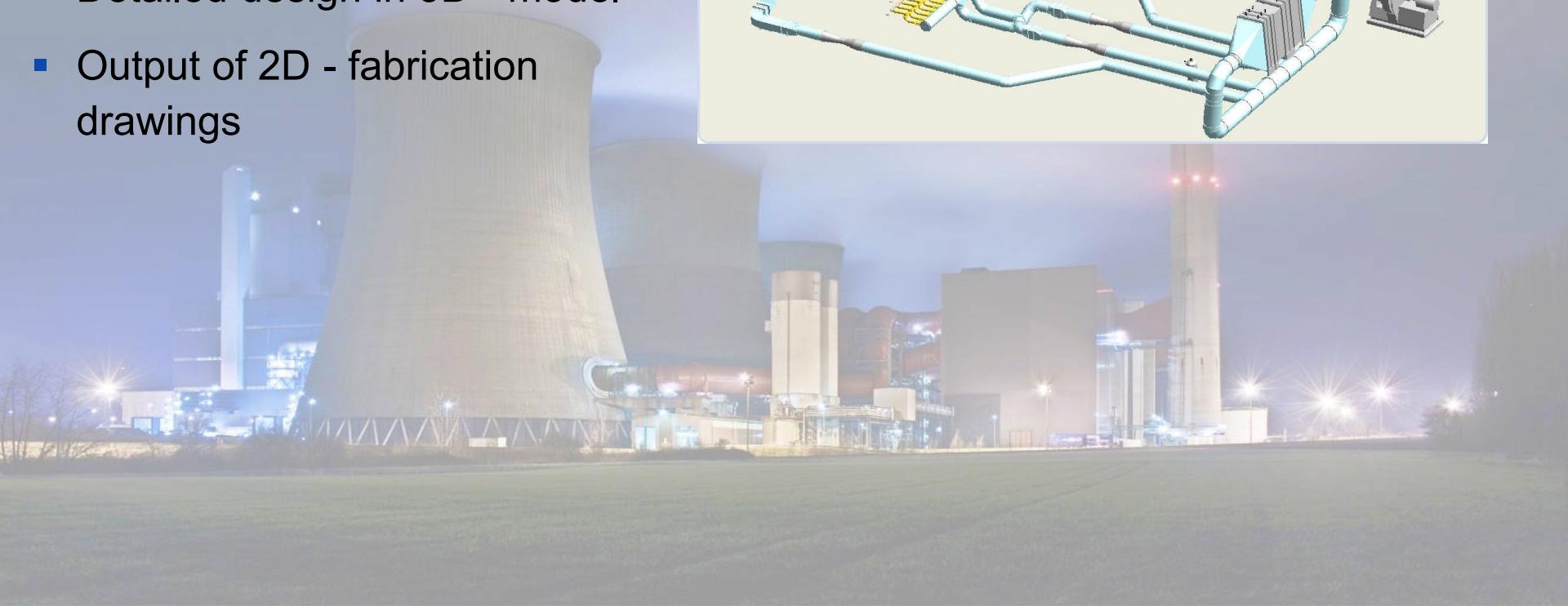
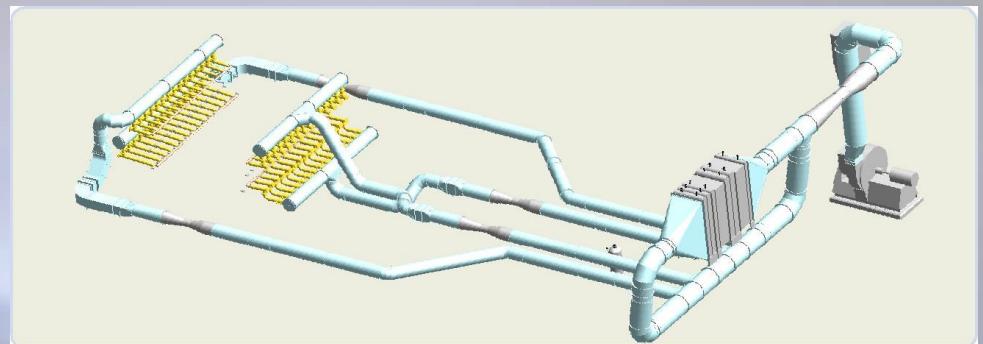


