

November 19, 2015

2015 NOV 19 P 4: 04

PUBLIC UTILITIES COMMISSION

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

Dear Commissioners:

Subject: Docket No. 2011-0206 Reliability Standards Working Group Monthly Report

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies¹ monthly report for October 2015 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of nondispatchable renewable resources.

In addition, an electronic copy of each report is also included with this filing. These files are voluminous, and therefore, the Company is providing a compact disc ("CD") containing the electronic files to both the Commission and the Consumer Advocate. Copies of the CD will be available to any Party to this proceeding. Interested Parties should email Marisa Chun at <u>marisa.chun@heco.com</u> to request a copy.

If you have any questions on this matter, please contact Marisa Chun at (808) 543-4723.

Sincerely,

Daniel G. Brown Manager Regulatory Non-Rate Proceedings

Enclosure

cc: Service List

¹ Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc., and Maui Electric Company, Limited are collectively referred to as the "Hawaiian Electric Companies" or "Companies".

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The Commission's Order No. 30371 (Docket No 2011-0206 – Relating To Various Matters in RSWG Process), filed May 4, 2012, ordered the following information for each island grid:

- (1) System frequency control performance during month:
 - a) Frequency duration plot based on the highest resolution SCADA data available for the month detailing how many seconds each power system operated at frequencies above 60 hertz and at frequencies below 60 Hz.
 - b) Tabulation of the number, magnitude and duration of frequency excursions (high and low) outside normal frequency control range (59.95 to 60.05 Hz).

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending October 31, 2015):

1a) Frequency duration plot based on the highest resolution SCADA data available for the month detailing how many seconds each power system operated at frequencies above 60 hertz and at frequencies below 60 Hz:

The frequency duration plots for Hawaiian Electric, Maui Electric (Maui Division) and Hawai'i Electric Light based on two-second data are provided in Attachment 1, and the enclosed Excel files. Refer to the electronic files for the individual data points because the information is voluminous and does not translate well to a hard copy.

<u>1b)</u> <u>Tabulation of the number, magnitude and duration of frequency excursions (high and low) outside normal frequency control range (59.95 to 60.05 Hz):</u>

Tabulation of the number, magnitude and duration of frequency excursions outside of the frequency range of 59.95 Hz to 60.05 Hz for Hawaiian Electric, Maui Electric (Maui Division) and Hawai'i Electric Light are provided in Attachment 2, and the enclosed Excel files. Refer to the electronic files for the individual data points because the information is voluminous and does not translate well to a hard copy.

- (2) Significant system events during month:
 - a) Tabulation of contingency reserve activations including date and time, MW magnitude, duration, and triggering event.
 - b) Tabulation of under frequency load shed activations including date and time, triggering frequency, MW magnitude, duration, and triggering event.
 - c) Tabulation of demand response activations for system events, including date and time, MW magnitude, duration, and triggering event, (excluding demand response utilization for unit commitment deferral or system operations economics.)

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending October 31, 2015):

2a) Tabulation of contingency reserve activations including date and time, MW magnitude, duration, and triggering event:

Hawaiian Electric's contingency reserve activations are provided in Attachment 3. Maui Electric and Hawai'i Electric Light do not operate with contingency reserve requirements.

<u>2b)</u> <u>Tabulation of under frequency load shed activations including date and time,</u> triggering frequency, MW magnitude, duration, and triggering event:

Maui Electric's under frequency load shed events is provided in Attachment 4. Hawaiian Electric, and Hawai'i Electric Light did not have any under frequency load shed activations for the month of October.

<u>2c</u>) Tabulation of demand response activations for system events, including date and time, MW magnitude, duration, and triggering event, (excluding demand response utilization for unit commitment deferral or system operations economics.)

Hawaiian Electric's demand response activations for system events are provided in Attachment 5. Hawai'i Electric Light currently does not have demand response program. Maui Electric has implemented the Fast Demand Response pilot program on a limited basis. Hawai'i Electric Light plans to use the findings of Maui Electric's pilot program to help in the evaluation and development of future demand response programs. Maui Electric executes a weekly testing protocol which measures customer participation. This program is not currently used in response to actual system events.

- (3) Curtailment of non-dispatchable renewable resources:
 - (a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment.
 - (b) Total MWh of non-dispatchable renewable resources curtailed for the month.

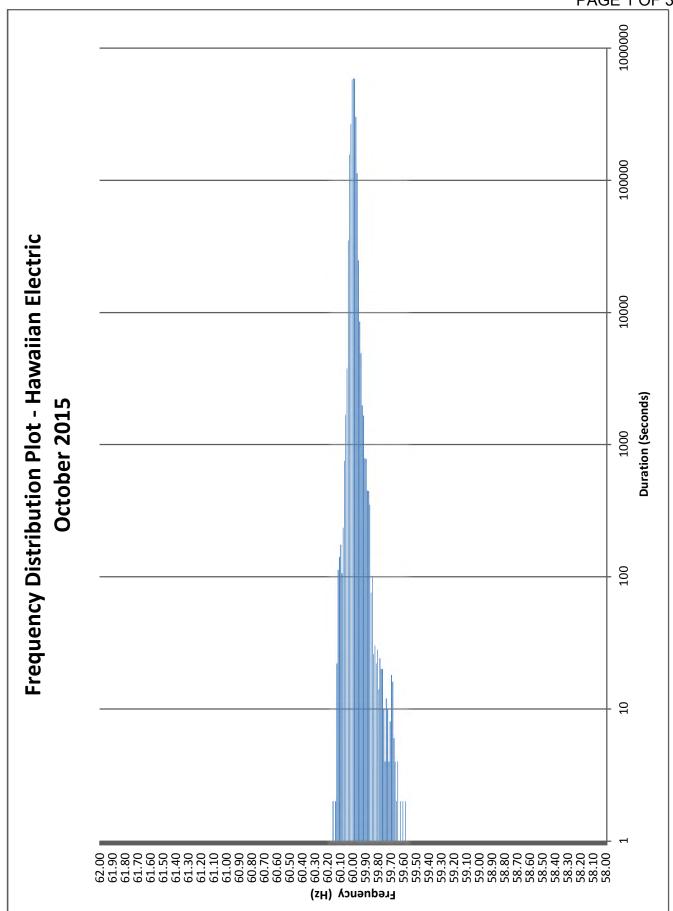
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending October 31, 2015):

3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

The tabulation of each curtailment event for each resource is provided in Attachment 6.

3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

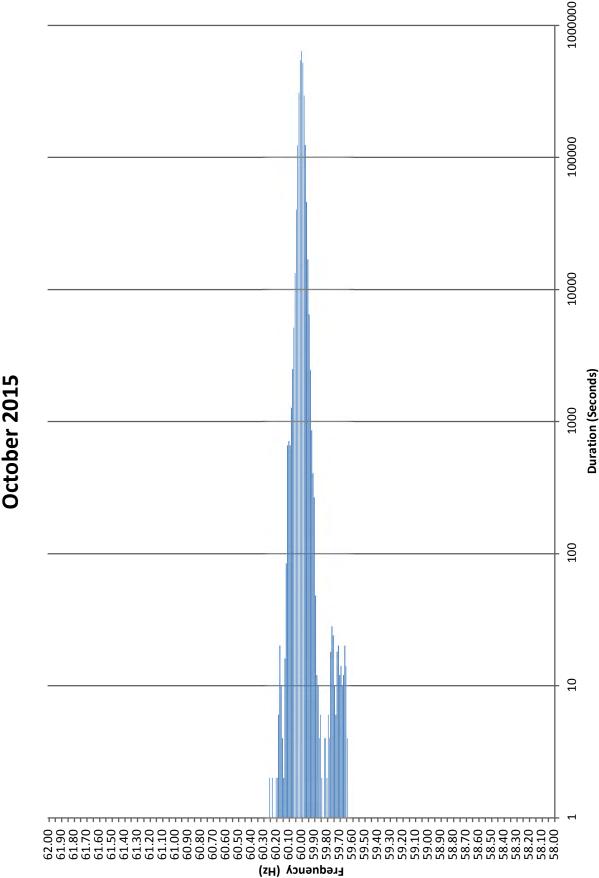
Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. The Hawaiian Electric Companies do not make any representations as to the accuracy of the curtailed MWH. The estimated MWH of non-dispatchable resources curtailed for the month are provided in Attachment 6, corresponding to each curtailment event.



DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) **ATTACHMENT 1**

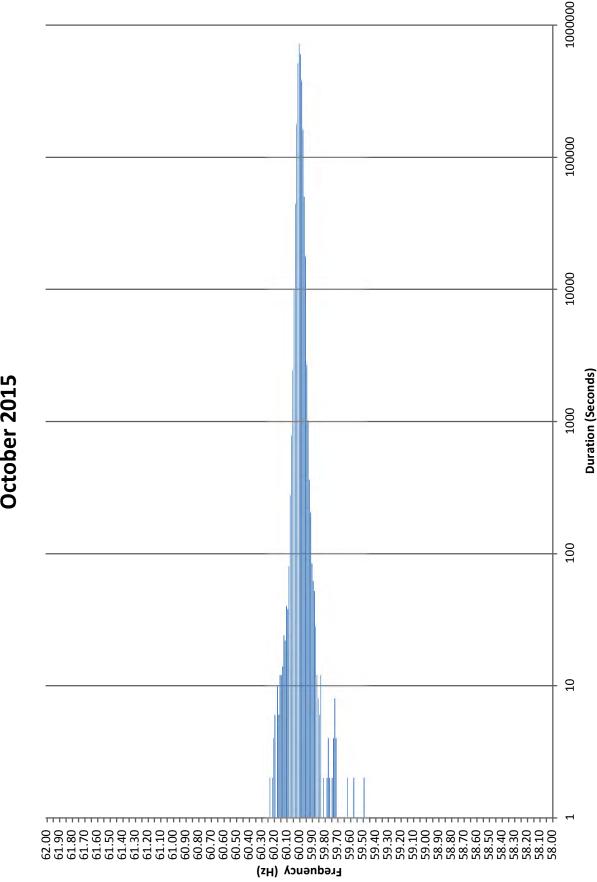
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Maui Electric Frequency Distribution Plot - Maui October 2015

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Frequency Distribution Plot - Hawai'i Electric Light October 2015

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Hawaiian Electric Frequency Excursion Statistics								
October 2015								
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz						
Number of Excursions	622	212						
Maximum Duration (sec)	1660	848						
Maximum Deviation (Hz)	59.593	60.164						
Total Duration of Excursions (sec)	14720	4226						

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Maui Electric Frequency Excursion Statistics October 2015							
	<59.95 Hz	>60.05 Hz					
Number of Excursions	3455	2399					
Maximum Duration (sec)	274	402					
Maximum Deviation (Hz)	59.6429	60.2493					
Total Duration of Excursions (sec)	17088	15724					

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Hawai'i Electric Light Frequency Excursion Statistics							
October 2015							
	<59.95 Hz	>60.05 Hz					
Number of Excursions	2277	480					
Maximum Duration (sec)	158	68					
Maximum Deviation (Hz)	59.491	60.228					
Total Duration of Excursions (sec)	12718	2178					

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HAWAIIAN ELECTRIC COMPANY, INC. CONTINGENCY RESERVE ACTIVATION EVENTS OCTOBER 2015

		F	requency (H	z)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
1	10/10/15 06:13	59.984	59.720	NA	-58.00	0:10	K1 tripped offline while generating ~39 MW. CIP called online for spinning reserve.
2	10/14/15 06:23	59.775	59.593	NA	-75.00	0:02	K5 tripped offline while generating ~32 MW. W10 and CIP called online for spinning reserve.

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MAUI ELECTRIC COMPANY, LIMITED UNDERFREQUENCY LOADSHEDDING EVENTS October 2015

						Octob	er 2015		
					Frequency (Hz	<u>.)</u>			
				Prior to		Levels UFLS	Load Shed	Duration	
Event #	IR #	Island	Date & Time	Event	Nadir	Occurred	(MW)	(HH:MM)	Description
			10/8/2015			58.65, 58.5,		1	A system frequency depression of 55.70 Hz occurred
1	910	Lānaʻi	8:37 AM	60.00	55.70	58, 57.5, 57	1.09	0:37	due to loss of Generator #7 at Miki Basin Power Plant.
			40/25/2015						
2	055	1 = (;	10/25/2015	50.00	50.54	50.65	0.10		A system frequency depression of 58.54 Hz occurred
2	955	Lāna'i	2:30 PM	59.99	58.54	58.65	0.10	0:04	while restoring power from a previous outage.

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HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS OCTOBER 2015

		Fr	requency (H	Iz)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Load Shed (MW)	Duration (HH:MM)	Description
1	10/14/15 06:24	59.775	59.593	59.70	NA	0.04	K5 tripped offline while generating ~89 MW. RDLC activated.

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Hawaiian Electric Curtailment Report October 2015

			nawanan	Licetific Curtai	ment Report O	2015	
		MW output		MW output after	Estimated MWh of curtailed		
	Curtailment	prior to start		curtailment	energy during		
Start Date/Time	Set Point	of curtailment	End Date/Time	released	event (1)	IPP	Reason for Curtailment
10/05/15 06:19	0.0	7.90	10/05/15 08:28	0	*	KWF	System Constraints
10/05/15 06:20	0.0	3.10	10/05/15 08:29	0	*	Makai	System Constraints
10/05/15 15:28	0.0	2.40	10/05/15 16:28	0	*	KWF	System Constraints
10/05/15 15:29	0.0	2.50	10/05/15 16:28	0	*	Makai	System Constraints
10/06/15 06:28	0.0	5.00	10/06/15 07:02	0	*	KWF	System Constraints
10/06/15 06:29	0.0	0.00	10/06/15 07:03	0	*	Makai	System Constraints
10/06/15 14:48	0.0	8.50	10/06/15 15:14	0	*	KWF	System Constraints
10/06/15 14:48	0.0	10.00	10/06/15 15:14	0	*	Makai	System Constraints
10/20/15 07:40	0.0	2.00	10/20/15 16:09	0	*	Mauka	System Constraints
10/20/15 07:40	0.0	12.00	10/20/15 09:18	0	*	Makai	System Constraints
10/20/15 07:40	0.0	18.00	10/20/15 09:18	0	*	KWF	System Constraints
10/20/15 14:40	0.0	13.00	10/20/15 16:10	0	*	KWF	System Constraints
10/20/15 14:40	0.0	6.00	10/20/15 16:09	0	*	Makai	System Constraints

KLS2 = Kalaeloa Solar 2 PV Farm

KREP = Kalaeloa Renewable Energy Park

KWF = Kahuku Wind Farm

Makai = Kawailoa Makai Wind Farm

Mauka = Kawailoa Mauka Wind Farm

(1) The estimated MWh of energy curtailed during the event is supplied by Kahuku Wind Farm and/or Kawailoa Wind Farm, and HECO does not make

any representations as to its accuracy.

* Data has not been provided by IPP.

