

What is the new AC/DC hybrid microgrid?

The AC/DC hybrid microgrid will include a variety of on-site and remote renewable energy resources, including energy storage technologies and electric vehicle (EV) charging stations. It will also include a new district cooling network that will serve NUS' University Hall and surrounding buildings.

Is Singapore's biggest microgrid the next weekend getaway for energy Geeks?

What sounds like the next weekend getaway for energy geeks is Singapore's biggest microgrid at the nation's Pulau Semakau landfill, commissioned this month by French multinational electric utility company Engie to demonstrate how to generate clean power from multiple sources and test energy-efficient industrial solutions in tropical conditions.

Could distributed controllers help Resilient microgrids?

To that end, engineers at the U.S. Department of Energy's Oak Ridge National Laboratory (including three of us--Ferrari, Ollis, and Starke) are investigating distributed controllers that will allow microgrids to form a larger network that will increase their resiliency and facilitate the integration of more renewable energy.

Why is ENGIE launching a Reids-core microgrid in Singapore?

Engie opened its Singapore lab in 2016 to act as a regional hub for energy innovation and technology, the same year it pledged to slash its direct emissions by 85 per cent by 2050 to align with the Paris Agreement's objective of capping global warming at 2 degrees Celsius. The REIDS-SPORE microgrid has been in the works ever since.

How do local microgrid controllers work?

Instead, the local microgrid controllers maintain full control of their assets, such as PV panels, and they react to the pricing signal and make their own decisions about buying or selling power to one or more neighboring microgrids. This approach preserves the autonomy and privacy of each microgrid.

What is ENGIE's Reids-core microgrid on Pulau Semakau?

Engie's REIDS-SPORE microgrid on Pulau Semakau features Singapore's tallest wind turbine, a solar farm, a battery storage system, and a green hydrogen facility encompassing the fuel's production, storage, and usage.
Image: Engie

1 · Duke Energy has commissioned its new Duke Energy + Electrada Fleet Mobility Microgrid in Mount Holly, North Carolina - which the utility calls a "first-of-its-kind electrification center" for commercial and public electric fleet vehicles ...

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