

December 21, 2017

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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 Companies'¹ monthly report for November 2017 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 Companies are 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@hawaiianelectric.com</u> to request a copy.

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

Sincerely,

for Daniel G. Brown Manager Regulatory Non-Rate Proceedings

Enclosure

c: 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".

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 November 30, 2017):

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.

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

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 November 30, 2017):

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

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

2c) 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 did not have any demand response activations for system events for the month of October. Hawai'i Electric Light currently does not have a 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. Therefore, Attachment 5 is not being provided for this reporting period.

- (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.

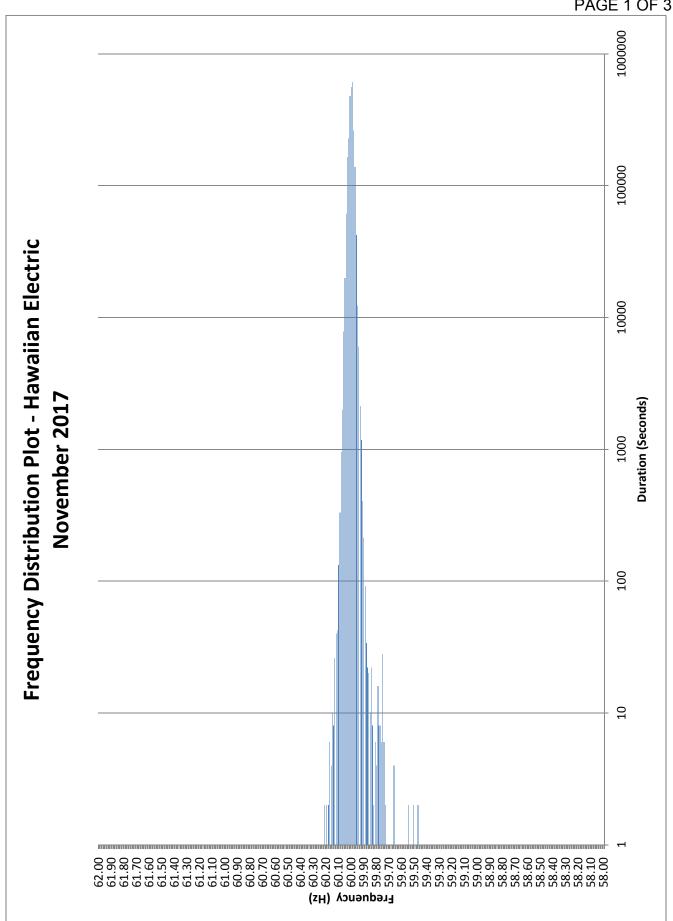
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending November 30, 2017):

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.



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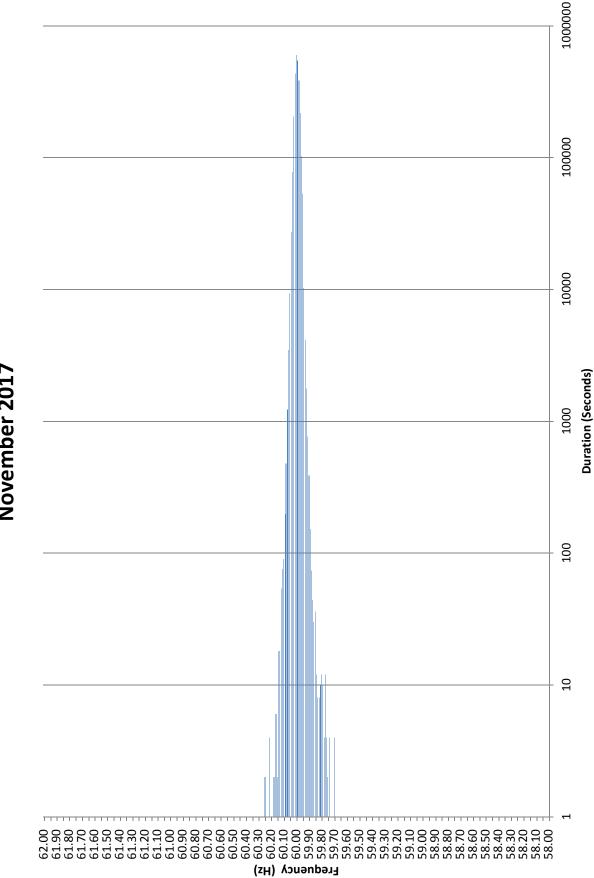
PAGE 1 OF 3

1000000 100000 10000 **Duration** (Seconds) 1000 100 10 $\begin{array}{c} 62.00\\ 61.70\\ 61.10\\ 61.70\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 61.10\\ 60.20\\ 60$ [requency (Hz)

Frequency Distribution Plot - Maui Electric November 2017

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Frequency Distribution Plot - Hawai'i Electric Light November 2017

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Hawaiian Electric Frequency Excursion Statistics						
November 2017						
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz				
Number of Excursions	1221	2249				
Maximum Duration (sec)	270	196				
Maximum Deviation (Hz)	59.47	60.212				
Total Duration of Excursions (sec)	14442	17562				

Maui Electric Frequency Excursion Statistics November 2017					
	<59.95 Hz	>60.05 Hz			
Number of Excursions	2263	1576			
Maximum Duration (sec)	2516	4032			
Maximum Deviation (Hz)	58.921	61.321			
Total Duration of Excursions (sec)	18892	18636			

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Hawai'i Electric Light Frequency Excursion Statistics November 2017					
	<59.95 Hz	>60.05 Hz			
Number of Excursions	6829	1713			
Maximum Duration (sec)	186	182			
Maximum Deviation (Hz)	59.696	60.248			
Total Duration of Excursions (sec)	44298	9216			

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HAWAIIAN ELECTRIC COMPANY, INC. CONTINGENCY RESERVE ACTIVATION EVENTS NOVEMBER 2017

		F	requency (H	z)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
1	11/28/17 16:49	60.01	59.47	NA	-21.00		K1 tripped offline while generating ~2.7 MW. W9 called online for spinning reserves.

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MAUI ELECTRIC COMPANY, LIMITED UNDERFREQUENCY LOADSHEDDING EVENTS

November 2017

		1			- /		ber 2017		
Event #	IR #	Island	Date & Time	Prior to Event	Frequency (Hz Nadir	Levels UFLS Occurred	Load Shed (MW)	Duration (HH:MM)	Description
1	867	Lana'i	11/14/2017 10:15 AM	60.00	58.02	58.65 <i>,</i> 58.5	0.30	0:10	A frequency depression of 58.02 Hz occurred when generator LL7 at Miki Basin Power Plant tripped off line.
2	898	Maui	11/26/2017 7:32 AM	60.00	57.14	58.7, 58.5, 57.8	24.15	1:40	A frequency depression of 57.14 Hz occurred due to a 69 KV transmission line fault.
3	920	Lana'i	11/28/2017 8:41 AM	60.10	58.52	58.65	0.01	0:18	A frequency depression of 58.52 Hz occurred when generator LL7 at Miki Basin Power Plant tripped off li due to a fire alarm relay operating.

HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS NOVEMBER 2017

		Fr	equency (H	Iz)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Load Shed (MW)	Duration (HH:MM)	Description
1	11/28/17 16:49	60.01	59.47	59.7	NA	0.03	K1 tripped offline while generating ~2.7 MW. RDLC and CIDLC activated.

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Hawaiian Electric Curtailment Report November 2017

Hawaiian Electric Curtailment Report November 2017								
					Estimated			
				MW output	MWh of			
		MW output		after	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	
11/03/17 05:41	0.0	0.00	11/04/17 09:55	0	*	North	System constraints	
11/03/17 05:42	0.0	0.00	11/03/17 17:26	0	*	South	System constraints	
11/08/17 08:45	0.0	6.00	11/08/17 09:30	0	*	Mauka	System constraints	
11/08/17 18:21	0.0	0.00	11/08/17 19:14	0	*	Waianae	System constraints	
11/08/17 18:23	0.0	0.00	11/08/17 19:14	0	*	Aloha1	System constraints	
11/09/17 05:42	0.0	0.00	11/09/17 05:56	0	*	Waianae	System constraints	
11/09/17 05:44	0.0	0.00	11/09/17 05:57	0	*	Aloha1	System constraints	
11/09/17 09:17	0.0	1.00	11/09/17 09:54	0	*	Mauka	System constraints	
11/14/17 06:49	0.0	0.00	11/14/17 08:26	0	*	KREP	System constraints	
11/14/17 06:51	0.0	0.00	11/14/17 16:13	0	*	KLS2	System constraints	
11/14/17 14:53	0.0	3.10	11/14/17 16:11	0	*	KREP	System constraints	
11/16/17 06:48	0.0	0.00	11/16/17 19:10	0	*	KLS2	System constraints	
11/16/17 06:51	0.0	0.00	11/16/17 08:02	0	*	KREP	System constraints	
11/16/17 18:17	0.0	0.00	11/16/17 19:13	0	*	KREP	System constraints	
11/22/17 18:41	0.0	14.40	11/22/17 19:05	0	*	KWF	System constraints	
11/22/17 18:43	0.0	12.60	11/22/17 19:07	0	*	Makai	System constraints	
11/26/17 07:45	0.0	2.50	11/26/17 08:48	0	*	Waianae	System constraints	
11/26/17 07:46	0.0	0.10	11/26/17 08:50	0	*	Aloha1	System constraints	
11/26/17 13:35	0.0	22.60	11/26/17 14:13	0	*	Waianae	System constraints	

