



# Puerto Rico interconnected grid system

What is happening to Puerto Rico's power grid?

Puerto Rico's electric grid, still loosely held together by the temporary fixes made after Hurricane Maria devastated the island in 2017, is set to see the beginnings of a multi-billion rebuild and modernization this year, helped, in part, by the naming of Burns & McDonnell as program manager to support the grid rebuilding and modernization.

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.

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.

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.

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.

How do I apply for solar in Puerto Rico?

Puerto Rico residents can visit to check their eligibility, start collecting required documentation for their applications, and find their local Solar Ambassador.

The discussion focuses on rebuilding the grid in Puerto Rico after Hurricane Maria in 2017 and how the world is pivoting to a new electric grid. Bahramirad is the point person helping to rebuild the grid in Puerto Rico and go beyond what existed prior to ...

A customer-centric, resilient, and sustainable electrical grid is key to the economic growth of Puerto Rico. The GridMod Plan is guided by 3 basic principles to "Build Back Better" from the devastation of the 2017 Hurricanes. o Improve affordability for residents and businesses

4 ???&#0183; The Grid Deployment Office's (GDO) Puerto Rico Grid Recovery and Modernization Team



# Puerto Rico interconnected grid system

works across federal government agencies coordinate billions of dollars in federal aid, provide technical assistance to local stakeholders, and support current rebuilding activities. This team, in coordination with the Department's national labs, led the Puerto Rico Grid Resilience ...

To ensure the long-term recovery of Puerto Rico's electric power grid in the most secure and resilient way, the U.S. Department of Energy funded research to develop recommendations for ...

The discussion focuses on rebuilding the grid in Puerto Rico after Hurricane Maria in 2017 and how the world is pivoting to a new electric grid. Bahramirad is the point person helping to rebuild the grid in Puerto Rico and ...

**Transmission System Expansion:** The interconnection of new renewable resources will require the construction of new tie lines to the bulk power system in Puerto Rico. The DOE assumed different entities would be responsible for covering those costs.

A Microgrid is defined as a group of interconnected loads and energy resources within clearly defined electrical boundaries, acting as a single controllable entity that can connect and disconnect from the grid to operate in either grid-connected or islanded mode.

Supported by the Bipartisan Infrastructure Law and administered by the Grid Deployment Office, this grant will help modernize Puerto Rico's electric grid to reduce impacts of climate-driven extreme weather and natural disasters, improve power sector reliability, and enhance Puerto Rican communities' access to affordable, reliable, clean ...

**Transmission System Expansion:** The interconnection of new renewable resources will require the construction of new tie lines to the bulk power system in Puerto Rico. The DOE assumed different entities would be ...

To ensure the long-term recovery of Puerto Rico's electric power grid in the most secure and resilient way, the U.S. Department of Energy funded research to develop recommendations for a cohesive new framework of interconnection standards for utility-scale renewable electrical generation and energy storage that ensure cross-technology ...

The U.S. grid is divided into three major regions: The Eastern Interconnection, which operates in states east of the Rocky Mountains. The Western Interconnection, which covers the Pacific Ocean to the Rocky Mountain states. The Texas Interconnected system. Within each of these regions are interconnected local electricity grids.

Before Hurricane Maria, Puerto Rico had interconnection regulations for distributed energy resources (DERs) but did not have regulatory framework for larger microgrid systems. After Hurricane Maria, Puerto Rico Energy Commission (PREC) approved microgrid regulations, but Puerto Rico Electric Power Authority



# Puerto Rico interconnected grid system

(PREPA) continues to

Web: <https://www.taolaba.co.za>

