

State Grid Thailand Builds Energy Internet



Overview

In early March 2025, the Government of Thailand formally signed a landmark \$1.8 billion agreement with Gorilla Technology Group (NASDAQ: GRRR) to embark on a nationwide, 15-year AI-powered smart grid transformation —shortly established as Thailand's largest-ever energy digitization programme. Thailand's Renewable Power Development Plan (RPDP) targets 14 GW of energy storage by 2037 to support a grid running on 51% renewable electricity (Ember, 2025). As of early 2026, the country has roughly 2,685 MW of storage capacity operational or awarded — just 19% of. The advancement of technology in the energy sector has caused significant changes to the power grid, such as more distributed generation, increasing role of renewable energy by switching from fossil fuel to renewable sources particularly in the transportation sector. Therefore, MEA has developed. Thailand Renewable Grid Integration Assessment undertakes a comprehensive analysis covering the technical, economic, and policy and regulatory frameworks. The analysis comprises the following important areas: 1) the existing VRE penetration context in Thailand, 2) grid integration of VRE in. Global business solution provider Gorilla Technology Group has announced a \$1.8 billion agreement to lead an energy digitisation and smart grid initiative in Thailand.

Article Content

Thailand Advances Smart Grid Development Through

Thailand's National Science and Technology Development Agency (NSTDA) presenting updates on the implementation of the National AI Strategy, which now

Thailand 4.0: The Smart Grid Project

Thailand's National Energy Policy Council approved a national smart grid plan which aims to enhance the reliability of the country's grid. Under the

Thai Power Giant EGAT Unveils "Triple S" Strategy to Hit Net Zero by 2050

State utility confirms ambitious plan to double renewable energy share in national grid, focusing on massive Floating Solar

Partner Country Series

This study provides recommendations to guide decision-making in power sector operation and planning, investment, and policy to support the uptake of VRE in a reliable and cost-effective manner in order

Présentation PowerPoint

Maintain Grid reliability and quality of the System according to Thailand power system standard Control frequency, voltage and power flow of high voltage transmission system Co-ordinate with IPPs, SPPs

Prioritized challenges of energy transition in Thailand's power sector

The challenge issues in energy transition of power sector in Thailand were collected, and categorized into 9 main groups, namely investment, market entry, supply chain, grid integration, social

Thailand in Need of "Energy 4.0" | Asian Development Blog

A strong foundation for Thailand's "Energy 4.0" is already in place: approximately 10 GW of renewable energy capacity, a mature framework on

Thailand launches 10-year 240 billion baht power grid

To build a large-scale renewable energy base and connect it to the grid, the security and stability of the system must be considered. If the scale and

Greener Grids: Thailand's Journey Towards Renewable

Greener Grids: Thailand's Journey Towards Renewable Energy Independence
Discover how Thailand is revolutionising its energy sector by

Thailand's \$1.8 Billion AI-Powered Smart Grid Revolution

In early March 2025, the Government of Thailand formally signed a landmark \$1.8 billion agreement with Gorilla Technology Group (NASDAQ: GRRR) to embark on

Partner Country Series

Thus, the dynamics shaping the energy policy landscape in Thailand must evolve to accommodate the growth of VRE. Thailand Renewable Grid Integration Assessment undertakes a comprehensive

National Energy Grid of Thailand

GENI conducts research and education on: renewable energy resources interconnections globally, world peace, stable sustainable development solutions, renewable energy, climate changes, global

Energy Storage and Grid in Thailand: Complete Guide 2026

This guide covers every major storage technology deployed or planned in Thailand: grid-scale battery systems (BESS), pumped hydroelectric storage, vehicle-to-grid (V2G), and emerging

Thailand's cleaner grid is within reach

Transparent, cost-reflective wheeling charges — meaning, the fees for using the grid — are essential. But before that, Thailand must improve data transparency, given that the current state

Thailand's Smart Grid

Pilot Microgrid System Project in Rat Burana District (MEA) EPPO has conducted a study on promoting the use of net-zero energy microgrid systems in government facilities across the country.

Thailand Advances Smart Grid Development Through

Thailand's National AI Smart Grid strategy drives energy sector digitalization and workforce readiness. Discover how this plan positions Thailand as an ASEAN AI

Smart Distribution

The advancement of technology in the energy sector has caused significant changes to the power grid, such as more distributed generation, increasing role of renewable energy by switching from fossil fuel

Strengthening Thailand's Smart Grid through

Thailand is in the midst of a major energy transformation, with a strong national focus on grid modernization, energy efficiency, and smart infrastructure.

Can the Thailand Energy Grid Keep Up with

The potential limitations of the Thailand energy grid are coming into focus as the country seeks to expedite its green transition. Asian Insiders' partner

Thailand commits to USD1.8 Billion AI-powered smart grid transformation

The Government of Thailand has announced a USD1.8 billion agreement with Gorilla Technology Group to implement an AI-driven smart grid initiative over 15 years. The program aims to modernise the

Huawei energizes the National Smart Grid Master Plan, advancing

Additionally, Dr. Suthee emphasized Huawei's mission to reinforce a "Energy as a Service" approach in Thailand: "With our commitment to "Grow in Thailand, Contribute to Thailand",

Energy Transition Thailand 2030: SIPET Knowledge Hub

This causes high barriers to entering the market for renewable energy. Grid integration is another challenge. With a fairly advanced supply chain for

Smart grid solutions for grid modernization challenges

In a world where power systems are rapidly evolving, the data-driven smart grid is set to revolutionize the energy landscape. This remotely managed digital grid

Thailand's state grid to ink 5.2GW renewable deals in Q3

ERC to sign PPAs with 175 firms for 5.2GW renewable energy scheme in Q3, including bio-gas, wind power, and solar farms.

Frontiers | Microgrid Policies: A Review of Technologies and Key ...

Literature Review According to the IEC62898-1 standard, a microgrid can be 1) standalone, or a subsystem of the smart grid, 2) an alternating current electrical system with loads

Thailand Smart Grid Policy Plan and Roadmaps

Smart Grid development in each utility in line with the national master plan and regulatory framework

GMS Energy Sector Strategy 2024-2030

Building Energy Code (BEC) New or retrofitted buildings being constructed with total area equal to 2,000 m² or more must be designed under the Energy Conservation Act requirements.

Thailand set for \$1.8bn smart grid and AI energy

The programme will integrate advanced technology, automation and data driven AI powered intelligence to create a smarter, more resilient energy

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