Aloha1 = Aloha Solar 1 PV Farm

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

North = Waihonu North PV Farm

South = Waihonu South PV Farm

Waianae = Waianae Solar PV 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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Start Date and Time 11/1/2017 9:12	-		1		
	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
	0:01	KWP	0.330	19.672	System constraint
11/2/2017 6:13	0:01	KWPII	0.000	0.001	System constraint
11/3/2017 1:00	0:01	KWPII	0.006	3.821	System constraint
11/3/2017 1:11	0:06	KWPII	0.113	8.252	System constraint
11/3/2017 1:18	0:10	KWPII	0.136		System constraint
11/3/2017 1:32	1:33	KWPII	10.709	14.918	
					*
11/3/2017 2:31	0:16	AWE	0.458		System constraint
11/3/2017 2:49	0:01	AWE	0.012	18.100	
11/3/2017 2:52	0:01	AWE	0.010	17.900	System constraint
11/3/2017 2:54	0:07	AWE	0.044	18.800	System constraint
11/3/2017 3:07	0:43	KWPII	7.785	14.175	System constraint
11/3/2017 3:27	0:06	AWE	0.108	20,200	System constraint
11/3/2017 3:34	0:01	AWE	0.002	18.400	System constraint
11/3/2017 3:36		AWE			
	0:04		0.028		System constraint
11/3/2017 3:41	0:03	AWE	0.029	17.900	System constraint
11/3/2017 3:52	0:21	KWPII	1.060	12.223	System constraint
11/3/2017 4:30	0:04	KWPII	0.057	7.714	System constraint
11/3/2017 4:36	0:16	KWPII	0.584	11.151	System constraint
11/3/2017 5:45	0:23	KWPII	1.137	14.750	System constraint
11/3/2017 6:20	0:01	KWPII	0.005		System constraint
					•
11/3/2017 7:31	0:05	ESA	Data is not available	Data is not available	System constraint
11/3/2017 7:31	0:06	ESA	Data is not available	Data is not available	System constraint
11/3/2017 7:31	0:05	ESB	Data is not available	Data is not available	System constraint
11/3/2017 7:31	0:06	ESB	Data is not available	Data is not available	System constraint
11/3/2017 7:32	0:26	KWPII	1.649	19.102	System constraint
11/3/2017 7:45	0:11	ESA	Data is not available	Data is not available	System constraint
11/3/2017 7:45	0:11	ESB	Data is not available	Data is not available	System constraint
11/3/2017 7:45	0:10	ESA	Data is not available	Data is not available	System constraint
					*
11/3/2017 7:45	0:10	ESB	Data is not available	Data is not available	System constraint
11/3/2017 8:42	2:43	KWPII	8.813	19.211	System constraint
11/3/2017 8:58	2:25	ESA	Data is not available	Data is not available	System constraint
11/3/2017 8:58	2:25	ESB	Data is not available	Data is not available	System constraint
11/3/2017 11:25	0:07	ESA	Data is not available	Data is not available	System constraint
11/3/2017 11:25	0:08	ESA	Data is not available	Data is not available	System constraint
11/3/2017 11:25	0:07	ESB	Data is not available	Data is not available	System constraint
11/3/2017 11:25	0:08	ESB	Data is not available	Data is not available	System constraint
11/3/2017 11:26	0:07	KWPII	0.224	15.239	System constraint
11/3/2017 12:36	0:09	ESA	Data is not available	Data is not available	System constraint
11/3/2017 12:36	0:10	ESA	Data is not available	Data is not available	System constraint
11/3/2017 12:36	0:09	ESB	Data is not available	Data is not available	System constraint
11/3/2017 12:36	0:10	ESB	Data is not available	Data is not available	System constraint
11/3/2017 12:37	0:08	KWPII	0.145	19.103	
11/3/2017 13:08	0:01	ESA	Data is not available	Data is not available	System constraint
11/3/2017 13:08	0:01	ESB	Data is not available	Data is not available	System constraint
11/3/2017 13:12	1:09	ESA	Data is not available	Data is not available	System constraint
11/3/2017 13:12	1:09	ESB	Data is not available	Data is not available	System constraint
11/3/2017 13:12	1:08	ESA	Data is not available	Data is not available	System constraint
11/3/2017 13:12	1:08	ESB	Data is not available	Data is not available	System constraint
11/3/2017 13:12	0:01	KWPII	0.001		System constraint
11/3/2017 13:14	1:08	KWPII	4.080		System constraint
11/3/2017 22:48	0:07	KWPII	0.127		Oversupply
11/3/2017 23:20	2:20	KWPII	17.360		Oversupply
11/4/2017 1:50	2:27	KWPII	18.165	17.714	Oversupply
11/4/2017 4:45	0:09	KWPII	0.130	17.714	Oversupply
11/4/2017 4:55	0:03	KWPII	0.021	17.714	
11/4/2017 4:59	0:01		0.001		
	5.51	KVVPII		17 714	
11/4/2017 2:25	0.01	KWPII ESA			Oversupply
11/4/2017 8:35	0:01	ESA	Data is not available	Data is not available	Oversupply Oversupply
11/4/2017 8:35	0:01	ESA ESB	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply Oversupply
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11/4/2017 8:35 11/4/2017 8:36 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:42 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:54	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 1:48 0:02	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE	Data is not available Data is not available 0.003 Data is not available 0.007 Data is not available 0.007 22.677 Data is not available Data is not available Data is not available Data is not available 0.002	Data is not available Data is not available 19.209 Data is not available Data is not available 19.211 Data is not available Data is not available	Oversupply
11/4/2017 8:35 11/4/2017 8:36 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:42 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 9:57	0:01 0:07 0:07 0:01 1:55 1:47 1:47 1:48 0:02 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESA ESB ESA ESB AWE AWE	Data is not available Data is not available 0.003 Data is not available 0.007 22.677 Data is not available 0.002 0.002 0.002	Data is not available Data is not available 19.209 Data is not available Data is not available 19.211 Data is not available Data is not available	Oversupply
11/4/2017 8:35 11/4/2017 8:36 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:42 11/4/2017 8:42 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 9:54 11/4/2017 9:54 11/4/2017 9:54	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:02	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB ESA ESB AWE AWE AWE	Data is not available Data is not available 0.003 Data is not available 0.007 22.677 Data is not available 0.002 0.002 0.002 0.005 0.001	Data is not available Data is not available 19.209 Data is not available Data is not available 20.500 20.500 20.500 20.800	Oversupply
11/4/2017 8:35 11/4/2017 8:36 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:42 11/4/2017 8:42 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 9:54 11/4/2017 9:54 11/4/2017 9:59 11/4/2017 10:30	0:01 0:07 0:07 0:07 1:55 1:47 1:47 1:48 1:48 0:02 0:01 0:02 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE AWE AWE AWE AWE	Data is not available 0.002 0.002 0.005 0.001 0.002	Data is not available Data is not available 19.209 Data is not available 19.211 Data is not available Data is not available Data is not available Data is not available Data is not available 20.500 20.500 19.900 20.800 20.700	Oversupply
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:55 1114/2017 10:28 1114/2017 10:28	0:01 0:07 0:07 0:07 0:01 1:55 1:47 1:48 1:48 0:02 0:01 0:02 0:01 0:01 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESA ESB ESA AWE AWE AWE AWE AWE AWE ESA	Data is not available Data is not available 0.003 Data is not available 0.007 22.677 Data is not available 0.002 0.0	Data is not available Data is not available 19.209 Data is not available Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:59 1114/2017 10:28 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 1:48 0:02 0:01 0:001 0:01 0:01 3:58 3:59	ESA ESB KWPII ESA ESB KWPII ESA ESA ESB ESA ESB AWE AWE AWE AWE AWE ESA ESA ESA	Data is not available	Data is not available Data is not available 19.209 Data is not available Data is not available	Oversupply
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:55 1114/2017 10:30 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:02 0:01 0:02 0:01 0:01 3:58 3:59	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE AWE AWE AWE AWE ESA ESA ESA ESB	Data is not available	Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:59 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESB ESB AWE AWE AWE ESA ESA	Data is not available	Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:55 1114/2017 10:30 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:02 0:01 0:02 0:01 0:01 3:58 3:59	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE AWE AWE AWE AWE ESA ESA ESA ESB	Data is not available	Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:59 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESB ESB AWE AWE AWE ESA ESA	Data is not available	Data is not available Data is not available 19.209 Data is not available Data is not available Data is not available 19.211 Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:40 1114/2017 8:42 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:55 1114/2017 10:28 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:01 1:55 1:47 1:48 1:48 1:48 0:02 0:01 0:02 0:01 0:01 3:58 3:59 3:59 3:59	ESA ESB KWPII ESA ESB KWPII ESA ESA ESA ESA ESA AWE AWE AWE AWE ESA ESA ESA ESB KWPII	Data is not available	Data is not available Data is not available 19.209 Data is not available Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:40 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:54 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:01 0:01 0:01 0:01 0:01 0:58 3:59 3:58 3:59 0:39 0:39 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE AWE AWE AWE AWE ESA ESA ESA ESB ESB ESB ESB KWPII AWE AWE	Data is not available	Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:40 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 8:49 11/4/2017 9:57 11/4/2017 9:57 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39 11/4/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 1:48 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:55 3:559 3:558 3:559 3:559 3:559 3:559	ESA ESB KWPII ESA ESB KWPII ESA ESB ESB ESB AWE AWE AWE ESA ESB KWPII AWE AWE ESA ESB ESA AWE AWE ESB ESA	Data is not available	Data is not available	Oversupply Ov
1114/2017 8:35 11/4/2017 8:36 1114/2017 8:40 1114/2017 8:40 1114/2017 8:40 1114/2017 8:49 1114/2017 8:49 1114/2017 8:49 1114/2017 9:54 1114/2017 9:54 1114/2017 9:54 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39 1114/2017 10:39	0:01 0:07 0:07 0:07 1:55 1:47 1:48 1:48 0:02 0:01 0:01 0:01 0:01 0:01 0:01 0:58 3:59 3:58 3:59 0:39 0:39 0:01	ESA ESB KWPII ESA ESB KWPII ESA ESB ESA ESB AWE AWE AWE AWE AWE ESA ESA ESA ESB ESB ESB ESB KWPII AWE AWE	Data is not available	Data is not available	Oversupply Ov

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/4/2017 14:52	0:10	ESB	Data is not available	Data is not available	Oversupply
11/4/2017 14:55	0:03	KWPII	0.022		Oversupply
11/4/2017 15:06	0:02	ESA	Data is not available	Data is not available	Oversupply
11/4/2017 15:06	0:03	ESA	Data is not available	Data is not available	Oversupply
11/4/2017 15:06	0:02	ESB	Data is not available	Data is not available	Oversupply
11/4/2017 15:06	0:03	ESB	Data is not available	Data is not available	Oversupply
11/4/2017 15:08	0:01	KWPII	0.009		Oversupply
11/4/2017 23:27 11/5/2017 1:26	0:01	AWE	0.003		Oversupply Oversupply
11/5/2017 1:32	0:04	KWPII	0.072		Oversupply
11/5/2017 4:49	0:05	KWPII	0.122		Oversupply
11/5/2017 8:09	0:06	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 8:09	0:06	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 8:10	0:01	KWPII	0.001	19.211	Oversupply
11/5/2017 8:12	0:04	KWPII	0.083	19.211	Oversupply
11/5/2017 8:17	1:21	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 8:17	1:21	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 8:17	1:22	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 8:17 11/5/2017 8:17	1:22	ESB KWPII	Data is not available 17.740	Data is not available	Oversupply Oversupply
11/5/2017 9:16	0:05	AWE	0.100		Oversupply
11/5/2017 9:22	0:13	AWE	0.598		Oversupply
11/5/2017 9:41	4:02	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 9:41	4:02	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 9:41	4:03	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 9:41	4:03	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 9:42	4:03	KWPII	64.141		Oversupply
11/5/2017 11:38	0:01	AWE	0.000		Oversupply
11/5/2017 12:13	0:01	AWE	0.002		Oversupply
11/5/2017 12:16 11/5/2017 12:22	0:05	AWE	0.019		Oversupply Oversupply
11/5/2017 12:22	0:54	AWE	1.811		Oversupply
11/5/2017 13:24	0:02	AWE	0.006		Oversupply
11/5/2017 13:28	0:01	AWE	0.006		Oversupply
11/5/2017 13:30	0:02	AWE	0.011		Oversupply
11/5/2017 13:33	0:01	AWE	0.002	20.300	Oversupply
11/5/2017 13:35	0:02	AWE	0.015	20.800	Oversupply
11/5/2017 13:46	1:01	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 13:46	1:02	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 13:46	1:01	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 13:46	1:02	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 13:47 11/5/2017 14:44	0:04	KWPII	8.407		Oversupply Oversupply
11/5/2017 14:50	0:05	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 14:50	0:06	ESA	Data is not available	Data is not available	Oversupply
11/5/2017 14:50	0:05	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 14:50	0:06	ESB	Data is not available	Data is not available	Oversupply
11/5/2017 14:50	0:02	KWPII	0.019		Oversupply
11/5/2017 14:54	0:02	KWPII	0.005		Oversupply
11/6/2017 0:41	0:08	KWPII	0.105		Oversupply
11/6/2017 0:50	0:01	KWPII	0.012		Oversupply
11/6/2017 0:53 11/6/2017 1:38	0:02	KWPII	0.004		Oversupply Oversupply
11/6/2017 1:43	0:19	KWPII	0.715		Oversupply
11/6/2017 2:09	0:10	KWPII	0.250		Oversupply
11/6/2017 2:24	0:05	KWPII	0.094		Oversupply
11/6/2017 2:30	0:02	KWPII	0.040	15.430	Oversupply
11/6/2017 2:53	0:12	KWPII	0.396		Oversupply
11/6/2017 3:08	0:01	KWPII	0.002		Oversupply
11/6/2017 3:10	0:10	KWPII	0.216		Oversupply
11/6/2017 3:22	0:02	KWPII	0.020		Oversupply
11/6/2017 3:42 11/6/2017 9:28	0:01	KWPII ESA	0.007 Data is not available	14.554 Data is not available	Oversupply Oversupply
11/6/2017 9:28	0:07	ESB	Data is not available	Data is not available	Oversupply Oversupply
11/6/2017 9:28	0:06	ESA	Data is not available	Data is not available	Oversupply
11/6/2017 9:28	0:06	ESB	Data is not available	Data is not available	Oversupply
11/6/2017 9:29	0:06	KWPII	0.270		Oversupply
11/7/2017 9:12	0:09	ESA	Data is not available	Data is not available	System constraint
11/7/2017 9:12	0:09	ESB	Data is not available	Data is not available	System constraint
11/7/2017 9:14	0:08	KWPII	0.072		System constraint
11/7/2017 9:20	0:01	AWE	0.001		System constraint
11/7/2017 9:23 11/7/2017 9:23	0:01	ESA ESB	Data is not available Data is not available	Data is not available Data is not available	System constraint System constraint
11/7/2017 9:23	0:01	ESA	Data is not available	Data is not available	System constraint
11/7/2017 9:23	0:02	ESB	Data is not available	Data is not available	System constraint
11/7/2017 9:23	0:02	KWPII	0.012		System constraint
11/7/2017 9:57	0:09	AWE	0.199		System constraint
11/7/2017 9:58	0:22	ESA	Data is not available	Data is not available	System constraint
11/7/2017 9:58	0:23	ESA	Data is not available	Data is not available	System constraint
11/7/2017 9:58	0:22	ESB	Data is not available	Data is not available	System constraint
11/7/2017 9:58	0:23	ESB	Data is not available	Data is not available	System constraint
11/7/2017 9:58	0:22	KWPII	0.440	2 3 1 8	System constraint

