



Singapore integral energy solutions

What is Singapore's grid digital twin?

Singapore embarked on the Grid Digital Twin in 2021 with the aim of enhancing Singapore's grid resilience, reliability, and support the deployment of cleaner energy sources. The Grid Digital Twin, comprising two key models - Digital Asset Twin and Digital Network Twin - is a virtual replica of the physical grid network and infrastructural assets.

What is the Singapore Integrated Transport & Energy model (Sitem)?

EMA and agencies such as A*STAR's IHPC, S&TPPO, and TUMCREATE, have developed the Singapore Integrated Transport and Energy Model (SITEM) to model the impact of additional Electric Vehicle (EV) demand on the grid and identify necessary infrastructure upgrades under different scenarios.

Who is Lys Energy Group?

LYS Energy Group is the leading Singapore-based renewable energy platform that offers end-to-end clean energy solutions for commercial, industrial and public sites in the Asia Pacific region specialising in zero capex solar energy (PPA), Renewable Energy Certificates (RECs), turnkey EPC and O&M services.

What's happening with Singapore's first digital twin & distributed energy resource management system?

There has been good progress in the development of Singapore's first Grid Digital Twin and Distributed Energy Resource Management System, and they will continue to be developed over the next few years.

Will Singapore's Energy Grid be future-proofed?

As part of Singapore's energy transition, the Energy Market Authority (EMA), together with industry partners, have embarked on digital projects to future-proof the nation's energy grid infrastructure.

What is Singapore's 'digital asset twin'?

Created in collaboration with Government agencies, industry players and academia, research and development for Singapore's first Grid Digital Twin for the national power grid has demonstrated good progress. The Digital Asset Twin is a virtual replica of SP Group's electricity network assets.

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SP Group aims to be a leading sustainable energy solutions provider in the region. Leveraging our engineering expertise, digital capabilities and track record in Singapore, we are expanding our presence in international ...

LYS Energy is the first Singapore-based Solar Independent Power Producer that builds, owns and operates



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solar photovoltaic systems in the Asia Pacific region. It offers the full range of solar services to install solar energy systems for commercial, industrial and public sites.

One of Singapore key strategies to further mitigate GHG emissions is to increase the energy efficiency of various sectors and/or introducing renewable energy sources. Singapore Industry, ...

Not only do we identify technical challenges, we offer real sustainable solutions to bring renewable energy to you. Our expertise and capabilities as a leading Engineering, Procurement and Construction (EPC) service provider allow us to ...

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SP Group is committed to enabling a low carbon, smart energy future for customers in Singapore and the region. We develop sustainable solutions for individuals and organisations, powered by our in-house energy technology and digital capabilities.

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Delta's smart energy solution combines Delta's building automation system, solar power generation system, building energy management system, electric vehicle charging system, emergency power generation system, energy storage system, and regional power distribution system to create a regional electricity grid.

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