# Fabrication detail isometric

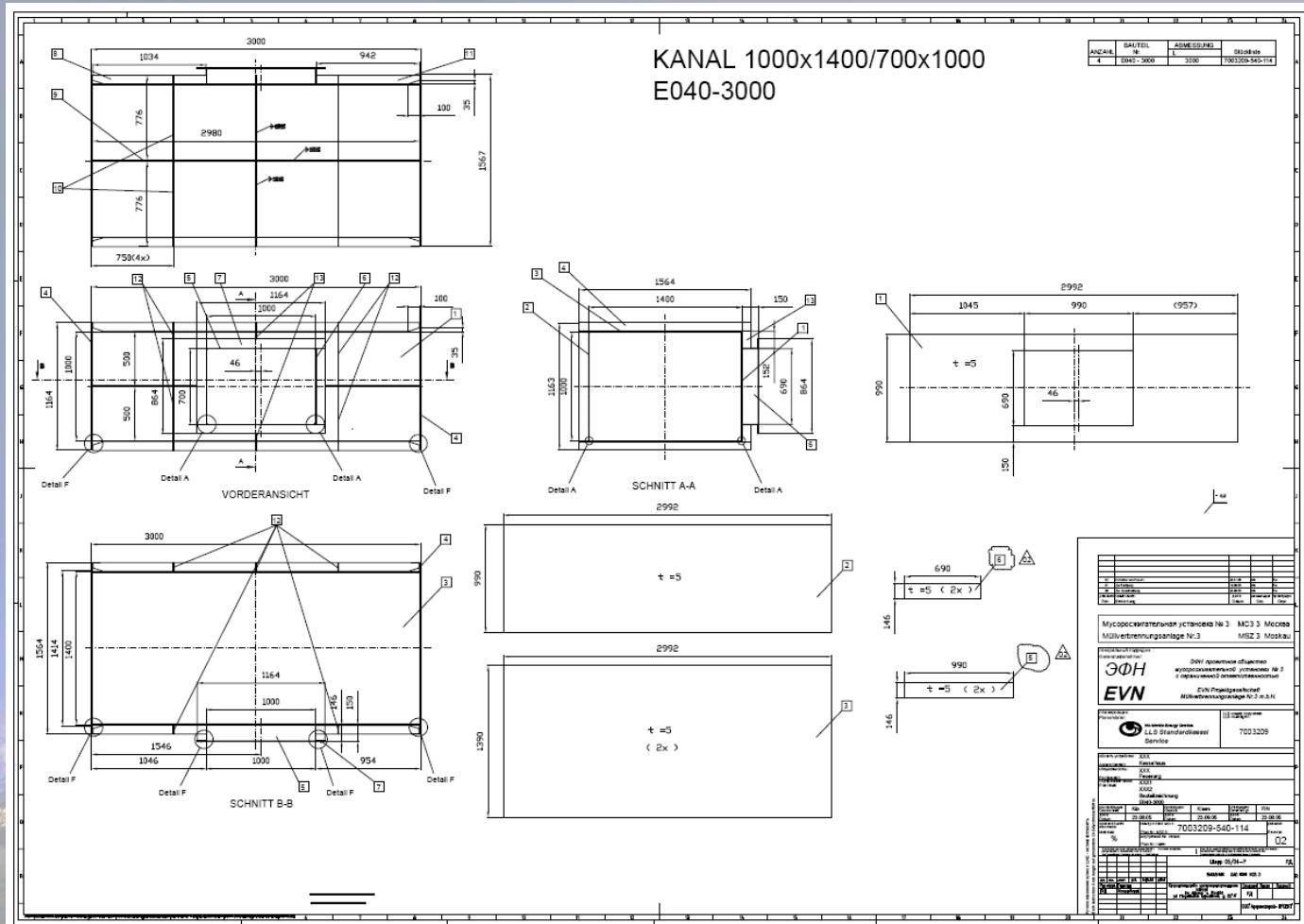


## Air- and exhaust channel design

- Detailed design in 3D - model
- Output of 2D - fabrication drawings

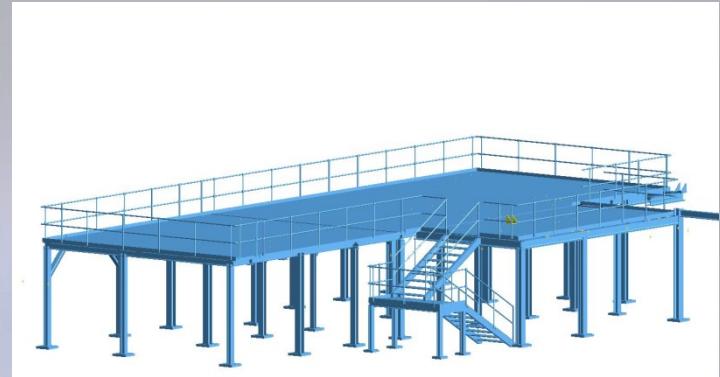


# Air channel production drawings



## Steel