Pumped storage power plants list

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The following page lists all pumped-storage hydroelectric power stations that are larger than 1,000 MW in installed generating capacity, which are currently operational or under construction. Those power stations that are smaller than 1,000 MW, and those that are decommissioned or only at a planning/proposal stage may be found in regional lists ...

The 10 Largest Pumped-Storage Hydropower Plants in the World. By Scott Lewis. 1. Bath County Pumped Storage Station, Virginia, USA, 3,003 MW capacity, completed 1985. The station features two...

Closed-loop pumped storage hydropower systems connect two reservoirs without flowing water features via a tunnel, using a turbine/pump and generator/motor to move water and create electricity. The Water Power Technologies Office (WPTO) invests in innovative PSH technologies and research to understand and determine the value of the potential ...

Pumped-storage hydroelectricity (PSH), or pumped hydroelectric energy storage (PHES), is a type of hydroelectric energy storage used by electric power systems for load balancing. A PSH system stores energy in the form of gravitational potential energy of water, pumped from a lower elevation reservoir to a higher elevation.

IHA"s Hydropower Pumped Storage Tracking Tool maps the locations and data for existing and planned pumped storage projects. The tool is the most comprehensive and up-to-date online resource tracking the world"s water batteries. The tool shows the status of a pumped storage project, it"s installed generating and pumping capacity, and its actual ...

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Photo Credit: Jeffrey Ocampo, Dominion Energy

2. Huizhou Pumped Storage Power Station, China, 2,448 MW capacity, completed 2011. The upper reservoir is created by two dams, of roller-compacted concrete, one of them 56 m tall, and 156 m long, and the second 14 m tall and 133 m long. The lower reservoir dam is 61 m tall and 420 m long. The power station is located near Huizhou in Guangdong Province. It features eight pump-generators supplied by Alstom Power.

4. Okutataragi Pumped Storage Power Station, Japan, 1,932 MW capacity, completed 1974. Kurokawa Reservoir, the upper reservoir, has a capacity of 27,067-acre-feet. It was created by an embankment dam 98 m tall, and 325 m long. Tataragi Reservoir, the lower reservoir, has a capacity of 15,771 acre-ft. It sits behind a 64-m-tall, 278-m-long dam. It is owned and operated by the Kansai Electric Power Co., and located in Hyōgo Prefecture on Honshu island.

Photo Courtesy of Wikimedia Commons

Photo Courtesy of Consumers Energy

6.Tianhuangping Pumped Storage Power Station, China, 1,836 MW capacity, completed 2004. Each of the station’s two reservoirs hold 8 million cu m of water, and are separated by 580 m in elevation. 3.2-m dia pipes feed into the six 306 MW turbines. Located in Zhejiang Province, 175 km from Shanghai, the station helps stabilize the East China Power Grid. A consortium led by Kvaerner received the powerhouse equipment contract. Other partners included GE Hydro and Austria’s Elin Energiversorgung (VA Technologie). The construction cost was $1.08 billion.

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