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Maui Curtailment Report

November 2017

				1	
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/7/2017 10:07	0:03	AWE	0.061	17.200	System constraint
11/7/2017 10:11	0:06	AWE	0.071	17.500	System constraint
11/7/2017 10:21	0:01	KWPII	0.001	1.336	System constraint
11/7/2017 10:53	0:01	ESA	Data is not available	Data is not available	System constraint
11/7/2017 10:53	0:01	ESB	Data is not available	Data is not available	System constraint
11/7/2017 11:44	0:01	ESA	Data is not available	Data is not available	System constraint
11/7/2017 11:44	0:01	ESB	Data is not available	Data is not available	System constraint
11/7/2017 11:46	0:01	AWE	0.003		System constraint
11/7/2017 22:42	0:29	KWPII	1.351		Oversupply
11/7/2017 23:27	0:05	KWPII	0.096		
11/7/2017 23:33	0:03	KWPII	0.034		Oversupply
11/7/2017 23:33	1:48	KWPII	10.893		Oversupply
		KWPII	0.015		Oversupply
11/8/2017 1:35 11/8/2017 1:59	0:03	KWPII			
	0:02		0.028		Oversupply
11/8/2017 2:02	0:01	KWPII	0.005		Oversupply
11/8/2017 2:05	1:46	KWPII	20.606		Oversupply
11/8/2017 3:12	0:02	AWE	0.012		Oversupply
11/8/2017 3:17	0:05	AWE	0.083		Oversupply
11/8/2017 3:23	0:16	AWE	0.331		Oversupply
11/8/2017 3:40	0:06	AWE	0.088		Oversupply
11/8/2017 3:53	1:18	KWPII	16.958		Oversupply
11/8/2017 4:51	0:14	AWE	0.351		Oversupply
11/8/2017 5:13	0:18	KWPII	1.831	16.500	Oversupply
11/8/2017 7:24	0:11	ESA	Data is not available	Data is not available	System constraint
11/8/2017 7:24	0:12	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 7:24	0:11	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 7:24	0:12	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 7:25	0:12	KWPII	0.509	19.206	Oversupply
11/8/2017 9:20	0:07	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 9:20	0:08	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 9:20	0:07	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 9:20	0:08	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 9:21	0:01	KWPII	0.000		
11/8/2017 9:23	0:05	KWPII	0.064		Oversupply
11/8/2017 9:35	2:51	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 9:35	2:51	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 9:36	0:01	KWPII	0.003		Oversupply
11/8/2017 9:38	2:49	KWPII	39.800		
					Oversupply
11/8/2017 10:37	0:04	AWE	0.012		Oversupply
11/8/2017 10:58	0:04	AWE	0.025		Oversupply
11/8/2017 11:03	0:01	AWE	0.001		Oversupply
11/8/2017 11:05	0:02	AWE	0.012		Oversupply
11/8/2017 11:10	0:01	AWE	0.004		Oversupply
11/8/2017 11:12	0:03	AWE	0.019		Oversupply
11/8/2017 11:18	0:02	AWE	0.019		Oversupply
11/8/2017 12:02	0:02	AWE	0.002		Oversupply
11/8/2017 12:06	0:02	AWE	0.012		Oversupply
11/8/2017 12:19	0:01	AWE	0.005		Oversupply
11/8/2017 12:28	0:14	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 12:28	0:14	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 12:28	0:13	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 12:28	0:13	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 12:28	0:14	KWPII	3.746	18.021	Oversupply
11/8/2017 12:32	0:02	AWE	0.032	19.400	Oversupply
11/8/2017 12:35	0:02	AWE	0.020	19.200	Oversupply
11/8/2017 12:43	1:14	KWPII	10.985	18.392	Oversupply
11/8/2017 12:44	1:09	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 12:44	1:09	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 12:44	1:10	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 12:44	1:10	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 14:02	0:01	ESA	Data is not available	Data is not available	Oversupply
11/8/2017 14:02	0:01	ESB	Data is not available	Data is not available	Oversupply
11/8/2017 22:36	0:15	KWPII	0.648		Oversupply
11/8/2017 23:10	0:15	KWPII	0.673		Oversupply
11/8/2017 23:38	0:39	KWPII	2.174		Oversupply
11/9/2017 0:19	0:03	KWPII	0.009		Oversupply
11/9/2017 1:03	0:07	KWPII	0.009		Oversupply
	0:07	KWPII	0.016		Oversupply Oversupply
11/9/2017 1:23					
11/9/2017 1:43	0:24	KWPII	0.856		Oversupply
11/9/2017 2:09	0:06	KWPII	0.115		Oversupply
11/9/2017 2:25	0:07	KWPII	0.250		Oversupply
11/9/2017 2:34	0:13	KWPII	1.487		Oversupply
11/9/2017 2:49	0:21	KWPII	1.288		Oversupply
11/9/2017 3:15	0:31	KWPII	2.028		Oversupply
11/9/2017 11:11	0:01	KWPII	0.005		System constraint
11/9/2017 11:23	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 11:23	0:01	ESB	Data is not available	Data is not available	System constraint
11/9/2017 11:23	0:01	KWPII	0.004		System constraint
11/9/2017 11:53	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 11:53	0:01	ESB	Data is not available	Data is not available	System constraint
11/9/2017 12:21	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 12:21	0:01	ESB	Data is not available	Data is not available	System constraint

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 5 OF 18



Maui Electric

11/14/2017 11:53

0:04

BS

Data is not available

Maui Curtailment Report

					-
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/9/2017 12:58	0:01	KWPII	0.007	11.749	System constraint
11/9/2017 13:27	0:03	ESA	Data is not available	Data is not available	System constraint
11/9/2017 13:27	0:03	ESA	Data is not available	Data is not available	System constraint
11/9/2017 13:27	0:03	ESB	Data is not available	Data is not available	System constraint
11/9/2017 13:27	0:04	ESB	Data is not available	Data is not available	System constraint
11/9/2017 13:28	0:03	KWPII	0.020	12.573	System constraint
11/9/2017 13:35	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 13:35	0:01	ESB	Data is not available	Data is not available	System constraint
		ESA			
11/9/2017 13:35	0:02		Data is not available	Data is not available	System constraint
11/9/2017 13:35	0:02	ESB	Data is not available	Data is not available	System constraint
11/9/2017 13:35	0:02	KWPII	0.027	12.964	System constraint
11/9/2017 13:53	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 13:53	0:01	ESB	Data is not available	Data is not available	System constraint
11/9/2017 14:01	0:04	ESA	Data is not available	Data is not available	System constraint
	0:04	ESB	Data is not available		
11/9/2017 14:01				Data is not available	System constraint
11/9/2017 14:01	0:03	ESA	Data is not available	Data is not available	System constraint
11/9/2017 14:01	0:03	ESB	Data is not available	Data is not available	System constraint
11/9/2017 14:01	0:05	KWPII	0.171	15.616	System constraint
11/9/2017 14:17	0:01	ESA	Data is not available	Data is not available	System constraint
11/9/2017 14:17	0:01	ESB	Data is not available	Data is not available	System constraint
11/9/2017 14:26	0:02	KWPII	0.083		System constraint
11/9/2017 21:52	0:02	KWPII	0.013		System constraint
11/9/2017 21:55	0:02	KWPII	0.010		
11/9/2017 22:24	0:01	KWPII	0.002	19.100	System constraint
11/9/2017 23:18	0:04	KWPII	0.040	18.164	System constraint
11/9/2017 23:45	0:07	KWPII	0.161		System constraint
					*
11/9/2017 23:53	0:43	KWPII	3.757		System constraint
11/10/2017 12:46	0:01	ESA	Data is not available	Data is not available	System constraint
11/10/2017 12:46	0:02	ESA	Data is not available	Data is not available	System constraint
11/10/2017 12:46	0:01	ESB	Data is not available	Data is not available	System constraint
11/10/2017 12:46	0:02	ESB	Data is not available	Data is not available	System constraint
11/10/2017 12:46	0:02	KWPII	0.037	18 042	System constraint
11/10/2017 12:52	0:01	ESA	Data is not available	Data is not available	System constraint
11/10/2017 12:52	0:01	ESB	Data is not available	Data is not available	System constraint
11/10/2017 12:52	0:02	KWPII	0.066	17.742	System constraint
11/10/2017 13:36	0:01	ESA	Data is not available	Data is not available	System constraint
11/10/2017 13:36	0:01	ESB	Data is not available	Data is not available	System constraint
11/10/2017 13:36	0:01	KWPII	0.003		System constraint
11/10/2017 13:57	0:01	ESA	Data is not available	Data is not available	System constraint
11/10/2017 13:57	0:01	ESB	Data is not available	Data is not available	System constraint
11/10/2017 14:57	0:06		Data is not available	Data is not available	
	0.06	ESA	Data is not available	Data is not available	System constraint
11/10/2017 14:57	0:06	ESA	Data is not available	Data is not available	System constraint System constraint
11/10/2017 14:57 11/10/2017 14:57	0:06 0:05	ESB ESA	Data is not available Data is not available	Data is not available Data is not available	System constraint System constraint
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11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:58 11/11/2017 14:58 11/11/2017 14:59 11/12/2017 14:59 11/12/2017 1:15 11/12/2017 1:15 11/12/2017 4:21 11/12/2017 4:21 11/12/2017 4:23 11/12/2017 4:23 11/12/2017 4:53 11/14/2017 8:53 11/14/2017 8:28 11/14/2017 9:02 11/14/2017 9:04 11/14/2017 9:14 11/14/2017 9:28 11/14/2017 9:28	0.06 0.05 0.05 0.03 0.04 0.37 0.04 0.37 0.04 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.02	ESB ESA ESB KWPII SB KWPII ESA ESB KWPII ESB KWPII AWE ESB KWPII AWE ESB KWPII AWE ESB KWPII AWE ESA ESA ESB KWPII AWE ESA ESB AWE AWE <tr< td=""><td>Data is not available Data is not available Data is not available Data is not available 0.024 0.000 4.298 0.024 0.000 0.021 0.002 0.002 0.003 0.022 0.003 Data is not available Data is not available</td><td>Data is not available Data is not available Data is not available Data is not available Its.957 Its.667 Its.967 Its.96</td><td>System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint System constraint</td></tr<>	Data is not available Data is not available Data is not available Data is not available 0.024 0.000 4.298 0.024 0.000 0.021 0.002 0.002 0.003 0.022 0.003 Data is not available	Data is not available Data is not available Data is not available Data is not available Its.957 Its.667 Its.967 Its.96	System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint
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11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:58 11/11/2017 5:10 11/11/2017 5:10 11/11/2017 14:58 11/12/2017 14:58 11/12/2017 1:15 11/12/2017 1:15 11/12/2017 125 11/13/2017 15:53 11/13/2017 15:53 11/14/2017 8:53 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 10:36 11/14/2017 11:44 11/14/2017 11:44	0.06 0.05 0.05 0.03 0.01 0.04 0.37 0.04 0.01 0.01 0.01 0.01 0.02 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.01 0.01 0.01 0.01 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.01	ESB ESA ESB KWPII SA ESA ESA ESB KWPII ESA ESB KWPII AWE KWPII ESA ESB KWPII AWE KWPII AWE SA ESA ESA ESB ESB ESB ESB ESB ESB ESB ESB ESA ESB AWE AWE AWE AWE SA	Data is not available 0.024 0.000 4.298 0.024 0.000 0.001 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 Data is not available Data is not available Data is not available 0.015 Data is not available 0.029 0.002 0.002 0.001 0.011 61.785 0.002 Data is not available Data is not available Data is not available Data is not available 0.029 0.002 0	Data is not available 18.957 17.667 0.003 18.586 19.211 10.16.256 18.115 17.805 0.100 0.200 10.796 18.762 Data is not available	System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint
11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:58 11/11/2017 14:58 11/11/2017 5:10 11/11/2017 14:58 11/12/2017 14:58 11/12/2017 14:58 11/12/2017 14:53 11/12/2017 4:31 11/12/2017 4:53 11/12/2017 15:53 11/12/2017 15:53 11/12/2017 8:53 11/12/2017 9:02 11/12/2017 9:02 11/12/2017 9:02 11/12/2017 9:02 11/12/2017 9:11 11/12/2017 9:28 11/12/2017 9	0.06 0.05 0.05 0.03 0.04 0.37 0.04 0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	ESB ESA ESB KWPII SAWE AWE ESA ESA ESB KWPII ESA ESB KWPII AWE SA ESB KWPII AWE ESA ESA ESA ESB KWPII AWE ESA ESB AWE AWE AWE	Data is not available Data is not available Data is not available Data is not available 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.024 0.025 0.002 0.002 0.002 0.003 0.028 0.034 Data is not available Data is not available Data is not available 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	Data is not available 18.957 17.667 0.003 18.586 19.211 10.16.256 18.115 17.805 0.100 0.200 10.796 18.762 Data is not available	System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint
11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:58 11/11/2017 14:58 11/11/2017 5:10 11/11/2017 14:58 11/12/2017 1:15 11/12/2017 1:15 11/12/2017 1:15 11/12/2017 1:25 11/13/2017 1:25 11/13/2017 1:25 11/13/2017 1:25 11/14/2017 8:53 11/14/2017 8:53 11/14/2017 8:53 11/14/2017 8:53 11/14/2017 8:53 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:03 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 10:36 11/14/2017 10:36 11/14/2017 11:42	0.06 0.05 0.05 0.03 0.03 0.01 0.04 0.04 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.03	ESB ESA ESB KWPII AWE KWPII ESA ESA ESB KWPII ESA ESB KWPII AWE KWPII ESA ESB ESB ESB KWPII AWE KWPII AWE ESA ESB AWE AWE AWE AWE	Data is not available Data is not available Data is not available Data is not available 0.024 0.002 0.024 0.002 1.000 4.298 0.071 0.008 0.071 0.008 0.071 0.008 0.001 0.002 0.002 0.003 0.002 0.003 0.002 0.003 Data is not available Data is not available 0.015 Data is not available 0.012 0.013 Data is not available Data is not a	Data is not available 116.256 117.805 117.805 117.805 117.805 117.805 117.805 117.805 117.805 117.805 117.805 117.805 118.762 Data is not available	System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint
11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:57 11/10/2017 14:58 11/11/2017 5:10 11/11/2017 5:10 11/11/2017 14:58 11/12/2017 14:58 11/12/2017 1:15 11/12/2017 1:15 11/12/2017 125 11/13/2017 15:35 11/13/2017 15:35 11/14/2017 8:53 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:02 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 9:28 11/14/2017 10:36 11/14/2017 11:34 11/14/2017 11:44 11/14/2017 11:46	0.06 0.05 0.05 0.03 0.01 0.04 0.37 0.04 0.01 0.01 0.01 0.01 0.02 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.01 0.01 0.01 0.01 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.01	ESB ESA ESB KWPII SA ESA ESA ESB KWPII ESA ESB KWPII AWE KWPII ESA ESB KWPII AWE KWPII AWE SA ESA ESA ESB ESB ESB ESB ESB ESB ESB ESB ESA ESB AWE AWE AWE AWE SA	Data is not available 0.024 0.000 4.298 0.024 0.000 0.001 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 Data is not available Data is not available Data is not available 0.015 Data is not available 0.029 0.002 0.002 0.001 0.011 61.785 0.002 Data is not available Data is not available Data is not available Data is not available 0.029 0.002 0	Data is not available 18.957 17.667 0.003 18.586 19.211 10.16.256 18.115 17.805 0.100 0.200 10.796 18.762 Data is not available	System constraint System constraint System constraint System constraint Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply System constraint