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Maul Electric				Maui Curtailmen	t Report October 2015 PAGE 2 OF
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
10/1/2015 0:00 10/1/2015 0:04	0:30	KWPII AWE	9.716 0.155		Oversupply Oversupply
10/1/2015 0:20	0:05	AWE	0.096	13.003	Oversupply
10/1/2015 0:32 10/1/2015 0:37	3:38	AWE	72.625		Oversupply Oversupply
10/1/2015 0:40	0:12	AWE	0.469	17.280	Oversupply
10/1/2015 1:10 10/1/2015 1:32	0:20	AWE AWE	1.180		Oversupply Oversupply
10/1/2015 2:18	0:05	AWE	0.186	7.990	Oversupply
10/1/2015 2:28 10/1/2015 3:35	1:06	AWE AWE	4.688 0.137		Oversupply Oversupply
10/1/2015 3:44	0:08	AWE	0.251	6.960	Oversupply
10/1/2015 4:12 10/1/2015 4:17	0:18	KWPII AWE	5.829		Oversupply Oversupply
10/1/2015 4:32	1:08	KWPII	13.303	20.658	Oversupply
10/1/2015 5:59 10/1/2015 6:07	0:02		0.004		Oversupply and system constraint Oversupply and system constraint
10/1/2015 6:13	0:06	KWPII	0.140	20.299	Oversupply and system constraint
10/1/2015 6:17 10/1/2015 6:55	11:59	BS 250 KWPII	Data is not available 27.813	Data is not available 20.667	Oversupply, system constraint, and facility requested Oversupply and system constraint
10/1/2015 8:40	0:02	AWE	0.043	14.670	Oversupply and system constraint
10/1/2015 8:50 10/1/2015 8:54	0:01	AWE AWE	0.018		Oversupply and system constraint Oversupply and system constraint
10/1/2015 9:00	0:18	AWE	0.895	19.717	Oversupply and system constraint
10/1/2015 9:29 10/1/2015 11:03	1:33	KWPII KWPII	13.349 0.028		Oversupply and system constraint Oversupply and system constraint
10/1/2015 11:21	1:49	KWPII	26.259	20.641	Oversupply and system constraint
10/1/2015 12:30 10/1/2015 12:50	0:01	AWE AWE	0.007		Oversupply and system constraint
10/1/2015 12:59	0:02	AWE	0.018	16.003	Oversupply and system constraint Oversupply and system constraint
10/1/2015 13:12 10/1/2015 14:35	1:22	KWPII KWPII	18.020 1.787		Oversupply and system constraint Oversupply and system constraint
10/1/2015 14:35	0:25	KWPII	0.163	19.654	Oversupply and system constraint
10/1/2015 15:19	0:03	KWPII	0.027	20.304	Oversupply and system constraint
10/1/2015 16:38 10/1/2015 22:19	0:01	KWPII KWPII	0.001	20.512	Oversupply and system constraint Oversupply
10/1/2015 22:21	0:01	KWPII	0.001	20.513	Oversupply
10/1/2015 22:30 10/1/2015 22:33	0:01	KWPII KWPII	0.005		Oversupply Oversupply
10/1/2015 22:39	0:05	KWPII	0.052	19.752	Oversupply
10/1/2015 22:57 10/1/2015 23:03	0:01	KWPII KWPII	0.001		Oversupply Oversupply
10/1/2015 23:18	0:21	KWPII	1.554	19.950	Oversupply
10/1/2015 23:43 10/1/2015 23:46	0:01	KWPII KWPII	0.009		Oversupply Oversupply
10/1/2015 23:54	0:01	KWPII	0.002		Oversupply
10/2/2015 0:05 10/2/2015 0:32	0:24	KWPII KWPII	1.839 17.051		Oversupply Oversupply
10/2/2015 2:52	2:19	KWPII	0.840	18.770	Oversupply
10/2/2015 3:17	0:01	KWPII	0.014		Oversupply
10/2/2015 3:23 10/2/2015 3:31	0:07	KWPII KWPII	0.125		Oversupply Oversupply
10/2/2015 3:37	0:35	KWPII	2.373	19.421	Oversupply
10/2/2015 4:16 10/2/2015 5:28	0:22	KWPII KWPII	1.683	20.211	Oversupply Oversupply
10/2/2015 5:30	0:03	KWPII	0.063	18.200	Oversupply
10/2/2015 5:48 10/2/2015 6:17	0:02	KWPII BS 250	0.021 Data is not available	16.424 Data is not available	Oversupply Oversupply and facility requested
10/2/2015 8:51	0:03	KWPII	0.085	17.530	Oversupply
10/2/2015 8:58 10/2/2015 9:02	0:03	KWPII KWPII	0.084 7.891	16.904	Oversupply Oversupply
10/2/2015 9:54	0:01	5A	Data is not available	Data is not available	Oversupply
10/2/2015 9:54 10/2/2015 9:58	0:01	BS 5A	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/2/2015 9:58	0:02	BS	Data is not available	Data is not available	Oversupply
10/2/2015 9:58 10/2/2015 10:06	0:01	KWP KWPII	0.037 22.945		Oversupply Oversupply
10/2/2015 12:14	0:04	KWPII	0.192	18.818	Oversupply
10/2/2015 12:19 10/2/2015 12:29	0:01	KWPII KWPII	0.006	18.945 20.285	Oversupply Oversupply
10/2/2015 13:05	0:05	KWPII	0.141	19.050	Oversupply
10/2/2015 13:12 10/2/2015 13:19	0:06		0.231		Oversupply Oversupply
10/2/2015 13:40	0:06	KWPII	0.176	19.954	Oversupply
10/2/2015 13:48 10/2/2015 13:50	0:01	KWPII KWPII	0.013	18.502	Oversupply Oversupply
10/2/2015 13:50	0:04	KWPII	0.006	20.121	Oversupply
10/2/2015 14:04 10/2/2015 14:11	0:04	KWPII KWPII	0.025	20.510	Oversupply Oversupply
10/2/2015 14:11 10/2/2015 15:51	0:01	KWPII	0.005	20.473	Oversupply
10/2/2015 15:54	0:38	KWPII	2.348	20.687	Oversupply
10/2/2015 16:46 10/2/2015 22:30	0:01	KWPII KWPII	0.001		Oversupply Oversupply
10/2/2015 22:35	0:15	KWPII	0.800	18.912	Oversupply
10/2/2015 23:23 10/2/2015 23:26	0:01	KWPII KWPII	0.027	17.522	Oversupply Oversupply
10/2/2015 23:33	0:09	KWPII	0.415	18.262	Oversupply
10/3/2015 0:19 10/3/2015 0:26	0:01	KWPII KWPII	0.028		Oversuppiy Oversuppiy
10/3/2015 0:26	0:01	KWPII KWPII	0.017	18.374	Oversupply
10/3/2015 2:52	4:48	KWPII BS 250	41.863 Data is not available		Oversupply
10/3/2015 6:17 10/3/2015 7:41	8:54	BS 250 KWPII	Data is not available 0.009	20.625	Oversupply and facility requested Oversupply
10/3/2015 7:54	0:01	KWPII	0.002	20.619	Oversupply
10/3/2015 8:15	0:05	KWPII KWPII	0.072		Oversupply Oversupply
10/3/2015 8:26	0:01	KWPII	0.001	20.617	Oversupply
10/3/2015 8:31	2:19	KWPII KWPII	10.323	20.669	Oversuppiy Oversuppiy
10/3/2015 11:13	0:06	KWPII	0.185	20.315	Oversupply
10/3/2015 11:21	0:07	KWPII KWPII	0.124		Oversuppiy Oversuppiy
10/3/2015 11:29	0:01	AWE	0.000	0.003	Oversupply
10/3/2015 12:33	0:01	AVVE AVVE	0.000	0.003	Oversupply
10/3/2015 12:42 10/3/2015 13:04	0:01	AWE KWPII	0.000	0.007 20.653	Oversupply Oversupply
10/3/2015 13:15	0:01	KWPII	0.007	20.568	Oversupply
10/3/2015 13:17	0:04	KWPII KWPII	0.027		Oversupply Oversupply
10/3/2015 22:03					Oversupply
10/3/2015 22:44	0:01	KWPII	0.002	20.058	
10/3/2015 22:44 10/3/2015 22:46	0:01 0:11 0:02	KWPII KWPII	0.002 0.346 0.005	20.704	Oversupply
10/3/2015 22:44	0:11	KWPII	0.346	20.704 20.702	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 3 OF 12

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10/10/2015 12:22 0:07 KWPII 0.181 17.053 Uversuppy 10/10/2015 14:01 0:05 KWPII 0.113 16.361 Uversuppy 10/10/2015 14:08 0:03 KWPII 0.0144 15.93 Uversuppiy 10/10/2015 14:08 0:03 KWPII 0.0164 15.93 Uversuppiy 10/10/2015 23:44 0.76 AWE 1.161 20.953 Uversuppiy 10/10/2015 23:44 0.76 KWPII 2.999 15.344 Uversuppiy 10/10/2015 23:44 0.006 KWPII 0.320 12.623 Uversuppiy 10/11/2015 0:37 0:008 KWPII 0.320 12.623 Uversuppiy 10/11/2015 0:48 0:006 AWE 0.009 21.000 Uversuppiy 10/11/2015 0:48 0:001 AWE 0.006 20.620 Uversuppiy 1011/2015 Uversuppi 10/11/2015 0:07 0:001 AWE 0.000 0.006 Eversuppi 1001 10/11/2015 0:05 0:001 AWE 0.000 0.006 Eversuppi 1011/3/2015 6:17 0:57 BS 250 Uata is not available						19.757	Oversupply	ý
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10/10/2015 13:34 0:03 KWPI 0.064 15.593 Uversupply 10/10/2015 23:44 0:16 AWE 1.161 20.933 Uversupply 10/10/2015 23:44 0:21 KWPII 2.999 15.344 Uversupply 10/11/2015 0:07 0:06 KWPII 0.320 12.623 Uversupply 10/11/2015 0:07 0:06 KWPII 0.320 12.623 Uversupply 10/11/2015 0:07 0:06 KWPI 0.320 12.623 Uversupply 10/11/2015 0:07 0:03 AWE 0.016 21.000 Uversupply 10/11/2015 0:07 0:03 AWE 0.016 21.000 Uversupply 10/11/2015 0:07 0:03 AWE 0.000 20.620 Uversupply 10/11/2015 0:07 KWP 0.000 0.000 Uversupply 10/11/2015 4:28 0:01 AWE 0.000 0.000 Uversupply 10/13/2015 4:28 0:01 AWE 0.000 0.003 Uversupply 10/13/2015 4:28 0:01 AWE 0.000 0.003 Uversupply 10/13/2015 4:28 0:01		5 14:01 0		KWPII	0.113	16.361	Oversupply	у
10/10/2015 23:44 0.21 KWPII 2.999 15.344 Oversupply 10/11/2015 0.07 0.00 KWPII 0.320 12.63 Oversupply 10/11/2015 0.07 0.00 AWE 0.0059 21.000 Oversupply 10/11/2015 0.07 0.00 AWE 0.016 21.000 Oversupply 10/11/2015 1.01 0.00 AWE 0.016 21.020 Oversupply 10/11/2015 1.01 0.01 AWE 0.006 2.0.620 Oversupply 10/11/2015 5.06 0.01 KWP 0.000 0.006 Oversupply 10/13/2015 4:28 0.001 AWE 0.000 0.000 Oversupply 10/13/2015 6:17 0.57 B52 50 Data is not available Oversupply 0 10/13/2015 8:02 0.148 B52 50 Data is not available Oversupply						15.593	Oversupply	У
10/11/2015 007 008 KWPI 0.320 12 bc3 Oversuppy 10/11/2015 005 008 AWE 0.059 21.000 Oversuppy 10/11/2015 005 003 AWE 0.016 21.000 Oversuppy 10/11/2015 005 003 AWE 0.016 21.000 Oversuppy 10/11/2015 100 0.001 AWE 0.006 20.620 Oversuppy 10/11/2015 506 0.001 AWE 0.000 0.006 Oversuppy 10/11/2015 506 0.001 AWE 0.000 0.006 Oversuppy 10/11/2015 506 0.001 AWE 0.000 0.008 Oversuppy 10/13/2015 4:28 0.01 AWE 0.000 0.003 Oversuppy 10/13/2015 5:17 0.57 B5 250 Data is not available Oversuppiy 10/13/2015 8:02 0.74 B5 250 Data is not available Oversuppiy								
10/11/2015 0/37 0/00 AWE 0.0059 21.000 Oversuppiy 10/11/2015 0/37 0/00 AWE 0.016 21.000 Oversuppiy 10/11/2015 1/37 0/01 AWE 0.016 20.520 Oversuppiy 10/11/2015 1/37 0/01 AWE 0.006 20.520 Oversuppiy 10/11/2015 5/06 0/01 KWP 0.000 0.008 Oversuppiy 10/13/2015 6/32 0/01 AWE 0.000 0.000 Oversuppiy 10/13/2015 6/37 0/37 BS 250 Data is not available Oversuppiy 10/13/2015 6/37 0/37 BS 250 Data is not available Oversuppiy						15.344	Oversupply	у
10/11/2015 0:57 0:03 AWE 0.016 21.000 Oversupply 10/11/2015 1:01 0:01 AWE 0.006 20.620 Oversupply 10/11/2015 1:01 0:01 AWE 0.006 20.620 Oversupply 10/11/2015 5:05 0:001 KWP 0.000 0.006 Oversupply 10/13/2015 4:28 0:01 AWE 0.000 0.003 Oversupply 10/13/2015 6:17 0:57 BS 250 Data is not available Data is not available Oversupply 10/13/2015 18:02 0:41 BS 250 Data is not available Data is not available Oversupply						12.623	Oversupply	y
10/11/2015 1/01 0/01 AWE 0.006 20.620 Oversupply 10/11/2015 5/06 0/01 KWP 0.000 0.006 Oversupply 10/13/2015 4/28 0/01 AWE 0.000 0.006 Oversupply 10/13/2015 4/28 0/01 AWE 0.000 0.006 Oversupply 10/13/2015 6/7 0/57 BS 250 Data is not available Deta is not available Oversupply 10/13/2015 8/02 0.41 BS 250 Data is not available Deta is not available Oversupply								
10/11/2015 5:06 0:01 KWP 0:000 0:06 Oversupply 10/13/2015 6:17 0:07 AWE 0:000 0:000 Oversupply 10/13/2015 6:17 0:57 BS 250 Data is not available Data is not available Oversupply 10/13/2015 18:02 0:14 BS 250 Data is not available Data is not available Oversupply								
10/13/2015 4:28 0:01 AVE 0.000 0:003 Oversupply 10/13/2015 6:1/ 0:57 ES 250 Data is not available Data is not available Oversupply 10/13/2015 18:02 0:14 ES 250 Data is not available Data is not available Oversupply								
10/13/2015 6:17 0:57 BS 250 Data is not available Data is not available Oversupply 10/13/2015 18:02 0:14 BS 250 Data is not available Data is not available Oversupply								
10/13/2015 18:02 0:14 BS 250 Data is not available Data is not available Oversupply								
10/19/2010 0.10 4.42 INVETI 44.000 20.00 I OVEISUPPIY			4:42	KWPII	44.030		Oversupply	ý
10/14/2015 5:39 UO2 KWPII UU52 19:831 Oversuppy								
10/14/2015 6:17 0:51 BS 250 Data is not available Data is not available Oversupply								
10/14/2015 9:58 6:07 BS 250 Data is not available Data is not available Oversupply	/2015 9:58	15 9:58	6:07	BS 250	Data is not available	Data is not available	Oversupply	y ·
10/14/2015-10:42 0:01 KWPII 0.013 18.789 Oversupply						18.789	Oversupply	у
10/14/2015 12:43 0:01 KWPII 0.005 16.032 Oversupply								у
10/14/2015 22:25 0:01 KWPI 0:007 18:853 Oversupply								
10/14/2015.22:38 2:02 KWPI 13:349 19:349 Oversupply								
10/15/2015 0:42 0:06 KWPII 0.123 17.488 Oversupply	/2015 0:42	10 U:42	U:U6	KWPIT	0.123	17.488	oversupply	у

