

## SolarTech Power Solutions

# Malaysia Energy Storage Power Station Safety Division



## Overview

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To ensure access towards an affordable and clean energy for all, the Malaysian government has tabled the National Energy Policy in 2022 which further addresses the energy trilemma challenges and i.

What is energy storage system in Malaysia?

Outlook of energy storage system in Malaysia Energy storage is one of the emerging technologies which can store energy and deliver it upon meeting the energy demand of the load system.

Why is battery energy storage system important in Malaysia?

Although Tenaga Nasional Berhad (TNB) restored electricity by 5:54 p.m. that same day, the outage exposed underlying vulnerabilities in Malaysia's power infrastructure — and reinforced the growing importance of Battery Energy Storage Systems (BESS) in ensuring grid resilience. (Multiple Sources: Nanyang Siang Pau, The Independent, Berita Harian ).

What is Malaysia's first sodium-sulfur battery energy storage system?

In a pioneering project, we installed and commissioned Malaysia's first Sodium-Sulfur (NaS) Battery Energy Storage System (1.45MWh) at the LSE II Large Scale Solar farm in Bukit Selambau, Kedah. This project serves as a national reference point for future large-scale standalone battery deployments.

Are battery energy storage systems a keystone in Malaysia's Energy Transformation Story?

Battery energy storage systems (BESS), once relegated to the margins of policy discussions, are fast becoming a keystone in Malaysia's energy transformation story. As solar and other renewables take up greater shares of the generation mix, the national grid's growing complexity demands a reliable backbone, a role BESS is beginning to fulfil.

Why is Malaysia launching a sodium-sulfur battery system in 2024?

By October 2024, Malaysia saw the deployment of its first sodium-sulfur (NaS)

battery system at a large-scale solar farm in Kedah. This marked a significant step forward for the country's storage landscape, as the advanced NaS technology offers higher energy density and a longer discharge duration compared to conventional lithium-based systems.

What data do you publish for the Peninsular Malaysia grid system?

We publish data for the Peninsular Malaysia grid system consisting of power station information, system generation and demand profiles, fuel mix and tie-line data, and system constraints. The website also publish relevant documents that are required under the GSO Ring-Fencing Rules and Regulations.

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