Data is not available

System constraint

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November 2017



					T
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/14/2017 11:54	0:02	5A	Data is not available	Data is not available	System constraint
11/14/2017 11:54	0:03	KWP	0.228	19.672	System constraint
11/14/2017 11:57	0:05	5A	Data is not available	Data is not available	System constraint
11/14/2017 11:58	0:02	BS	Data is not available	Data is not available	System constraint
11/14/2017 11:58	0:06	KWP	0.565		System constraint
11/14/2017 12:01	0:02	BS	Data is not available	Data is not available	System constraint
					· ·
11/14/2017 12:03	0:01	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:04	0:05	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:06	0:02	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:07	0:02	KWP	0.148	19.672	System constraint
11/14/2017 12:09	0:03	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:10	0:01	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:10	0:01	KWP	0.065	19.672	System constraint
11/14/2017 12:12	0:01	KWP	0.085	19.672	System constraint
11/14/2017 12:13	0:02	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:13	0:02	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:14	0:02	KWP	0.133		System constraint
11/14/2017 12:16		5A	Data is not available	Data is not available	System constraint
	0:03				
11/14/2017 12:16	0:03	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:17	0:04	KWP	0.291		System constraint
11/14/2017 12:20	0:02	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:21	0:01	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:22	0:01	KWP	0.061	19.672	System constraint
11/14/2017 12:23	0:03	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:24	0:03	5A	Data is not available	Data is not available	System constraint
11/14/2017 12:24	0:03	KWP	0.156		System constraint
11/14/2017 12:28	0:01	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:28	0:02	KWP	0.110		System constraint
11/14/2017 12:28	0:02			Data is not available	· ·
		5A	Data is not available		System constraint
11/14/2017 12:31	0:03	BS	Data is not available	Data is not available	System constraint
11/14/2017 12:31	0:01	KWP	0.061		Oversupply
11/14/2017 12:33	0:01	5A	Data is not available	Data is not available	Oversupply
11/14/2017 12:33	0:01	KWP	0.054	19.672	Oversupply
11/14/2017 12:35	0:01	KWP	0.055	19.672	Oversupply
11/14/2017 12:36	0:02	BS	Data is not available	Data is not available	Oversupply
11/14/2017 12:37	0:03	KWP	0.148	19.672	Oversupply
11/14/2017 12:38	0:06	5A	Data is not available	Data is not available	Oversupply
11/14/2017 12:40	0:01	BS	Data is not available	Data is not available	Oversupply
11/14/2017 12:43	0:03	KWP	0.076		Oversupply
11/14/2017 12:45	0:06	BS	Data is not available	Data is not available	Oversupply
11/14/2017 12:47	0:01	5A	Data is not available	Data is not available	Oversupply
11/14/2017 12:47	0:03	KWP	0.077		Oversupply
11/14/2017 12:53	0:01	5A	Data is not available	Data is not available	Oversupply
11/14/2017 12:54	0:01	BS	Data is not available	Data is not available	Oversupply
11/14/2017 12:56	0:01	5A	Data is not available	Data is not available	Oversupply
11/14/2017 13:00	0:01	BS	Data is not available	Data is not available	Oversupply
11/14/2017 13:03	0:01	BS	Data is not available	Data is not available	Oversupply
11/14/2017 13:13	0:04	AWE	0.172	8.500	Oversupply
11/14/2017 13:21	0:11	AWE	0.528		Oversupply
11/14/2017 13:35	0:04	AWE	0.158		Oversupply
	0:57	ESA			
11/14/2017 13:45			Data is not available	Data is not available	Oversupply
11/14/2017 13:45	0:58	ESA	Data is not available	Data is not available	Oversupply
11/14/2017 13:45	0:57	ESB	Data is not available	Data is not available	Oversupply
11/14/2017 13:45	0:58	ESB	Data is not available	Data is not available	Oversupply
11/14/2017 13:46	1:46	KWPII	17.599		Oversupply
11/14/2017 14:59	0:33	ESA	Data is not available	Data is not available	Oversupply
11/14/2017 14:59	0:33	ESB	Data is not available	Data is not available	Oversupply
11/14/2017 14:59	0:32	ESA	Data is not available	Data is not available	Oversupply
11/14/2017 14:59	0:32	ESB	Data is not available	Data is not available	Oversupply
11/15/2017 4:24	0:05	KWPII	0.060		Oversupply
11/15/2017 7:54	0:08	ESA	Data is not available	Data is not available	System constraint
11/15/2017 7:54	0:08	ESB	Data is not available	Data is not available	System constraint
11/15/2017 7:54	0:03	ESA	Data is not available	Data is not available	· ·
					System constraint
11/15/2017 7:54	0:07	ESB	Data is not available	Data is not available	System constraint
11/15/2017 7:58	0:05	KWPII	0.099		System constraint
11/15/2017 8:22	0:06	ESA	Data is not available	Data is not available	System constraint
11/15/2017 8:22	0:07	ESA	Data is not available	Data is not available	System constraint
11/15/2017 8:22	0:06	ESB	Data is not available	Data is not available	System constraint
11/15/2017 8:22	0:07	ESB	Data is not available	Data is not available	System constraint
11/15/2017 8:25	0:06	KWPII	0.030		System constraint
11/15/2017 8:34	0:16	ESA	Data is not available	Data is not available	System constraint
11/15/2017 8:34	0:17	ESA	Data is not available	Data is not available	System constraint
11/15/2017 8:34	0:16	ESB	Data is not available	Data is not available	System constraint
11/15/2017 8:34	0:17	ESB	Data is not available	Data is not available	System constraint
11/15/2017 8:37	0:15	KWPII	0.273		System constraint
11/15/2017 8:55	0:49	ESA	Data is not available	Data is not available	System constraint
		ESB	Data is not available	Data is not available	System constraint
11/15/2017 8:55	0:49				System constraint
11/15/2017 8:55 11/15/2017 8:57	0:49	KWPII	5.977	19.211	
		KWPII ESA	5.977 Data is not available	19.211 Data is not available	System constraint
11/15/2017 8:57	0:50				· ·
11/15/2017 8:57 11/15/2017 9:46 11/15/2017 9:46	0:50 0:01 0:01	ESA	Data is not available Data is not available	Data is not available Data is not available	System constraint System constraint
11/15/2017 8:57 11/15/2017 9:46	0:50	ESA ESB ESA	Data is not available	Data is not available Data is not available	System constraint

