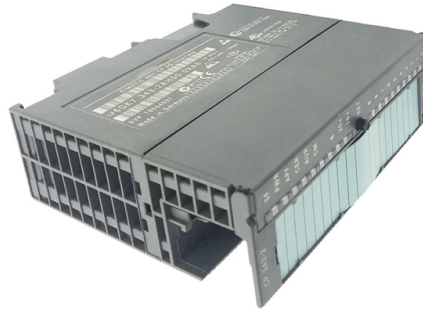


Upgraded Red Light Source for Jamaica s Power System



AI Overview

Jamaica has upgraded over 112,000 streetlights to energy-efficient smart LED systems, significantly reducing electricity consumption and enhancing grid management. Smart LED Streetlight Project Jamaica's Public Service Company (JPSCo) has replaced more than 112,000 high-pressure sodium and mercury vapor streetlights with smart LED fixtures across all 14 parishes, funded by the Caribbean Development Bank and other partners. These LEDs are equipped with smart controllers, allowing remote monitoring, maintenance, and precise energy management, which reduces electricity consumption by up to 60% and lowers operational costs. Street lighting represents the second-largest electricity consumer in Jamaica's public sector, accounting for 15% of total public sector consumption. Energy Efficiency and Cost Savings The LED upgrade has enhanced visibility, improved public safety, and encouraged nighttime economic activity. The project is projected to save the Government of Jamaica approximately USD 13.9 million annually while reducing greenhouse gas emissions. The smart system also allows JPSCo to measure individual streetlight consumption, improving energy efficiency and reducing maintenance costs due to the long lifespan of LEDs, which can reach up to 100,000 hours. Integration with the National Grid JPSCo operates 14,000 kilometers of transmission and distribution lines, with generation capacity exceeding 629 MW and additional electricity purchased from Independent Power Producers. The smart LED system integrates seamlessly with the national grid, optimizing electricity usage and reducing peak demand pressures. The smart controllers also allow for real-time monitoring, enabling rapid response to outages or theft, which has been a challenge in high-theft areas. Future Renewable Integration There is growing interest in renew...

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MONTEGO BAY, St James — Noting that the Jamaica Public Service Company's (JPS) grid is designed to withstand Category 3 storms, president and

A lightbulb moment

A brighter, cooler light source using only one third to one thirtieth the energy of incandescent and fluorescents, the LED bulb is lighting up high energy-use Jamaican hospitals,

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The Ministry awarded two (2) licences for utility scale renewable energy generation to Wigton Energy Limited for 49.83 MW and Sunterra Energy (Jamaica) Limited for 50 MW respectively in February 2025.

The Jamaica Public Service Company Ltd.

The Jamaica Public Service Company Ltd. (JPS) is the sole distributor of electricity for the island of Jamaica. The company

Ministry of Energy, Transport and Telecommunications

Jamaica Private Power has entered into a 20-year PPA with Jamaica Public Services Company, or JPSC, under which JPSC has agreed to purchase all of Jamaica Private Power's

1 Jamaica Electricity Grid Source: JPS

Download scientific diagram | 1 Jamaica Electricity Grid Source: JPS from publication: Jamaica Sustainable Energy Roadmap: Pathways to an Affordable,

PROJECT STORY: JAMAICA

PROJECT STORY: JAMAICA Street lighting is the second largest consumer of electricity for the public sector in Jamaica, representing 15% of total public sector consumption. This makes street lighting a

Microsoft Word

Electrical Interconnection and import/export: The following map highlights the major elements of Jamaica's power system. The Transmission Network is defined in blue, and the main Distribution

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JAMAICA ELECTRICITY SECTOR

In discharging this responsibility, generally the OUR takes guidance from the objectives set forth in section 3 of the Electricity Act, and specifically the following objectives: (1) the provision of a modern

From darkness to light

TWO weeks after Hurricane Melissa's onslaught on Jamaica, 64 per cent of Jamaica Public Service Company (JPS) customers now have electricity restored, the firm's president and

Rewriting JPS's legacy for a thriving nation

For Jamaica's 2.9 million citizens, electricity costs — among the world's highest — cast a shadow over dreams, draining wallets and stunting progress.

MINISTRY OF SCIENCE, ENERGY, TELECOMMUNICATIONS

The IRP-1 preferred implementation plan promotes the transition to cleaner energy production and reduced utilization of imported fossil fuel by achieving a renewable energy penetration in the

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PROJECT STORY: JAMAICA

As of March 2022, 105,000 street lights were successfully replaced with LED lights. When the project is completed, it will save the GOJ approximately USD13.9mn per annum as well as significantly

Contact Us

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