



# Unified energy system Guam

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 &#167; 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.

Does Guam have electricity?

Guam is well on its way to achieving a renewable, reliable, and secure electric power system.

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).

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 generating units does Guam Power Authority have?

Guam Power Authority's generating assets are composed of 12 primary generating units for a combined 487.7 MW total generation capacity (Benavente 2023).

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.

Guam 100 Initiative GPA Clean Energy Master Plan, UN SDGs, and Justice40. The Guam Power Authority's Clean Energy Master Plan (CEMP) is a comprehensive plan for transitioning Guam from legacy fossil fuel fired generation to renewable energy and non-greenhouse gas emissions electric energy supply.

In 2015, Guam's first commercial solar PV facility--the 26-megawatt Dandan solar farm with more than 120,000 solar panels--began operating. 56 The facility can generate enough electricity to serve an estimated 10,000 homes. 57 The 60-megawatt Mangilao solar farm came online in 2022, and the planned 41-megawatt Malojloj solar farm is scheduled ...

Power System Status Update - Cabras #2 and Yigo CT Online - December 13, 2024 4:51 PM. December 13,



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2024 4:51 PM - (Fadian, Guam) - The Guam Power Authority (GPA) is providing its customers with the following updates to the generation an...

The goal of Guam100 is to inform the transformation of Guam's power system to equitable, resilient, and affordable 100% renewable energy while enhancing the reliability of the current grid. Guam100 takes an energy-justice-centered approach to its work that will engage local stakeholders to drive research teams and NREL analysis.

**HOW WE'RE TRACKING PROGRESS:** Transitioning Guam's energy from imported fossil fuels to renewable sources, supporting Guam residents to integrate household energy efficiency, and updating Guam's Strategic Energy Plan and Action Plan to map a path towards 100% renewable energy by 2045.

Guam100 is a comprehensive approach to enabling the transition to 100% renewable energy that considers future load growth, equity, and affordability as well as enhancing the reliability of Guam's electric grid. Goals

The study, also known as the "Guam 100," will not only set a clear path to achieving 50% electricity 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 ...

141,000,000 kWh contracted from KMS each year will produce energy for 14,000 residential customers for an entire year. The solar farm is another important step toward reducing Guam's reliance on imported oil, estimated at 300,000 barrels in the first year. For several years now, GPA has implemented the Energy Sense Rebate

o For the Guam community, the concerns include high costs of electricity, power factor issues, and frequent rotating outages . o Guam's exposure and vulnerability to extreme tropical storms is a regular threat. Damage from Typhoon Mawar in 2023 has reduced available power capacity and delayed construction of a 198MW base load power plant.

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