

## SolarTech Power Solutions

# Sri Lanka Pumped Hydropower Storage solar Power Station



## Overview

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The Maha Oya Pumped Storage Power Station is a 600 MW being developed in the Aranayaka and Nawalapitiya areas of Sri Lanka. Upon completion, it will be the country's first facility, and one of the largest in terms of nameplate capacity. The Maha Oya facility is designed to store excess renewable energy from solar and wind sources, thus creating supporting infrastructure for Sri Lanka's target of generating 70% of its electricity from renewable sources by 2030.

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The Ceylon Electricity Board (CEB) is preparing to launch the Maha Oya Pumped Storage Hydropower Project, known as Pumped Storage Power Plants (PSPP), its first-ever 'Water Battery', located in Aranayake and Nawalapitiya. This groundbreaking 600 MW project will store surplus renewable energy from.

**Abstract:** Pumped hydro storage (PHS) is a well-established technology for storing energy in large quantities and over long periods. Sri Lanka, a country rich in hydropower resources, has significant potential for PHS development. The central highlands, where the country's major hydropower plants.

This innovative venture is set to revolutionize the country's renewable energy sector, offering a stable and efficient solution for integrating solar and wind power into the national grid. The project underscores Sri Lanka's commitment to a greener future by reducing dependence on fossil fuels and.

The Maha Oya Pumped Storage Hydropower Project, Sri Lanka's first-ever 'water battery,' announced by the Ceylon Electricity Board (CEB) last week, is

estimated to cost around \$ 1 billion, with construction set to be completed by 2031 provided the CEB successfully completes the detailed design of.

Sri Lanka is embarking on a groundbreaking renewable energy journey with its first-ever “Water Battery”—the Maha Oya Pumped Storage Hydropower Project. This 600-megawatt initiative, spearheaded by the Ceylon Electricity Board (CEB), will store surplus energy from solar and wind power, ensuring a.

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