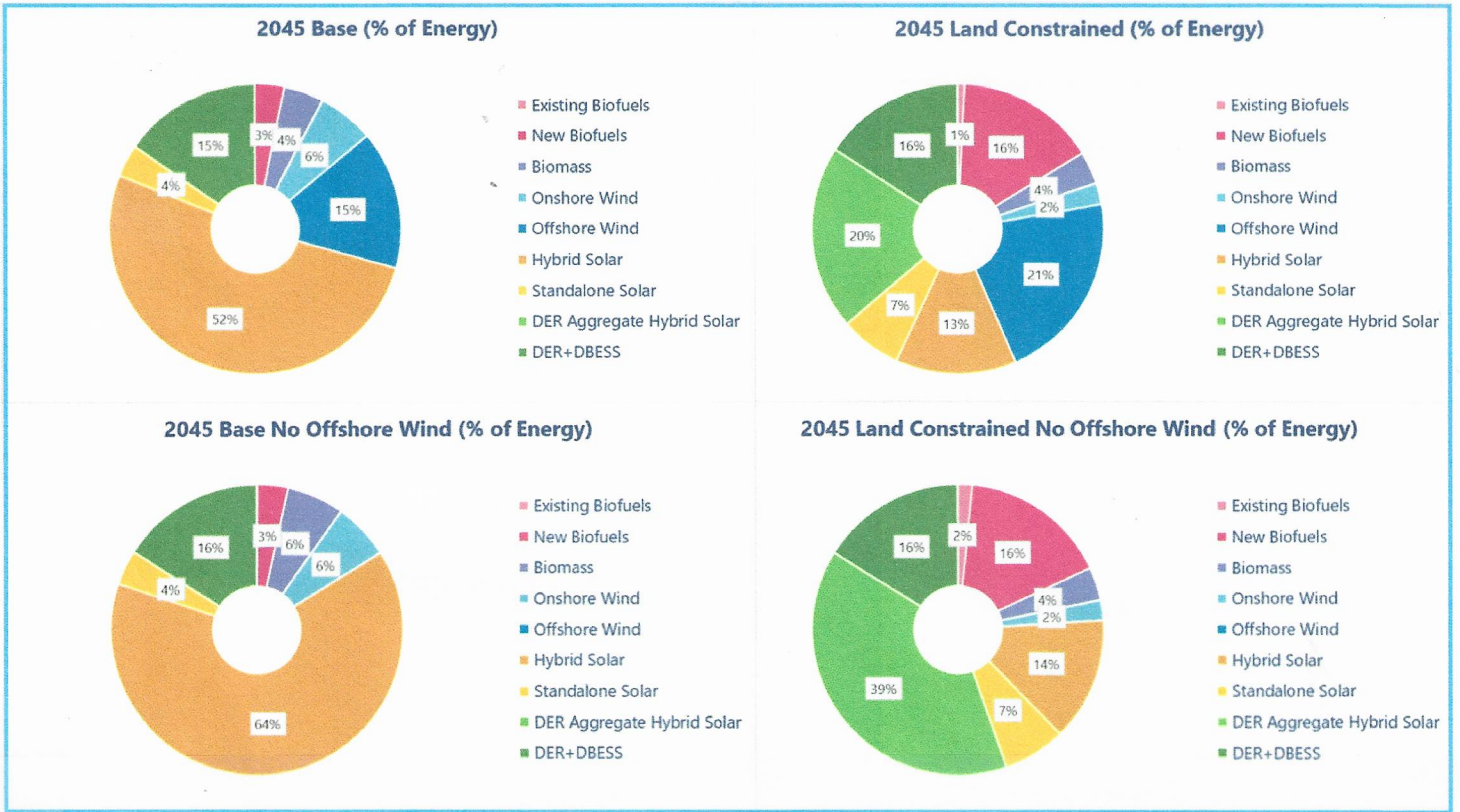


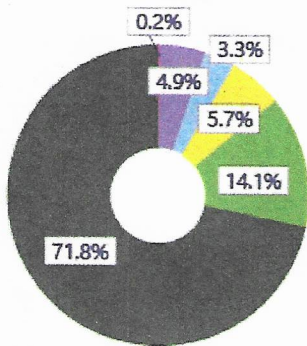
Hawaiian Electric Integrated Grid Plan, 2023

Projected 2045 Oahu Generation Mix

Base, Land-Constrained, and No Offshore Wind Scenarios



2022 Actual



Definitions

- Existing Biofuels: Existing thermal generating units converted to burn biodiesel
- New Biofuels: New thermal generating units on biodiesel
- Biomass: Biomass crops or municipal solid waste. On O’ahu, this includes the waste-to-energy plant, H-Power.
- Onshore Wind: Wind turbines installed on land
- Offshore Wind: Floating wind turbines installed in the ocean
- Hybrid Solar: Utility-scale solar paired with a battery
- Standalone Solar: Utility-scale solar
- DER Aggregate Hybrid Solar: Customer solar paired with a 2-hour battery that can be dispatched similar to Hybrid Solar
- DER+DBESS: Forecasted adoption of customer solar and customer batteries operated to match the customer’s energy consumption patterns

Source: Hawaiian Electric; Data from Sections 2.2.1 and 8.2.1.2, final Integrated Grid Plan, May 2023