

Microgrids doha

Doha: Siemens will deploy the Middle East's first microgrid designed for industrial use, enabling Qatar Solar Energy (QSE) to reduce electricity costs, curb carbon emissions and benefit from a more stable power supply.

The microgrid at QSE's factory in Doha will comprise a mix of energy sources - the local grid, solar panels, battery storage, back-up generators and cooling system.

Generating as much as 1 megawatts from the sun, the hybrid network will enable QSE to trim its electricity bills by maximizing use of solar power and storing energy in batteries to satisfy on-peak demand.

"This project will be a showcase for Siemens to demonstrate its grid edge capabilities and the value it brings to industrial customers and buildings by helping them to lower energy costs, rein in carbon emissions and ensure a more dependable power supply," said Helmut von Struve, the CEO of Siemens in the Middle East. "We look forward to helping QSE enhance its operations by leveraging the many benefits of microgrids."

Siemens will provide the microgrid's control panel, power meters, photovoltaic inverters and Siemens software for Distributed Energy Optimization (DEOP) to monitor the network's energy flow. QSE manufactures solar panels and related electronic equipment with the aim of making the country a global renewable energy technologies development and leadership hub.

"QSE is committed to providing innovative products that will accelerate the adoption of renewable energy in Qatar and around the world," said QSE's Chairman Salim Abbassi. "By deploying this microgrid from Siemens, we will prove that clean power is reliable and affordable at an industrial scale, and this enables us to press ahead with our growth strategy in the expanding market for renewable energy."

Microgrids are expected to expand across the Middle East. Some rural areas, for example, currently use small diesel generators to power communities. An increased renewable power capacity, along with stable, reliable and efficient microgrids, can help these rural areas phase out some of these polluting diesel power plants. Campuses, industrial zones, military bases and islands can likewise benefit from the reliable and sustainable power supply microgrids offer.

Siemens AG will deploy the first microgrid of the Middle East designed for industrial use with Qatar Solar Energy (QSE) for cutting carbon emissions, reducing the cost of electricity, and having a more stable power supply.

The microgrid will be situated in QSE's factory in Doha. It will consist of energy mixes including solar panels, a backup generator, a cooling system, the local grid, and battery storage. Generating as much as 1 MW from the sun, the hybrid network will enable QSE to trim its electricity bills by maximizing the use of



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solar power and storing energy in batteries to satisfy on-peak demand.

Siemens will supply power meters, microgrid control panels, and photovoltaic inverters with its software for Distributed Energy Optimization (DEOP) to monitor the network's energy flow. QSE manufactures solar panels and related equipment and aims to make the country a leadership and global renewable energy technologies development hub.

"QSE is committed to providing innovative products that will accelerate the adoption of renewable energy in Qatar and around the world," said QSE's Chairman Salim Abbassi. "By deploying this microgrid from Siemens, we will prove that clean power is reliable and affordable at an industrial scale, and this enables us to press ahead with our growth strategy in the expanding market for renewable energy."

This will also be the first microgrid supplied by Siemens which will be connected to a conventional power grid. It can serve as a model for other Middle Eastern companies and industries that want to cut their operating expenses while contributing to the fight against climate change. Microgrids are expected to expand across the Middle East.

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