Singapore microgrid development

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Recently upgraded and expanded, the Pulau Ubin Micro-grid features a test-bed which can potentially meet 90% of the daily electricity demand in the main village using solar power.

It will be housed in SIT"s future campus at Punggol Digital District when completed. The micro-grid will cover nine buildings, be largely energy self-sufficient and can connect and disconnect from the grid as required.As a national infrastructure, the micro-grid will enable local research community and businesses to test-bed new technologies and solutions in a controlled environment, while providing students the opportunity to work with industry partners and energy start-ups.

Microgrids are self-sufficient energy systems that serve a certain area, such as a college campus. And they could be more widely deployed in the decades ahead as Singapore moves to reduce the carbon footprint of its power sector.

The rise in use of these distributed energy sources would mean the country"s largely single-layered grid - where electricity flows from generation companies to users - will become a multi-layered one.

Future users could have part or all of their energy needs met through microgrids, according to the recent Energy 2050 Committee report commissioned by the Energy Market Authority to study the future of Singapore"s power sector.

The microgrid to be installed in SIT"s future Punggol campus, first announced in 2017, will have features that serve as a test bed for novel energy systems that could accelerate their deployment around the island.

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