



# Guam koly energy

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.

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 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.

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.

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.

What are the five major energy policies in Guam?

These include wholistic energy strategies; grid-tied and distributed renewable energy, energy efficiency and conservation, transportation; climate change and resilience; and equity, workforce, and environmental justice ((Guam Legislature n.d.; United Nations n.d.), unless otherwise noted). This list does not include military related policies.

Increasing renewable energy. **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.

The Guam Energy Office (GEO) is a small line agency within the Executive Branch of the Government of Guam. The Agency is 100% feder-ally funded through the assistance of U.S. Department of Energy to



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implement grant programs focused on promoting energy efficiency and renewable energy to reduce energy consumption,

**Energy Snapshot Guam** This profile provides a snapshot of the energy landscape of Guam, an island territory of the United States located in the western Pacific Ocean. Guam's electricity rates for residential customers start at \$0.21 U.S. dollars (USD) per kilowatt-hour (kWh), above the average U.S. rate

**Targets Renewable Energy Energy Efficiency Transportation In Place Proposed** Prepared by the National Renewable Energy Laboratory (NREL), a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy; NREL is operated by the Alliance for Sustainable Energy, LLC.

In August 2024, a group of Guam energy stakeholders and government leaders gathered to take another step toward a future in which the U.S. territory transitions to 100% renewable energy by 2045. The stakes are high. Guam is primarily powered by expensive, imported fuel oil.

BOEM is in the early stage of coordinating planning efforts with the Government of Guam for potential offshore renewable energy leasing and development activities. The BOEM Guam Intergovernmental Renewable Energy Task Force will play an important role in ...

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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.

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.

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