



Pumped storage power station, Forbach

Data and facts

Company	PORR GmbH & Co. KGaA / PORR AG
Type	Tunneling
Runtime	01.2023 - 12.2027
Principal	EnBW Energie Baden-Württemberg AG

[Project report online](#)

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PORR builds caverns and gallery system for pumped-storage power plant in Forbach

the PORR team will have to blast and excavate huge cavities and galleries in the rock. An estimated 450,000 m³ of rock excavation material will be produced.

The tunnel system has a total length of 5,200 m. In addition, around 510 m of shaft will be constructed using the raise-boring method. The volume of the underground water reservoirs is 200 million litres. The main tunnel alone will have a length of 946 m and a cross-section of up to 71.72 m². In addition, there will be six side tunnels as well as access -tunnels, access tunnels and energy dissipation tunnels.

Balancing energy demand peaks

The conversion to a pumped-storage power plant is another building block for the energy transition. If, for example, surplus renewable energy is generated, such as wind energy at night, this is used to pump the water from the underground lower basin back into the day storage reservoir. If there is then an increased demand during the day, this day storage is used to generate energy. Since no start-up time is necessary, the power plants are ideal for balancing energy demand peaks. In day storage mode, it has a capacity of around 456 MWh.

Impressions



Image notes

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Pumped storage power plant, Forbach

Rudolf Fettweis plant in Forbach

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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