

Does Guam have a smart grid?

Guam Power Authority received a \$16.7 million ARRA Smart Grid Initiative Grant from the Department of Energy to implement a comprehensive deployment of Smart Grid technologies. GPA floated bonds in FY 2010 to come up with the matching \$16.7 million. This project is a transformational project to bring Guam's power grid into the 21st century.

What is Guam's energy policy?

In 2019, P.L. 35-46 raised the RPS to 50% net electricity sales by December 31, 2035, and 100% by 2045. Regulations are described in Guam Code § 8311. GPA's Clean Energy Plan (2022 Integrated Resource Plan) roadmaps a path to 100% clean, reliable, resilient, affordable energy by 2045 and builds upon the 2008 IRP.

How many Customer-Sited distributed energy resource systems are there in Guam?

Over 2,000 customer-sited distributed energy resource (DER) systems represent significant assets to Guam's renewable energy (RE) generation. Nearly 22 MW of DER generation capacity accounted for 2.6% of total generation/sales and 23% of total RE generation/sales in 2021 (see Table 6).

How much energy does Guam use?

Conclusion Total energy consumption in Guam has been increasing over the past 12 years. In 2021, the island consumed 241 million gallons of imported fossil fuels. Of the total energy consumed on the island, less than 4% is supplied by carbon-free renewable energy.

Why is Guam reliant on imported fuel?

With no indigenous fossil energy resources, Guam is reliant on imported fuel for their energy and transportation needs, with most of the imported fuel coming from Asia. The Guam Power Authority (GPA) is a public-power utility and autonomous agency of the government of Guam.

What data is available on Guam's energy sector?

Introduction This report summarizes the currently available data on Guam's energy sector as of December 2023. It describes primary energy consumption, end uses, energy production, relevant policies, and key challenges, including details on the electric power and transportation sectors.

Guam Power Authority Smart Grid Project Scope of Work The Guam Power Authority's (GPA's) Smart Grid Project involved a ... An energy management system was deployed to leverage the new automation assets. Customers now have the ability to install devices that assist in managing electricity use and costs, including in-home displays and home ...

The pattern of energy production and use in Guam is shaped by its location, a remote island. Almost all energy

is reliant on imports of petroleum products for use in transport and electricity. Guam has no domestic production of conventional fuels such as oil, natural gas or coal. Its economy is dependent on the import of gasoline and jet fuel for transport and residual fuel oil ...

The U.S. Department of Energy (DOE) Preventing Outages and Enhancing the Resilience of the Electrical Grid Grants program, established under the Infrastructure Investment and Jobs Act (IIJA), will be funding \$1.7 million to the Guam Power Authority (GPA) to improve the electric grid, prevent customer outages and reduce the impact of extreme weather events on ...

100% renewable energy that considers future load growth, equity, and affordability as well as enhancing the reliability of Guam's electric grid. Guam community stakeholder input will inform the approach to analysis and modeling of future electricity needs, priorities (resilience, equity, and affordability), and resources to meet those needs.

Guam: Energy intensity: how much energy does it use per unit of GDP? Click to open interactive version. Energy is a large contributor to CO<sub>2</sub> - the burning of fossil fuels accounts for around three-quarters of global greenhouse gas emissions. So, reducing energy consumption can inevitably help to reduce emissions. However, some energy ...

Offshore wind could be an option to add more renewable power generation to the grid, with solar unable to pick up the whole workload, said John Cruz, GPA assistant general manager for engineering. GovGuam has a goal of getting the whole island to full renewable energy by 2045, but solar farms just can't keep up during the island's rainy season.

In partnership with the National Renewable Energy Laboratory, the Guam Power Authority was awarded \$3 million by the Department of Interior Office of Insular Affairs to move forward with Phase II of t

6 ???&#0183; The study, known as the "Guam 100," will set a clear path to achieving 50% electricity purchases from renewable energy by 2030 and 100% by 2040, according to a news release from GPA.

Explore different off-grid renewable energy solutions with us! Guam is an ideal location for renewal energy opportunities, primarily solar energy harvesting. Come along with us as we explore ways ...

purchases from renewable energy by 2030 and 100% by 2040 but will provide the tools to ensure energy system resilience against extreme weather events, improve energy justice, and guide GPA in its investments in modern, intelligent, and affordable grid infrastructure for the people of Guam.

GRID TRANSFORMATION & DIGITAL TRANSFORMATION 8:00 AM - 8:20 AM 8:20 AM - 8:30 AM 8:30 AM - 8:45 AM 8:45 AM - 9:00 AM 9:00 AM - 9:15 AM 9:15 AM - 10:05 AM ... Guam Energy Security Plan Energy Security & Grid Resilience to Climate Change Brian San Nicolas Dan Rueckert, P.E., CISA James Rosenberg II Ashton Raffety

GPA owns and manages the island's electric grid, which is made up of about 1,800 miles of transmission and distribution lines. The utility has about 465 megawatts of generation capacity. ... 23 U.S. EIA, International Energy Statistics, Guam, Energy intensity, Energy consumption per capita, 2017-21. 24 U.S. EIA, Guam Profile Data, Reserves ...

Guam U.S. Department of Energy Energy Snapshot Population Size 165,768 Total Area Size 540 Sq.Kilometers Total GDP \$5.9 Billion Gross Domestic Product (GDP) Per Capita \$35,600 Share of GDP Spent on Imports 53.7% Fuel Imports 6.2% Urban Population Percentage 94.9% Population and Economy

serving Guam's utilities for over 27 years during this period. John's current efforts include addressing GPA's core value strategies of providing a sustainable, affordable energy supply for Guam, hardening the utility's electric grid infrastructure, workforce development and ...

**RESILIENCE:** Guam Power Authority vehicles are parked and serviced at maintenance buildings Aug. 2, 2023, in Tamuning. A federal law created 60 new U.S. Department of Energy programs to address ...

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government The page does not exist for . To view this ... In 2022, the commercial sector accounted for 36% of Guam's electricity use, the residential sector accounted for 32%, the U.S. military for 20%, and Guam's government for 12%. ...

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