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Maul Electric

Maui Curtailment Report October 2015

Maul Electric					PAGE 4 OF
10/15/2015 1:13	Duration 0:04	IPP Curtailed KWPII	Estimated Curtailed MWH 0.143	Peak MW Curtailed 14.515	Reasons for Curtailment Oversupply
10/15/2015 1:21 10/15/2015 6:17	0:34 1:07	KWPII BS 250	2.175 Data is not available	16.800	Oversupply Oversupply
10/15/2015 22:47	0:01	KWPII	0.001	20.568	Oversupply
10/15/2015 23:07 10/16/2015 1:27	2:31 0:05	KWPII KWP	19.959		Oversupply Oversupply
10/16/2015 1:40 10/16/2015 1:42	1:40 0:04	KWPII KWP	24.080 0.168	19.332	Oversupply Oversupply
10/16/2015 1:48	0:01	KWP	0.053	23.319	Oversupply
10/16/2015 1:50 10/16/2015 2:00	0:08	KWP KWP	0.297		Oversupply Oversupply
10/16/2015 2:07	0:01	KWP	0.007	20.283	Oversupply
10/16/2015 2:14 10/16/2015 3:22	1:01 1:45	KWP KWPII	5.648	26.018 20.352	Oversupply Oversupply
10/16/2015 6:17	1:53	BS 250	Data is not available	Data is not available	Oversupply
10/16/2015 10:51 10/16/2015 11:00	0:02	KWPII KWPII	0.074		Oversupply Oversupply
10/16/2015 11:10	0:26 1:26	KWPII BS 250	2.595 Data is not available		Oversupply
10/16/2015 11:16 10/16/2015 11:44	0:04	KWPII	0.348	15.412	Oversupply Oversupply
10/16/2015 11:49 10/16/2015 12:15	0:02	KWPII KWPII	0.068	12.583	Oversupply Oversupply
10/16/2015 12:23	0:11	KWPII	1.217	18.049	Oversupply
10/16/2015 14:10 10/16/2015 14:11	0:58 0:34	BS 250 KWPII	Data is not available 0.950	Data is not available 20.097	Oversupply Oversupply
10/16/2015 14:46	0:01	KWPII KWPII	0.008 0.113	18.020	Oversupply Oversupply
10/16/2015 14:49 10/16/2015 14:53	0:03	KWPII	0.113	19.633	Oversupply Oversupply
10/16/2015 20:09 10/16/2015 22:33	0:06	KWPII KWPII	0.123 0.013	20.632	Oversupply Oversupply
10/16/2015 22:36	0:52	KWPII	5.784	20.688	Oversupply
10/17/2015 0:39 10/17/2015 0:47	0:01 0:01	KWPII KWPII	0.010		Oversupply Oversupply
10/17/2015 1:15	2:28	KWPII	29.449	18.463	Oversupply
10/17/2015 1:23 10/17/2015 1:31	0:03	AWE	0.066		Oversupply Oversupply
10/17/2015 2:14	0:10	AWE	0.368	15.690	Oversupply
10/17/2015 2:25 10/17/2015 2:34	0:07	AWE	0.336	16.513	Oversupply Oversupply
10/17/2015 2:37 10/17/2015 2:43	0:04 0:01	AWE	0.031	15.990	Oversupply Oversupply
10/17/2015 2:49	0:03	AWE	0.021	15.647	Oversupply
10/17/2015 2:59 10/17/2015 3:02	0:01	AWE	0.001		Oversupply Oversupply
10/17/2015 3:09	0:07	AWE	0.192	17.407	Oversupply
10/17/2015 3:19 10/17/2015 3:29	0:05	AWE	0.087		Oversupply Oversupply
10/17/2015 3:33	0:02	AWE	0.012	14.167	Oversupply
10/17/2015 3:36	0:01 0:16	AWE KWPII	0.006		Oversupply Oversupply
10/17/2015 4:06 10/17/2015 4:23	0:15 0:11	KWPII KWPII	0.979	10.190	Oversupply Oversupply
10/17/2015 4:37	0:03	KWPII	0.077	12.023	Oversupply
10/17/2015 4:42 10/17/2015 6:17	2:09 1:39	KWPII BS 250	19.664 Data is not available		Oversupply Oversupply
10/17/2015 6:52	0:01	KWPII	0.005	15.585	Oversupply
10/17/2015 17:18 10/17/2015 18:04	0:02 0:12	KWPII BS 250	0.034 Data is not available	17.164 Data is not available	Oversupply Oversupply
10/17/2015 20:30	0:05	KWPII	0.132	13.066	Oversupply
10/17/2015 20:40 10/17/2015 20:45	0:03	KWPII	0.021		Oversupply Oversupply
10/17/2015 20:59 10/17/2015 21:07	0:01	KWPII KWPII	0.017		Oversupply Oversupply
10/17/2015 21:31	0:03	KWPII	0.021	19.211	Oversupply
10/17/2015 21:38 10/17/2015 21:53	0:06	KWPII KWPII	0.048	19.198	Oversupply Oversupply
10/17/2015 22:01	0:34	KWPII	2.395	19.102	Oversupply
10/17/2015 22:41 10/17/2015 22:44	0:01 0:13	KWPII	0.011 0.525	18.199	Oversupply Oversupply
10/17/2015 23:42 10/17/2015 23:57	0:07	KWPII KWPII	0.266	10.340	Oversupply Oversupply
10/18/2015 0:40	1:29	KWPII	10.979	14.929	Oversupply
10/18/2015 1:14 10/18/2015 1:26	0:11 0:07	AWE	0.063 0.163		Oversupply Oversupply
10/18/2015 1:36	0:01	AWE	0.015	18.847	Oversupply
10/18/2015 1:43 10/18/2015 1:45	0:01 0:01	AWE	0.029	19.250	Oversupply Oversupply
10/18/2015 1:47 10/18/2015 1:52	0:01 0:01	AWE AWE	0.029	19.870	Oversupply Oversupply
10/18/2015 2:04	0:01	AWE	0.000	21.000	Oversupply
10/18/2015 2:12 10/18/2015 2:13	0:57	KWPII AWE	7.639		Oversupply Oversupply
10/18/2015 2:17	0:03	AWE	0.005	20.917	Oversupply
10/18/2015 2:30 10/18/2015 2:42	0:10 0:06	AWE	0.061 0.065		Oversupply Oversupply
10/18/2015 2:49	0:01	AWE	0.000	20.907	Oversupply
10/18/2015 2:53	0:13	AWE KWPII	0.175	6.660	Oversuppiy
10/18/2015 3:13	0:20	AWE	0.562	21.000	Oversuppiy Oversuppiy
10/18/2015 3:47	0:02	KWPII	0.046	3.357	Oversupply
10/18/2015 3:48 10/18/2015 3:52	0:01	AWE	0.001		Oversupply Oversupply
10/18/2015 4:37	0:01	AWE	0.001	21.000	Oversupply
10/18/2015 4:40	0:03	AWE	0.014	21.000	Oversuppiy
10/18/2015 4:48 10/18/2015 4:50	0:05 0:24	AWE KWPII	0.018	21.000	Oversuppy Oversuppy
10/18/2015 4:58	0:01	AWE	0.004	19.827	Oversupply
10/18/2015 5:07 10/18/2015 5:19	0:03	AWE	0.026		Oversuppiy Oversuppiy
10/18/2015 5:25	0:01	KWPII	0.020	11.982	Oversupply
10/18/2015 5:46	0:18 0:04	KWPII KWPII	0.649	9.167	Oversuppiy Oversuppiy
			Data is not available	Data is not available	Oversupply
10/18/2015 6:17	0:55	BS 250			Oversupply
10/18/2015 6:17 10/18/2015 6:26 10/18/2015 6:53		KWPII AWE	0.021	19.270	Oversuppiy
10/18/2015 6:26 10/18/2015 6:53 10/18/2015 6:54	0:55 0:03 0:01 0:05	KWPII AWE KWPII	0.021 0.008 0.002	19.270 0.117	Oversuppiy Oversuppiy
10/18/2015 6:26 10/18/2015 6:53	0:55 0:03 0:01	AWE	0.021	19.270 0.117	Oversuppiy
10/18/2015 6:26 10/18/2015 6:53 10/18/2015 6:54 10/18/2015 6:55 10/18/2015 7:46	0:55 0:03 0:05 0:05 0:21 0:07	KWPII AWE KWPII AWE BS 250 KWPII	0.021 0.008 0.002 0.277 Data is not available 0.259	19.270 0.117 20.823 Data is not available 8.747	Oversuppiy Oversuppiy Oversuppiy Oversuppiy Oversuppiy
10/18/2015 6:26 10/18/2015 6:53 10/18/2015 6:54 10/18/2015 6:55 10/18/2015 7:46	0:55 0:03 0:01 0:05 0:05 0:21	KWPII AWE KWPII AWE BS 250	0.021 0.008 0.002 0.277 Data is not available	19.270 0.117 20.823 Data is not available 8.747 7.906 5.396	Oversupply Oversupply Oversupply