constructions

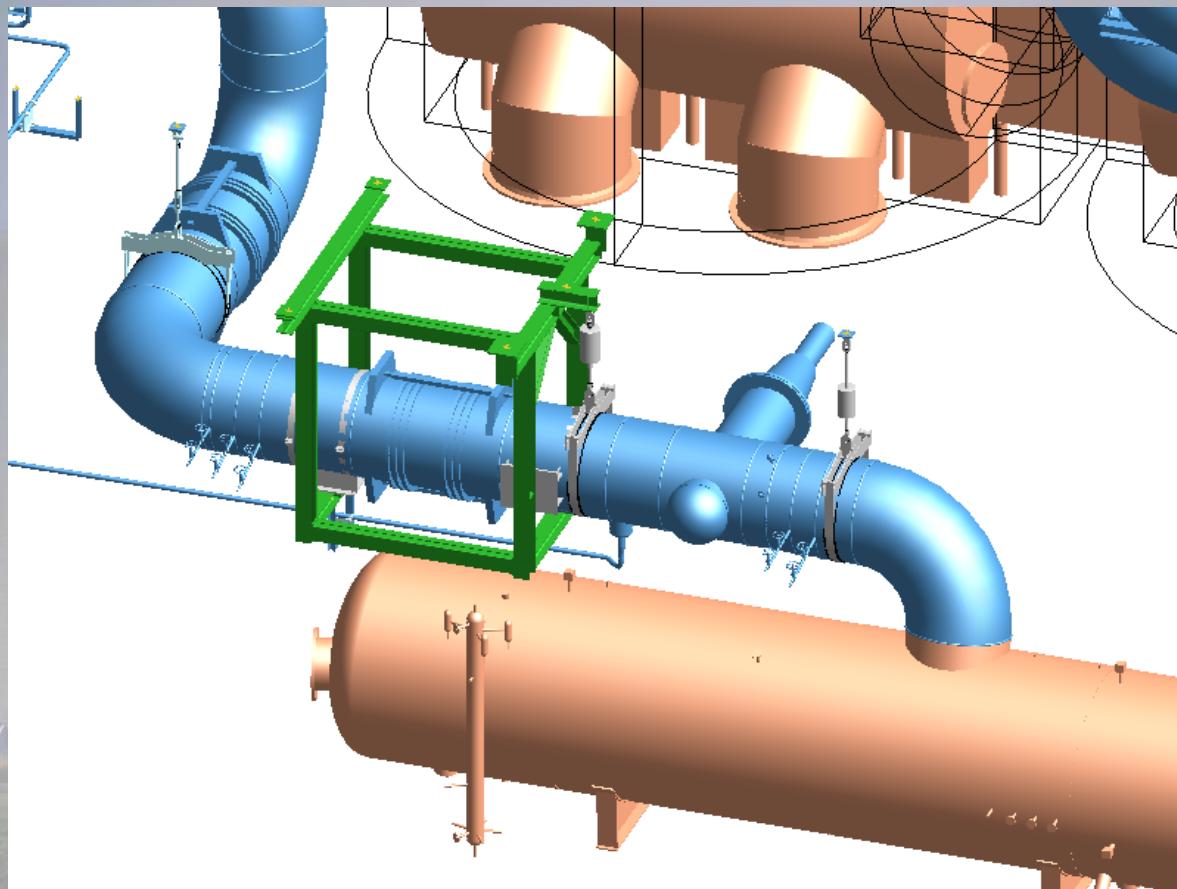
- 3D Detailed platform design
- 3D Secondary support steel design
- 2D Fabrication drawings



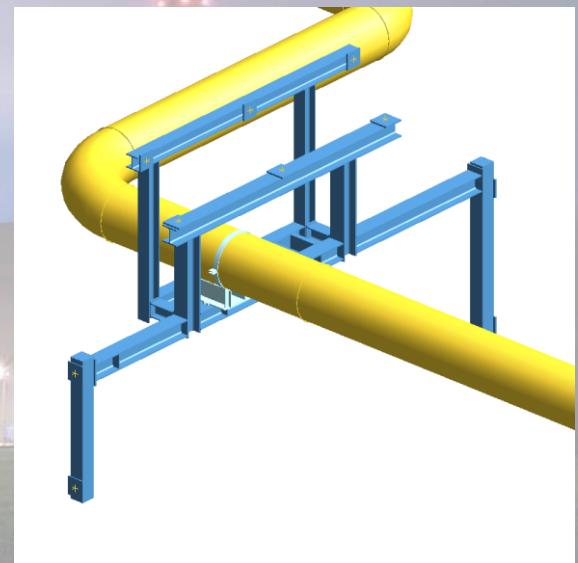
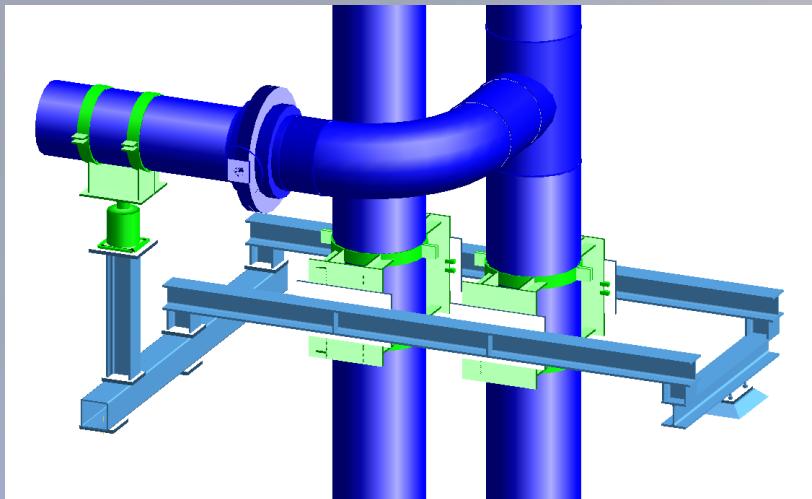
## 3D detailed platform design



