

European Solar and Energy Storage Solutions

Distribution energy systems Puerto Rico



Overview

What is the Department of energy's role in Puerto Rico's energy recovery?

The U.S. Department of Energy's (DOE) role in Puerto Rico's energy recovery is to: Leverage its network of National Laboratories to supply advanced planning and modeling capabilities to stakeholders in Puerto Rico. Serve as a trusted unbiased convener and coordinator among relevant federal and local decision makers.

What is Puerto Rico's new energy policy?

Act 17-2019 establishes Puerto Rico's new energy public policy. Based on the need to establish a process for the development and approval of long-term integrated planning of the Island's distribution resources, the Energy Bureau of the Public Service Regulatory Board determined it convenient to begin a formal regulatory process for these purposes.

Does Puerto Rico need a grid modernization?

In September 2022, Hurricane Fiona again knocked out 100% of the grid for as long as four weeks in parts of Puerto Rico, highlighting the continuing need for grid modernization on the island.

What is Puerto Rico energy resilience fund (PR-ERF)?

Puerto Rico Energy Resilience Fund (PR-ERF): In December 2022, Congress approved \$1 billion to improve the resilience of Puerto Rico's electric grid, with a focus on the region's most vulnerable and disadvantaged households and communities.

Will Puerto Rico receive a grid resilience grant?

Grid Resilience Formula Grant: On July 31, 2023, DOE announced that Puerto Rico will receive over \$7.4 million through the Grid Resilience State and Tribal Formula Grants as part of President Biden's Investing in America agenda.

Why did Puerto Rico experience severe disruptions?

Puerto Rico's communications, water and wastewater, transportation, healthcare, and critical manufacturing sectors similarly experienced severe disruptions—in most cases caused by electricity infrastructure damage or existing issues being exacerbated by the underlying instability of the grid.

Distribution energy systems Puerto Rico

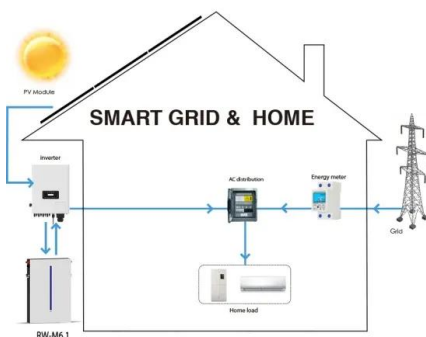


System Operation Principles

This System Operation Principles (SOP) document, which LUMA is submitting to the Puerto Rico Energy Bureau (PREB), defines how the Bulk Power System in Puerto Rico will be managed upon LUMA's commencement of operations as per the terms of the Transmission and Distribution System Operation and Maintenance Agreement (OMA).

Energy Transformation in Puerto Rico

Energy in Puerto Rico. The transformation of Puerto Rico's energy infrastructure is in progress, marking one of the island's most critical infrastructure undertakings in recent decades. Upon completion, this transformation promises to establish a more robust, clean, efficient, and accessible energy generation and distribution system.



2023 Year in Review: Advancing Puerto Rico's Grid

...

In the coming weeks, DOE will also announce the results of the Puerto Rico Grid Resilience and Transitions to 100% Renewable Energy Study (PR100), which is defining pathways for Puerto Rico to be entirely powered by ...

PUERTO RICO TRANSMISSION

AND DISTRIBUTION ...

PUERTO RICO TRANSMISSION AND DISTRIBUTION SYSTEM OPERATION AND MAINTENANCE AGREEMENT dated as of June 22, 2020 by and among THE PUERTO RICO ELECTRIC POWER AUTHORITY a limited liability company organized under the laws of Puerto Rico; and (iv) LUMA Energy ServCo, LLC ("ServCo" and, together with Manage ...



Governor-elect forms task force to weigh energy options, tackle ...

By The Star Staff Governor-elect Jenniffer González Colón is creating a task force to analyze public energy policy options and replacing LUMA Energy with another private operator to ...

Puerto Rico Grid Recovery and Modernization

In September 2017, Hurricanes Irma and Maria caused most of the transmission and distribution system in Puerto Rico to collapse, leading to one of the longest blackouts in U.S. history and leaving residents in some parts of the territory without electricity for almost a year.



Governor-elect forms task force to weigh energy options, tackle ...

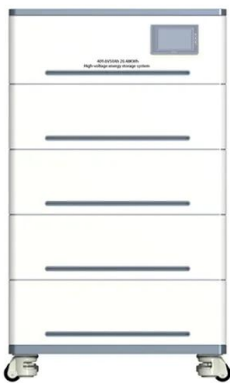
By The Star Staff Governor-elect Jenniffer González Colón is creating a task force to analyze public energy policy options and replacing LUMA Energy with another private operator to manage the island's electric power



transmission and distribution (T& D) system."In the next few days, I will be putting together a working group to review Puerto Rico's energy policy, because that will ...

