



# Singapore symbiont energy

How is Singapore transforming the way it produces energy?

Highlights on how Singapore is transforming the way it produces energy through the Four Switches-- Solar Energy, Regional Power Grids, Low-Carbon Alternatives, and Natural Gas, as well as ramping up efforts to manage demand.

Can Singapore meet its energy needs?

However, Singapore's limited renewable energy sources and land area present obstacles to meeting these energy needs. Even as we work towards our solar target of 2 gigawatt-peak (GWp) by 2030, it will only constitute approximately 3% of Singapore's total electricity demand.

Why should Singapore import electricity?

As Singapore's energy demand continues to grow, electricity imports will be a key supply source in addition to solar and emerging low carbon technologies such as hydrogen in our net-zero journey.

Why is Singapore importing electricity through regional power grids?

Among our four supply Switches in Singapore's energy transition, importing electricity through regional power grids will enable us to tap on the abundant renewable energy sources in the region to meet our climate commitments.

Can Singapore achieve its ambitions for cross-border electricity trade?

Tan Xin Yi, Deputy Director of the Energy Connections Office, looks at developing and implementing policy and plans to achieve Singapore's ambitions for cross-border electricity trade. "In Southeast Asia, different countries have vastly different renewable energy potential.

Will Singapore's Energy System be a game-changer in 2035?

Singapore has set a target to have an import capacity of up to 4 gigawatts (GW) of low-carbon electricity by 2035. This would be a game-changer for Singapore's energy system by making electricity imports form about 30% of Singapore's projected energy supply then. We have since made several significant strides to make this a reality.

Symbiont Energy, LLC ("Symbiont") is an emerging energy development and investment firm focused on helping businesses reduce their energy costs and carbon footprint through implementation of on-site generation and energy efficiency improvements.

Blessed with abundant sunlight year-round, solar energy is considered the most viable renewable energy source available in Singapore. Singapore is also one of the most solar-dense cities in the world, with 1.17 gigawatt-peak (GWp) of solar deployment as of the fourth quarter of 2023 - more than halfway to our target of 2 GWp by 2030.

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Yet, Singapore is blazing a trail towards a sustainable energy future. Through our Four Switches -- Solar Energy, Regional Power Grids, Low-Carbon Alternatives, and Natural Gas -- we are reshaping the way we produce energy. We are also ramping up efforts in energy efficiency to manage demand, propelling us towards a clean energy future.

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Singapore's growing appetite for imported renewable energy will help to lay the groundwork for the development of a regional grid in Southeast Asia, stimulating investments ...

Energy in Singapore has evolved in response to its environmental impact and reliance on fossil fuels. The government has implemented several strategies to transition towards a more sustainable energy model. In 2019, Singapore introduced the Carbon Pricing Act, aimed at reducing carbon emissions by imposing

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Singapore is therefore harnessing natural gas, solar, regional power grids, and low-carbon alternatives to transform its energy supply, while promoting energy efficiency to reduce demand. Electricity imports are illustrative of how Singapore is tapping on regional power grids to meet energy demand.

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