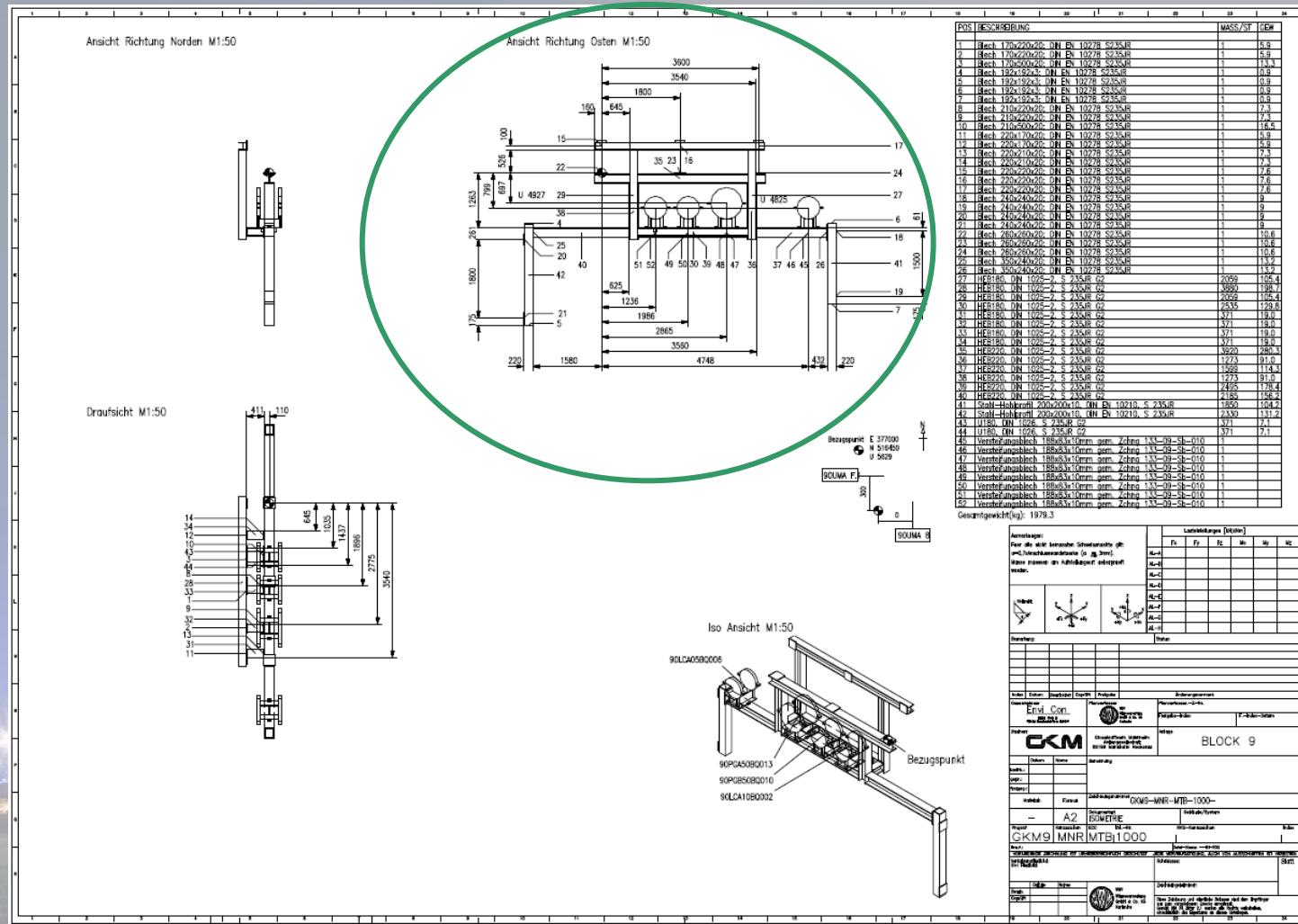
## Support structure design



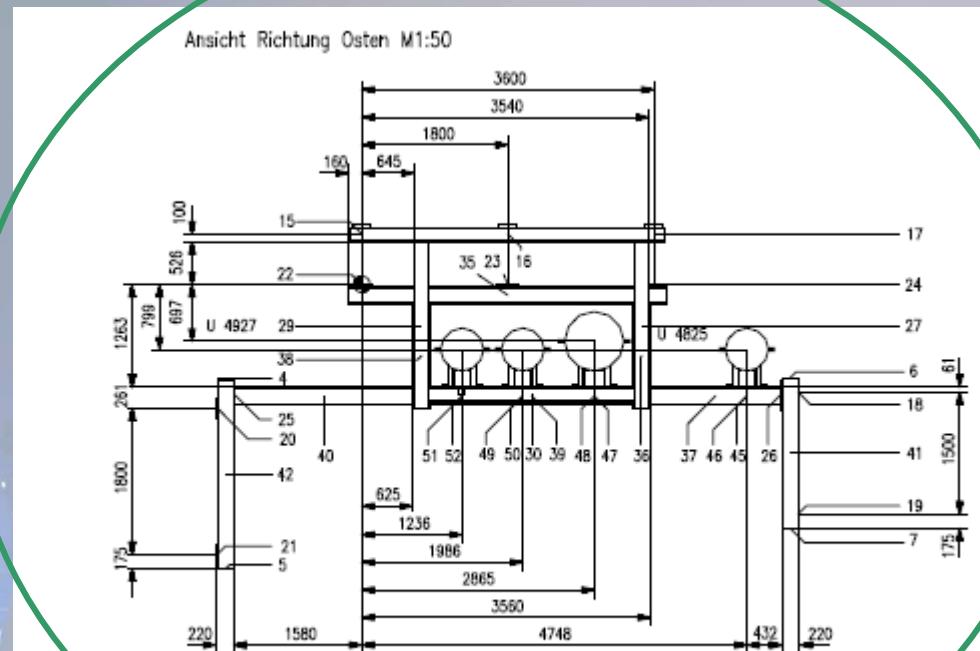
## Detailed support design



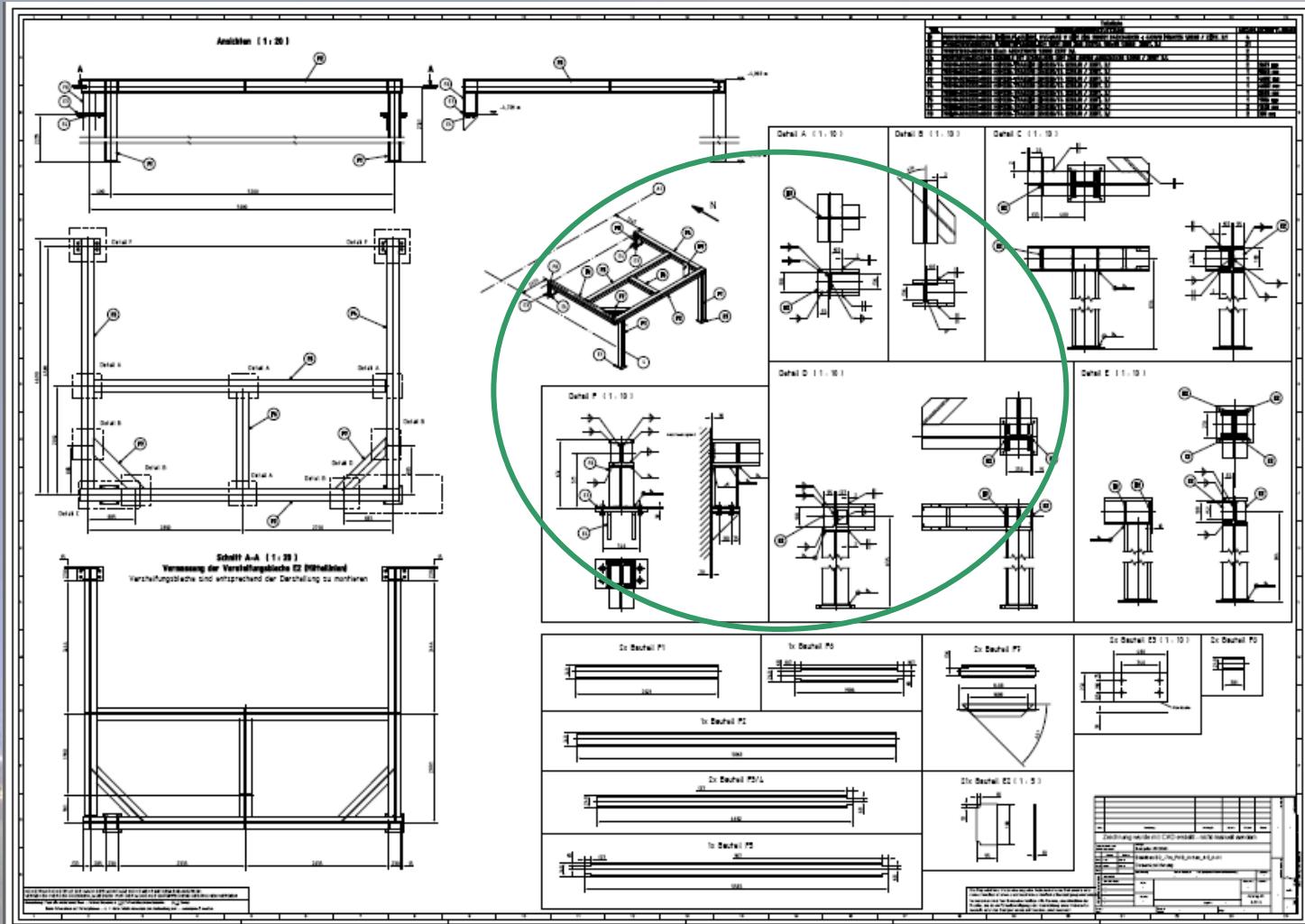
