

## European Solar Energy Storage

# Bangkok pumped storage project



## Overview

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Egat plans to convert three hydropower dams into giant energy storage facilities, supporting Thailand's renewable energy needs through a 90-billion-baht pumped storage hydropower project.

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In the implementation of this project. The total annual power generated by Units 1 and 2 in 2005 reached 484 GW, which is 93% of the target level supply of high-quality electric power. Nationwide maximum output and energy production increased nearly 1.3 times between 2001 and 2005. Consequently.

BANGKOK – The Electricity Generating Authority of Thailand (Egat) has announced plans to transform three additional hydropower dams into large-scale energy storage facilities, or “batteries,” as part of a 90-billion-baht investment to support Thailand's clean energy initiatives. This project aims.

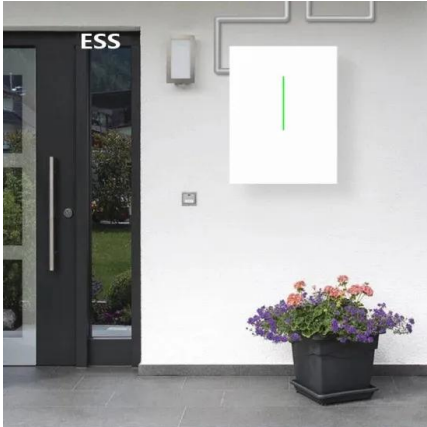
The Bangkok hydropower energy storage project might sound like sci-fi, but it's the real deal. This article isn't just for engineers in hard hats – we're talking to: Here's the kicker: Bangkok's air conditioning demand could power a small country. During heatwaves, the city gulps electricity like a.

To mitigate the impact of intermittent wind and solar power generation, the Electricity Generating Authority of Thailand (EGAT) plans to invest 90 billion Thai baht (approximately 2.6 billion USD) in expanding pumped-storage hydropower plants at three dams. These plants will use pumped storage.

The Electricity Generating Authority of Thailand is currently focusing on expanding its pumped-storage capacity to increase system flexibility and to allow for a significant ramping-up of variable renewable energy. Hydropower and Dams News Editor, Martin Burdett, reports on how these developments.

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### **Pumped-storage development plans in Thailand**

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### **Egat to Convert Hydropower Dams into Giant ...**

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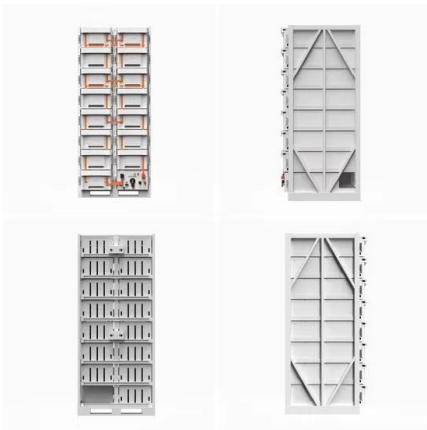


### **Egat to Convert Hydropower Dams into Giant "Batteries" with ...**

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### **Thailand's Egat to Transform Hydropower Dams into Energy Storage**

3 ???· The Electricity Generating Authority of Thailand (Egat) plans to convert three hydropower dams into massive energy storage systems with a 90-billion-baht investment. This effort aims to stabilize the clean energy supply, supplementing solar and wind power, which are subject to weather fluctuations.

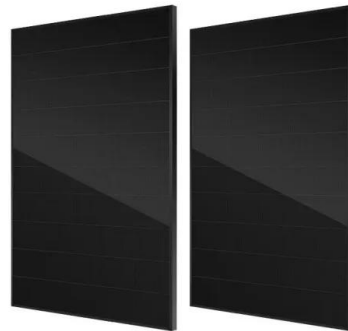


## Thailand's emerging energy storage sector

The Ministry of Energy and EGAT have reportedly been considering the impact of deploying additional pumped storage hydropower in order to improve grid flexibility.

## Thailand to add 3 more large-scale pumped storage ...

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## Bangkok pumped storage project

The Electricity Generation Authority of Thailand's (EGAT) Lam Ta Khong Pumped Storage Project (hereafter referred to as the Lam Ta Khong project) is located in the Si Kheu and Pak Chong districts of Nakhon Ratchasima province, 200 km northeast of the capital city of Bangkok.

## Thailand, Indonesia, Vietnam to boost pumped-storage hydropower

BANGKOK -- Pumped-storage hydropower plants, which generate electricity with pumped water and can help balance the supply of renewable energy, are expanding across Southeast Asia, where the



### 3 Lam Ta Khong Pumped Storage Project

The objective of this project was to construct a pure pumped storage power plant and to strengthen Thailand's ability to cope with peak power demand by using the existing Lam Ta Khong Reservoir as the lower pond and constructing an upper pond with an effective water storage volume of 9.9 million m<sup>3</sup>, in addition to an underground power

### Bangkok Hydropower Energy Storage Project: Powering ...

Enter the Bangkok hydropower energy storage project as the reliable dance partner. Last July, when clouds played hide-and-seek with solar panels, the PSH system provided 18% of central Bangkok's emergency backup.



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