

Hawai'i Fuel Imports Dashboard

2020

Year

(2016 through 2025 Q3)

Product Group

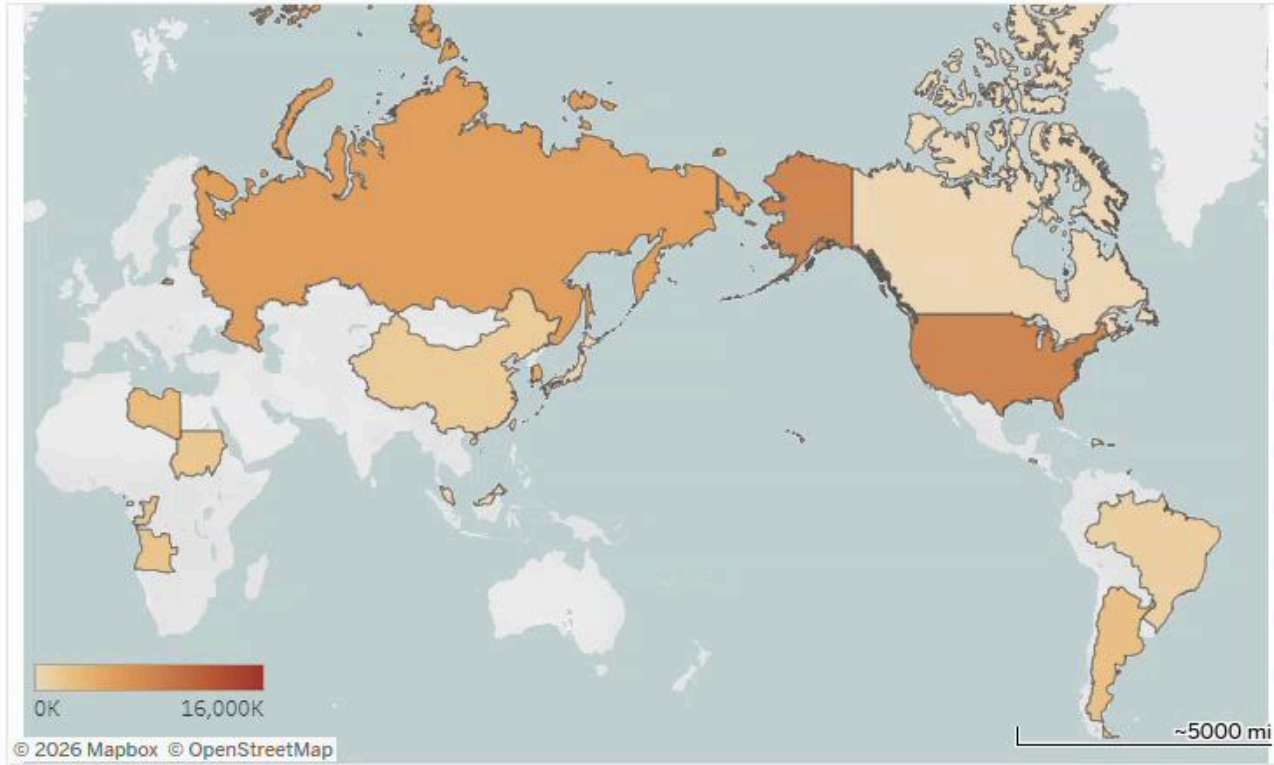
All Fuels

Product(s)

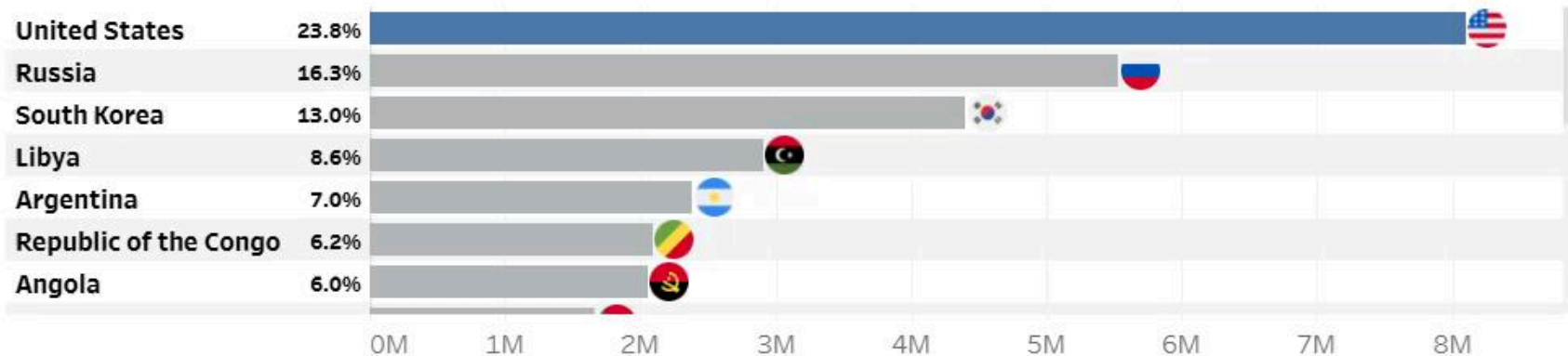
(All)