# Support steel fabrication drawing



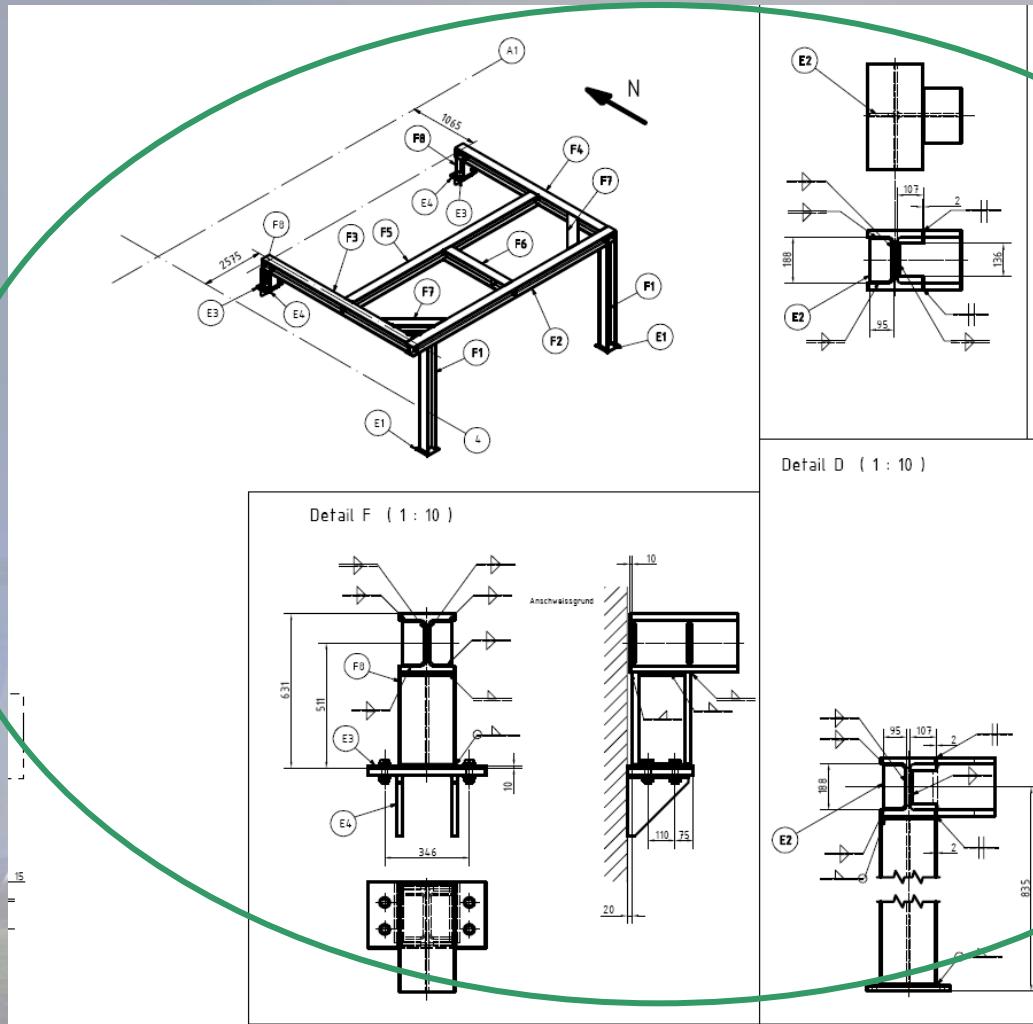
# Support steelwork fabrication drawing



# Steelwork fabrication drawing of platforms



# Steel construction fabrication drawing



## CAD/CAE-PROGRAMS

- AVEVA PDMS 3D