A DISTRIBUTED ENERGY RESOURCE ROADMAP FOR ...

traditional centralized investments across Puerto Rico's electric system, such as proposed 302-MW natural gas combined cycle units. The analysis demonstrates that a portfolio of Distributed Energy Resources can deliver demand



System Operator

ROLE OF THE GENERATORS The Generating Facilities: Generate the energy that the System Operator receives to distribute Purchase fuel used to generate power, in the case of non-renewable sources Communicate daily status of generating units to the System Operator Are regulated by the Puerto Rico Energy Bureau (PREB) **ROLE OF THE SYSTEM OPERATOR ...**

Puerto Rico Solar + Renewable Energy Landscape

Key Findings 131 for-profit entities that directly offer goods or services in the solar energy industry in Puerto Rico were identified.; 33 of these have their main offices in San Juan.; 116 (86%) active companies offer installing services for PV systems. 62% of these were created on or

after 2017.; 18 companies specialized in the selling or distribution of materials ...

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LUMA-led transformation of Puerto Rico's energy ...

San Juan, Puerto Rico, September 26, 2021--During its first 100 days operating Puerto Rico's electric power transmission and distribution system, LUMA has laid a solid foundation for the transformation that will deliver customer-centric, ...

Extending energy system modelling to include extreme weather

Energy system optimization models often incorporate climate change impacts to examine different energy futures and draw insights that inform policy. However, increased risk of extreme weather



PUERTO RICO GRID RESTORATION

damaged or destroyed 65% of the transmission and distribution system. 2. Puerto Rico grid was already a fragile aged system. 3. Under the Stafford Act FEMA and USACE can only rebuild to pre- storm conditions. USFOR-A, USAID, and Afghanistan's Ministry of Energy and Water

(MEW) to provide increased quantity and better quality power to



Puerto Rico Distributed Energy Resource integration Study

The Puerto Rico Electric Power Authority ("PREPA") is responsible for electricity generation, power distribution, and power transmission in Puerto Rico. The design of Puerto Rico's electrical grid, as is typical of most systems, has been a centralized approach that includes large



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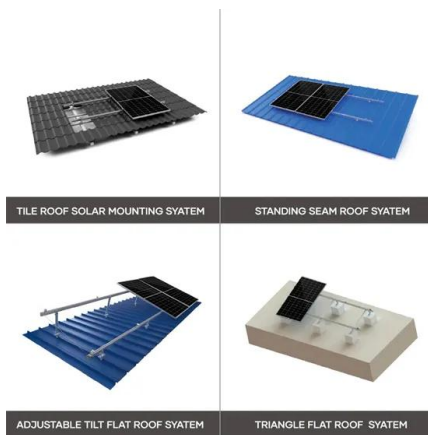
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Connecting the Dots of the Puerto Rico Electric Power System

The Puerto Rico Energy Public Policy Act of 2019 ("Act 17 of 2019") requires that Puerto Rico meet 100% of its electricity needs with renewable energy by 2050. In order to reach that objective, Act 17 set the interim goals of 40% renewable

generation by 2025; 60% renewable generation by 2040; the phaseout of coal-fired generation by 2028



Puerto Rico Grid Resilience and Modernization

All Americans deserve access to reliable and affordable power. Puerto Ricans are no exception. In September 2017, Hurricanes Irma and Maria caused most of the transmission and distribution system in Puerto Rico to collapse, leading to one of the longest blackouts in U.S. history and leaving residents in some parts of the territory without electricity ...

Distribution Resource Planning - PREB

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Distribution Resource Planning - PREB

Distribution Systems in a High Distributed Energy Resources Future: Planning, Market Design, Operation and Oversight Offers a framework to

consider DER growth and address its impacts in a logical sequence in order to guide distribution system evolution.



What Would It Take to Bring Renewable, Reliable Power to Puerto Rico

Solar panels are installed on the rooftops of several businesses around the town square in Adjuntas, Puerto Rico.. Since Maria struck the US territory, a concerted effort to boost the island's energy resilience has been underway. In 2023, the US Department of Energy (DOE) announced the Puerto Rico Energy Resilience Fund, a \$1 billion pot to be divvied up among ...



Contract Between Puerto Rico, LUMA Energy Sets up Full

Puerto Rico Public-Private Partnership for the Electric Power Transmission and Distribution System," Partnership Committee Report. May 15, 2020, p. 44. 11 O'Neill & Borges LLC. Transformation and Energy Relief Act 57-2014. June 2014. 12 PREPA and P3 Authority, Puerto Rico Transmission and Distribution System Operation and

LUMA-led transformation of Puerto Rico's energy system has ...

San Juan, Puerto Rico, September 26, 2021--During its first 100 days operating Puerto Rico's electric power transmission and distribution system, LUMA has laid a solid foundation for the transformation that will deliver customer-centric, reliable, resilient, sustainable electricity at reasonable prices to all Puerto Ricans.



PR100

Supporting Puerto Rico's goal of 100% renewable energy by 2050. The Puerto Rico Grid Resilience and Transitions to 100% Renewable Energy Study (PR100) comprehensively analyzes possible pathways for Puerto Rico to achieve its renewable energy goals while incorporating stakeholder perspectives and advancing energy resilience for all Puerto Ricans.

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