



February 12, 2021

The Honorable Chair and Members of the  
Hawai'i Public Utilities Commission  
465 South King Street  
Kekuanao'a Building, First Floor  
Honolulu, Hawai'i 96813

Dear Commissioners:

Subject: Docket No. 2007-0008  
Renewable Portfolio Standards Law Examination

In accordance with Decision and Order No. 23912 and the Framework for Renewable Portfolio Standards, issued December 20, 2007, attached is the Renewable Portfolio Standard Status Report for the year ended December 31, 2020 for Hawaiian Electric.<sup>1</sup>

Sincerely,

/s/ Kevin M. Katsura

Kevin M. Katsura  
Director, Regulatory Non-Rate Proceedings

c: Division of Consumer Advocacy  
R.J Hee/T. Blume  
H. Curtis

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<sup>1</sup> "Hawaiian Electric" or "Company" refers to Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc., and Maui Electric Company, Limited. On December 20, 2019, the State of Hawai'i Department of Commerce and Consumer Affairs ("DCCA") approved Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited's application to do business under the trade name "Hawaiian Electric" for the period from December 20, 2019 to December 19, 2024. See Certificate of Registration No. 4235929, filed December 20, 2019 in the Business Registration Division of the DCCA.

# 2020 Renewable Portfolio Standard Status Report

## Hawaiian Electric For the Year Ended December 31, 2020

This report was prepared pursuant to the Framework for Renewable Portfolio Standards, which was adopted by the Hawai'i Public Utilities Commission ("Commission") in Docket No. 2007-0008.<sup>1</sup>

Pursuant to Hawai'i Revised Statutes § 269-92, the Renewable Portfolio Standard ("RPS") requirement, as a percentage of net electricity sales, for year 2020 is 30%, 2030 is 40%, 2040 is 70% and 2045 is 100%.<sup>2</sup>

Hawaiian Electric has achieved a consolidated RPS of 34.5% in 2020. In accordance with present RPS guidelines, this RPS does not include the electrical energy savings from energy efficiency and solar water heating technologies.<sup>3</sup> The 34.5% RPS was achieved in 2020 through the use of diverse renewable energy resources (biomass, geothermal, photovoltaic, hydro, wind, and biofuels) and customer-sited, grid-connected technologies (primarily photovoltaic systems).

Hawaiian Electric continues to increase its renewable energy portfolio. In calendar year 2020, new customer-sited energy resources and Feed-In Tariff installations totaled 65.6 MW. On O'ahu, one grid-scale project, the 24 MW Na Pua Makani wind project entered into operation on 12/11/2020. On Hawai'i Island, the Puna Geothermal Venture facility has returned to partial service.

Electrical energy generated using renewable energy resources, including customer-sited, grid-connected technologies, increased by 320,384 megawatt hours in 2020, a 12.9% increase compared to the previous year.

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<sup>1</sup> The Framework for Renewable Portfolio Standards was adopted by Decision and Order No. 23912, issued December 20, 2007, and revised by the Commission on December 19, 2008 (Order Relating to RPS Penalties).

<sup>2</sup> On June 8, 2015, Act 097 Relating to Renewable Standards was signed into law. Act 097 increased the 2020 RPS requirement to 30%, added a 2040 RPS requirement of 70%, and added a 2045 RPS requirement of 100%.

<sup>3</sup> On April 25, 2011, Act 010 Relating to Renewable Portfolio Standards was signed into law. Act 010 provided that, as of January 1, 2015, electrical energy savings from energy efficiency and solar water heating technologies do not count towards calculating RPS. It also amended the definition of "renewable electrical energy" to include, beginning January 1, 2015, customer-sited, grid-connected renewable energy generation.

# 2020 Renewable Portfolio Standard Status Report

## Hawaiian Electric For the Year Ended December 31, 2020 (In Net Megawatt Hours)

	2020				2019
	O'ahu	Hawai'i	Maui County	TOTAL	TOTAL
<b>Electrical Energy Generated Using Renewable Energy Sources</b>					
Biomass (including municipal solid waste) <sup>1</sup>	369,239			<b>369,239</b>	<b>414,357</b>
Geothermal <sup>1</sup>		9,640		<b>9,640</b>	<b>0</b>
Photovoltaic and Solar Thermal <sup>1</sup>	380,379	3,945	14,052	<b>398,376</b>	<b>218,058</b>
Hydro <sup>1</sup>		28,594		<b>28,594</b>	<b>35,414</b>
Wind <sup>1</sup>	191,320	152,483	250,766	<b>594,569</b>	<b>527,887</b>
Biofuels	28,280	45,285	941	<b>74,507</b>	<b>59,996</b>
Customer-Sited, Grid-Connected <sup>2</sup>	919,235	185,123	221,392	<b>1,325,750</b>	<b>1,224,579</b>
<b>TOTAL</b>	<b>1,888,453</b>	<b>425,070</b>	<b>487,152</b>	<b>2,800,674</b>	<b>2,480,290</b>
<b>TOTAL SALES</b>	<b>6,183,093</b>	<b>978,428</b>	<b>958,689</b>	<b>8,120,210</b>	<b>8,739,984</b>
<b>RPS PERCENTAGE</b>	<b>30.5%</b>	<b>43.4%</b>	<b>50.8%</b>	<b>34.5%</b>	<b>28.4%</b>

<sup>1</sup> Renewable electrical energy generation is based on recorded data from Feed-In Tariff contracts, Independent Power Producers that have Power Purchase Agreements with Hawaiian Electric, and Hawaiian Electric-owned grid-scale projects such as West Loch PV.

<sup>2</sup> Renewable electrical energy generation from customer-sited, grid-connected technologies is based on known system installations for 2020 including Net Energy Metering ("NEM") installations and non-NEM systems. Recorded generation data was used when available. For systems where recorded data was not available, estimates were made based on reasonable performance assumptions for typical systems.

## Chun, Marisa

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**From:** puc@hawaii.gov  
**Sent:** Friday, February 12, 2021 4:20 PM  
**To:** Chun, Marisa  
**Subject:** Hawaii PUC eFiling Confirmation of Filing

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