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A . A	- A	Maui
W . W		Electric

Maui Curtailment Report October 2015

Electric					PAGE 5 O
Start Date and Time D	Duration	IPP Curtailed	Estimated Curtailed MWH		Reasons for Curtailment
10/18/2015 8:28 10/18/2015 8:40	0:02	AWE	0.006	21.000 20.980	Oversupply Oversupply
10/18/2015 9:06	0:01	KWPII	0.023	11.983	Oversupply
10/18/2015 15:03 10/18/2015 17:50	0:01 0:26	KWP BS 250	0.000 Data is not available	Data is not available	Oversupply Oversupply
10/18/2015 21:35	0:09	KWPII	0.349	20.360	Oversupply
10/18/2015 21:45 10/18/2015 22:00	0:14 0:04	KWPII KWPII	0.128	20.313 20.372	Oversupply Oversupply
10/18/2015 22:31	0:03	KWPII	0.014	20.490	Oversupply
10/18/2015 22:36 10/18/2015 22:59	0:17 0:01	KWPII	0.189		Oversupply Oversupply
10/18/2015 23:03	0:13	KWPII	0.256		Oversupply
10/18/2015 23:26 10/18/2015 23:49	0:19 3:11	KWPII KWPII	0.943 38.846	20.302	Oversupply Oversupply
10/19/2015 1:35	0:19	AWE	1.662	17.067	Oversupply
10/19/2015 1:55 10/19/2015 1:57	0:01 0:03	AWE	0.027		Oversupply Oversupply
10/19/2015 2:08	0:02	AWE AWE	0.051	15.033	Oversupply
10/19/2015 2:13 10/19/2015 2:15	0:01 0:13	AWE	0.001	16.243	Oversupply Oversupply
10/19/2015 2:29	0:13	AWE KWPII	0.764	14.353	Oversupply
10/19/2015 3:01 10/19/2015 3:07	1:48 0:01	AWE	32.113 0.010		Oversupply Oversupply
10/19/2015 3:10	0:27	AWE	1.337		Oversupply
10/19/2015 3:39 10/19/2015 3:42	0:02	AWE	0.056	8.033	Oversupply Oversupply
10/19/2015 3:45	0:01	AWE	0.008	7.470	Oversupply
10/19/2015 3:48 10/19/2015 4:02	0:13 0:04	AWE	0.403		Oversupply Oversupply
10/19/2015 4:14	0:05	AWE	0.192	11.367	Oversupply
10/19/2015 4:20 10/19/2015 4:35	0:14 0:05	AWE	0.466		Oversupply Oversupply
10/19/2015 4:41	0:01	AWE	0.026	13.553	Oversupply
10/19/2015 4:51 10/19/2015 6:17	1:04 2:32	KWPII BS 250	5.576 Data is not available		Oversupply Oversupply
10/19/2015 6:17	0:04	KWPII	0.132	17.733	Oversupply
10/19/2015 6:22 10/19/2015 6:25	2:23	KWPII	30.888	20.265	Oversupply Oversupply
10/19/2015 7:49 10/19/2015 8:20	0:02 0:03	AWE	0.049 0.065	16.570	Oversupply Oversupply
10/19/2015 8:25	0:03	AWE	0.065		Oversupply
10/19/2015 8:31	0:02	AWE KWPII	0.079		Oversupply
10/19/2015 10:21 10/19/2015 11:08	0:02	BS 250	Data is not available	Data is not available	Oversupply Facility requested
10/19/2015 11:34 10/19/2015 11:35	0:04 0:03	BS 250 KWPII	Data is not available 0.027		Facility requested Oversupply
10/19/2015 11:55	0:03	KWPII	0.027		Oversupply
10/19/2015 21:48	0:08 0:01	KWPII KWPII	0.167	19.739	Oversupply Oversupply
10/19/2015 22:01 10/19/2015 22:26	0:01	KWPII	6.303		Oversupply
10/19/2015 23:05 10/19/2015 23:13	0:03	AWE KWPII	0.126	18.937	Oversupply
10/20/2015 3:22	0:12 0:01	AWE	0.933		Oversupply Oversupply
10/20/2015 3:47 10/20/2015 4:00	0:12 0:04	AWE	0.238		Oversupply Oversupply
10/20/2015 4:03	0:01	KWPII	0.003	0.182	Oversupply
10/20/2015 4:05 10/20/2015 4:06	0:08 0:01	AWE KWPII	0.369	20.383	Oversupply
10/20/2015 4:06	0:01	AWE	0.000		Oversupply Oversupply
10/20/2015 4:16	0:08 0:06	AWE	0.427 0.256		Oversupply Oversupply
10/20/2015 4:28 10/20/2015 4:40	0:01	AWE	0.009	19.263	Oversupply
10/20/2015 4:44 10/20/2015 4:47	0:02 0:02	KWPII KWPII	0.042		Oversupply
10/20/2015 4:51	0:50	KWPII	7.753		Oversupply Oversupply
10/20/2015 4:57 10/20/2015 5:43	0:38 0:20	AWE KWPII	2.632 5.299		Oversupply Oversupply
10/20/2015 5:51	0:20	AWE	0.031		Oversupply
10/20/2015 6:05 10/20/2015 7:24	0:51 0:05	KWPII KWPII	5.130 0.027	20.544	Oversupply Oversupply
10/20/2015 7:32	0:05	KWPII	0.027	20.055	Oversupply
10/20/2015 8:23	0:12	KWPII	0.609		Oversupply Oversupply
10/20/2015 8:36 10/20/2015 8:46	0:03	KWPII	0.027	20.708	Oversupply
10/20/2015 8:50	0:02	KWPII	0.022		Oversupply
10/20/2015 8:56	4:11	KWPII	0.286 41.307	20.708	Oversuppiy Oversuppiy
10/20/2015 13:33 10/20/2015 14:23	0:49 0:11	KWPII KWPII	2.506	20.708	Oversupply Oversupply
10/20/2015 14:23	0:11	KWPII	0.417		Oversupply
10/20/2015 22:20 10/20/2015 22:43	0:22	KWPII	2.218	20.708	Oversupply Oversupply
10/21/2015 0:21	0:36	AWE	1.947	19.807	Oversupply
10/21/2015 1:00	0:15 0:01	AWE	0.606	15.487	Oversupply Oversupply
10/21/2015 1:31	0:02	AWE	0.023	11.997	Oversupply
10/21/2015 1:36 10/21/2015 1:43	0:01	AWE	0.008	8.283	Oversuppiy Oversuppiy
10/21/2015 1:51	0:12	AWE	0.342	6.877	Oversupply
10/21/2015 2:06	0:05	AWE	0.095		Oversuppiy Oversuppiy
10/21/2015 2:16 10/21/2015 2:23	0:05	AWE	0.055	4.737	Oversupply
10/21/2015 2:29 10/21/2015 2:35	0:04	AWE	0.044 8.092		Oversuppiy Oversuppiy
10/21/2015 3:38	1:02 0:05	AWE	0.174	6.800	Oversupply
10/21/2015 3:44 10/21/2015 3:48	0:02 0:01	AWE	0.023	5.727	Oversuppiy Oversuppiy
10/21/2015 3:48	0:56	AWE	5.796	16.660	Oversupply
10/21/2015 4:48	0:11	AWE	0.607	15.847	Oversupply
10/21/2015 5:00	0:11 1:12	AWE KWPII	0.336 9.126	20.539	Oversuppiy Oversuppiy
10/21/2015 6:38	0:03	KWPII	0.031	20.540	Oversupply
10/21/2015 6:42	0:04	KWPII	0.033		Oversuppiy Oversuppiy
10/21/2015 7:12	0:03	KWPII	0.029	19.261	Oversupply
10/21/2015 7:34	0:01	KWPII	0.014 4.403	18.214	Oversuppiy Oversuppiy
10/21/2015 9:14	0:01	KWPII	0.005	6.145	Oversupply
10/21/2015 9:16 10/21/2015 9:19	0:02	KWPII	0.029 0.023		Oversuppiy Oversuppiy
10/21/2015 9:21	0:03	KWPII	0.048	6.966	Oversupply
	0:02	KWPII	0.041		Oversupply
10/21/2015 9:26 10/21/2015 9:35	0:02	KWPII	0.056		Oversupply

