



# Underground power station power generation

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Robert-Bourassa generating station, Quebec, Canada, is the largest underground power station in the world. It generates 5,616 MW from 16 turbines with a net rated head of 450 feet (137.2 m).

An underground power station is a facility that utilizes a significant natural difference in elevation between two waterways, such as a waterfall or mountain lake, to generate electricity.

Underground hydropower refers to hydropower plants developed within mountainous topography that incorporate various underground structures such as headrace tunnels, pressure tunnels, and powerhouse caverns, ...

Directory and listing of underground power stations from around the world including images, technical data, literature and other project information.

Some notable underground power stations are: o Kazunogawa Power Station is a 1,200 MW underground pumped storage plant in Japan. Kazunogawa consists of four 400 MW generation units. The cavern for the underground power station is 1,600 feet (500 m) below the surface. It is 690 feet (210 m) long by 177 feet (54 m) high and 112 feet (34 m) wide. The head is 2,343 feet (714 m).

The most common underground power plants are hydropower plants. Hydropower plants use the potential energy of water to drive a water wheel or turbine and generate electricity.

An underground power station is a type of hydroelectric power facility constructed by excavating its primary components--such as the machine hall, penstocks, and tailrace--directly into bedrock or mountains, ...

Often underground power stations form part of pumped storage hydroelectricity schemes, whose basic function is to level load: they use cheap or surplus off-peak power to pump water from a lower lake to an upper lake.

They use cheap or surplus off-peak power to pump water from a lower lake to an upper lake. Then, during peak periods (when electricity prices are often high), the power station generates power from the water held in the ...

This document discusses underground powerhouse design and construction. It describes four types of underground powerhouse arrangements and characteristics of upstream, downstream, and intermediate ...

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