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Microgrids provide resilience, sustainability, and efficient energy solutions by leveraging onsite renewable generation with smart grid resources, leading to better connectivity and driving toward decarbonisation and the democratisation of energy.

Microgrids are different from smart grids. A microgrid is a self-sufficient and localised energy system serving a discrete geographic footprint, which may be a business centre, hospital complex, etc. It includes distributed energy sources and multiple loads, which can be operated parallelly with the broader utility grid. Smart grids, on the other hand, are electrical grids that operate on a larger scale and can regulate energy flows from generation points to consumption points. They include communication, automation, and IT systems.

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Schneider Electric offers a ready-to-use solution to help you design a microgrid, regardless of the application. Our pre-engineered microgrid control centres have all the components you need for power management, control, energy metering, and power monitoring. In addition, our microgrid management software - EcoStruxure - offers pre-engineered algorithms to make the functions standardised and reliable.

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