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Start Date and Time 11/15/2017 9:49						
11/15/2017 0-/0	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Cu	rtailed	Reasons for Curtailment
11/13/2017 3.49	0:01	ESB	Data is not available	Data is not availa	ole	System constraint
11/15/2017 9:49	0:02	ESB	Data is not available	Data is not availa	ole	System constraint
11/15/2017 9:50	0:01	KWPII	0.	001	19.211	System constraint
11/15/2017 9:53	6:38	ESA	Data is not available	Data is not availa		System constraint
11/15/2017 9:53	6:39	ESA	Data is not available	Data is not availa		System constraint
11/15/2017 9:53		ESB				
	6:38		Data is not available	Data is not availa		System constraint
11/15/2017 9:53	6:39	ESB	Data is not available	Data is not availa		System constraint
11/15/2017 9:56	6:36	KWPII	102.			System constraint
11/15/2017 10:45	0:01	AWE	0.	000	20.100	System constraint
11/15/2017 10:48	0:01	AWE	0.	008	20.300	System constraint
11/15/2017 10:51	0:01	AWE	0	002	20.100	System constraint
11/15/2017 10:53	3:33	AWE	24.			System constraint
11/15/2017 13:21	0:02	5A	Data is not available	Data is not availa		System constraint
11/15/2017 13:28	0:02	BS	Data is not available	Data is not availa	ole	System constraint
11/15/2017 14:27	0:04	AWE	0.	999	18.200	System constraint
11/15/2017 14:32	0:03	AWE	0.	045	18.900	System constraint
11/15/2017 14:36	0:02	AWE	0.)14	19.700	System constraint
11/15/2017 23:23	1:53	KWPII	11.		19.211	
	0:06			084		
11/16/2017 1:17		KWPII				Oversupply
11/16/2017 1:24	0:05	KWPII)40	19.211	
11/16/2017 1:30	0:01	KWPII	0.	005	19.211	Oversupply
11/16/2017 2:22	0:27	KWPII	2.)73	19.211	Oversupply
11/16/2017 4:00	0:33	KWPII	0.	972	19.211	Oversupply
11/16/2017 4:26	0:01	AWE		002		Oversupply
11/16/2017 7:05	2:29	ESA	Data is not available	Data is not availa		System constraint
11/16/2017 7:05	2:30	ESA	Data is not available	Data is not availa		System constraint
11/16/2017 7:05	2:29	ESB	Data is not available	Data is not availa	ole	System constraint
11/16/2017 7:05	2:30	ESB	Data is not available	Data is not availa	ole	System constraint
11/16/2017 7:08	7:19	KWPII	133.	44	19.211	System constraint
11/16/2017 8:06	0:01	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:09	0:01	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:13	0:01	BS	Data is not available	Data is not availa		System constraint
11/16/2017 8:16	0:05	BS	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:17	0:01	5A	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:19	0:01	5A	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:21	0:04	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:24	0:04	BS	Data is not available	Data is not availa		
						System constraint
11/16/2017 8:26	0:03	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:26	0:01	BS	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:26	0:02	AWE	0.	003	0.100	System constraint
11/16/2017 8:28	0:04	BS	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:29	0:02	AWE	0.	006	0.200	System constraint
11/16/2017 8:33	0:03	BS	Data is not available	Data is not availa		System constraint
11/16/2017 8:35	0:01	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:37	0:02	5A	Data is not available	Data is not availa		System constraint
11/16/2017 8:40	0:29	5A	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:42	0:01	BS	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:44	0:02	BS	Data is not available	Data is not availa	ole	System constraint
11/16/2017 8:47	0:29	BS	Data is not available	Data is not availa	ble	System constraint
11/16/2017 8:47	0:03			084		
11/16/2017 8:51		KWP			19 672	
		KWP				System constraint
	0:01	KWP	0.	041	19.672	System constraint System constraint
11/16/2017 8:53	0:01 0:03	KWP KWP	0.)41 14	19.672 19.672	System constraint System constraint System constraint
11/16/2017 8:57	0:01 0:03 0:03	KWP KWP KWP	0. 0. 0.	041 114 166	19.672 19.672	System constraint System constraint System constraint System constraint
	0:01 0:03	KWP KWP	0. 0. 0.)41 14	19.672 19.672	System constraint System constraint System constraint
11/16/2017 8:57	0:01 0:03 0:03	KWP KWP KWP	0. 0. 0.	041 114 166	19.672 19.672 19.672	System constraint System constraint System constraint System constraint System constraint
11/16/2017 8:57 11/16/2017 9:01	0:01 0:03 0:03 0:03	KWP KWP KWP KWP	0. 0. 0.	041 114 166 244	19.672 19.672 19.672 19.672 19.672	System constraint System constraint System constraint System constraint System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10	0:01 0:03 0:03 0:03 0:04 0:04	KWP KWP KWP KWP SA	0. 0. 0. 0. 0. Data is not available	041 114 166 244 299 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 ble	System constraint System constraint System constraint System constraint System constraint System constraint System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10	0:01 0:03 0:03 0:03 0:04 0:04 0:04	KWP KWP KWP KWP 5A KWP	0. 0. 0. 0. 0. 0. 0. Data is not available 0.	041 114 166 244 299 Data is not availa 529	19.672 19.672 19.672 19.672 19.672 0le 19.672	System constraint System constraint System constraint System constraint System constraint System constraint System constraint System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10	0:01 0:03 0:03 0:04 0:04 0:05 0:26	KWP KWP KWP KWP 5A KWP AWE	0. 0. 0. 0. Data is not available 0. 0.	041 114 166 244 249 Data is not availa 259 775	19.672 19.672 19.672 19.672 19.672 19.672 0le 19.672 7.100	System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:16	0:01 0:03 0:03 0:04 0:04 0:05 0:26 0:11	KWP KWP KWP KWP 5A KWP AWE KWP	0. 0. 0. 0. 0. Data is not available 0. 0. 1.	041 114 166 169 244 249 Data is not availa 529 777	19.672 19.672 19.672 19.672 19.672 0le 19.672 7.100 19.672	System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:16 11/16/2017 9:17	0:01 0:03 0:03 0:04 0:04 0:05 0:26 0:11 0:04	KWP KWP KWP KWP SA KWP AWE KWP SA	0. 0. 0. 0. Data is not available 0. 0.	041 114 166 244 249 Data is not availa 259 775	19.672 19.672 19.672 19.672 19.672 0le 19.672 7.100 19.672	System constraint
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:16	0:01 0:03 0:03 0:04 0:04 0:05 0:26 0:11	KWP KWP KWP KWP 5A KWP AWE KWP	0. 0. 0. 0. 0. Data is not available 0. 0. 1.	041 114 166 169 244 249 Data is not availa 529 777	19.672 19.672 19.672 19.672 19.672 19.672 0le 19.672 7.100 19.672 0le	System constraint
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11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:17 11/16/2017 9:17 11/16/2017 9:17	0.01 0.03 0.03 0.04 0.04 0.04 0.05 0.26 0.11 0.26 0.11 0.04 0.04 0.04	KWP KWP KWP SA SA KWP AWE KWP SA BS SA SA	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. Data is not available Data is not available Data is not available	041 114 166 244 299 Data is not availa 299 275 277 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 19.672 7.100 19.672 0le 0le	System constraint
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11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:01 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:17 11/16/2017 9:17 11/16/2017 9:22 11/16/2017 9:23 11/16/2017 9:23 11/16/2017 9:23 11/16/2017 9:33 11/16/2017 9:33 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:59 11/16/2017 14:59 11/16/201	0:01 0:03 0:03 0:04 0:04 0:05 0:26 0:11 0:04 0:02 0:04 0:02 0:04 0:02 0:10 0:02 0:10 0:28 0:28 0:28 0:28 0:28 0:28 0:03 0:03 0:03 0:03 0:03 0:03 0:03 0:0	KWP KWP KWP 5A KWP 5A KWP 5A BS 5A BS 5A BS 5A BS 5A BS 5A KWP BS BS SA KWP BS BS ESA ESB ESA ESB ESA ESA ESA	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	b41 114 166 244 129 Data is not availa 529 75 77 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 0le 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le	System constraint System const
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:17 11/16/2017 9:17 11/16/2017 9:22 11/16/2017 9:25 11/16/2017 9:25 11/16/2017 9:29 11/16/2017 9:29 11/16/2017 9:33 11/16/2017 9:41 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:59 11/16/2017	0:01 0:03 0:03 0:03 0:04 0:04 0:04 0:04 0:04	KWP KWP KWP SA KWP AWE KWP SA BS SA BS SA BS SA BS SA BS SA BS SA ESB ESA ESB ESA ESB ESA ESB	0. Data is not available Data is not available 0. Data is not available Data is not available	b41 114 1166 114 1166 114 1166 114 1166 114 1166 1167 1168 1177 1177 1111 1111	19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 0le 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le	System constraint System const
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:01 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:17 11/16/2017 9:17 11/16/2017 9:22 11/16/2017 9:23 11/16/2017 9:23 11/16/2017 9:23 11/16/2017 9:33 11/16/2017 9:33 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:59 11/16/2017 14:59 11/16/201	0:01 0:03 0:03 0:04 0:04 0:05 0:26 0:11 0:04 0:02 0:04 0:02 0:04 0:02 0:10 0:02 0:10 0:28 0:28 0:28 0:28 0:28 0:28 0:03 0:03 0:03 0:03 0:03 0:03 0:03 0:0	KWP KWP KWP 5A KWP 5A KWP 5A BS 5A BS 5A BS 5A BS 5A BS 5A KWP BS BS SA KWP BS BS ESA ESB ESA ESB ESA ESA ESA	0. Data is not available Data is not available 0. Data is not available Data is not available	b41 114 166 244 129 Data is not availa 529 75 77 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 7.100 19.672 0le 0le 0le 19.672 0le	System constraint System const
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:05 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:17 11/16/2017 9:17 11/16/2017 9:22 11/16/2017 9:25 11/16/2017 9:25 11/16/2017 9:29 11/16/2017 9:29 11/16/2017 9:33 11/16/2017 9:41 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:59 11/16/2017	0:01 0:03 0:03 0:03 0:04 0:04 0:04 0:04 0:04	KWP KWP KWP SA KWP AWE KWP SA BS SA BS SA BS SA BS SA BS SA BS SA ESB ESA ESB ESA ESB ESA ESB	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	b41 114 116 166 244 299 Data is not availa 229 Data is not availa 230 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 0le 0le 0le 19.672 0le 0le 19.672 0le	System constraint System constraint <t< td=""></t<>
11/16/2017 8:57 11/16/2017 9:01 11/16/2017 9:01 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:10 11/16/2017 9:16 11/16/2017 9:16 11/16/2017 9:17 11/16/2017 9:24 11/16/2017 9:24 11/16/2017 9:29 11/16/2017 9:29 11/16/2017 9:29 11/16/2017 9:33 11/16/2017 9:33 11/16/2017 9:33 11/16/2017 9:33 11/16/2017 14:53 11/16/2017 14:53 11/16/2017 14:59 11/16/2017 1	0:01 0:03 0:03 0:03 0:04 0:04 0:05 0:26 0:11 0:04 0:04 0:04 0:02 0:04 0:02 0:04 0:02 0:04 0:02 0:04 0:02 0:02	KWP KWP KWP KWP 5A KWP AWE KWP 5A BS 5A BS 5A BS 5A BS SA BS SA BS SA BS SA ES BS ESA ESB ESA ESB ESA ESB ESA ESB ESA ESB ESA	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	b41 114 166 244 129 Data is not availa 129 Data is not availa 120 Data is not availa	19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 19.672 0le 19.672 0le 19.672 0le 19.672 0le 19.672 0le 0le </td <td>System constraint System const</td>	System constraint System const

