ENERGY FOUNDATIONS

ELECTRICITY DEMAND

Hawaiian Electric

How is Hawaiian Electric preparing?

There's no single solution. Hawaiian Electric uses a portfolio approach—combining clean energy, storage and customer programs—to meet rising demand while maintaining reliability.

Hawaiian Electric regularly studies how much energy demand is anticipated to grow, and how to best supply it to our customers.

Charting a smarter energy path

Every 3-5 years, Hawaiian Electric conducts an Integrated Grid Planning (IGP) process. This long-term planning effort forecasts future electricity needs and identifies the most cost-effective, reliable ways to meet demand while supporting Hawai'i's overall clean energy goals.

Hawaiian Electric's plan for meeting rising demand

More renewable energy

Even as demand increased, in 2025, **37**% of the electricity generated by Hawaiian Electric and independent power producers came from renewable energy sources across O'ahu, Hawai'i Island and Maui County.

Battery energy storage

Battery energy storage systems, or BESS, store excess renewable energy and deliver it when demand is highest.

Rooftop and community solar

More than 120,000 rooftop solar systems, serving about 45% of single family homes across the five islands Hawaiian Electric serves, help meet electricity demand locally and ease strain on the grid.

Energy efficiency

Residents can access rebates for a variety of energy-saving upgrades, including solar water heating, high efficiency appliances and improved cooling systems.

ENERGY FOUNDATIONS

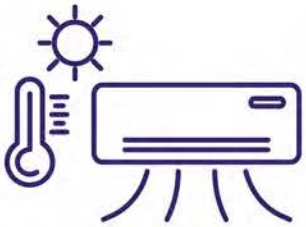
ELECTRICITY DEMAND

Hawaiian Electric

We're using more electricity and energy demand is expected to grow each year

Electricity use across Hawai'i is growing. This rise in demand is fueled in part by electrification and is reshaping the energy landscape. Hawaiian Electric must deliver more power, invest in grid infrastructure and plan ahead to provide safe, reliable and resilient service for communities across the islands.

What's driving the demand?



Rising temperatures

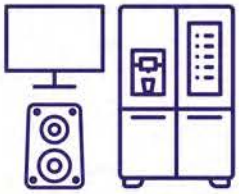
Use of air conditioning over natural cooling

Electric vehicle (EV) adoption

Public transit, commercial fleets and personal vehicle charging

Commercial consumption

Increasing commercial and economic activity



Everyday device use

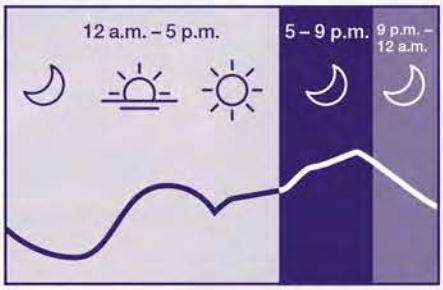
Charging electronics and running applicances

DID YOU KNOW?

Energy demand is surging

Hawaiian Electric saw a 2.5% year-over-year increase in electricity use in 2025 – the fastest growth rate in more than 20 years.

Demand throughout the day



Electricity use changes throughout the day, peaking in the evening between 5 and 9 p.m.

Want to save money on your electric bill?
Scan QR code to learn more

More on back