

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.

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 can Guam reduce reliance on diesel power?

In addition to increasing the resilience of its power system, Guam is also seeking to increase utilization of renewable energy sources to reduce reliance on diesel powered generation.

Does Guam need to retire power plants?

Guam Power Authority is challenged by the need to retire power plants while reliably and affordably delivering power to its customers. The settlement of an EPA Clean Air Act violation requires GPA to retire older fossil-based generating plants while Renewable Portfolio Standards mandate a transition to carbon-free electricity.

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.

How much does it cost to restore power on Guam?

The estimated cost for capacity restoration is \$5 to \$7 million, with annual operating costs of \$2-3 million. General Manager John M. Benavente, P.E., stated, "We are pleased to see the CCU's endorsement for our short-term projects, which are crucial in addressing the challenges affecting power generation on Guam."

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[From the U.S. Government Printing Office,] PLANNING FOR THE IMPACTS OF GUAM ENERGY FACILITY EXPANSION A PRELIMINARY ASSESSMENT COASTAL MANAGEMENT PROGRAM BUREAU OF PLANNING GOVERNMENT OF GUAM sp, W@ 1w, IRV, AGANA GUAM PREPARED BY, WALTER F. PINCKERT AND ASSOCIATES ...

The 150 MW Andasol solar power station is a commercial parabolic trough solar thermal power plant, located in Spain. The Andasol plant uses tanks of molten salt to store captured solar energy so that it can continue generating electricity ...

cleaner fuel is part of GPA's Clean Energy Master Plan and satisfies a federal consent decree that requires all of Guam's generators to switch to cleaner burning fuel. The Cabras 1 & 2 baseload units are running on 0.2% low sulfur residual fuel oil and the Piti 8 & 9 units are now running on ultra-low sulfur fuel.

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Guam's ETIPP project is investigating solar photovoltaic and energy storage configurations. Photo from Brooke Marshall Garcia, SNL SNL researchers will perform analysis to quantify the impacts of various solar ...

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The United States and global energy storage markets have experienced rapid growth that is expected to continue. An estimated 387 gigawatts (GW) (or 1,143 gigawatt hours (GWh)) of new energy storage capacity is expected to be added globally from 2022 to 2030, which would result in the size of global energy storage capacity increasing by 15 times ...

Pursuant to the Energy Policy Act of 2005: Underground Storage Tanks (USTs) - as of September 30, 2023. Maintaining Underground Storage Tanks is a key component to protecting the environment from hazardous waste. This program ...

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Thermal energy storage works by collecting, storing, and discharging heating and cooling energy to shift

building electrical demand to optimize energy costs, resiliency, and or carbon emissions. ... Guam English; Thailand Thai; Taiwan Traditional Chinese; Hong Kong SAR ... Realize the Potential of Thermal Energy Storage in Your Facility.

units operate efficiently by scheduling a professional service before the temperature rises, optimizing their performance. o Upgrade to Energy-Efficient A/C Units: Consider replacing older, less efficient A/C units with energy-efficient models. This not only reduces energy consumption but also contributes to long-term cost savings.

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The bulk-fuel storage and distribution facilities will be operated by Tristar Terminals Guam, a joint venture owned by Agility Defense & Government Services and Tristar Transport. The purchase includes 25 bulk-fuel storage tanks with a combined capacity of approximately four million barrels, five miles of pipeline, and receipt-and-issue facilities.

Fossil fuel prices are volatile in Guam, and the solar facility helps provide stable-priced clean energy. Guam passed a renewable portfolio standard in 2019, requiring the nation to achieve 50% renewable energy supply by 2035 and 100% by 2045. ... asset owner focused on accelerating the energy transition through strategic investments in middle ...

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