

How does Jamaica's energy system work?

Jamaica's energy system is heavily reliant on imported fossil fuels, with petroleum imports accounting for over 80 percent of electricity production. The country's electricity production is mainly dependent on imported fossil fuels. Here's a quick glance at how the sector has performed over the last five years.

What is Jamaica's energy policy?

The highest priority facing the Electricity Sector is, and has been since 2002, a policy decision on fuel". According to the MEM (2009), in 2008 Jamaica's electricity generating mix consisted of 95 percent petroleum and 5 percent renewables.

Why is the Jamaican electricity sector important?

It also forms part of a broader exercise to develop a framework for benchmarking the Jamaican electricity sector. The performance of Jamaica's electricity industry is crucial for several reasons. Firstly, there is a high degree of correlation between electricity consumption and gross domestic product (GDP).

What is the nature of Jamaica's energy sector?

Jamaica's energy sector has been marked by high dependence on imported petroleum products, with 94 percent of all energy used coming from imports in 2008. The sector was also a combination of various private and public entities, leading to intricate decision-making processes and coordination challenges.

Who purchases electricity in Jamaica?

JPS purchases approximately 297 MW of electricity from Independent Power Producers (IPPs) such as Jamaica Energy Partners (JEP), Jamaica Private Power Company (JPPC), Jamalco, and Wigton Wind Farm.

How is energy productivity measured in Jamaica?

Performance on the generation side of the electricity industry is measured in terms of energy productivity defined in Equation 1. In the case of Jamaica, total net generation by the industry is made up of net generation by the JPSCo and by IPPs. The energy sources from which electricity is generated include thermal, hydro and wind.

The generation side of Jamaica's electricity industry was analysed using four indicators of energy productivity namely: (i) KWh/BOE for the entire oil-based thermal generating system (JPSCo ...

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By following the examples of Uruguay and Costa Rica, Jamaica can rapidly transition to a cleaner, more reliable energy system. Public ownership of the grid, combined with private investment in renewable energy generation, offers the best path forward.

2020 ENERGY REPORT CARD INTRODUCTION This document presents Jamaica's Energy Report Card (ERC) for 2020. The ERC provides an overview of the energy sector performance in Jamaica. The ERC also includes energy efficiency, technical assistance, workforce, training, and capacity building information, subject to the

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Technical assistance aided in updating the Electric Lighting Act of 1890 with the modernized Electricity Act in 2015, which encompasses a comprehensive energy strategy that includes renewable energy, biofuels, ...

Consequently, Jamaica has been charting a new path to energy security based on domestic renewable energy sources in order to build an energy system that is socially, economically, and environmentally sustainable. The electricity generation sector is ...

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