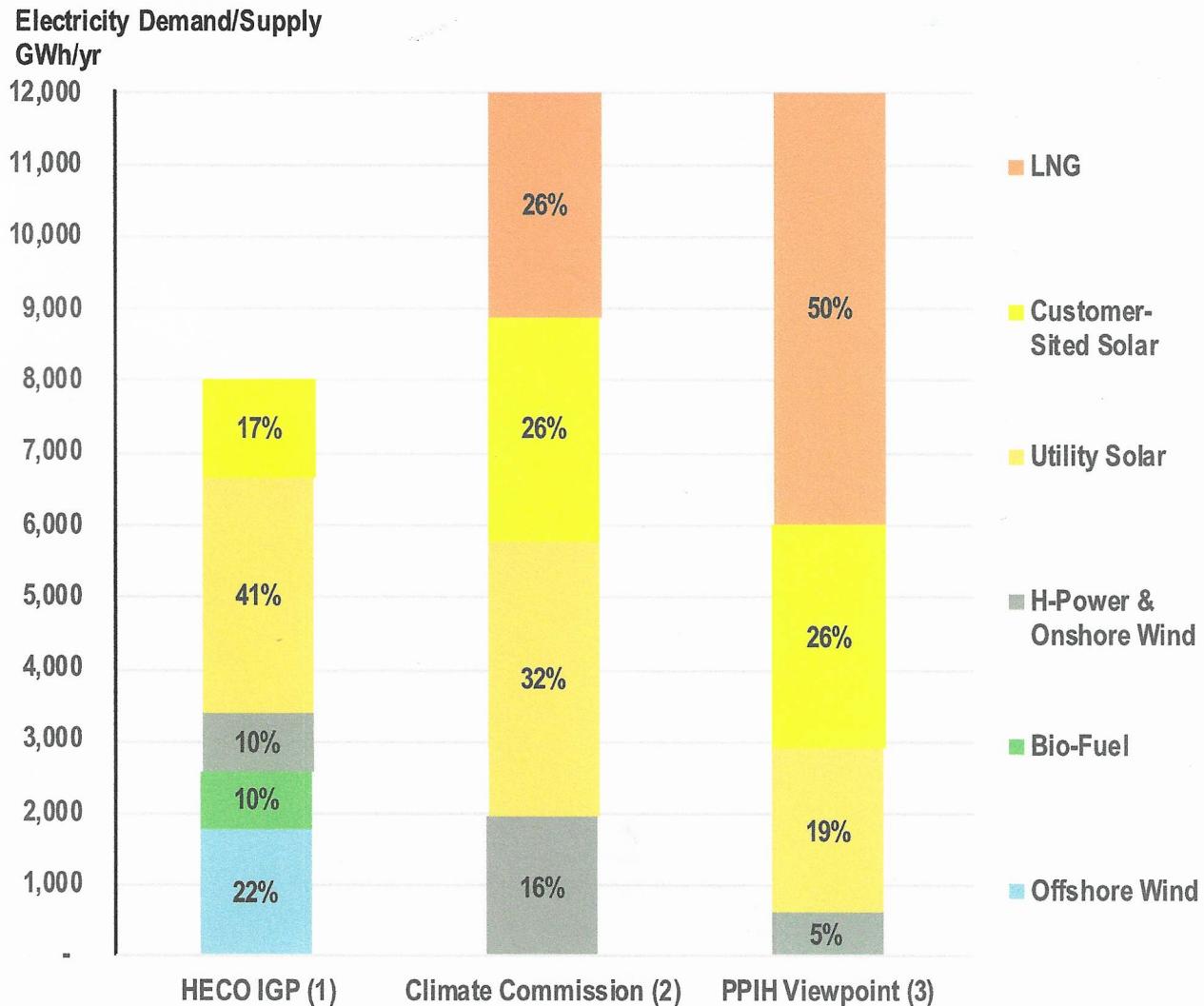


Oahu 2045 Electrical Energy Sources: Three Viewpoints



1. Demand level and source-of-power percentages from Hawaiian Electric's Integrated Grid Plan (IGP) Preferred Plans and Next Steps, November, 2023.
2. Demand level and source-of-power percentages from the Hawaii Climate Change Mitigation and Adaptation Commission's "Hawaii Climate Action Pathways," August, 2025 Draft.
3. Viewpoint of the Practical Policy Institute of Hawaii (PPIH). Comments on the various power sources:
 - a. Onshore Wind: The PPIH view is that existing onshore wind projects on or near the North Shore will be at or after their useful lives and that community pushback will negate any new or replacement wind projects.
 - b. Utility Solar Farms: The PPIH view is that a plan for 3,882 megawatt hours (MWh) would necessitate imprudent land use, requiring more than 13,000 acres of land and be in conflict with other land-use priorities.
 - c. Customer-sited Solar: No change from the Commission's projection, with the caveat that 3,088 MWh of customer-generated power is highly aspirational (127% more than the IGP projection) and will necessitate as much as one-third of the projected generation from retail, industrial, and military customers.
 - d. LNG: The aggregate of the Commission's 26% projection plus incremental reductions in onshore wind and utility solar farm projections as discussed above.