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November 2017



Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/16/2017 15:36	0:01	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:36	0:02	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:38	0:08	KWPII	0.326	19.167	System constraint
11/16/2017 15:39	0:02	AWE	0.037	10.200	System constraint
11/16/2017 15:41	0:04	ESA	Data is not available	Data is not available	System constraint
11/16/2017 15:41	0:04	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:41	0:03	ESA	Data is not available	Data is not available	System constraint
11/16/2017 15:41	0:03	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:47	0:02	KWPII	0.017		System constraint
11/16/2017 15:48	0:02	ESA	Data is not available	Data is not available	System constraint
11/16/2017 15:48	0:11	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:48	0:12	ESA	Data is not available	Data is not available	System constraint
11/16/2017 15:48	0:12	ESB	Data is not available	Data is not available	System constraint
11/16/2017 15:51	0:09	KWPII	0.390		System constraint
11/16/2017 16:42	0:01	ESA	Data is not available	Data is not available	System constraint
11/16/2017 16:42	0:01	ESB	Data is not available	Data is not available	System constraint
11/16/2017 16:42	0:02	ESA	Data is not available	Data is not available	System constraint
11/16/2017 16:42	0:02	ESB	Data is not available	Data is not available	System constraint
11/16/2017 16:46	0:01	AWE	0.013	7.800	System constraint
11/16/2017 16:46	0:13	KWPII	0.835	19.193	System constraint
11/16/2017 16:57	0:01	ESA	Data is not available	Data is not available	System constraint
11/16/2017 16:57	0:02	ESA	Data is not available	Data is not available	
	0:02				System constraint
11/16/2017 16:57		ESB	Data is not available	Data is not available	System constraint
11/16/2017 16:57	0:02	ESB	Data is not available	Data is not available	System constraint
11/16/2017 17:02	0:01	KWPII	0.003		System constraint
11/16/2017 22:24	0:05	KWPII	0.049		Oversupply
11/16/2017 22:34	0:32	KWPII	1.121		Oversupply
11/16/2017 23:16	2:20	KWPII	20.283	19.211	Oversupply
11/17/2017 1:18	0:12	AWE	0.318		Oversupply
11/17/2017 1:38	1:13	KWPII	6.481		Oversupply
11/17/2017 2:52	0:20	KWPII	1.388		Oversupply
11/17/2017 3:14	0:06	KWPII	0.116		Oversupply
11/17/2017 3:23	0:07	KWPII	0.137		Oversupply
11/17/2017 3:32	0:03	KWPII	0.012		Oversupply
11/17/2017 3:40	0:01	KWPII	0.006		Oversupply
11/17/2017 3:48	0:33	KWPII	0.955		Oversupply
11/17/2017 4:22	0:02	KWPII	0.015		Oversupply
11/17/2017 4:25	0:02	KWPII	0.023	13.177	Oversupply
11/17/2017 13:00	0:01	ESA	Data is not available	Data is not available	System constraint
11/17/2017 13:00	0:01	ESB	Data is not available	Data is not available	System constraint
11/17/2017 13:00	0:02	ESA	Data is not available	Data is not available	System constraint
11/17/2017 13:00	0:02	ESB	Data is not available	Data is not available	System constraint
11/17/2017 13:01	0:01	KWPII	0.004		System constraint
11/18/2017 4:17	0:01	KWPII	0.002		System constraint
11/18/2017 14:45	0:02	AWE	0.003		System constraint
11/18/2017 14:49	0:02	AWE	0.002		System constraint
	0:01	AWE	0.002		System constraint
11/18/2017 15:02					
11/20/2017 12:25	0:01	AWE	0.002		Oversupply
11/20/2017 12:27	0:01	AWE	0.002		Oversupply
11/20/2017 12:29	0:01	AWE	0.002		Oversupply
11/20/2017 12:47	0:01	AWE	0.002	0.100	Oversupply
11/21/2017 9:49	0:01	KWP	0.325		Oversupply
11/21/2017 13:39	0:05	ESA	Data is not available	Data is not available	Oversupply
11/21/2017 13:39	0:06	ESA	Data is not available	Data is not available	Oversupply
11/21/2017 13:39	0:05	ESB	Data is not available	Data is not available	Oversupply
11/21/2017 13:39	0:06	ESB	Data is not available	Data is not available	Oversupply
11/21/2017 13:40	0:05	KWPII	0.165	14.718	System constraint
11/22/2017 11:36	0:11	ESA	Data is not available	Data is not available	System constraint
11/22/2017 11:36	0:11	ESB	Data is not available	Data is not available	System constraint
11/22/2017 11:36	0:12	ESA	Data is not available	Data is not available	System constraint
11/22/2017 11:36	0:12	ESB	Data is not available	Data is not available	System constraint
11/22/2017 11:37	0:12	KWPII	10.760		System constraint
11/22/2017 11:49	0:01	AWE	0.002		System constraint
11/22/2017 11:55	0:02	AWE	0.003		System constraint
11/22/2017 11:58	0:04	AWE	0.008		System constraint
	0:23	ESA	Data is not available	Data is not available	System constraint
11/22/2017 12:01			le chi chi nu c	1	
11/22/2017 12:01 11/22/2017 12:01	0:24	ESA	Data is not available	Data is not available	System constraint
	0:24 0:23	ESA ESB	Data is not available Data is not available	Data is not available Data is not available	System constraint System constraint
11/22/2017 12:01					
11/22/2017 12:01 11/22/2017 12:01	0:23	ESB	Data is not available	Data is not available Data is not available	System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02	0:23 0:24 0:01	ESB ESB 5A	Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available	System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:02	0:23 0:24 0:01 0:01	ESB ESB 5A AWE	Data is not available Data is not available Data is not available 0.001	Data is not available Data is not available Data is not available 0.300	System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05	0:23 0:24 0:01 0:01 0:01	ESB ESB 5A AWE AWE	Data is not available Data is not available Data is not available 0.001 0.001	Data is not available Data is not available Data is not available 0.300 0.100	System constraint System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05 11/22/2017 12:06	0:23 0:24 0:01 0:01 0:01 0:01	ESB ESB 5A AWE AWE KWP	Data is not available Data is not available Data is not available 0.001 0.001 0.002	Data is not available Data is not available Data is not available 0.300 0.100 19.672	System constraint System constraint System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05 11/22/2017 12:05 11/22/2017 12:09	0:23 0:24 0:01 0:01 0:01 0:01 0:01	ESB ESB 5A AWE AWE KWP BS	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available	System constraint System constraint System constraint System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05 11/22/2017 12:06 11/22/2017 12:00 11/22/2017 12:10	0:23 0:24 0:01 0:01 0:01 0:01 0:01 0:01 0:04	ESB ESB 5A AWE AWE KWP BS 5A	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available Data is not available	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available Data is not available	System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05 11/22/2017 12:06 11/22/2017 12:09 11/22/2017 12:10	0:23 0:24 0:01 0:01 0:01 0:01 0:01 0:04 0:04	ESB 5A AWE KWP BS 5A AWE	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available Data is not available 0.012	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available Data is not available 0.300	System constraint System constraint System constraint System constraint System constraint System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:03 11/22/2017 12:06 11/22/2017 12:09 11/22/2017 12:10 11/22/2017 12:15	0:23 0:24 0:01 0:01 0:01 0:01 0:04 0:04 0:03	ESB 5A AWE AWE KWP BS 5A AWE 5A	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available Data is not available 0.012 Data is not available	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available 0.300 Data is not available	System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:05 11/22/2017 12:06 11/22/2017 12:09 11/22/2017 12:10	0:23 0:24 0:01 0:01 0:01 0:01 0:01 0:04 0:04 0:0	ESB 5A AWE AWE KWP BS 5A AWE 5A AWE	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available Data is not available 0.012	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available 0.300 Data is not available	System constraint System constraint System constraint System constraint System constraint System constraint System constraint System constraint System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:03 11/22/2017 12:03 11/22/2017 12:06 11/22/2017 12:09 11/22/2017 12:10 11/22/2017 12:15	0:23 0:24 0:01 0:01 0:01 0:01 0:04 0:04 0:03	ESB 5A AWE AWE KWP BS 5A AWE 5A	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available Data is not available 0.012 Data is not available	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available 0.300 Data is not available	System constraint System const
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:02 11/22/2017 12:05 11/22/2017 12:06 11/22/2017 12:06 11/22/2017 12:01 11/22/2017 12:15 11/22/2017 12:15	0:23 0:24 0:01 0:01 0:01 0:01 0:01 0:04 0:04 0:0	ESB 5A AWE AWE KWP BS 5A AWE 5A AWE	Data is not available Data is not available Data is not available 0.001 0.001 0.002 Data is not available 0.012 Data is not available 0.012 Data is not available 0.012 Data is not available 0.005	Data is not available Data is not available Data is not available 0.300 0.100 19.672 Data is not available 0.300 Data is not available 0.200	System constraint
11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:01 11/22/2017 12:02 11/22/2017 12:05 11/22/2017 12:05 11/22/2017 12:06 11/22/2017 12:06 11/22/2017 12:16 11/22/2017 12:16 11/22/2017 12:15 11/22/2017 12:15	0:23 0:24 0:01 0:01 0:01 0:01 0:04 0:04 0:04 0:0	ESB ESB 5A AWE AWE BS 5A AWE 5A AWE BS	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 0.300 0.100 18.672 Data is not available 0.300 Data is not available 0.300 Data is not available Data is not available Data is not available	System constraint System const

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Maui Curtailment Report

November 2017

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/22/2017 12:26	0:02	BS	Data is not available	Data is not available	System constraint
11/22/2017 12:27	1:15	ESA	Data is not available	Data is not available	System constraint
11/22/2017 12:27	1:16	ESA	Data is not available	Data is not available	System constraint
11/22/2017 12:27	1:15	ESB	Data is not available	Data is not available	System constraint
11/22/2017 12:27	1:16	ESB	Data is not available	Data is not available	System constraint
11/22/2017 12:28	1:16	KWPII	12.509	18.166	System constraint
11/22/2017 12:35	0:01	5A	Data is not available	Data is not available	System constraint
11/22/2017 12:42	0:01	BS	Data is not available	Data is not available	System constraint
11/22/2017 14:06	1:07	ESA	Data is not available	Data is not available	System constraint
11/22/2017 14:06	1:08	ESA	Data is not available	Data is not available	System constraint
11/22/2017 14:06	1:07	ESB	Data is not available	Data is not available	System constraint
11/22/2017 14:06	1:08	ESB	Data is not available	Data is not available	System constraint
11/22/2017 14:07	1:08	KWPII	6.065		System constraint
11/22/2017 15:16	0:01	ESA	Data is not available	Data is not available	System constraint
11/22/2017 15:16	0:01	ESB	Data is not available	Data is not available	System constraint
11/22/2017 15:16	0:01	KWPII	0.008	19.208	System constraint
11/23/2017 1:07	4:03	KWPII	22.208	19.211	
11/23/2017 5:11	0:01	KWPII	0.002	19.192	Oversupply
11/23/2017 10:03	0:06	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 10:03	0:07	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 10:03	0:06	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 10:03	0:07	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 10:05	0:04	KWPII	0.094		Oversupply
11/23/2017 11:03	0:11	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 11:03	0:12	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 11:03	0:11	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 11:03	0:12	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 11:06	0:10	KWPII	0.464	19.211	
11/23/2017 11:30	0:36	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 11:30	0:36	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 11:30	0:35	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 11:30	0:35	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 11:33	0:34	KWPII	1.380	19.211	
11/23/2017 12:09	0:32	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 12:09	0:32	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 12:11	0:31	KWPII	2.178	19.211	
11/23/2017 12:43	0:13	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 12:43	0:14	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 12:43	0:13	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 12:43	0:14	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 12:43	0:15	KWPII	0.842		Oversupply
11/23/2017 13:04	0:24	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 13:04	0:24	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 13:04	0:25	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 13:04	0:25	ESB	Data is not available 2.552	Data is not available	Oversupply
11/23/2017 13:07 11/23/2017 13:43	0:22 0:03	ESA ESA	Data is not available	19.211 Data is not available	
11/23/2017 13:43	0:03	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 13:43	0:04	ESB	Data is not available	Data is not available	Oversupply Oversupply
11/23/2017 13:43	0:03	ESB		Data is not available	
11/23/2017 13:45	0:04	KWPII	Data is not available 0.003	19.211	Oversupply Oversupply
11/23/2017 14:23	0:02				Oversupply
11/23/2017 14:23	0:03	ESA ESB	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
11/23/2017 14:25	0:03	KWPII	0.019		Oversupply
11/23/2017 14:28	0:01	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 14:28	0:04	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 14:28	0:04	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 14:28	0:05	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 14:29	0:05	KWPII	0.088		Oversupply
11/23/2017 14:41	0:05	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 14:41	0:01	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 14:41	0:02	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 14:41	0:02	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 15:51	0:02	AWE	0.002		Oversupply
11/23/2017 17:15	0:01	AWE	0.003		Oversupply
11/23/2017 17:26	0:22	ESA	Data is not available	Data is not available	Oversupply
11/23/2017 17:26	0:22	ESB	Data is not available	Data is not available	Oversupply
11/23/2017 17:28	1:03	KWPII	8.781		Oversupply
11/23/2017 17:33	0:05	AWE	0.066		Oversupply
11/23/2017 17:42	0:03	AWE	0.054		Oversupply
11/23/2017 19:47	0:03	KWPII	0.024		Oversupply
11/23/2017 20:36	5:32	KWP	25.216		System constraint
11/24/2017 1:59	2:03	KWPII	3.764		Oversupply
11/24/2017 9:25	0:08	ESA	Data is not available	Data is not available	Oversupply
11/24/2017 9:25	0:08	ESB	Data is not available	Data is not available	Oversupply
11/24/2017 9:26	0:08	KWPII	0.241		Oversupply
11/24/2017 9:35	0:01	ESA	Data is not available	Data is not available	Oversupply
11/24/2017 9:35	0:01	ESB	Data is not available	Data is not available	Oversupply
11/24/2017 9:35	0:01	KWPII	0.005		Oversupply
11/24/2017 9:40	2:08	ESA	Data is not available	Data is not available	Oversupply
	2:09	ESA	Data is not available	Data is not available	Oversupply
11/24/2017 9:40					

