INP Reference

# Rothensee waste-to-energy plant – Block 3

LOCATION: Magdeburg, Germany

SERVICES: Production monitoring, Commissioning, Project management, Quality assurance, Site management, Documentation, As-built status and data recording, Installation supervision, Solution development / Feasibility studies

INDUSTRY BRANCH/TYPE OF PLANT: Large Plants, Power Generation

CLIENT: MHKW Rothensee GmbH

PROJECT SIZE: > EUR 250 million

ACTIVITY PERIOD: 2022-2025

## Project description

The Rothensee waste-to-energy plant in Magdeburg is expanding its capacity with the construction of a third block. With an investment volume of EUR 250 million, a grate combustion plant for commercial and industrial waste and a fluidized bed combustion plant for municipal sewage sludge are being built. This will increase the total capacity of the waste-to-energy plant to over 975,000 tons of waste per year. The new Block 3 comprises two plant areas:

- a thermal waste treatment plant for commercial and industrial waste (grate firing)
- a plant for recycling municipal sewage sludge

Thermal waste treatment enables efficient energy generation through the recycling of waste materials, supplying households and businesses in Magdeburg with electricity and district heating. In addition, process steam is provided to industrial customers to promote environmentally friendly production.

## INP Deutschland GmbH's involvement

INP Deutschland GmbH was commissioned with the superstructure and commissioning management for Block 3. This included coordinating construction management and providing support for specialist construction management for turbines, piping, control technology, electrical engineering, and quality assurance.

## INP Services

- Supervisory construction management: Representation of the client's interests, management and coordination of all construction activities, quality and claim management, control of construction site processes, and handover of the plant to the operator.
- Assembly management: Responsible construction management for boilers, flue gas cleaning, and water-steam cycle, compliance with

POINTS OF CONTACT



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legal regulations, schedule and quality control, contract review, and acceptance of the trades.

- Specialist construction management for piping: Monitoring pipe assembly, coordinating the piping system, final acceptance, 3D collision testing, defect documentation, technical planning, and support during commissioning.
- Specialist construction management for electrical engineering: Electrical installation, planning of cable routes, measurement and distribution lists, monitoring of earthing systems, coordination of deadlines between trades, and carrying out acceptance inspections.
- Specialist construction management for EMSR: Responsibility for technical planning, planning and commissioning of the entire automation network topology, troubleshooting, control of installation processes, and optimization of construction and safety measures.
- Support for specialist construction management in civil engineering: Creation and adaptation of CAD drawings, scheduling, construction site supervision, quantity control, invoice verification, documentation, and coordination of machinery and construction containers to ensure construction progress. Support for the architect and assumption of administrative tasks.
- Quality assurance: On-site quality control, review and approval of technical documentation, weld inspections, inspections, error analysis, and defect management to ensure contractual standards are met.