

Most commercial wind turbines operate at average wind speeds of at least 4.5 m/s. On the other hand, the average wind speed in Singapore is only about 2-3 m/s. Hence, there is low potential of using wind for power generation in Singapore based on existing technology.

However, we face challenges to the use of solar energy in Singapore. We have limited available land for the large scale deployment of solar panels. In addition, the presence of high cloud cover across Singapore and urban shading poses challenges such as intermittency.

Energy demand in Asia continues to grow, fuelled by population growth, changing standards of living, and its thriving economies. At Gurin Energy, we develop solar, wind and energy storage projects to support Asia's sustainable development journey.

Solar alone cannot account for Singapore's energy needs and economic services and products, and alternatives like wind turbines are not promising. The country will need to import renewable energy from overseas or invest in carbon offsets to counteract its current energy production.

Considering the limited renewable energy options, Singapore has to adopt innovative ways of integrating solar energy systems and commercial wind turbines to generate sufficient baseload electricity from renewable sources.

Gurin Energy is a renewable energy company headquartered in Singapore. We take effective action to move Asia to 100% renewable energy, with a mission to develop, own and operate enough solar, wind and storage solutions to power 10 million homes.

Web: <https://www.gennergyps.co.za>