



# Saint Lucia energy storage applications

What is the future of electricity in Saint Lucia?

At the same time, recent developments in energy efficiency, renewable energy, cleaner-burning fuels (e.g., natural gas), electricity storage, and advanced controls and metering present a myriad of opportunities. Saint Lucia's current electricity system is well managed, reliable, and equitable.

What is Saint Lucia's energy transition opportunity?

RESULTS Saint Lucia's energy transition opportunity provides a win-win situation in which the Government of Saint Lucia supports constituents through cheaper electricity, and LUCELEC continues to profit and provide reliable service.

How much electricity does Saint Lucia have?

LUCELEC has an installed electricity generating capacity of 78.4 megawatts(MW),with peak demand of 60 MW. Most of the island's energy is produced from imported diesel fuel that powers electrical generators. Saint Lucia's electricity rates are more than triple the U.S. average.

Is Saint Lucia reliant on fossil fuels for electricity generation?

Like many island nations,Saint Lucia is almost 100%reliant on imported fossil fuels for electricity generation,leaving it vulnerable to global oil price fluctuations that directly impact the cost of electricity.  
Electricity Sector Data

How much geothermal potential does Saint Lucia have?

The volcano that sits in the middle of Saint Lucia provides vast geothermal potential. Conservative estimates indicate more than 30 MWof technical geothermal potential; others estimate 170 MW. Estimates also show that development of this geothermal resource would likely be economically feasible.

Can a biomass plant be built in Saint Lucia?

A biomass plant requires large tracts of agricultural land and is not economically feasible. Rivers and waterfalls on Saint Lucia do not have a base flow rate sufficient to power water turbines. The most promising hydroelectric spot is the Roseau Reservoir,which can supply 150 kilowatts (kW).

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Through the support of LUCELEC and the GoSL, the NETS charts a pathway toward a future Saint Lucian energy system--one of lower cost, continued reliability, and increased energy independence. This vision applies specifically to Saint Lucia, but the process and findings apply across the Caribbean region and build upon specific projects ...

USTDA's assistance will help develop an enabling regulatory environment for renewables and assess the feasibility of implementing six solar-plus-storage microgrids at critical facilities in Saint Lucia. The NURC selected the Colorado-based RMI to carry out the assistance.

environmentally safe storage, handling and use during the transition phase. 4 the sector. 6 Ensure that human, technical and institutional capacity is aligned with the needs of the energy sector and objectives of the policy by the integration of social and gender aspects in the development of the energy sector. 7

Transitioning to clean energy sources can help protect Saint Lucia's natural resources and preserve water and air quality. With abundant geothermal, wind, and solar resources to more than meet Saint Lucia's peak demand, even partial development of these resources could result in high penetration of renewables onto the grid.

Saint Lucia's energy transition opportunity provides a win-win situation in which the Government of Saint Lucia supports constituents through cheaper electricity, and LUCELEC continues to profit and provide reliable service. The analytical team supporting the IRP initially examined 14 scenarios for the future energy mix of Saint Lucia,

Overview of the National Energy Policy (NEP) The NEP for Saint Lucia, covering the period 2023 to 2030, reflects the commitment of the Government of Saint Lucia to strengthen energy security and reduce energy supply costs. Furthermore, the NEP will help the country meet its nationally determined commitment



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