- AUTODESK ACAD 2/3D
- BENTLEY Microstation
- AUTODESK Inventor
- BENTLEY Pro Steel

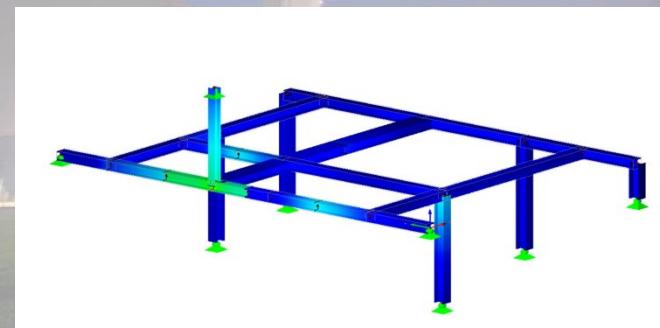
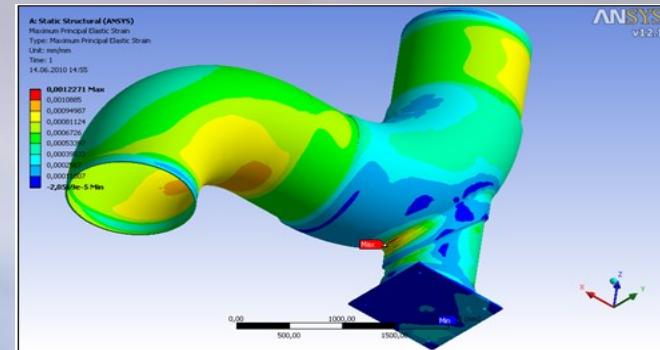
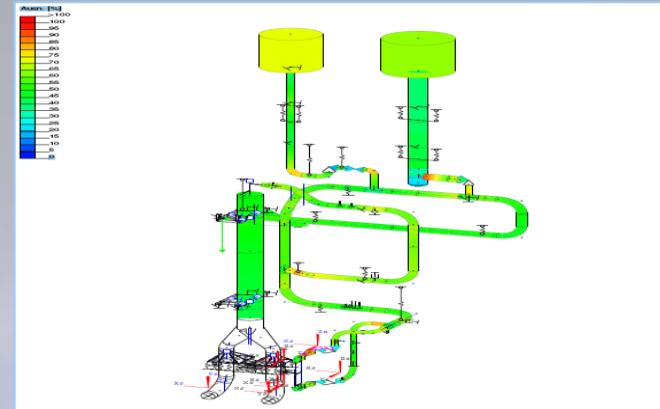


