



# Storing energy Guam

Why does Guam need fossil fuels?

Due to geographic isolation and lack of local energy supply, Guam depends on imported fossil fuels to meet all its energy needs. Liquid fuel supply chains are vulnerable to physical, political, and cybersecurity threats as well as market conditions, which can result in supply uncertainty, price volatility, and high energy costs.

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.

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.

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.

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.

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 ...

With funding from the U.S. Department of the Interior's Office of Insular Affairs (OIA), the National Renewable Energy Laboratory (NREL) is leading Guam100, providing ...



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Introducing Solar + Battery Storage! Generation Renewable - Guam and Sunnova are now offering Solar Energy Systems with Battery Storage Systems. This means that your back up ...

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. The Clean Energy Master Plan is a living document and is continuously being updated.

The Guam Power Authority unveiled its system for storing energy generated by solar panels, which officials said will help balance energy demand with production.

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 ...

Guam100 is a comprehensive approach to providing analysis to support 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.

The Guam Power Authority has unveiled its system for storing energy generated by solar panels, which officials said will help balance energy demand with production. The battery energy storage system includes a 24-megawatt Hagåtña substation and a 16-megawatt Talofofo substation.

Solar PV + energy-shifting battery energy storage systems with grid forming capability to provide power after natural disasters such as typhoons especially in southern Guam. Grid Controller - Optimizes all resources to provide the most benefit at the least cost. Improves system stability and system economics. Solar Irradiance Sensor Network ...

With funding from the U.S. Department of the Interior's Office of Insular Affairs (OIA), the National Renewable Energy Laboratory (NREL) is leading Guam100, providing decision support to inform investments to help the implementers of Guam's energy transition in their efforts to reach 50% electricity (based on sales) from renewable energy by ...

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.



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Introducing Solar + Battery Storage! Generation Renewable - Guam and Sunnova are now offering Solar Energy Systems with Battery Storage Systems. This means that your back up panel board in your home will have power even when utility power isn't available, like during power outages or during and after a storm.

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