



May 31, 2024

The Honorable Chair and Members of the  
Hawaii Public Utilities Commission  
465 South King Street  
Kekuanaoa Building, Room 103K  
Honolulu, HI 96813

Re: Docket No. 2007-0008 – In the Matter of Public Utilities  
Commission Instituting a Proceeding to Examine Hawaii's  
Renewable Portfolio Standards Law, Hawaii Revised Statutes  
("HRS") §§ 269-91 – 269-95, as Amended by Act 162, Session  
Laws of Hawaii 2006: Kauai Island Utility Cooperative's ("KIUC's")  
2022 Annual Renewable Portfolio Standards ("RPS") Status Report

Dear Commissioners and Commission Staff:

Please find enclosed KIUC's Annual RPS Status Report for the year ending  
December 31, 2023 ("2023 RPS Report").

As shown in the attached 2023 RPS Report, renewable energy resources and  
energy savings supplied 57.9% of KIUC's net electricity generation during the 2023  
calendar year. This exceeds the requirement of 30% by 2020 and 40% by 2030, to be  
achieved by each electric utility as established by HRS § 269-92(a), as amended.

The attached 2023 RPS Report also includes a breakdown of the renewable  
energy resources on Kauai comprising the 57.9% RPS for 2023, 2022 and the 2021  
RPS pre-HB2089 and post-HB2089, which amended the definition of "renewable  
portfolio standard" to mean a percentage of electrical energy generation, rather than  
sales, excluding customer-sited fossil fuel generation. Also included in said report is a  
discussion of KIUC's commitment to continue to increase the growth of renewable  
energy and energy savings on Kauai.

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KIUC is an equal opportunity provider and employer.

The Honorable Chairman and Members of the  
Hawaii Public Utilities Commission  
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We thank you for your consideration of this matter. If you should have any questions concerning this report, please call me at (808) 246-8289.

Very truly yours,

A handwritten signature in blue ink that reads "Brad W. Rockwell". The signature is written in a cursive style.

Brad W. Rockwell, P.E.  
Chief of Operations

Enclosure

cc: Kent Morihara  
Consumer Advocate  
Mr. Joseph Viola  
Mr. Dean Matsuura  
Peter Kikuta., Esq.  
Craig I. Nakanishi, Esq.  
Mr. David Bissell  
Mr. Henry Q. Curtis

# **Kauai Island Utility Cooperative Renewable Portfolio Standards (RPS) Status Report Year Ending December 31, 2023**

Pursuant to Hawaii Revised Statutes § 269-92, the Renewable Portfolio Standard (“RPS”) requirement, as a percentage of net electricity *sales*, for year 2020 is 30%. The RPS requirement, as a percentage of net electricity *generation*, for year 2030 is 40%, for year 2040 is 70%, and for year 2045 is 100%.

Kauai Island Utility Cooperative (KIUC) achieved an RPS percentage of 57.9% of net electricity generation for calendar year 2023, which exceeds the requirements for both 2020 and 2030.

KIUC met the electrical energy needs of its customers with a combination of Company-owned fossil fueled generation, Company-owned renewable generation, and both non-firm and firm renewable power purchases.<sup>1</sup> In addition to this generated electricity, Photovoltaic (PV) systems and Demand Side Management (DSM) measures, including Solar Water Heating (SWH), also supplied some of KIUC consumers’ energy needs, while at the same time, displacing fossil-fuel generated power. As of January 1, 2015, these sources are no longer counted toward KIUC’s RPS.

Electrical energy generated using renewable energy as the source totaled 312,348 megawatt-hours (MWh) for 2023. Exhibit A, attached hereto, illustrates how KIUC met the energy needs of its approximately 35,000 accounts.

## **KIUC Future RPS Activities**

While KIUC has already exceeded the 2020 and 2030 RPS goals of 30% and 40%, respectively, the Company is committed to even further increasing the growth of renewable energy and energy savings. To accomplish this, KIUC is undertaking the following:

1. On December 30, 2020, KIUC signed a PPA with AES Clean Energy for the purchase of capacity and energy from a new solar, battery, pumped storage, and hydroelectric facility to be located on State land on the west side of Kauai. The Commission approved the PPA on December 1, 2021 but start of construction has been delayed due litigation. KIUC is in the process of evaluating what, if any, portion of the project remains viable.

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<sup>1</sup> KIUC has twelve power purchase contracts with Gay & Robinson (G&R) (hydro), Brue Bakol Capital Partners (hydro), Kekaha Agriculture Association (KAA) (hydro), Kapaa Solar (solar), Kaieie Waho Company (solar), MP2 Hawaii (solar), KRS2 Koloa (solar), KRS1 Anahola (solar), Dom Solar Lessor / Tesla (solar and storage), AES Lawai (solar and storage), AES Kekaka (solar and storage), and Mahipapa (biomass).

2. On November 30, 2022 KIUC signed a biodiesel fuel supply agreement with Pacific Biodiesel Technologies. The Commission approved the fuel supply agreement on an interim basis on March 24, 2023. This agreement is expected to increase KIUC's annual RPS, albeit very slightly (i.e. less than one percentage point) due to the limited nature of the agreement.
3. KIUC is currently conducting a Request for Proposals (RFP) process for additional renewable energy projects and is likely to select one or more projects, with the goal of moving toward execution of PPA(s) and filing Application(s) with the Commission around the end of 2024. Although early, these projects are expected to contribute approximately 15 – 25% toward KIUC's RPS once online for a full year of production.

<b>Electrical Energy Generated Using Renewable Energy Sources</b>	<b>2023</b>	<b>2022</b>	<b>2021 post-HB2089*</b>	<b>2021 pre-HB 2089*</b>
Biomass	42,126	51,555	48,479	46,019
Hydro	64,619	56,421	64,807	61,518
Photovoltaic (PV)	133,152	141,770	138,251	131,235
Customer-Sited, Grid-Connected PV	72,451	68,131	64,649	63,444
<b>Total Renewable Electrical Energy</b>	<b>312,348</b>	<b>317,877</b>	<b>316,186</b>	<b>302,217</b>
<b>Total Electrical Energy Generation (Sales for 2021 pre-HB 2089)</b>	<b>539,073</b>	<b>527,924</b>	<b>499,413</b>	<b>435,156</b>
<b>RPS Percentage</b>	<b>57.9%</b>	<b>60.2%</b>	<b>63.3%</b>	<b>69.5%</b>

\* H.B. 2089 of 2022 amended the RPS to be based on net electricity generation rather than sales. Prior to HB2089, net electricity generation was reduced by system losses in order to correlate to net electricity sales.

"Renewable portfolio standard" means the percentage of electrical energy generation that is represented by renewable electrical energy, excluding customer-sited, grid connected