



May 4, 2023

The Honorable Chair and Members of the  
Hawaii Public Utilities Commission  
465 South King Street  
Kekuanaoa Building, Room 103  
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, 2022 ("2022 RPS Report").

As shown in the attached 2022 RPS Report, renewable energy resources  
supplied 60.2% of KIUC's net electricity generation during the 2022 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 2022 RPS Report also includes a breakdown of the renewable  
energy resources on Kauai comprising the 60.2% RPS for 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 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, slightly slanted 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, 2022**

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 60.2% of net electricity generation for calendar year 2022, which exceeds the requirement of 30% by 2020 and 40% by 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 317,877 megawatt-hours (MWh) for 2022. 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 to pending litigation. This facility, given a full year of production, is expected to increase KIUC’s annual RPS by twenty

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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).

percentage points (i.e. to 80%), although this depends heavily on future electric sales growth.

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.

Kauai Island Utility Cooperative  
Renewable Portfolio Standard (RPS) Status Report  
Year Ending December 31, 2022

**EXHIBIT A**

<b>Electrical Energy Generated Using Renewable Energy Sources</b>	<b>2022</b>	<b>2021 post-HB2089*</b>	<b>2021 pre-HB 2089*</b>
Biomass	51,555	48,479	46,019
Hydro	56,421	64,807	61,518
Photovoltaic (PV)	141,770	138,251	131,235
Customer-Sited, Grid-Connected PV	68,131	64,649	63,444
<b>Total Renewable Electrical Energy</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>527,924</b>	<b>499,413</b>	<b>435,156</b>
<b>RPS Percentage</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 generation that does not produce renewable energy