

Puerto Rico grid modernization and the smart grid

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.

Does Puerto Rico need a smart grid?

According to DOE's June 2018 report,[61] DOE, New York Power Authority, PREPA, FOMB, and Congressional Research Service all recommended that Puerto Rico increase the grid's smart capabilities, such as by upgrading control systems to improve the ability to monitor and provide information on grid conditions.

Will the federal government help rebuild Puerto Rico's electricity grid?

The federal government will be a major partner in the long-term rebuilding of Puerto Rico's electricity grid after the September 2017 hurricanes.

How can federal agencies support long-term electricity grid recovery efforts in Puerto Rico?

Federal agencies can support long-term electricity grid recovery efforts in Puerto Rico through three primary roles--providing funding and technical assistance and coordinating among local and federal agencies.

What is DOE's role in grid recovery in Puerto Rico?

Moreover, DOE's role in grid recovery in Puerto Rico has not been clearly defined, according to DOE officials. There is no agreement defining roles and responsibilities related to grid recovery for the agencies participating in RSFLG Energy Subgroup meetings, according to DOE officials.

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.

Efforts are underway to rebuild a more resilient grid. FEMA has worked with Puerto Rico to assess grid damage, estimate costs, and more. FEMA recently committed about \$10 billion to fund grid recovery but has not approved any long-term grid projects or given local entities clear information about how projects will likely be funded.

grid recovery in Puerto Rico. GAO was asked to review the federal response to the 2017 hurricanes. This report (1) describes the role of federal agencies in supporting electricity grid recovery efforts in Puerto Rico; and (2) examines the status of federal support for grid recovery in Puerto Rico and challenges affecting progress on grid ...

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3 ???· The announcement comes as the U.S. territory continues to struggle with chronic power outages that have worsened since Hurricane Maria pummeled the island as a powerful Category 4 storm in 2017, razing the electric grid. The outages also are blamed on a lack of maintenance and investment in its electric grid for decades.

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enhance grid resilience to hurricanes, such as smart grid technology. FEMA officials told GAO that additional funding sources could be used for resilience ... In July 2019, Puerto Rico submitted its Grid Modernization Plan that included about \$20.3 billion in potential

2 ???· The U.S. Dept. of Energy selected four teams for funding to support efforts to build solar and battery storage facilities in Puerto Rico. Photo courtesy U.S. Dept. of Energy ...

Smart grid generally refers to a class of technology people are using to bring utility electricity delivery systems into the 21st century, ... Puerto Rico Grid Resilience & Transitions (PR 100) Tribal Energy Access; Economic Growth. Economic Growth ... A critical component of grid modernization is a coordinated, strategic research, development ...

Funds are slated to go to microgrids, solar, energy storage and other smart grid technologies. The DOE's Grid Deployment Office last week released a request for information (RFI) seeking input on how to design the program. The agency intends to fast-track the program and begin allocating funds this year. ... director of the Puerto Rico Grid ...

The modernization plan now says that the grid can be rebuilt with smaller distributed generating units that provide more flexibility and redundancy and that help maintain operating and spinning ...

4 ???· The Grid Deployment Office's (GDO) Puerto Rico Grid Recovery and Modernization Team 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 ...

In particular, smart grid technology is essential for adopting distributed energy resources and renewable energy projects--key components of Puerto Rico's Grid Modernization Plan, according to COR3 officials.

Since Hurricane Fiona, the Puerto Rico Grid Recovery and Modernization Team has facilitated multiple visits by Secretary Granholm to the region and made remarkable progress in local energy...

The purpose of this document is to show how various Puerto Rico power grid improvements could be c

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evaluated, against metrics for both economics and resilience. Next, we illustrate a low-cost enhancement using a model of the Puerto Rico power grid. Analysis shows that a modern grid control method, corrective

Now the US Department of Energy plans to change that with the distribution of \$1 billion to improve energy resilience in Puerto Rico. Funds are slated to go to microgrids, solar, energy storage and other smart grid technologies.

Today AES Ohio, a subsidiary of The AES Corporation (NYSE: AES), filed its Smart Grid Phase 2 Plan with the Public Utilities Commission of Ohio (PUCO) proposing to invest \$682.7 million in capital projects over a 10-year period following the Smart Grid Phase I Plan, which ends June 2025. The plan continues investments in grid infrastructure with smart ...

AES Ohio, a subsidiary of The AES Corporation (NYSE: AES), announced a Settlement enabling the deployment of Smart Grid Phase 2, which will continue the customer benefits and grid modernization enabled by Smart Grid Phase 1. If approved by the Public Utilities Commission of Ohio (PUCO), the Settlement would allow AES Ohio to move forward with ...

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