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Reasons for Curtailmen

art Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	
10/21/2015 9:41 10/21/2015 9:47	0:02	KWPII KWPII	0.026 0.219	9.232	Oversupply Oversupply
10/21/2015 9:56	0:08	KWPII	0.022	9.770	Oversupply
10/21/2015 10:07 10/21/2015 10:10	0:02	KWPII KWPII	0.044		Oversupply Oversupply
10/21/2015 10:17	0:01	KWPII	0.005	9.456	Oversupply
10/21/2015 10:19 10/21/2015 11:19	0:02	KWPII KWPII	0.036		Oversupply Oversupply
10/21/2015 11:52	0:01	KWPII	0.030	10.283	Oversupply
10/21/2015 12:18 10/21/2015 12:38	0:19 0:11	KWPII KWPII	1.661 0.651	13.123	Oversupply Oversupply
10/21/2015 12:50	0:02	KWPII	0.048	9.427	Oversupply
10/21/2015 22:10 10/21/2015 22:35	5:37 0:02	KWPII AWE	83.411 0.031	20.677 17.907	
10/22/2015 0:10	0:01	AWE	0.020	11.290	Oversupply
10/22/2015 0:42 10/22/2015 1:32	0:49	AWE	3.681	19.587	Oversupply Oversupply
10/22/2015 1:44	1:17	AWE	5.784	15.960	Oversupply
10/22/2015 3:02 10/22/2015 3:13	0:02	AWE	0.049	7.123	Oversupply Oversupply
10/22/2015 3:18	0:04	AWE	0.151	8.910	Oversupply
10/22/2015 3:23 10/22/2015 3:28	0:04	AWE	0.091	8.700	Oversupply Oversupply
10/22/2015 3:37	0:01	AWE	0.007	7.003	Oversupply
10/22/2015 3:50 10/22/2015 4:22	1:24 0:01	AWE	10.214	18.789 0.013	Oversupply Oversupply
10/22/2015 7:39	0:01	KWPII	0.020	15.417	Oversupply
10/22/2015 8:03 10/22/2015 8:40	0:35 0:19	KWPII	2.462	17.587 17.842	Oversupply Oversupply
10/22/2015 9:00 10/22/2015 9:05	0:02 1:45	KWPII	0.039	16.764 20.028	Oversupply
10/22/2015 9:05	0:01	KWPII	0.011		Oversupply
10/22/2015 10:57	0:01	KWPII	0.024	9.990	
10/22/2015 12:23 10/22/2015 12:26	0:01 0:04	KWPII	0.024 0.151	14.674	Oversupply Oversupply
10/22/2015 12:34 10/22/2015 12:55	0:04	KWPII KWPII	0.121	15.822 18.680	Oversupply Oversupply
10/22/2015 13:01	0:26	KWPII	2.274	19.319	Oversupply
10/22/2015 13:33 10/22/2015 13:46	0:12 0:12	KWPII KWPII	0.496	18.030 19.587	Oversupply Oversupply
10/22/2015 14:07	0:02	KWPII	0.024	19.040	Oversupply
10/22/2015 14:10 10/22/2015 17:44	0:02	KWPII	0.038	18.966	Oversupply Oversupply
10/22/2015 17:54	0:01	KWPII	0.002	20.693	Oversupply
10/22/2015 22:01 10/22/2015 22:21	0:17 0:13	KWPII	0.164 0.149	20.528 20.287	
10/22/2015 22:35	0:33	KWPII	1.700	20.236	Oversupply
10/22/2015 23:09 10/23/2015 1:16	1:46 0:01	KWPII	8.427	20.362	Oversupply Oversupply
10/23/2015 1:18	0:05	KWPII	0.136	13.508	Oversupply
10/23/2015 1:43 10/23/2015 1:47	0:01	KWPII	0.019	9.850 8.867	Oversupply Oversupply
10/23/2015 2:09	0:03	KWPII	0.054	7.850	Oversupply
10/23/2015 2:19 10/23/2015 2:25	0:03	KWPII KWPII	0.050	10.518	Oversupply Oversupply
10/23/2015 2:41	0:08	KWPII KWPII	0.146		Oversupply
10/23/2015 2:52 10/23/2015 7:21	0:29 0:04	KWPII	0.121	15.577 15.203	
10/23/2015 11:08 10/23/2015 11:25	0:01	AWE	0.000	0.007	Oversupply Oversupply
10/23/2015 11:44	0:01	AWE	0.000	0.003	Oversupply
10/23/2015 23:24 10/24/2015 0:00	0:18 0:32	KWPII	0.317	20.708 20.708	Oversupply Oversupply
10/24/2015 1:15	0:01	KWPII	0.013	17.411	Oversupply
10/24/2015 1:30 10/24/2015 2:00	0:28	KWPII	1.308	19.135 17.246	Oversupply Oversupply
10/24/2015 2:03	0:02	KWPII	0.014	17.127	Oversupply
10/24/2015 2:35 10/24/2015 2:40	0:01	KWPII	0.009		Oversupply Oversupply
10/24/2015 2:46	0:01	KWPII	0.015	17.668	Oversupply
10/24/2015 12:06 10/25/2015 9:30	0:04	KWPII	0.109		Oversupply Oversupply
10/26/2015 22:11	0:03	KWPII	0.031	19.993	Oversupply
10/26/2015 22:59 10/26/2015 23:11	0:03	KWPII	0.033	18.799 19.860	Oversupply Oversupply
10/26/2015 23:14	0:01	KWPII	0.002	20.289	Oversupply
10/26/2015 23:25 10/26/2015 23:43	0:01	KWPII	0.001 4.217	20.671 20.682	Oversupply Oversupply
10/27/2015 0:39	0:01	KWPII	0.018		Oversupply
10/27/2015 1:06 10/27/2015 1:57	0:02	KWPII	0.004	18.063	Oversupply Oversupply
10/27/2015 2:01 10/27/2015 2:35	0:33	KWPII KWPII	1.296		Oversupply Oversupply
10/27/2015 2:35	0:01	KWPII	0.030		Oversupply
10/27/2015 3:10	0:46	KWPII	5.195	20.525	
10/27/2015 4:00	11:59	BS 250	Uata is not available	Data is not available	Oversupply
10/27/2015 9:43 10/27/2015 14:48	4:52 0:36	KWPII	56.343 1.998	20.708	Oversupply Oversupply
10/27/2015 15:47	0:02	KWPII	0.013	20.708	Oversupply
10/27/2015 15:54	0:14	KWPII	0.565	20.708	Oversupply Oversupply
10/27/2015 17:16	0:22	KWPII	0.859	20.708	Oversupply
10/27/2015 17:39	0:01	KWPII	0.001		Oversupply Oversupply
10/27/2015 17:51	0:01	KWPII	0.001	20.708	Oversupply
10/27/2015 17:53	0:05	KWPII	0.088		Oversupply Oversupply
10/27/2015 22:39	0:15	KWPII	0.595	20.708	Oversupply
10/27/2015 23:20 10/28/2015 0:36	1:52	AWE	26.376	20.708	Oversupply Oversupply
10/28/2015 0:41	0:27	AWE	2.093	19.837	Oversupply
10/28/2015 1:14	3:46	KWPII AWE	73.919	20.708	Oversupply Oversupply
10/28/2015 1:25	0:48	AWE	4.559	21.000	Oversupply
10/28/2015 4:37	0:06 0:04	AWE	0.248		Oversupply
10/28/2015 4:51	0:04	AWE	0.080		Oversupply Oversupply
10/28/2015 4:55	0:01	AWE	0.014	15.547	Oversupply
10/28/2015 5:02 10/28/2015 5:19	0:16	KWPII	0.196	20.690	Oversupply Oversupply
10/28/2015 7:20	0:01	KWPII	0.000	20.708	Oversupply Oversupply
10/28/2015 7:24					