Source: Vortexa
Flag Icon Credit: Flaticon
Last Updated: October 1, 2025

United States
Other

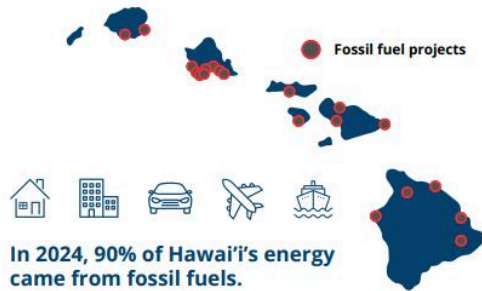


Imports by Country - Barrels (volume)



**HAWAI'I
STATE
ENERGY
OFFICE**

Where Hawai'i's Energy Comes From



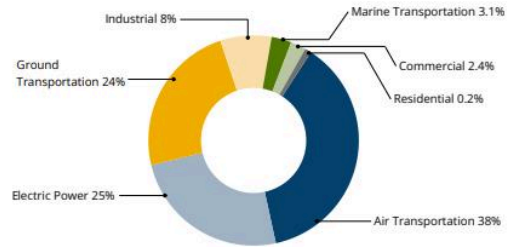
In 2024, 90% of Hawai'i's energy came from fossil fuels.

Hawai'i needs energy to power our homes, businesses, and transportation. Today, **most of that energy comes from petroleum**, or oil, a fossil fuel burned to generate electricity and fuel vehicles.

Transportation accounts for the majority of Hawai'i's petroleum use. The chart below shows how we use petroleum by sector across the state.

To achieve Hawai'i's goal of transitioning to 100% renewable energy for electricity by 2045 across the state, energy from renewable technologies will have to replace energy currently generated by petroleum.

Total (Billion BTU): 268,299



From 2023-2024, Hawai'i received 18.5% of the crude exports leaving the Tobruk Port in Libya.



How Does the Electric Grid Work?

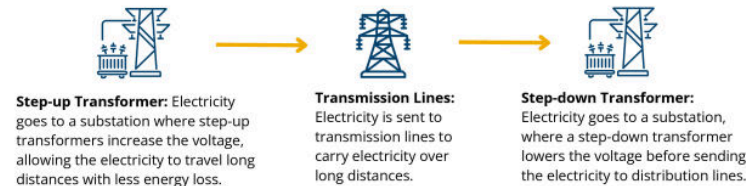
Electricity powers our homes, businesses, and public services, but how does it get there? Understanding how the electric grid works is an important part of understanding Hawai'i's energy system.

Step 1: Generation



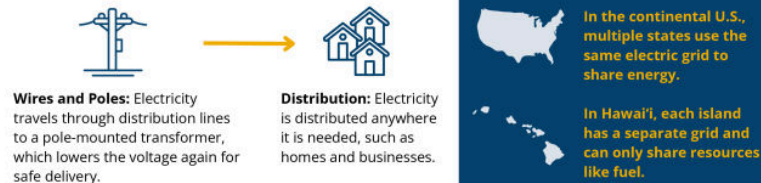
Step 2: Transmission

Once electricity is generated, it has to get from the generator to the outlet or light bulb.



Voltage is the amount of "pressure" behind electricity, like water pressure.

Step 3: Distribution



What's the Difference Between Firm & Intermittent Energy?



Every energy resource and technology works differently. Some energy resources can be used to make electricity any time we need it – "firm energy" – while other energy resources only work when conditions are right – "intermittent energy."

Hawai'i is working toward a goal of using 100% renewable energy. To get there, we need to make sure each island's power grid is safe and reliable, and that electricity is always available when people need it.

Firm Energy

Resources that can generate energy 24/7 and deliver on-demand power to the grid.

We need firm energy to maintain a minimum power supply to each island.

- Fossil Fuels
- Geothermal
- Biomass & Biofuel
- Waste-to-Energy
- Pumped Storage Hydropower
- Nuclear

Currently, most of Hawai'i's firm power comes from fossil fuels, which will need to be replaced by both firm and intermittent dispatchable resources.



Intermittent Energy

Resources that only generate energy under certain conditions. The amount of energy generated depends on factors we can't control, like weather or time of day.

Intermittent energy is sometimes called variable energy.

- Solar
- Wind
- Ocean
- Run-of-River Hydropower

Some electricity from intermittent energy resources can be stored in batteries and used on demand, making it "dispatchable."

Scan to learn more about Battery Energy Storage Systems



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