

Dams: Maintenance and Safeguarding



1



2

Water
Environment
Civil Engineering
Informatics
Energy
Architecture

Safety Inspection

of dams and retention basins, preparation of as-built and permitting documents for existing facilities

Adaptation

of existing facilities to changed conditions of use, establishment of ecological continuity (WFD), upgrading and increasing the height of dams

Operate and Monitor

instrumentation and control systems, supervision and maintenance of dams, monitoring and project management of complex surveys of the existing conditions of concrete, asphalt, and membrane seals

Calculate, Simulate, Optimize

numerical calculations of groundwater flow and dam failure scenarios, optimization of structures, verification of the serviceability and stability, hydraulic calculations

Services

- Safety inspections according to DIN 19700
- Rehabilitation and maintenance planning
- Rainfall-runoff models (R-R models)
- Hydrological calculations
- Structural and subsoil investigations of existing facilities
- Surveying
- 2D & 3D FEM
- 3D hydraulics
- Consultancy and initial assessment

1 Dams

Rehabilitation work

2 Dams

Asphalt work