

■ Energy







# Energy

## About Us

The BERNARD Gruppe is an independent engineering and consulting firm. We solve interdisciplinary tasks in our Energy, Industry, Infrastructure and Mobility Business Units.

The family business was founded in 1983. It is managed by the second generation and now employs approximately 600 people. We are focused on identifying the best technical approaches and provide our clients with innovative, cost-effective and sustainable solutions. This is our task as engineers you can trust.

## Our Services

- Project control
- Project monitoring and site supervision
- Railway technology
- Control centers and radio systems
- Control and safety technology
- Measurement and control engineering
- Power supply and distribution systems
- Power flow simulations
- Substations and converting stations
- Underground cables and overhead lines
- Hydropower and pumped storage plants
- Hydraulic engineering and sanitary engineering
- Rewilding and land restoration
- Hydrological and hydraulic modeling

## Construction Management



- Construction Management
- Underground Works
- Civil Engineering

A sustainable energy infrastructure requires new construction as well as the renovation, modernization and expansion of existing facilities. We are your partner as a general planner, and we also support our clients in individual design phases. In construction and project management, we support award procedures, bid evaluations and competitions, we prepare tender documents, coordinate construction site activities and occupational health and safety; and we prepare construction contracts. As part of our site supervision services, we monitor construction works and provide support in contract and anti-claim management.

## Electrical Engineering



- Railway Technology
- Electrical Operating Systems
- Energy Technology

Electrical operating systems include modern concepts for traffic lights and traffic control systems, tunnel safety and emergency call systems, lighting and control technology, as well as toll, monitoring and enforcement systems. We also support the development and expansion of critical infrastructure and supply networks. In addition, with our long-standing expertise in railway technology, we have successfully realized projects in setting up supervisory control and data acquisition (SCADA), instrumentation and control (I&C) and programmable logic controller (PLC) systems for complex telecontrol and communication requirements. Energy technology includes the design of high-voltage systems, rectifier plants, and power-to-mobility solutions. When providing these services, we also consider electromagnetic compatibility and electrical safety devices.

## Power Plants & Grids



- Water
- Power Plants
- Grids

The BERNARD Gruppe ensures an efficient and sustainable use of renewable energy sources. Our engineering services include photovoltaic and hydrogen plants, small hydropower plants, large-scale run-of-river power plants and pumped storage facilities, as well as systems for daily water supply and wastewater disposal. In the course of grid expansions to increase output and ensure stability, we manage the design of underground and overhead lines, from overall project control, technical design and permit application procedures to construction management. Our water specialists provide structural engineering solutions with ecologically optimized construction measures for protection against natural hazards such as floods, avalanches and mudflows.

**BERNARD Gruppe**

**Germany**

Elsenheimerstraße 45 • 80687 Munich  
T +49 89 2000149 0 • F +49 89 2000149 20  
info@bernard-gruppe.com

**Austria**

Bahnhofstraße 19 • 6060 Hall in Tyrol  
T +43 5223 5840 0 • F +43 5223 5840 201  
info@bernard-gruppe.com