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November 2017



Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
11/24/2017 9:40	2:09	ESB	Data is not available	Data is not available	Oversupply
11/24/2017 9:40	2:10	KWPII	27.326	19.211	Oversupply
11/24/2017 11:01	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:04	0:06	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:07	0:01	AWE	0.002		Oversupply
11/24/2017 11:08	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:10	0:07	KWP	0.367		Oversupply
11/24/2017 11:11	0:05	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:11	0:05	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:12 11/24/2017 11:16	0:03	AWE	0.008		Oversupply Oversupply
11/24/2017 11:17	0:05	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:18	0:04	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:19	0:05	KWP	0.659		Oversupply
11/24/2017 11:24	0:04	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:24	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:24	0:05	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:25	0:01	AWE	0.003		Oversupply
11/24/2017 11:25	0:01	KWP	0.120	19.672	Oversupply
11/24/2017 11:27	0:13	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:27	0:04	AWE	0.017		Oversupply
11/24/2017 11:27	0:04	KWP	0.468	19.672	
11/24/2017 11:31	0:01	BS KWP	Data is not available	Data is not available	Oversupply
11/24/2017 11:32 11/24/2017 11:32	0:01	AWE	0.141		Oversupply
11/24/2017 11:32	0:12	BS	0.588 Data is not available	5.400 Data is not available	Oversupply Oversupply
11/24/2017 11:34	0:12	KWP	1.125		Oversupply
11/24/2017 11:41	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 11:41	0:02	KWP	0.482		Oversupply
11/24/2017 11:45	0:01	AWE	0.001		Oversupply
11/24/2017 11:48	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:48	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 11:51	2:37	ESA	Data is not available	Data is not available	Oversupply
11/24/2017 11:51	2:38	ESA	Data is not available	Data is not available	Oversupply
11/24/2017 11:51	2:37	ESB	Data is not available	Data is not available	Oversupply
11/24/2017 11:51	2:38	ESB	Data is not available	Data is not available	Oversupply
11/24/2017 11:52	2:38	KWPII	49.595		Oversupply
11/24/2017 11:53 11/24/2017 11:54	0:11 0:02	AWE 5A	0.145		
11/24/2017 11:59	0:02	5A	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
11/24/2017 12:01	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:01	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:06	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:06	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:06	0:02	AWE	0.060	5.900	Oversupply
11/24/2017 12:09	0:01	AWE	0.001	5.500	Oversupply
11/24/2017 12:12	0:03	AWE	0.074	8.100	Oversupply
11/24/2017 12:18	0:06	AWE	0.252		Oversupply
11/24/2017 12:25	0:01	AWE	0.001		Oversupply
11/24/2017 12:28	0:28	AWE	1.531		Oversupply
11/24/2017 12:33	0:01	5A	Data is not available	Data is not available	Oversupply
11/24/2017 12:35 11/24/2017 12:42	0:06	5A 5A	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
11/24/2017 12:42	0:05	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:42	0:03	5A	Data is not available	Data is not available	Oversupply
11/24/2017 12:51	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 12:51	0:03		Data is not available	Data is not available	Oversupply
11/24/2017 12:57	0:22	AWE	0.436		Oversupply
11/24/2017 13:03	0:11	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:10	0:10	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:10	0:11	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:16	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:20	0:10	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:20	0:04	AWE	0.038		Oversupply
11/24/2017 13:23	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:23	0:02	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:25	0:59	AWE	5.105		Oversupply
11/24/2017 13:27	0:09	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:31	0:01	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:34	0:01	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:38	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:38	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:41	0:02	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:41	0:01	BS	Data is not available	Data is not available	Oversupply
	0:01	5A	Data is not available	Data is not available	Oversupply
11/24/2017 13:44			Date is not evaluable	Data is not available	Oversupply
11/24/2017 13:44 11/24/2017 13:45	0:01	BS	Data is not available	Bata to Hot available	
	0:01	BS	Data is not available	Data is not available	Oversupply
11/24/2017 13:45					
11/24/2017 13:45 11/24/2017 13:48	0:01	BS	Data is not available	Data is not available	Oversupply

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November 2017



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110020071102101 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Reasons for Curtailment</td>						Reasons for Curtailment
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192027 148 0.91 MPE 0.02 4.600 Oregany 192027 148 0.90 AME 0.00 1.000 Oregany 192027 148 0.91 AME Not an available Design or available 192027 142 0.91 CBA Not an available Design or available	11/24/2017 14:31	1:12	ESB	Data is not available	Data is not available	Oversupply
1102027 140 000 MAE 0.000 11020 Description 1102027 150 000 MAE 0.000 1120 Description 1102027 150 001 MAE MAE MAE MAE 1102027 150 010 MAE MAE MAE MAE 1102027 150 010 MAE MAE MAE MAE 1102027 152 010 MAE MAE MAE MAE 1102027 152 020 MAE MAE MAE MAE 1102027 153 020 MAE MAE MAE MAE 1102027 154 020 MAE MAE MAE MAE MAE 1102027 154 020 MAE MAE MAE MAE MAE 110	11/24/2017 14:32	1:12	KWPII	13.912	19.211	Oversupply
1.1.2007 1146 0.001 1.1.200 Prosegy 1.1.2007 1147 0.001	11/24/2017 14:38	0:01	AWE	0.002	6.400	Oversupply
1.1.2007 1146 0.001 1.1.200 Prosegy 1.1.2007 1147 0.001	11/24/2017 14:40	0:04	AWE	0.094	8.800	Oversupply
1192027 192 6.103 AMS Ball in a scaladia. 1192027 192 6.13 ESB Dels for acables. Dels for a scaladia. 1192027 192 6.13 ESB Dels for acables. Dels for acables. 1192027 192 6.10 ESB Dels for acables. Dels for acables. 1192027 192 6.10 AMS 0.02 Density. 1192027 192 6.10 AMS Density. Density. 1192027 192 6.20 AMS Density. Density. Density. 1192027 192 6.20 AMS Dels for acables. Density.						
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International NMP Aution Aut	11/24/2017 16:26	0:12	KWPII	0.428	19.211	Oversupply
International NMP Aution Aut	11/24/2017 18:29	0:01	AWE	0.003	0.200	Oversupply
113/20071232 0.01 Ar66 0.022 13.00 Demagdy 113/20071516 0.06 KOPH 0.00 12.211 Demagdy 113/20071516 0.06 KAP 0.00 12.211 Demagdy 113/20071546 0.01 EAA Demagdy Demagdy Demagdy 113/20071547 0.02 EAA Demagdy Demagdy Demagdy 113/20071548 0.02 EAA Demagdy Demagdy Demagdy 113/2007128 0.02 EAA Demagdy Demagdy Demagdy 113/2007128 0.03 EAA Demagdy Demagdy Demagdy 113/2007128 0.04 EAA Demagdy Demagdy Demagdy 113/2007128 0.04 EAA Demagdy Demagdy Demagdy 113/2007128 0.04 EAA Demagdy Demagdy Demagdy 113/2007129 0.04 AAG Demagdy Demagdy Demagdy 113/2007130 EAA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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1126207 #52 0.08 NVPI 0.403 1131207 1126207 #23 0.01 F5A Date or ovalable Date or ovalable Destrone valable Destrone valable 1126207 #24 0.43 F5A Date or ovalable Destrone valable Destrone valable 1126207 #27 0.43 F5A Date or ovalable Destrone valable Destrone valable 1126207 #34 0.40 AVP 0.01 11310 Oversegy 1125207 7 100 0.42 F5A Date or ovalable Destrone valable Oversegy 1125207 100 6.27 F5A Date or ovalable Date or ovalable Oversegy 1125207 100 6.27 E5A Date or ovalable Destrone valable Oversegy 1125207 100 6.27 E5A Date or ovalable Destrone valable Destrone valable Destrone valable 1125207 100 6.27 E5A Date or ovalable Destrone valable Destrone valable Destrone valable Destrone valable Destrone valable Destrone valable Destrone valab	11/25/2017 8:49	0:10	ESB	Data is not available	Data is not available	Oversupply
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11/28/2017 11:22 0:01 AWE 0:001 20:700 System constraint 11/28/2017 11:25 0:01 AWE 0:001 20:700 System constraint 11/28/2017 11:29 0:01 AWE 0:004 20:500 System constraint	11/28/2017 11:05	0:01	AWE	0.006	20.500	System constraint
11/28/2017 11:25 0:01 AWE 0.001 20.700 System constraint 11/28/2017 11:29 0:01 AWE 0.004 20.500 System constraint		0:01	AWE	0.001		
11/28/2017 11:29 0:01 AWE 0.004 20.500 System constraint						
11/28/2017 11:34 0:01 AWE 0.003 20.400 System constraint						
11/28/2017 11:36 0:02 AWE 0.012 20:400 System constraint						
11/29/2017 0:18 0:05 KWPII 0.197 17.714 Oversupply	11/29/2017 0:18	0:05	KWPII	0.197	17.714	Oversupply

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Maui Curtailment Report

November 2017

Otent Data and Time	Duration	IDD Quatellast	Estimate d Oustalla d MMU	Deels MIN Overtaile d	Desease for Quitellinest
Start Date and Time 11/29/2017 0:24	Duration 1:18	IPP Curtailed KWPII	Estimated Curtailed MWH 5.916	Peak MW Curtailed	Reasons for Curtailment Oversupply
11/29/2017 0:24	4:33	KWPII	39.134		Oversupply Oversupply
11/29/2017 8:15	4:33	KWP	22.580		Facility requested
11/29/2017 8:20	0:07	AWE	0.103		Oversupply
11/29/2017 8:33	0:02	AWE	0.040		Oversupply
11/29/2017 8:40	0:02	AWE	0.378		Oversupply
11/29/2017 8:49	4:31	KWPII	44.102		System constraint
11/29/2017 12:15	0:14	AWE	0.394		System constraint
11/29/2017 12:31	0:04	AWE	0.064		System constraint
11/29/2017 12:52	0:03	AWE	0.030		System constraint
11/29/2017 12:58	1:36	KWP	20.632	19.672	Facility requested
11/29/2017 21:17	0:08	KWPII	0.267	17.498	Oversupply
11/30/2017 2:40	0:37	KWPII	2.658	11.749	Oversupply
11/30/2017 3:21	0:10	KWPII	0.387	8.255	Oversupply
11/30/2017 3:37	0:13	KWPII	0.368	7.782	Oversupply
11/30/2017 4:18	1:25	KWPII	18.127	17.480	Oversupply
11/30/2017 4:19	0:03	AWE	0.024	20.900	Oversupply
11/30/2017 4:25	0:06	AWE	0.032	20.700	Oversupply
11/30/2017 4:35	0:01	AWE	0.007	20.800	Oversupply
11/30/2017 4:38	0:31	AWE	1.230	20.600	Oversupply
11/30/2017 5:13	0:24	AWE	0.587	20.800	Oversupply
11/30/2017 5:44	0:18	KWPII	2.599	16.378	Oversupply
11/30/2017 9:02	0:20	KWPII	0.602	14.942	Oversupply
11/30/2017 9:23	0:56	KWPII	5.610	16.042	Oversupply
11/30/2017 21:51	0:12	KWPII	0.854	16.473	System constraint
11/30/2017 22:40	0:01	KWPII	0.003	15.483	Oversupply
11/30/2017 22:42	0:03	KWPII	0.016	17.231	Oversupply
11/30/2017 22:47	0:20	KWPII	0.413	18.198	Oversupply
11/30/2017 23:08	0:01	KWPII	0.003	18.037	Oversupply
11/30/2017 23:10	0:01	KWPII	0.015	18.512	Oversupply
11/30/2017 23:13	0:13	KWPII	0.681	19.150	Oversupply
11/30/2017 23:31	0:29	KWPII	2.816	19.119	Oversupply
	Total Estim	nated Curtailed MWh	887.667		

- Curtailment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAAA Rent-A-Space Maui LTD ("5A"), Bioreal Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), Kaheawa Wind Power II ("KWPII") Bioreal Solar 250, LLC ("BS250"), Extra Spaces A ("ESA"), and Extra Spaces B ("ESB") may now be controlled by Maui Electric's Automatic Generation Control System ("AGC") or a Maui Electric operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ("CAVG") that Maui Electric can accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down ("ARRD"). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD). Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control will employ the lesser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic.

- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information provided by AWE, KWP, and KWPII. Maui Electric does not make any representation as to its accuracy.

- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, BS, BS 250, ESA, ESB, or MH.

- Curtailment signals sent to 5A, BS, BS250, ESA, or ESB during nightlime hours are not recorded as curtailment events because no energy generation is possible during that time.

