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Vice President  
Regulatory Affairs

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The Honorable Chairman and Members  
of the Hawai'i Public Utilities Commission  
Kekuanaoa Building, 1st Floor  
465 South King Street  
Honolulu, Hawai'i 96813

PUBLIC UTILITIES  
COMMISSION

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, 2017 for Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc. and Maui Electric Company, Limited.

Sincerely,

Attachment

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

# 2017 Renewable Portfolio Standard Status Report

**Hawaiian Electric Company, Inc.  
Hawai'i Electric Light Company, Inc.  
Maui Electric Company, Limited**

**For the Year Ended December 31, 2017**

This report is submitted pursuant to the Framework for Renewable Portfolio Standards adopted by the Hawaii Public Utilities Commission ("Commission") in Docket No. 2007-0008.<sup>1</sup>

Hawaiian Electric Company and its subsidiaries, Hawai'i Electric Light Company and Maui Electric Company (collectively, the "Hawaiian Electric Companies"), have achieved a consolidated Renewable Portfolio Standard ("RPS") of 26.8% in 2017. In accordance with present RPS guidelines, this RPS calculation does not include the electrical energy savings from energy efficiency and solar water heating technologies.<sup>2</sup> The 26.8% RPS was achieved in 2017 through the use of diverse renewable energy resources (biomass, geothermal, photovoltaic, hydro, wind, and biofuels) and customer-sited, grid-connected technologies (primarily photovoltaic systems).

On June 8, 2015, Act 097 Relating to Renewable Standards was signed into law. Act 097 increased the 2020 RPS target to 30%, maintained the 2030 RPS target at 40%, added a 2040 RPS target of 70%, and added a 2045 RPS target of 100%.

The Hawaiian Electric Companies continued to increase their renewable energy portfolio. In calendar year 2017, new Net Energy Metering installations totaled 31.6 MW, new Standard Interconnection Agreement installations totaled 32.7 MW, new Customer Grid Supply installations totaled 12.3 MW, new Customer Self Supply installations totaled 2.3 MW, and new Feed-In Tariff installations totaled 6.2 MW. The 27.6 MW Waianae Solar project on O'ahu also began its first year of commercial operation in 2017. Electrical energy generated using renewable energy resources, including customer-sited, grid-connected technologies, increased by 45,072 megawatt hours in 2017, a 2.0% increase compared to the previous year.

The Hawaiian Electric Companies submitted their updated Power Supply Improvement Plan ("PSIP") on December 23, 2016 in Docket No. 2014-0183. That PSIP outlines a plan with specific near-term actions to achieve Hawai'i's 100 percent

<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 April 25, 2011, Act 010 (Session Laws of Hawai'i 2011) 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.



RPS by 2045. The Hawaiian Electric Companies look forward to working together with all stakeholders to help Hawai'i achieve this important objective.

**2017 Renewable Portfolio Standard Status Report**  
**Hawaiian Electric Company, Inc. ("Hawaiian Electric")**  
**Hawai'i Electric Light Company, Inc. ("Hawai'i Electric Light")**  
**Maui Electric Company, Limited ("Maui Electric")**

**For the Year Ended December 31, 2017**  
*(In Net Megawatt Hours)*

	2017				2016
	Hawaiian Electric	Hawai'i Electric Light	Maui Electric	TOTAL	TOTAL
<b>Electrical Energy Generated Using Renewable Energy Sources</b>					
Biomass (including municipal solid waste) <sup>1</sup>	381,138			381,138	423,118
Geothermal <sup>1</sup>		322,609		322,609	260,116
Photovoltaic and Solar Thermal <sup>1</sup>	128,939	4,224	9,705	142,868	66,872
Hydro <sup>1</sup>		29,635	650	30,284	55,076
Wind <sup>1</sup>	191,560	109,626	231,688	532,875	656,678
Biofuels	55,023		959	55,982	38,475
Customer-Sited, Grid-Connected <sup>2</sup>	605,502	126,157	130,978	862,638	782,785
<b>TOTAL</b>	<b>1,362,163</b>	<b>592,251</b>	<b>373,979</b>	<b>2,328,394</b>	<b>2,283,120</b>
<b>TOTAL SALES</b>	<b>6,548,697</b>	<b>1,046,950</b>	<b>1,094,786</b>	<b>8,690,433</b>	<b>8,845,336</b>
<b>RPS PERCENTAGE</b>					
(Not Counting Energy Efficiency and Solar Water Heating)	20.8%	56.6%	34.2%	26.8%	25.8%

<sup>1</sup> Renewable electrical energy generation is based on recorded data from Feed-In Tariff contracts and Independent Power Producers with Power Purchase Agreements with the Hawaiian Electric Companies.

<sup>2</sup> Renewable electrical energy generated by customer-sited, grid-connected technologies is based on known system installations for 2017 including Net Energy Metering ("NEM") installations, non-NEM systems, and Sun Power for Schools installations. 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 photovoltaic systems.