

## European Solar and Energy Storage Solutions

# Puerto Rico second life battery energy storage



## Overview

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WASHINGTON D.C. – The U.S. Department of Energy (DOE) today announced four Puerto-Rico-based teams selected to install solar and battery storage systems under its new Programa de Comunidades Resilientes, funded by DOE’s Puerto Rico Energy Resilience Fund (PR-ERF). This investment of up to \$365 million aims to improve community-level energy resilience for vulnerable populations across Puerto Rico .

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Electric pickup truck startup Rivian announced that they are deploying used battery packs as a second-life energy storage on a solar microgrid in Puerto Rico.

The initiative aims to use Rivian’s second life batteries as stationary energy storage units in a solar microgrid project at Adjuntas, Puerto Rico. The goal of the energy storage project is to support energy independence and adoption of renewable power generation, according to a Rivian press release .

A new U.S. Department of Energy loan guarantee will help finance 200 MW of solar and 285 MW of grid-scale storage on the island.

It will have a capacity of 90MW for solar PV and a battery energy storage system (BESS) with an output of 51.5MW, which integrates a lithium-titanate oxide (LTO) battery. Once operational, the EPC firm will also operate and maintain the solar-plus-storage plant for five years. What is Puerto Rico's battery energy storage system?

The Puerto Rico Electric Power Authority's battery energy storage system is a 20,000kW energy storage project located in Puerto Rico. It was announced in 2018 and will be commissioned in 2020. The Puerto Rico Electric Power

Authority owns the system (100%).

Can used battery packs be used as energy storage?

Electric pickup truck startup Rivian announced that they are deploying used battery packs as a second-life energy storage on a solar microgrid in Puerto Rico.

How much money does Puerto Rico have to pay for solar?

Up to \$190 million is available to Puerto Rico's Housing Administration and a private company to pay for solar and battery installations in public housing common areas and subsidized, multifamily housing properties. Another \$175 million is available for certain healthcare and dialysis centers.

Why did Puerto Rico get a power outage?

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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### Second life batteries from Rivian EVs to be used in other energy

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### DEPCOM constructs Puerto Rico solar-plus-storage plant

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### Puerto Rico: Regulator approves 360MW plan to accelerate battery

The distribution provider, appointed after the privatisation of Puerto Rico Electric Power Authority (PREPA) assets, "informally proposed" its 'Accelerated storage addition program' (ASAP) in November last year. Luma claimed ASAP could significantly reduce the time required to integrate BESS onto the grid, compared to Puerto Rico's present system of renewable energy ...

## Breadcrumb

WASHINGTON, D.C. -- As part of the Biden-Harris administration's Investing in America agenda, the U.S. Department of Energy (DOE), through its Loan Programs Office (LPO), announced a \$861.3 million loan guarantee to finance the construction of two solar photovoltaic (PV) farms equipped with battery storage and two standalone battery energy ...

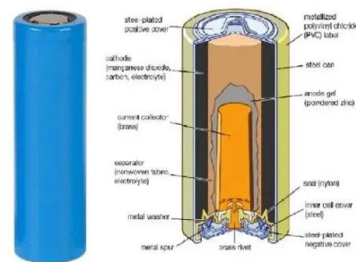


## U.S. DOE allocates \$325 million for community solar, battery storage ...

The new Programa de Comunidades Resilientes, funded by a second tranche of DOE's Puerto Rico Energy Resilience Fund (PR-ERF) will provide funding for solar and battery storage installations for

## DEPCOM constructs Puerto Rico solar-plus-storage ...

EPC DEPCOM building Puerto Rico solar-plus-storage plant with 51MW BESS. By Jonathan Touriño Jacobo. It will have a capacity of 90MW for solar PV and a battery energy storage system (BESS) with an ...



## Solar and Energy Storage Being Deployed in Puerto Rico for ...

June 22, 2022, Sunnyvale, California. Maximo Solar, POWERSYNC Energy Solutions, and Nuvation Energy have been collaborating to add solar power and energy storage to a microgrid project in Puerto Rico. The project is being design-



built by the integrated design and construction firm Arco Caribe Architects. Maximo Solar is adding 194 kW of solar power and

## U.S. Department of Energy Announces Over \$450 Million to ...

SAN JUAN, PUERTO RICO-- The U.S. Department of Energy (DOE) today announced up to \$453.5 million from the Puerto Rico Energy Resilience Fund (PR-ERF) aimed at increasing residential rooftop solar PV and battery storage installations across the region, with a focus to reach and support Puerto Rico's most vulnerable residents. This round of funding will ...



