Selected reference

Grass Beschläge GmbH
Höchst (Austria)

Installed capacity:
3,450 kW (heating)
400 kW (heat recovery)
1,450 kW (cooling)
1,700 kW (electricity)
165 m³/min (air pressure)
150.000 m³/h (ventilation)

Energy amounts generated:
12,650.000 kWh/year (heating)/**2,925.000** kWh/year (cooling)/**8,500.0000** kWh/year (electricity)

CHP natural gas - **1.800** kWth / **1.700** kWel
Urea injection for NOX regulation
1.650 kW natural gas boiler (peak load + failure safety)
“Compressed air systems” heat recovery decoupling **400**kW
50,000 litre stratified charge storage system
1.200kW absorption cooling system
250kW peak load cooling machine
Central compressed air system with **6** compressors and dryers, compressed air and condensation treatment, compressed air buffering, fully automatic DDC system with visualisation levels, heating, cooling, compressed air and electricity lines through the operations area with energy transfer stations according to zone division

Investment costs:

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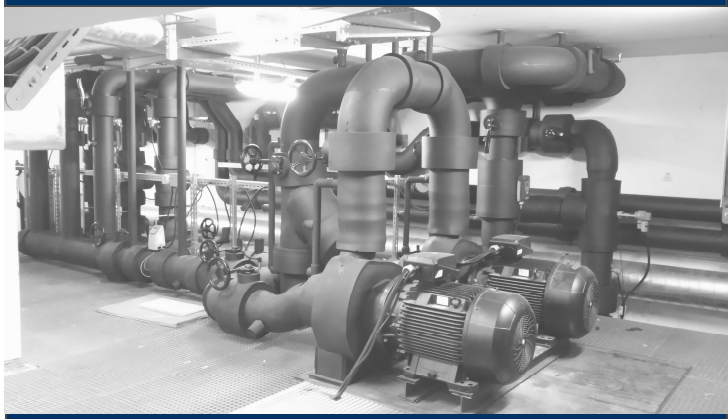
energy supply systems

...Impressive **engineering services** providing you with the optimal energy supply and the highest level of **efficiency**, **innovation** and **profitability**...

ENERGY SUPPLY SYSTEMS



Business
Industrial operations
Regional development
Energy sector
Factory sites
Energy suppliers

Consulting

We will work with you to develop an **energy concept suited to your needs**, customised to your requirements and wishes.

EVALUATION & ANALYSIS
Inventory recording
Establishment of services and requirements
Energy requirement figures/concurrencies
Evaluation of energy types
SWOT analysis

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DESIGN DEVELOPMENT
Material and energy flow diagram
System and equipment selection
Networking of different systems
Energy recovery sequences
Site, area and space development

↕

FEASIBILITY TESTING
Detailed cost estimation
Dynamic profitability test
Creation/assessment of the framework conditions
Testing of project site
Creation of possible administrative requirements

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Implementation concept

Target:

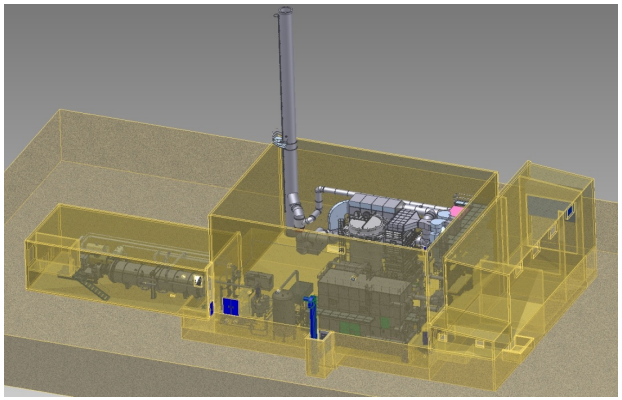
The lowest possible operating costs with high efficiency and the highest possible profitability.

Engineering & Controlling

Based on the **implementation concept**, we carry out all planning stages, such as:

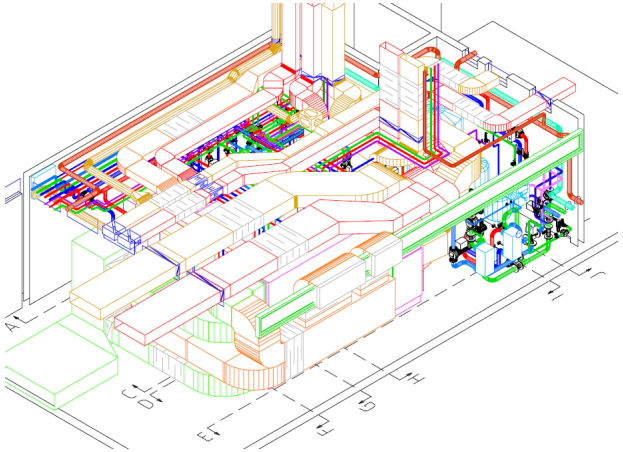
- Preliminary design
- Design
- Approval
- Implementation planning
- Tender
- Offer selection
- Contract awarding support

We also provide services for the **monitoring** of assembly and execution phases, up to the **approval** und **transfer** to the client **in the implementation phase**.



Moreover,, **if required** we can provide the necessary engineering services from the areas of **structural** and **underground engineering, statics, logistics, mechanical engineering, electrical engineering etc.**, which are delivered by long-term partners of our international network.

Specialist areas

We provide our **engineering know-how** and vast experience for an **enormous range** of different system types:

- Thermal and heating systems
- Cooling and cold water systems
- Cooling water systems
- Heat recovery systems
- Compressed air technology
- Ventilation and air conditioning systems
- Process media technology
- Fresh water systems
- Cogeneration/CHP systems
- Media distribution/pipeline construction
- Measuring, guidance, regulation and control technology