

How is energy consumed in Guam?

In Guam, the consumption of energy is heavily influenced by its remote location. Almost all energy is reliant on imports of petroleum products for use in transport and electricity. Guam does not have any domestic production of conventional fuels such as oil, natural gas, or coal.

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.

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.

How does the US influence Guam's energy consumption?

The U.S. Navy and Air Force have significant land holdings and operations that impact both the economy and energy consumption of the island. As previously noted, the U.S. Navy alone is the island's largest energy consumer, representing 20% of electricity sales (The Bureau of Statistics and Plans Guam 2022).

How much energy is lost on Guam?

Transmission and distribution losses on Guam are estimated to be 4.9% according to the U.S. Department of Energy (2020). This is comparable to the United States as a whole (at 5%) (U.S. Energy Information Administration n.d.-b).

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.

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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 for electricity. One third of electricity produced is used in commercial settings including the leading industry of touri...

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