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Surbana Jurong and NTU to develop hybrid system for cleaner energy

By [Molly Burgess](#) on Jul 21, 2020 | [Translate](#) ▼

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Surbana Jurong and Nanyang Technological University, Singapore (NTU Singapore) are jointly developing an integrated urban power generation system that can harvest, store and use cold energy from the regasification of LNG, with the option of using liquified hydrogen as an additional energy source.

Unveiled today, the new system called ‘Cryo-Polygen’ will combine the concurrent generation of electricity, gas, cold energy, steam and hot water into a single plant operation.

Once commercially available, the hybrid system is expected to play a part in reducing carbon footprint and helping Singapore reach its goal of 36% carbon emissions’ reduction by 2030. The cold energy generated from the system can be used to power cold storage warehouses and to cool data centres, industrial parks and buildings.