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Vice President
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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, 2014 for Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc. and Maui Electric Company, Limited.

Very truly yours,

Attachment

c: Division of Consumer Advocacy
R.J Hee/T. Blume
H. Curtis
W.S. Bollmeier II

2014 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, 2014

This report was prepared pursuant to the Framework for Renewable Portfolio Standards, which was adopted by the Hawaii Public Utilities Commission ("Commission") in Docket No. 2007-0008.¹

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 38.6% in 2014, including the electrical energy savings from energy efficiency and solar water heating technologies. This is an increase from the 34.4% achieved in 2013 and is primarily the result of the increased energy from renewable energy sources (biomass, geothermal, photovoltaic, hydro, wind, and biofuels), additional energy from customer-sited grid-connected technologies (primarily photovoltaic systems), and additional energy efficiency demand-side management ("DSM") implemented in 2014 (including increased installations of solar water heating systems).

New DSM program participants in 2014 contributed approximately 132,795 megawatt-hours of additional electrical energy savings.² Also, approximately 1,261,608 megawatt-hours of electrical energy savings in 2014 came from participants in the Hawaiian Electric Companies' and Public Benefits Fee Administrator's ("PBFA's") energy efficiency DSM programs from previous years that continue to save electricity. DSM continues to achieve significant energy conservation benefits.

The current RPS law, which became effective on July 1, 2009, will not allow the electrical energy savings from energy efficiency and solar water heating technologies to count towards the RPS from January 1, 2015 (the 2015 RPS target is 15%, the 2020 RPS target is 25% and the 2030 RPS target is 40%). Excluding electrical energy savings from energy efficiency and solar water heating technologies, the 2014 renewable generation percentage for the Hawaiian Electric Companies is 21.3%. This renewable generation figure approximates how the RPS will be calculated in 2015 when the RPS calculation will be based only on renewable energy generation and customer-sited, grid-connected renewable energy.³

¹ 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).

² Energy efficiency program impacts claimed in 2014 are based on the combination of the Hawaiian Electric Companies' records for customers who participated in the Hawaiian Electric Companies' programs prior to July 1, 2009 and impact estimates provided by Hawaii Energy as the Public Benefits Fee Administrator and administrator of the Hawaii Energy Conservation and Efficiency Program following July 1, 2009. Hawaii Energy provided data for customer level energy efficiency impacts by program category reported during calendar year 2014. This data was used to calculate electrical energy savings for new 2014 participants in the energy conservation and efficiency program.

³ On April 25, 2011, Act 010 (Session Laws of Hawai'i 2011) Relating to Renewable Portfolio Standards was signed into law. Act 010 amended the definition of "renewable electrical energy" to include, beginning January 1, 2015, customer-sited, grid-connected renewable energy generation (currently represented on the attached 2014 RPS Summary Report as "Customer-Sited, Grid-



The Hawaiian Electric Companies continued to position themselves to increase their renewable energy portfolio. In calendar year 2014, new Net Energy Metering installations totaled 72.3 MW, new Standard Interconnection Agreement installations totaled 15.5 MW, and new Feed-In Tariff installations totaled 1.3 MW for the Hawaiian Electric Companies. The total amount of electrical energy generated using renewable energy sources increased by 94,037 megawatt-hours in 2014, a 7.2% increase compared to the previous year.

Integrating additional amounts of renewable generation must be undertaken in a way that benefits Hawai'i's economy and all electric customers, helps maintain affordability of electric rates, and ensures the safety and reliability of service to customers. The Hawaiian Electric Companies filed Power Supply Improvement Plans ("PSIPs") on August 26, 2014⁴ outlining their plans to achieve an unprecedented consolidated RPS of over 65% by 2030. The PSIPs define a vision for transforming the electric system to meet customer needs, implement the State of Hawai'i's energy policy goals, and secure a clean and affordable energy future. The Hawaiian Electric Companies look forward to working together with all stakeholders to help Hawai'i achieve these important objectives.