## EV maker Rivian is trying out its second-life batteries in ...

Rivian has designed its pack, module, and battery management system to seamlessly transition from vehicle energy storage to stationary energy storage at the end of their vehicle life. The battery module's thin design ...



## DOE Announces Over \$13 Million to Connect More Puerto Rico ...

WASHINGTON, D.C.-- The U.S. Department of Energy (DOE) today announced a slate of

community groups and nonprofits selected to receive up to \$13.85 million to help vulnerable households in Puerto Rico obtain residential solar and battery storage installations and provide residents with education and consumer protection services.



## Battery price falls threaten second life energy storage model

Second life energy storage involves deploying used electric vehicle (EV) batteries into stationary battery energy storage systems (BESS) and German company Fenecon announced last week (3 April) that its manufacturing facility in Lower Bavaria, which does just that, has officially gone into operation.. The 24,000 sqm, c \$30 million investment facility will ...

## DOE Announces \$440M to Install Rooftop Solar and Battery Storage ...

The U.S. Department of Energy (DOE) has selected solar companies and nonprofits to install rooftop solar and battery storage systems for vulnerable households in Puerto Rico through the Puerto Rico Energy Resilience Fund (PR-ERF) grant worth \$440 million.. The first tranche of the PR-ERF grant will help reduce energy bills for 30,000 to 40,000 single ...



## US says \$365 million is available to install solar and



## battery storage

The U.S. Department of Energy says \$365 million is available to install solar and battery storage systems in homes and healthcare centers across Puerto Rico By The Associated Press December 12

## U.S. Department of Energy Announces \$325 Million for Solar and Battery ...

WASHINGTON, D.C. - Today, the U.S. Department of Energy (DOE) announced a \$325 million funding opportunity for the new Programa de Comunidades Resilientes, funded by a second tranche of DOE's Puerto Rico Energy Resilience Fund (PR-ERF). This program aims to improve community-level energy resilience for vulnerable populations across ...



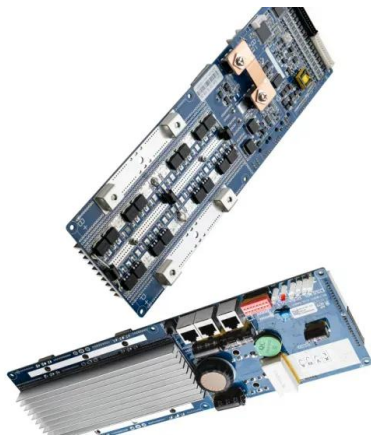
## US says \$365 million is available to install solar and battery storage

The U.S. Department of Energy said Thursday that \$365 million is available to install solar and battery storage systems in homes and healthcare centers across Puerto Rico. Up to \$190 million is

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## EV maker Rivian is trying out its second-life batteries in a solar

Rivian has designed its pack, module, and battery management system to seamlessly transition from vehicle energy storage to stationary energy storage at the end of their vehicle life. The battery module's thin design enables second-life applications that are space-efficient and customizable, important for environments with existing

## U.S. Department of Energy Announces up to \$365 Million to Equip

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## Puerto Rico Electric Power Authority's Battery Energy Storage ...

The market for battery energy storage is estimated to grow to \$10.84bn in 2026. The fall in battery technology prices and the increasing need for grid stability are just two reasons GlobalData have predicted for this growth, with the integration of renewable power holding significant sway over the power market.



## Enphase Energy Expands Battery Storage in Puerto Rico

Residential battery capacity in Puerto Rico and other U.S. territories is growing steadily year-over-year with forecasts estimating deployments will nearly double by the end of 2026, according to the most recent U.S. Energy Storage Monitor report from the Energy Storage Association and Wood Mackenzie.

## Second life energy storage firms anticipating EV battery boom

A battery energy storage system using EV batteries, from Sweden-based BatteryLoop, one

of the companies interviewed for the article. Image: BatteryLoop. The boom in electric vehicles is set to see hundreds of GWh of used EV batteries hit the market over the 2030s, which can then be given a 'second life' in stationary energy storage.



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