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Start Date and Time											
Start Date and Time		Maui Curtailment Report October 2015 PAGE									
	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment						
10/28/2015 7:52	0:03	KWPII	0.017	20.701	Oversupply						
10/28/2015 8:01	1:32	KWPII	23.337	20.702	Oversupply						
10/28/2015 8:28	0:04	AWE	0.129	20.730	Oversupply						
10/28/2015 8:33	0:05	AWE	0.110	20.930	Oversupply						
10/28/2015 8:46	0:01	AWE	0.000	20.930	Oversupply						
10/28/2015 9:01	0:02	AWE	0.015	18.907	Oversupply						
10/28/2015 9:05	0:03	AWE	0.097	20.413	Oversupply						
10/28/2015 9:11	0:05	AWE	0.211	21.000	Oversupply						
10/28/2015 9:17	0:04	AWE	0.163	20.797	Oversupply						
10/28/2015 9:24	0:04	AWE	0.076	21.000	Oversupply						
10/28/2015 9:35	1:18	KWPII	23.262	20.694	Oversupply						
10/28/2015 9:40	6:09	BS 250	Data is not available	Data is not available	Oversupply and facility requested						
10/28/2015 10:24	0:18	AWE	0.427		Oversupply						
10/28/2015 10:43	0:05	AWE	0.043	21.000	Oversupply						
10/28/2015 10:55	2:18	KWPII	21.390		Oversupply						
10/28/2015 13:18	0:04	KWPII	0.122	20.267	Oversupply						
10/28/2015 13:23	0:06	KWPII	0.153	20.119	Oversupply						
10/28/2015 13:32	0:01	KWPII	0.001		Oversupply						
10/28/2015 13:38	0:08	KWPII	0.371	19.239	Oversupply						
10/28/2015 13:48	0:02	KWPII	0.011		Oversupply						
10/28/2015 13:54	0:07	KWPII	0.095	19.476	Oversupply						
10/28/2015 14:02	0:08	KWPII	0.236		Oversupply						
10/28/2015 14:19	0:04	KWPII	0.123		Oversupply						
10/28/2015 14:25	0:06	KWPII	0.165	18.752	Oversupply						
10/28/2015 14:39	0:03	KWPII	0.082	17.675	Oversupply						
10/28/2015 14:49	0:04	KWPII	0.089	18.314	Oversupply						
10/28/2015 14:55	0:06	KWPII	0.260		Oversupply						
10/28/2015 15:02	0:01	KWPII	0.009	17.959	Oversupply						
lotes:					-						
					Bioreal Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), Kaheawa Wind Power II ("KWPII") Bioreal Solar 250, LLC						
					operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable						
					ble variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down						
				ditionally, the AGC curtai	Iment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control will employ the						
			red values in the control logic.								
					KWPII. Maui Electric does not make any representation as to its accuracy.						
			ak MW Curtailed is not provided								
					no energy generation is possible during that time.						
The curtailment reasons have	ve been modif	ied to oversupply,	system constraints, and facilty re	equested, to provide cont	inuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.						

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		PP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/1/2015 6:19	0:15	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 7:03	0:12	LSR	Data is not available	Data is not available	Oversupply Oversupply
10/1/2015 7:18 10/1/2015 7:47	0:06	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/1/2015 8:07	0:01	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 8:09	0:26	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 8:36	0:29	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 9:17	0:04	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 9:41	0:04	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 10:34	0:02	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 10:39	0:02	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 10:46	0:43	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 11:30	0:01	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 11:33	0:27	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 12:02	1:33	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 13:41	0:27	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 14:16	0:23	LSR	Data is not available	Data is not available	Oversupply
10/1/2015 14:47 10/2/2015 7:17	2:40	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/2/2015 7:17	2:30	LSR	Data is not available	Data is not available	Oversupply
10/2/2015 10:52	0:57	LSR	Data is not available	Data is not available	Oversupply
10/2/2015 11:52	0:01	LSR	Data is not available	Data is not available	Oversupply
10/2/2015 11:57	0:09	LSR	Data is not available	Data is not available	Oversupply
10/2/2015 12:11	5:08	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 6:56	0:01	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 7:03	0:02	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 7:09	2:19	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 9:30	2:59	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 12:36	0:08	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 12:49	0:03	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 12:54	0:20	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 13:15	0:11	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 13:30	0:23	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 13:55	1:01	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 14:57	2:04	LSR	Data is not available	Data is not available	Oversupply
10/3/2015 17:09	0:13	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 6:56 10/4/2015 7:12	0:08	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/4/2015 7:30	0:08	LSR	Data is not available	Data is not available	Oversupply Oversupply
10/4/2015 8:43	0:02	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 8:49	1:03	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 9:54	0:06	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 10:01	0:01	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 10:03	0:45	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 10:49	0:01	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 10:53	0:09	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:07	0:01	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:16	0:02	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:23	0:02	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:28	0:03	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:39	0:02	LSR	Data is not available	Data is not available	Oversupply
10/4/2015 11:42	0:06	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 6:42 10/5/2015 6:59	0:16 0:19	LSR LSR	Data is not available	Data is not available Data is not available	Oversupply
10/5/2015 7:19	0:19	LSR	Data is not available Data is not available	Data is not available	Oversupply Oversupply
10/5/2015 7:39	0:30	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 8:10	0:50	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 9:04	0:02	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 9:14	0:38	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 9:58	0:51	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 10:52	1:31	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 12:25	0:03	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 12:32	0:01	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 12:34	0:29	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 13:04	0:57	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 14:03	1:17	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 15:22	0:25	LSR	Data is not available	Data is not available	Oversupply
10/5/2015 15:50	0:46	LSR	Data is not available	Data is not available Data is not available	Oversupply
10/5/2015 16:50 10/6/2015 6:49	0:01 0:44	LSR LSR	Data is not available Data is not available	Data is not available	Oversupply Oversupply
10/6/2015 7:35	1:57	LSR	Data is not available	Data is not available	Oversupply
10/6/2015 9:33	1:45	LSR	Data is not available	Data is not available	Oversupply
10/6/2015 11:19	6:18	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 7:04	0:03	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 7:17	0:02	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 7:32	0:10	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 7:44	1:26	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 9:12	1:09	LSR	Data is not available	Data is not available	Oversupply
	1:51	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 10:40			Date is set available	Data in pat available	Oversupply
	0:51	LSR	Data is not available	Data is not available	oversuppry
10/7/2015 10:40	0:51 4:11	LSR	Data is not available	Data is not available	Oversupply
10/7/2015 10:40 10/7/2015 12:32					

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Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/8/2015 7:40	0:03	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 7:50	0:10	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 8:06	0:10	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 8:19	0:03	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 8:48	0:01	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 8:51	0:01	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 8:53	0:32	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 9:59	0:19	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 12:20	0:59	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 13:30	0:37	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 14:56	0:21	LSR	Data is not available	Data is not available	Oversupply
10/8/2015 15:23	2:15	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 6:39	0:10	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 7:14	0:02	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 7:18 10/9/2015 10:12	2:51 0:25	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/9/2015 10:12	0.23	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 10:50	0:01	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 10:41	1:05	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 12:04	0:02	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 12:08	0:33	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 12:46	0:59	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 13:46	0:02	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 14:29	0:03	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 14:41	0:01	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 14:45	0:04	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 14:53	0:03	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 14:57	0:05	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:13	0:01	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:20	0:02	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:32	0:02	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:35	0:14	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:51	0:01	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:53	0:03	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 15:58	0:04	LSR	Data is not available	Data is not available	Oversupply
10/9/2015 16:03	1:09	LSR	Data is not available	Data is not available	Oversupply
10/10/2015 7:30	0:39	LSR	Data is not available	Data is not available	Oversupply
10/10/2015 8:10	0:02	LSR	Data is not available	Data is not available	Oversupply
10/10/2015 8:14	0:28	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 9:53	0:20	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 10:15	0:09	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 10:25	0:05	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 10:31	0:09	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 10:44	0:08	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 10:54 10/11/2015 11:28	0:26	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/11/2015 11:37	0:03	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 11:52	0:04	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:01	0:00	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:08	0:01	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:23	0:05	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:34	0:04	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:39	0:03	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 12:44	0:02	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 13:01	0:01	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 13:13	0:04	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 13:23	0:07	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 13:31	0:02	LSR	Data is not available	Data is not available	Oversupply
10/11/2015 16:18	0:01	LSR	Data is not available	Data is not available	Oversupply
10/12/2015 8:55	0:07	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 10:45	0:02	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 10:48	0:04	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 10:55	0:01	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 12:36	0:12	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 12:50	0:41	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 13:36	0:05	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 13:44	0:02	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 13:58	0:03	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 14:07	0:01	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 14:51	0:02	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:05	0:01	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:10	0:01	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:14	0:05	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:26	0:05	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:33	0:03	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:37	0:02	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:40	0:05	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:49	0:06	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 15:58	0:02	LSR	Data is not available	Data is not available	Oversupply
10/13/2015 16:01	0:01	LSR	Data is not available	Data is not available	
10/13/2015 16:05 10/14/2015 8:08	0:01	LSR	Data is not available	Data is not available	Oversupply
	0:05	LSR	Data is not available	Data is not available	Oversupply
10/14/2015 8:36	0:01	LSR	Data is not available	Data is not available	Oversupply

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Lanai Curtailment Report October 2015

