

SolarTech Power Solutions

St Lucia grid-connected wind power generation system



Overview

How can wind turbines improve the energy system in Saint Lucia?

In addition to energy storage systems, demand response and frequency support from wind turbines can also be used to maintain system stability in the presence of high renewable generation. The two studies completed on the Saint Lucia electricity system are described in more detail below.

How much does wind energy cost in Saint Lucia?

LUCELEC-owned wind becomes cost competitive at or above EC\$124 (US\$46) per barrel of oil. Energy efficiency is the cheapest resource available, costing approximately EC\$0.14 to \$0.19 per kWh (including program operation costs), and is largely untapped in Saint Lucia.

How can smart charging benefit the electricity grid in Saint Lucia?

If smart charging approaches are utilized, the introduction of electric vehicles in Saint Lucia can benefit both LUCELEC and the electricity grid by providing additional storage resources and increasing total consumption of electricity without increasing the peak load.

Does Saint Lucia have a good electricity system?

The Government of Saint Lucia believes a well- functioning electricity system underpins a strong national economy, and is committed to ensuring that all citizens have safe, reliable, and cost-effective access to electricity. For decades, Saint Lucians have benefitted from a reliable power supply, but at a cost.

When did Saint Lucia start regulating electricity?

In 2010, Saint Lucia began a process to revise the electricity regulatory framework (last updated in 2006), including the concessionary agreement, in line with national objectives to increase the use of renewable energy. In early 2016, a new independent National Utilities Regulatory Commission (NURC)

was established.

Does Saint Lucia need a generator?

Burn the gas for electricity (which for Saint Lucia requires new generators or costly retrofits to existing generators).

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