



Engineering Services

*Engineering services
for environmental protection*

Engineering Services



Design

The design of environmental equipment requires engineering services which link the most modern technology with the latest in scientific research. In this case, DAR can look back on decades of experience potential.

Interdisciplinary teams from construction, mechanical engineering, process engineering and chemistry ensure that well thought-out, purposeful and economical concepts are drawn up.

Implementation

Contemporary technology can only be realised through intensive consultation with the client and local monitoring of construction measures using experienced specialists. We will implement your project responsibly and professionally, and can guarantee observance of cost limits, deadlines and quality standards.

The Deutsche Abwasser-Reinigungs-Gesellschaft was founded in 1915 by Dr Otto Mohr in Wiesbaden. The company can claim to be one of the first of its type in Germany dealing with technical environmental protection problems and offering solutions for these. Even during its founding period, DAR was developing a wide range of recognised procedural methods in the drainage technology sector, and was issued with numerous patents in this field. These innovations were only made possible by research projects in cooperation with German and European universities. In cooperation with the services of associated state approved laboratory for waste water, sewage sludge and soil investigations, it has been possible for DAR to play a decisive part in developing technical trends in the environmental technology sector over many years.



Project management

Soaring investment volume and the increasing complexity of projects are increasing demands on the client during realisation of his construction tasks in practice. During these tasks, he has to coordinate and control project activities in technological, tendering and economical terms. Project management can take over a considerable number of these original client duties through coordination and supervision of those involved in design and construction.



Analysis

Together with state-approved laboratories DAR carries out wastewater, sewage sludge and soil investigations in addition to oxygen enrichment experiments and outside water surveys. A team of experienced chemists, engineers and laboratory assistants ensures that tailor-made solutions can be drawn up during the planning phase and that ongoing equipment operation is continuously monitored.

Operational supervision

During operational supervision, we supervise and optimise the efficiency of sewage treatment works and carry out energy efficiency analysis so that an ecological and economical optimum can be achieved.

Operational supervision includes services ranging from advice up to supervision.

Occupational safety

Increasing requirements on occupational safety make the professional deployment of specialist experts necessary:

- safety engineers
- occupational safety experts
- safety and health protection coordinators

These DAR specialists can draw up safety concepts, alarm plans, explosion protection zone plans, hazard defence plans, hazardous goods directories and hazard evaluations in addition to operation and instruction manuals.



**Waste water purification and
sludge treatment**

- Sewage treatment plants for cities, local authorities and industry with high purification performance
- Suspended solids removal
- Sludge treatment and dewatering

**City drainage and rainwater
husbandry**

- Drainage planning
- Rainwater husbandry
- Drainage network husbandry
- Rainwater treatment

Drainage restoration

- Condition reports
- Drainage information systems
- Condition evaluation
- Defect repairs

Expertise Work

- Building conservation/
Rehabilitation concepts
- Expert's advice for buildings
damage

Project management

- Organisation and coordination
- Quality control
- Framework scheduling
- Cost monitoring
- Technical controlling

Operational supervision

- Operation monitoring
- Equipment optimisation
- Breakdown strategies
- Training

Occupational safety

- Operation and instruction instructions
- Alarm and hazard defence plans
- Explosion protection zones and fire services plans
- explosion protection documents
- Hazardous goods directory
- Hazard evaluation
- Health and safety coordination
- Technical safetymanagement

Infrastructure measures

- Development
- Traffic and road planning
- Noise prevention measures
- Outdoor facilities/park areas

Water supply

- Reclamation
- Treatment
- Storage
- Distribution

Hydraulic engineering

- Retention measures
- Flood control
- Digital dyke logs
- Semi-natural waterway construction

Technical equipment

- Mechanical engineering
- Process engineering
- Instrumentation, drive and control engineering
- Works and erection planning

Analysis

- Water and waste water investigations
- Outside water surveys
- Wastewater land registry
- Oxygen enrichment experiments
- Expert reports

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Ingenieurbüro für Umweltfragen
**Deutsche Abwasser-Reinigungs-
Gesellschaft mbH**

Certified Management System
to DIN EN ISO 9001:2000