Elect	ric	-		-	
Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/14/2015 9:14	0:03		Data is not available	Data is not available	Oversupply
10/14/2015 9:18	0:03		Data is not available	Data is not available	Oversupply
10/14/2015 12:08	0:04		Data is not available	Data is not available	Oversupply
10/14/2015 12:14	0:14		Data is not available	Data is not available	Oversupply
10/14/2015 13:06	0:01		Data is not available	Data is not available	Oversupply
10/14/2015 15:12	0:10		Data is not available	Data is not available	Oversupply
10/15/2015 13:12	80:0		Data is not available	Data is not available	Oversupply
10/15/2015 13:21	0:13		Data is not available	Data is not available	Oversupply
10/15/2015 13:41	0:04		Data is not available	Data is not available	Oversupply
10/15/2015 13:47	0:06			Data is not available	Oversupply
10/15/2015 13:59	0:03		Data is not available	Data is not available	Oversupply
10/15/2015 14:08	0:03			Data is not available	Oversupply
<u>10/15/2015 14:20</u> 10/16/2015 9:24	0:15		Data is not available Data is not available	Data is not available	Oversupply Oversupply
10/16/2015 10:05	0:05		Data is not available	Data is not available Data is not available	Oversupply
10/16/2015 11:02	0:01		Data is not available	Data is not available	Oversupply
10/16/2015 11:02	0:02		Data is not available	Data is not available	Oversupply
10/16/2015 11:09	0:02		Data is not available	Data is not available	Oversupply
10/16/2015 11:12	0:02		Data is not available	Data is not available	Oversupply
10/17/2015 8:05	0:20		Data is not available	Data is not available	Oversupply
10/21/2015 15:36	0:20		Data is not available	Data is not available	Oversupply
10/21/2015 15:40	0:01		Data is not available	Data is not available	Oversupply
10/21/2015 16:02	0:03		Data is not available	Data is not available	Oversupply
10/21/2015 16:02	0:00		Data is not available	Data is not available	Oversupply
10/21/2015 16:19	0:09		Data is not available	Data is not available	Oversupply
10/21/2015 16:30	0:05		Data is not available	Data is not available	Oversupply
10/21/2015 16:38	0:03		Data is not available	Data is not available	Oversupply
10/21/2015 16:43	0:02		Data is not available	Data is not available	Oversupply
10/22/2015 6:58	0:09		Data is not available	Data is not available	Oversupply
10/22/2015 7:30	1:36		Data is not available	Data is not available	Oversupply
10/22/2015 9:11	0:04	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 9:16	0:34	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 9:53	0:02	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 10:14	0:06	S LSR	Data is not available	Data is not available	Oversupply
10/22/2015 10:21	0:01	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 10:24	0:01	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 10:52	0:06	6 LSR	Data is not available	Data is not available	Oversupply
10/22/2015 11:08	80:0	B LSR	Data is not available	Data is not available	Oversupply
10/22/2015 11:52	0:01	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 12:04	0:01		Data is not available	Data is not available	Oversupply
10/22/2015 12:51	0:07	′ LSR	Data is not available	Data is not available	Oversupply
10/22/2015 13:49	0:30		Data is not available	Data is not available	Oversupply
10/22/2015 14:22	0:07	LSR	Data is not available	Data is not available	Oversupply
10/22/2015 14:31	0:24		Data is not available	Data is not available	Oversupply
10/22/2015 16:15	1:11		Data is not available	Data is not available	Oversupply
10/23/2015 7:13	2:49		Data is not available	Data is not available	Oversupply
10/23/2015 10:03	0:38		Data is not available	Data is not available	Oversupply
10/23/2015 10:43	1:07	LSR	Data is not available	Data is not available	Oversupply
10/23/2015 11:51	0:01	LSR	Data is not available	Data is not available	Oversupply
10/23/2015 11:53	0:09		Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 12:04 10/23/2015 12:18	0:12		Data is not available Data is not available	Data is not available	Oversupply
10/23/2015 12:30				Data is not available	Oversupply Oversupply
10/23/2015 12:38	90:0 80:0		Data is not available Data is not available	Data is not available	Oversupply
10/23/2015 12:58	0:00		Data is not available	Data is not available	Oversupply
10/23/2015 12:00	0:03		Data is not available	Data is not available	Oversupply
10/23/2015 13:32	0:02		Data is not available	Data is not available	Oversupply
10/23/2015 13:35			Data is not available		Oversupply
10/23/2015 13:51	0:02		Data is not available	Data is not available	Oversupply
10/23/2015 14:11	0:23		Data is not available	Data is not available	Oversupply
10/23/2015 14:35	0:09		Data is not available	Data is not available	Oversupply
10/23/2015 14:55	0:13		Data is not available	Data is not available	Oversupply
10/23/2015 15:16	0:48		Data is not available	Data is not available	Oversupply
10/23/2015 16:11	0:09		Data is not available	Data is not available	Oversupply
10/23/2013 10.11			Dete is not evailable	Data is not available	Oversupply
10/23/2015 16:24	0:56	LSR	Data is not available	Data io not avaliable	Oversupply
		S LSR 2 LSR	Data is not available	Data is not available	Oversupply
10/23/2015 16:24	0:56				
10/23/2015 16:24 10/24/2015 8:17	0:56 0:42	2 LSR	Data is not available	Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01	0:56 0:42 0:17	2 LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58	0:56 0:42 0:17 0:01	2 LSR LSR LSR	Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:31	0:56 0:42 0:17 0:01 0:01	2 LSR LSR LSR LSR	Data is not available Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:31 10/24/2015 12:33	0:56 0:42 0:17 0:01 0:01 0:01 0:01	LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:31 10/24/2015 12:33 10/24/2015 14:05	0:56 0:42 0:17 0:01 0:01 0:01 0:01 0:01	LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:31 10/24/2015 12:31 10/24/2015 14:05 10/24/2015 14:05	0:56 0:42 0:17 0:01 0:01 0:01 0:00 0:04	LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 8:17 10/24/2015 19:05 10/24/2015 11:23 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:25	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:04 0:02	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:05 10/24/2015 11:58 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:13 10/24/2015 14:26 10/24/2015 15:20 10/24/2015 15:20 10/24/2015 15:20	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:04 0:02 0:05 0:05 0:06	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:23 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:26 10/24/2015 15:28 10/24/2015 9:24	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	LSR LSR LSR LSR LSR LSR LSR S LSR LSR LS	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 8:17 10/24/2015 19:05 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:05 10/24/2015 14:26 10/24/2015 15:28 10/24/2015 15:28 10/28/2015 9:15	0:56 0:42 0:17 0:01 0:01 0:04 0:04 0:04 0:05 0:01 0:00 0:00 0:00 0:01	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:13 10/24/2015 14:13 10/24/2015 15:20 10/24/2015 15:20 10/24/2015 9:15 10/28/2015 9:14 10/28/2015 9:51	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:04 0:04 0:04 0:05 0:01 0:01 0:01 0:01 0:01 0:01	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 8:17 10/24/2015 19:05 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:05 10/24/2015 14:26 10/24/2015 15:28 10/24/2015 15:28 10/28/2015 9:15	0:56 0:42 0:17 0:01 0:01 0:04 0:04 0:04 0:05 0:01 0:00 0:00 0:00 0:01	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:13 10/24/2015 14:13 10/24/2015 15:20 10/24/2015 15:20 10/24/2015 9:15 10/28/2015 9:14 10/28/2015 9:51	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:02 0:02 0:02 0:02 0:02 0:01 0:01 0:01	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 8:17 10/24/2015 19:08 10/24/2015 12:31 10/24/2015 12:33 10/24/2015 14:05 10/24/2015 14:05 10/24/2015 14:05 10/24/2015 15:28 10/28/2015 9:15 10/28/2015 9:51 10/28/2015 10:06 10/28/2015 10:30	0:56 0:42 0:17 0:01 0:01 0:01 0:04 0:04 0:04 0:04 0:05 0:01 0:01 0:01 0:01 0:02 0:02 0:02 0:02	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
10/23/2015 16:24 10/24/2015 8:17 10/24/2015 9:01 10/24/2015 11:58 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 12:33 10/24/2015 14:26 10/24/2015 15:20 10/24/2015 9:52 10/28/2015 9:54 10/28/2015 9:54 10/28/2015 9:51 10/28/2015 10:13	0:56 0:42 0:17 0:01 0:01 0:01 0:02 0:02 0:02 0:02 0:02	LSR LSR LSR LSR LSR LSR LSR LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply

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Lanai Curtailment Report October 2015

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/28/2015 11:46	0:37	LSR	Data is not available	Data is not available	Oversupply
10/28/2015 12:29	0:02	LSR	Data is not available	Data is not available	Oversupply
10/28/2015 13:57	0:18	LSR	Data is not available	Data is not available	Oversupply
10/28/2015 14:16	1:37	LSR	Data is not available	Data is not available	Oversupply
10/28/2015 15:55	0:14	LSR	Data is not available	Data is not available	Oversupply
10/29/2015 6:13	0:05	LSR	Data is not available	Data is not available	Oversupply
10/29/2015 16:33	0:19	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 7:08	0:04	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 7:36	0:13	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 7:50	0:04	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 13:20	0:03	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 14:04	0:05	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 14:15	0:26	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 14:42	0:15	LSR	Data is not available	Data is not available	Oversupply
10/30/2015 15:04	0:10	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 7:27	0:42	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 8:10	0:41	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 8:52	0:06	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 9:31	0:02	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 9:35	0:07	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 9:43	0:02	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 9:56	0:09	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:07	0:04	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:12	0:08	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:21	0:11	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:36	0:01	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:43	0:13	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 10:57	0:07	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 11:12	0:01	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 11:25	0:06	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 11:48	0:03	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 11:53	0:06	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 12:02	0:07	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 12:14	0:28	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 12:43	0:13	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 13:08	0:03	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 13:12	0:07	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 13:26	0:01	LSR	Data is not available	Data is not available	Oversupply
10/31/2015 13:28	0:03	LSR	Data is not available	Data is not available	Oversupply
otes:			-	-	·

LSR possible output data is not available. Therefore, Maui Electric assumes LSR is curtailed if the LSR curtailment set point is less than 1,200 kW and LSR's output is within 50 kW of the curtailment set point.

The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.

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Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released ¹	IPP	Reason for Curtailment
10/24/15 08:35	0.3 MW	10/24/15 15:47	0.1 MW	HRD	System constraint
10/25/15 07:41	0.0 MW	10/25/15 17:11	0.2 MW	HRD	System constraint
10/26/15 06:44	0.0 MW	10/26/15 15:34	0.0 MW	HRD	System constraint

Hawai`i Electric Light Company Curtailment Report October 2015

¹ The MW output values are taken soon after curtailment is released by Hawai'i Electric Light and may not reflect their full output depending on ramp rate for the facility. The wind farms generally return immediately to full available levels, whereas PGV and Wailuku may take longer to return to scheduled or full available output levels.