

# **Suofengying Power Plant Fish Fry Propagation Station**





## Overview

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The Suofengying Dam is a concrete on the , 44 km (27 mi) northwest of in , China. It is located 35.5 km (22 mi) downstream of the and 74.9 km (47 mi) upstream of the . The primary purpose of the dam is power generation and it supports a 600 MW power station. Construction on the dam.

Does pumped storage hydropower development affect fish conservation?

The conflict between pumped storage hydropower development and fish conservation needs to be effectively resolved. Laws and regulations should ensure that all current and planned pumped storage hydropower plants have measures in place to implement and monitor their effects on fish habitat, mortality, and migration behavior.

How can China protect fish during the turbine and pump modes?

China should apply existing case studies and recently developed solutions from the United States and Europe, which protect fish during both the turbine and pump modes through the use of fish collection systems, fish diversion systems, and physical and behavioral barriers (11, 12).

How does pumped storage hydropower protect fish?

Given the system's planned expansion, strategies to protect fish are urgently needed. The function of pumped storage hydropower is similar to a giant battery (4) that stores water at two altitudes and produces energy by releasing water through a turbine from the upper reservoir to the lower one.

Can cascade hydropower stations be transformed into a large-scale hydropower energy storage system?

This paper preliminarily evaluates the feasibility of transforming cascade hydropower stations to a large-scale cascade hydropower energy storage system (LCHES) via adding a pumping station between two adjacent upstream and downstream reservoirs.

Is pumped storage hydropower causing high fish mortality?



The strategy has become an essential component of the world's clean energy systems. However, in addition to pumped storage hydropower's numerous benefits, it can cause high fish mortality. Given the system's planned expansion, strategies to protect fish are urgently needed.

What is a fish-friendly turbine mode?

For the turbine mode, when water is released to the lower reservoir, fish-friendly design has been developed over years. Extensive hydraulic testing and simulations have been carried out to decrease fish injury and mortality caused by collision, high shear stresses, and turbulence (7, 8).



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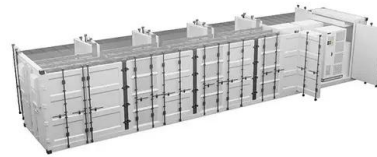


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