

Hence, this paper suggests the implementation of islanded microgrids in the remote regions of Sri Lanka while integrating them with the abundant renewable resources in the areas.

Sri Lanka's first comprehensive grid-tied renewable energy microgrid project was successfully completed recently at the University of Moratuwa (UOM). It is a well-equipped system that ensures an uninterrupted power supply for local industries.

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In the first stage a grid-connected microgrid will be established to provide the campus of Sri Lanka's renowned technical university with power. It relies on the Universal ...

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As an initiation, a renewable energy microgrid pilot project has been commissioned at the University of Moratuwa, Sri Lanka. Micro grid is self-sustained energy system with energy generation sources like solar, wind, energy storage devices, and controllable loads.

The LECO Microgrid Pilot Project is the first of its kind in Sri Lanka. It consists of a solar photovoltaic system, a lithium-ion battery energy storage system, and a diesel generator as the energy resources. The capacity of the solar photovoltaic system is 350 kW, and the battery energy storage system is 400 kWh.

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Since the year 1999, SENOK Mark Group and SENOK Hydroelectric Plants have collaborated in developing mini-hydropower plants in Sri Lanka and the African region. Our mutual experience in the local and regional energy industries has allowed us to deliver sustainable EPC solutions that suit the local requirements and future energy demands.

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