

Annual power generation of Shuifeng Lake

Where is Shuifeng hydroelectric plant located?

Part of the Global Hydropower Tracker, a Global Energy Monitor project. Shuifeng hydroelectric plant () is an operating hydroelectric power plant on the border of Liaoning, China and North Pyongan, North Korea. Loading map...

Why was the Shuifeng Dam built?

The Shuifeng (Sup'ung) dam was constructed by the Japanese between 1937 and 1943 in order to generate electricity and it has been repaired and renovated multiple times -- primarily due to spillway damage from flooding. Flooding in 1946 damaged the stilling basin at the toe of the dam and destroyed its spillway, requiring repairs the next year.

How big is Shuifeng Dam?

The Shuifeng (Sup'ung) dam is a 106 m (348 ft) tall and 899.5 m (2,951 ft) long concrete gravity dam with a crest elevation of 126.4 m (415 ft). The dam's spillway consists of 26 sluice gates with a maximum discharge capacity of 37,650 m³/s (1,329,597 cu ft/s).

Why is the Shuifeng hydropower station called?

The Shuifeng Hydropower Station is known as (or) in Chinese and ??? in Korean². The Shuifeng (Sup'ung) dam was constructed by the Japanese between 1937 and 1943 in order to generate electricity and it has been repaired and renovated multiple times -- primarily due to spillway damage from flooding.

What is the largest hydroelectric power station on the Yalu River?

It is still the largest hydroelectric power station on the Yalu (Korean: Amnok) River. Power produced at the dam's main 630 MW power station is evenly shared between China and North Korea. The dam is featured on the national emblem of North Korea.

How much water is exchanged in Shihwa Lake?

Approximately 147 million cubic m of seawater is exchanged during these times, which makes up about the half of the entire lake. The COD level at Shihwa lake is currently at 2 ppm - from 3.7 ppm before - which is similar to that of the West Sea (Yellow Sea), indicating that its water quality is improving.

The study will support the formulation of medium- and long-term operation plans for Shuifeng Reservoir and downstream power plants. The medium and long term forecast of runoff in ...

The medium and long term forecast of runoff in areas with little data is related to the medium and long term power generation of power plants, and also has a strong guiding effect on the short ...

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The results indicate that the theoretical annual tidal energy resources is about 2#215;10 8 kWh under the influence of tidal power station; Optimized power installation is ...

The Sihwa Lake Tidal Power Station is the world"s largest tidal power plant, generating enough clean electricity to power over 250,000 homes. ... The tidal power generation plant can ...

Statistical models use information on power plants with reported annual generation to estimate the correlation between annual generation and plant characteristics such as capacity, fuel type, ...

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