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5 ???· NREL researchers are advancing the viability of thermal energy storage as a building decarbonization resource for a highly renewable energy future. Thermal energy storage reduces energy consumption and increases load flexibility, thus promoting the use of renewable energy sources. At NREL, the thermal energy science research area focuses on the ...

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This paper explores how integrating CCUS with renewable energy can help address Liberia's energy challenges. Most of its energy comes from traditional biomass fuels and imported fossil fuels, which contribute heavily to carbon dioxide emissions and global warming.

The primary barriers to expanding renewable energy in Liberia include infrastructure limitations, high initial investment costs, and a regulatory framework that requires further development to support diversified renewable energy initiatives.

5 ???· NREL's advanced manufacturing researchers provide state-of-the-art energy storage analysis exploring circular economy, flexible loads, and end of life for batteries, photovoltaics, and other forms of energy storage to help the energy industry advance commercial access to renewable energy on demand.

Liberia has significant opportunities for improving energy access, including abundant renewable energy potential, international support and investments, public-private partnerships, off-grid and mini-grid solutions, and energy efficiency measures.

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