- 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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November 2017

Maui Electric

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
11/1/2017 7:25	0:04	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 7:51	0:02	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 8:00	0:32	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 10:16	0:02	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 10:30	0:11	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 10:46	0:02	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 11:05	0:04	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 11:19	0:02	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/1/2017 11:53	0:02	LSR	Data is not available	Data is not available	
11/1/2017 12:33	0:02	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 12:46	0:03	LSR	Data is not available	Data is not available	Oversupply ·
11/1/2017 12:51	1:12	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 14:07	0:19	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/1/2017 14:27	0:29	LSR	Data is not available	Data is not available	
11/1/2017 14:57	0:02	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 15:00	0:25	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 15:47	0:39	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 16:27	0:04	LSR	Data is not available	Data is not available	Oversupply
11/1/2017 16:32	0:11	LSR	Data is not available	Data is not available	Oversupply
11/2/2017 7:33	0:49	LSR	Data is not available	Data is not available	Oversupply
11/2/2017 8:32	0:01	LSR	Data is not available	Data is not available	Oversupply
11/2/2017 8:34	0:56	LSR	Data is not available	Data is not available	Oversupply
				Data is not available	Oversupply
11/2/2017 9:31	4:08	LSR	Data is not available		
11/2/2017 13:40	2:18	LSR	Data is not available	Data is not available	Oversupply
11/2/2017 15:59	1:03	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 7:26	1:05	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 8:32	0:50	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/3/2017 9:23	0:24	LSR	Data is not available	Data is not available	
11/3/2017 9:51	0:01	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 9:55	0:16	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 10:14	0:01	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 10:17	0:04	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/3/2017 10:25	0:02	LSR	Data is not available	Data is not available	
11/3/2017 10:31	0:03	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 10:37	0:03	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 10:44	0:02	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 10:53	0:03	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/3/2017 11:02	0:06	LSR	Data is not available	Data is not available	
11/3/2017 11:23	1:02	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 12:39	0:05	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 12:49	0:03	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 13:03	0:04	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 13:10	0:12	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 13:25	0:29	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 13:55	0:03	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 14:10	0:08	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 14:19	0:00	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 14:26	0:22	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 14:53	0:02	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 15:22	0:01	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 15:24	0:01	LSR	Data is not available	Data is not available	Oversupply
11/3/2017 15:54	0:05	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 11:57	0:03	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 12:01	0:06	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 12:08	0:04	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 12:14	0:04	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 12:20				Data is not available	Oversupply
	0:01	LSR	Data is not available		
11/4/2017 12:22	0:02	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 12:51	0:01	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 13:04	0:02	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 13:09	0:01	LSR	Data is not available	Data is not available	Oversupply
	0:01		Data is not available	Data is not available	Oversupply
11/4/2017 13:13		LSR			
11/4/2017 15:19	0:01	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 15:54	0:04	LSR	Data is not available	Data is not available	Oversupply
11/4/2017 16:01	0:26	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 8:11	0:04	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 8:56	0:05	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 9:08	0:05	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 9:18	0:01	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 9:20	0:04	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 9:30	0:46	LSR	Data is not available	Data is not available	Oversupply
	0:14	LSR	Data is not available	Data is not available	Oversupply
11/5/2017 10:50	0.14	LOIN	Data is not available	Bata to not available	
11/5/2017 10:50 11/5/2017 11:05	0:14	LSR	Data is not available	Data is not available	Oversupply

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November 2017

Maui Electric

	-				
Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
11/6/2017 12:54	0:16	LSR	Data is not available	Data is not available	Oversupply
11/6/2017 13:14	0:11	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 13:41	0:01	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 14:08	0:08	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 14:17	0:02	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 14:39	0:02	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 14:50			Data is not available	Data is not available	Oversupply
	0:02	LSR			
11/7/2017 14:53	0:01	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 14:55	0:02	LSR	Data is not available	Data is not available	Oversupply
11/7/2017 15:19	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 8:43	0:22	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 9:06	0:09	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 9:17	0:35	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 9:56	1:24	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 11:25	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 11:41	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 12:27	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 13:50	0:02	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 13:55	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 14:03	0:05	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 14:24	0:02	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 14:27	0:01	LSR	Data is not available	Data is not available	Oversupply
		LSR		Data is not available	Oversupply
11/10/2017 15:08	0:01		Data is not available		
11/10/2017 15:15	0:02	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 15:21	0:05	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 15:28	0:01	LSR	Data is not available	Data is not available	Oversupply
11/10/2017 15:33	0:01	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 7:31	0:11	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 7:43	0:03	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 7:47	0:03	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/11/2017 7:57	0:08	LSR	Data is not available	Data is not available	
11/11/2017 8:23	0:03	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 8:27	0:18	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 9:18	0:01	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/11/2017 9:24	0:02	LSR	Data is not available	Data is not available	
11/11/2017 9:41	0:02	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 10:32	0:04	LSR	Data is not available	Data is not available	Oversupply
11/11/2017 11:27	0:03	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/11/2017 14:42	0:12	LSR	Data is not available	Data is not available	
11/13/2017 7:24	1:59	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 9:24	0:29	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 9:55	0:04	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/13/2017 10:05	0:01	LSR	Data is not available	Data is not available	
11/13/2017 10:17	0:10	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 10:29	0:02	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 10:55	0:10	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 11:19	0:02	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 11:56	0:09	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 12:51	0:05	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 13:23	0:01	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 13:29	0:02	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 13:44	0:05	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 13:50	0:15	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 14:06	0:36	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/13/2017 14:47	0:18	LSR	Data is not available	Data is not available	
11/13/2017 15:13	0:11	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 15:27	0:06	LSR	Data is not available	Data is not available	Oversupply
11/13/2017 15:35	0:01	LSR	Data is not available	Data is not available	Oversupply
					Oversupply
11/13/2017 15:48	0:03	LSR	Data is not available	Data is not available	
11/13/2017 15:54	0:49	LSR	Data is not available	Data is not available	Oversupply
11/14/2017 7:16	1:00	LSR	Data is not available	Data is not available	Oversupply
11/14/2017 8:17	0:16	LSR	Data is not available	Data is not available	Oversupply
11/14/2017 8:37	0:23	LSR	Data is not available	Data is not available	Oversupply
11/14/2017 9:01	2:27	LSR	Data is not available	Data is not available	Oversupply
11/14/2017 11:31	2:52	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 7:53	0:06	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 8:41	0:01	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 8:46	0:14	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 9:02	0:05	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 9:25	0:01	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 9:27	0:40	LSR	Data is not available	Data is not available	Oversupply
11/15/2017 10:08	0:01	LSR	Data is not available	Data is not available	Oversupply
				• • • • • • • • •	•

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November 2017

Maui Electric

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
11/16/2017 7:58	1:55	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 7:37	1:50	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 9:32	1:34	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 11:09	0:12	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 11:22	0:11	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 11:36	0:01	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 12:04	0:02	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 12:33	0:21	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 13:00	0:30	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 13:32	0:10	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 15:08	0:02	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 15:14	0:08	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 15:24	0:18	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 15:48	0:01	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 16:00	0:13	LSR	Data is not available	Data is not available	Oversupply
11/17/2017 16:15	0:22	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 7:38	2:13	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 9:57	0:10	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 10:16	0:01	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 10:34	0:05	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 10:41	0:01	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 10:47	0:03	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 11:04	0:01	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 11:19	0:05	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 11:25	0:03	LSR	Data is not available	Data is not available	Oversupply
11/18/2017 17:02	0:09	LSR	Data is not available	Data is not available	Oversupply
11/19/2017 7:30	1:32	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 8:09	0:01	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 8:22	0:22	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 8:45	1:07	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 9:58	0:06	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 10:07	0:32	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 10:43	0:24	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 11:10	0:08	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 11:23	1:37	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 13:06	0:44	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 13:52	0:05	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 14:01	1:02	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 15:10	0:27	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 15:43	0:02	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 7:33	2:41	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 10:25	0:01	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 10:28	0:13	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 10:43	2:58	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 13:47	0:03	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 14:05	0:10	LSR	Data is not available	Data is not available	Oversupply
11/21/2017 14:16	2:10	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 7:45	0:04	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 8:28	0:22	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 9:40	0:48	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 10:50	0:25	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 11:16	0:04	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 11:30	0:08	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 11:40	3:12	LSR	Data is not available	Data is not available	Oversupply
11/22/2017 14:53	1:16	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 7:41	1:07	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 8:50	0:03	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 8:56	0:03	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:01	0:02	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:06	0:05	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:12	0:05	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:18	0:04	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:24	0:02	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:28	0:05	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:35	0:13	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 9:49	1:31	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 11:22	0:23	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 11:47	0:20	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 12:14	1:49	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 14:04	0:15	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 14:21	0:08	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 14:31	0:03	LSR	Data is not available	Data is not available	Oversupply
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November 2017

Maui Electric

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
11/23/2017 14:36	0:08	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 14:47	0:05	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 14:53	0:05	LSR	Data is not available	Data is not available	Oversupply
11/23/2017 15:10	1:30	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 7:39	1:21	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 9:01	0:05	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 9:07	1:05	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 10:14	0:56	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 11:11	4:33	LSR	Data is not available	Data is not available	Oversupply
11/24/2017 15:45	0:55	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 7:49	0:03	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 7:54	0:01	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 7:57	0:01	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 8:01	0:05	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 8:07	0:20	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 8:28	1:35	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 10:28	0:47	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 11:17	0:14	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 11:32	0:02	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 11:36	0:15	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 11:54	0:01	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 11:57	0:03	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 12:01	0:43	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 12:45	0:46	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 13:32	0:08	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 13:41	0:02	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 13:47	0:27	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 14:20	0:02	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 14:23	0:42	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 15:07	0:12	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 15:21	0:26	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 15:54	0:01	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 15:59	0:06	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 16:07	0:05	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 16:16	0:02	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 16:19	0:03	LSR	Data is not available	Data is not available	Oversupply
11/25/2017 16:23	0:18	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 7:30	3:16	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 10:48	0:28	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 11:18	0:18	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 11:55	0:25	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 12:22	0:50	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 13:33	1:33	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 15:17	0:18	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 15:36	0:01	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 15:38	0:07	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 15:54	0:02	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 16:12	0:02	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 16:16	0:01	LSR	Data is not available	Data is not available	Oversupply
11/26/2017 16:20	0:01	LSR	Data is not available	Data is not available	Oversupply Oversupply
11/26/2017 16:23	0:08	LSR	Data is not available	Data is not available	Oversupply
11/27/2017 12:38	0:05	LSR	Data is not available	Data is not available	Oversupply
11/27/2017 14:30 11/28/2017 8:44	0:02	LSR	Data is not available	Data is not available	Oversupply
11/28/2017 8:44	0:02	LSR	Data is not available	Data is not available	Oversupply
11/28/2017 8:47	0:01	LSR	Data is not available	Data is not available	Oversupply
	0:21	LSR	Data is not available	Data is not available	Oversupply
11/28/2017 10:43 11/28/2017 12:18	0:10	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
11/28/2017 12:18	0:04	LSR	Data is not available	Data is not available	Oversupply
11/28/2017 14:12		LSR	Data is not available	Data is not available	Oversupply
11/28/2017 14:32	0:02	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 7:41	0:01	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 9:39	0:01	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 9:59	0:13	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 10:49	0:48	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 10:49	0:01	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 10:55	0:02	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 11:27	0:01	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 11:37	0:04	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 11:50	0:02	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 11:53	0:03	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 12:03	0:00	LSR	Data is not available	Data is not available	Oversupply
11/20/2017 12.03	0.02	2013		- 314 10 101 414114010	· · · ·

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November 2017



Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
11/29/2017 12:12	2:34	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 14:50	0:04	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 14:56	0:01	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 15:16	0:10	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 15:27	0:26	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 15:56	0:06	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 16:05	0:13	LSR	Data is not available	Data is not available	Oversupply
11/29/2017 16:37	0:03	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 7:41	1:14	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 9:00	0:01	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 9:05	0:04	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 9:22	0:07	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 9:33	0:17	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 10:52	0:02	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 11:01	0:23	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 11:27	0:15	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 11:58	0:09	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 12:22	0:02	LSR	Data is not available	Data is not available	Oversupply
11/30/2017 15:25	0:14	LSR	Data is not available	Data is not available	Oversupply

On June 27, 2012, Maui Electric notified LSR that although LSR has not operated in compliance with the revised ramp rate of 360 kW/minute, Maui Electric would conditionally allow LSR to operate at the allowed capacity of 1.2 MW while the Maui Electric-Lanai Diesel Operator was in the control room.

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
11/05/17 12:09	0.4 MW	11/05/17 13:41	0.0 MW	TGUHI1	Oversupply
11/06/17 01:50	19.6 MW	11/06/17 04:09	8.3 MW	Tawhiri	Oversupply
11/11/17 07:33	0.4 MW	11/11/17 14:42	0.0 MW	HRD	System constraint
11/24/17 12:11	0.6 MW	11/24/17 14:09	0.0 MW	TGUHI1	
11/24/17 12:18	0.2 MW	11/24/17 14:18	0.0 MW	WHCC	Oversupply
11/24/17 12:12	19.9 MW	11/24/17 14:03	19.6 MW	Tawhiri	
11/25/17 20:09	18.7 MW	11/27/17 05:48	18.7 MW	Tawhiri	Facility Requested
11/26/17 01:19	18.5 MW	11/26/17 05:07	18.5 MW	Tawhiri	Oversupply
11/27/17 01:12	18.5 MW	11/27/17 04:27	18.5 MW	Tawhiri	Oversupply

Hawai`i Electric Light Company Curtailment Report November 2017

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.

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