Connected" under Renewable Displacement Technologies). The RPS value of 21.3% represents the electrical energy generated from Renewable Energy Sources and Customer-Sited, Grid-Connected renewable energy as a percentage of Total Sales.

⁴ On August 26, 2014, PSIPs were filed for Hawaiian Electric, Hawai'i Electric Light, and Maui Electric in Docket Nos. 2011-0206, 2012-0212, and 2011-0092, respectively. On September 12, 2014, the Commission transferred the three PSIPs to Docket No. 2014-0183 by Order Nos. 32291, 32290, and 32289. The Commission initiated Docket No. 2014-0183 to review the PSIPs by Order No. 32257, issued August 7, 2014.



2014 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, 2014
(In Net Megawatt Hours)

	2014			2013	
	Hawaiian Electric	Hawai'i Electric Light	Maui Electric	TOTAL	TOTAL
Electrical Energy Generated Using Renewable Energy Sources					
Biomass (including municipal solid waste)	390,011		43,153	433,164	415,691
Geothermal		255,027		255,027	281,417
Photovoltaic and Solar Thermal ¹	37,363	1,568	5,324	44,255	33,924
Hydro ¹		43,005	8,150	51,155	40,155
Wind ¹	183,864	136,096	257,907	577,868	503,548
Biofuels	36,175		918	37,093	29,788
Subtotal	647,413	435,696	315,452	1,398,561	1,304,525
Electrical Energy Savings Using Renewable Displacement Technologies					
Customer-Sited, Grid-Connected ²	381,657	67,444	65,899	514,999	343,926
Solar Water Heating ³					
Utility	86,719	15,317	24,216	126,251	144,449
PBFA ⁴	24,915	5,081	4,102	34,098	29,733
Subtotal	493,291	87,841	94,217	675,349	518,108
Electrical Energy Savings Using Energy Efficiency Technologies⁵					
Pre-2014 Participants					
Utility	604,619	42,076	80,387	727,082	762,617
PBFA	408,471	66,693	59,362	534,526	407,147
2014 Participants (PBFA)	104,027	14,301	14,467	132,795	127,799
Subtotal	1,117,117	123,070	154,216	1,394,403	1,297,564
TOTAL	2,257,821	646,607	563,885	3,468,313	3,120,196
TOTAL SALES	6,781,665	1,062,521	1,132,056	8,976,242	9,069,512
RPS PERCENTAGE	33.3%	60.9%	49.8%	38.6%	34.4%
RENEWABLE GENERATION RPS PERCENTAGE					
(Not Counting Energy Efficiency and Solar Water Heating)⁶					
Energy	1,029,070	503,140	381,351	1,913,561	1,648,451
Percentage	15.2%	47.4%	33.7%	21.3%	18.2%



¹ Renewable electrical energy generated is based on recorded data from FIT contracts and Independent Power Producers with PPAs.

² Savings from photovoltaic, wind, and hydro systems are based on known system installations for 2014 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.

³ Savings from solar water heating systems were based upon the number of rebates paid through the program and an estimated savings per system based on the periodic evaluation of the program. Utility Data is through June 2009, and PBFA Data is from July 2009 through December 2014.

⁴ Public Benefits Fee Administrator ("PBFA") in 2009 through 2014 is Hawaii Energy.

⁵ Savings from the energy efficiency technologies are based upon the annualized system energy savings for all participants in the utility's demand-side management ("DSM") programs excluding solar water heating, which is listed under the Renewable Displacement Technologies. Utility Data is through June 2009, and PBFA Data is from July 2009 through December 2014. The energy savings from the utility DSM programs were reported to the Public Utilities Commission ("Commission") and the Consumer Advocate and were verified by an independent consultant whose evaluation reports are also filed with the Commission and the Consumer Advocate. The energy savings from the PBFA (Public Benefits Fee Administrator) was based on data provided by Hawaii Energy.

⁶ Beginning January 1, 2015, electrical energy savings from Energy Efficiency and Solar Water Heating technologies will no longer count toward RPS standards.