Autodesk®



## Calculation

- Pipe structure of HP, MP and LP systems
- technical interpretation of HP, MP and LP components FEM calculation
- pressure test definition
- dimensioning of components
- creating pipe classes according to EN13480, FDBR, ISO14692 and ASME
- R-Stab calculation, structural analysis program for planer and spatial frameworks



## Calculation programs

- SIGMA Rohr2
- ANSYS
- DLUBAL R-Stab

SIGMA INGENIEURGESELLSCHAFT

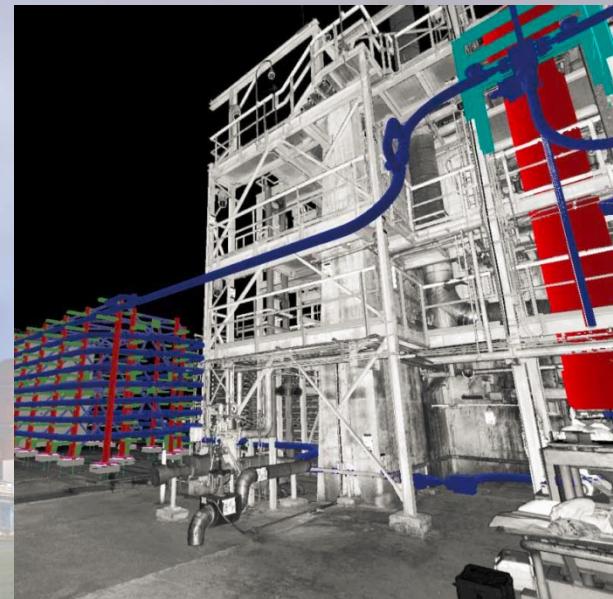
ANSYS®



## Site support



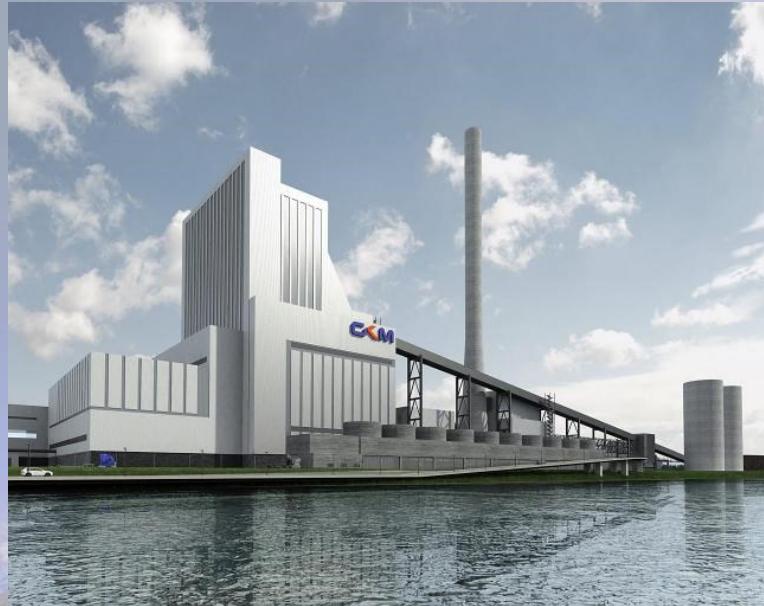
- Construction and site support
- As-Built-Documentation
- 3D Laserscanning



