

# SCHACHTBAU NORDHAUSEN

# Plant Engineering



# Plant Engineering

Based on the company's many years of experience in large-scale turnkey construction projects and its traditional know-how in the areas of construction engineering, structural steel, pipework and plant manufacture, SCHACHTBAU NORDHAUSEN undertook its first projects in environmental technology in the years 1991-1993.

In response to continually increasing demand, a separate division under the name of Environmental Technology was established in 1994.

In 2011, the reconstruction and expansion of the hydroelectric power station in the federal state of Saxony - Anhalt , led to the implementation of the first large-scale drinking water project, and thus, this business area fundamentally expanded.

In line with the current trend, SCHACHTBAU NORDHAUSEN GmbH focused its' main key activities on domestic reconstruction and expansion of existing large-scale sewage treatment plants. Among them, energy-efficient technologies for activated sludge and anaerobic sludge treatment plants with an optimal use of energy resources from wastewater and sewage sludge while minimizing the CO<sub>2</sub> emissions play special role. In addition to the turnkey construction projects, the reconstruction of plants that are under operation is yet another area of expertise of SCHACHTBAU NORDHAUSEN GmbH.



*Pumping station in Gelsenkirchen*



*Wastewater treatment plant in Ruhleben. Flue gas purification unit*

*Suction chamber of the pumping station in Gelsenkirchen*





In addition to the above-mentioned, main focus of our activities is supplying of special equipment for mechanical wastewater treatment plants, biogas plants and energy generation plants. Moreover, we also focus on supplying equipment for retention, storage basins and pumping stations for wastewater, rainwater and flooding water as well as drinking water plants. Experienced project managers and designers, who practice our philosophy of a partnership-based relationship with customers and suppliers, ensure quality and on-time order processing.

The stainless steel and piping components are (pre-)manufactured in the company's own stainless steel production unit and assembled on site by our own qualified specialists.

Since 2016, Plant Engineering has become an integral part of the Mining / Plant Engineering Division, in which «Mining-related Plant Engineering» plays an increasingly important role in the surface and underground operations.

The services of the plant engineering include:

- Project planning, planning and turnkey preparation of plant construction projects
  - Pipeline construction (steel, stainless steel, polyethylene) as well as supplying and assembly of sub-equipment and components for all types of Environmental and Mining Engineering projects.
- Planning, design, production and assembly with our qualified personnel of:
  - Steel digester for gases released during wastewater treatment, biogas and sewage treatment plants and heat accumulators
  - Stainless steel components for various cases of application (pipe fittings, aeration systems, stone catcher machines, condensate pots, heat exchangers, filter systems for gas equipment, etc.)
- Services related to water management, environmental engineering projects and mining-related plant construction
  - Planning and design
  - Operational Management and process optimization
  - Maintenance, service and ongoing maintenance

In the meantime, we have successfully implemented over 280 standard projects for our municipal and private Employers.



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