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FEASIBILITY ASSESSMENT OF SMART GRID TECHNOLOGY FOR THE SRI LANKAN URBAN AREAS E.G.L.S. Rajapaksha¹, U. Rathnayake² and A.S.W. Karunarathna³ **ABSTRACT** This study examines the viability of using smart grid technology in the urban areas of Sri Lanka as a solution to the electricity sector's challenges. Considering the elevated

the most implemented Smart Village feature in Sri Lanka is smart education, however, the most required Smart Village features are listed as smart connectivity and smart agriculture. Further, the technologies like ICT, AI, IoT, GIS, 5G, and smart grid can be adapted to raise the Smart Village concept covering agriculture, education,

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. ... UOM Smart Grid Research Lab, a research and development facility with state-of-the-art equipment from reputed manufacturers. The lab ...

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Hydro is Sri Lanka's main source of renewable generation today, but the government is seeking to encourage more solar PV and wind investment. Image: Ceylon Electricity Board. The Asian Development Bank (ADB)

multilateral finance institution has approved a loan to upgrade Sri Lanka's grid infrastructure.

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