## Satisfied customers



# GKM 9



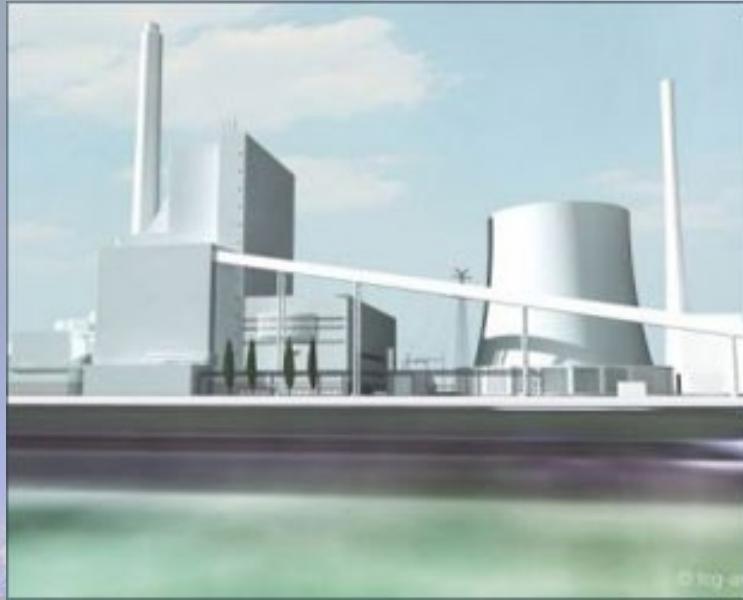
Operator: Großkraftwerk Mannheim  
Customer: WWV–Wärmeverwertung  
Typ: Steam generators  
Period: 2010-2013

#### Services:

- MP/LP design
- Basic Engineering
- Detail Engineering
- Pipe stress analysis
- 1.300 pipes



# RDK 8



Operator:

ENBW

Customer:

WWV – Wärmeverwertung

Typ:

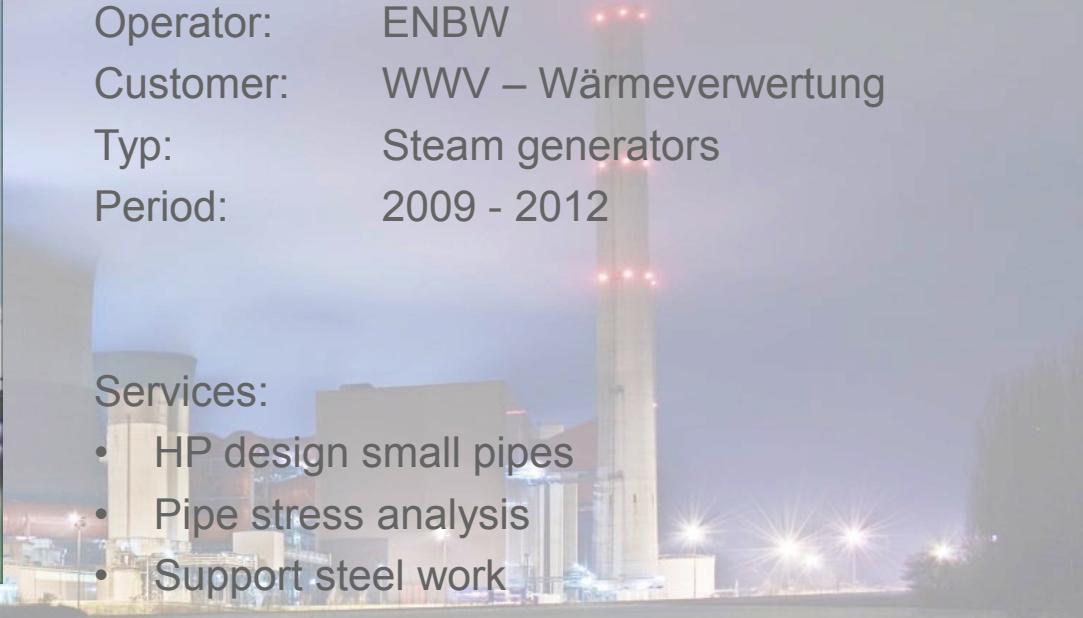
Steam generators

Period:

2009 - 2012

Services:

- HP design small pipes
- Pipe stress analysis
- Support steel work



# Eemshaven



Operator:

RWE Power

Customer:

Kurotec

Typ:

Steam generators

Period:

2009 - 2012

Services:

- Pipe design main cooling water pipes
- DN 200 – DN 3600
- GFK
- Pipe stress analysis
- FEM calculation

# MSZ3 Moskau



Operator:

EVN

Customer:

EVN Umwelt

Typ:

Incineration plant

Period:

2004 - 2006

Services:

- Pipe design of all systems
- Arrangement design
- Pipe stress analysis HP, MP – and LP Systems
- Design coordination

# Salzgitter



Operator: Flachstahlwerke Salzgitter  
Customer: VAM – Wels  
Typ: Gaskraftwerk  
Period: 2007 - 2009

## Sevices:

- Pipe design of all systems
- Basic – und Detailengineering
- Arrangement design
- Pipe stress analysis HP, MP- and LP systems
- Support design

# Maasvlakte



Operator:

EON

Customer:

FISIA Babcock Environment GmbH

Typ:

Steam generators

Period:

2011

Services:

- Bracket- and support design



# LENZING AG

## 67KT



Operator: Lenzing AG  
Customer: Lenzing AG  
Typ: Fiber production plant  
Period: 2012 - 2013

### Services:

- Pipe design of all systems 2.700 pieces
- Basic – and Detailengineering
- FEM-Calculation
- Pipe stress analysis
- Support design