

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

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' monthly report for March 2018 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable 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 marisa.chun@hawaiianelectric.com to request a copy.

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

Sincerely,

Daniel G. Brown

Manager

Regulatory Non-Rate Proceedings

Enclosure

c: Service List

<sup>&</sup>lt;sup>1</sup> 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 March 31, 2018):

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

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

## <u>1b)</u> 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 March 31, 2018):

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

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

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

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 March.

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

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

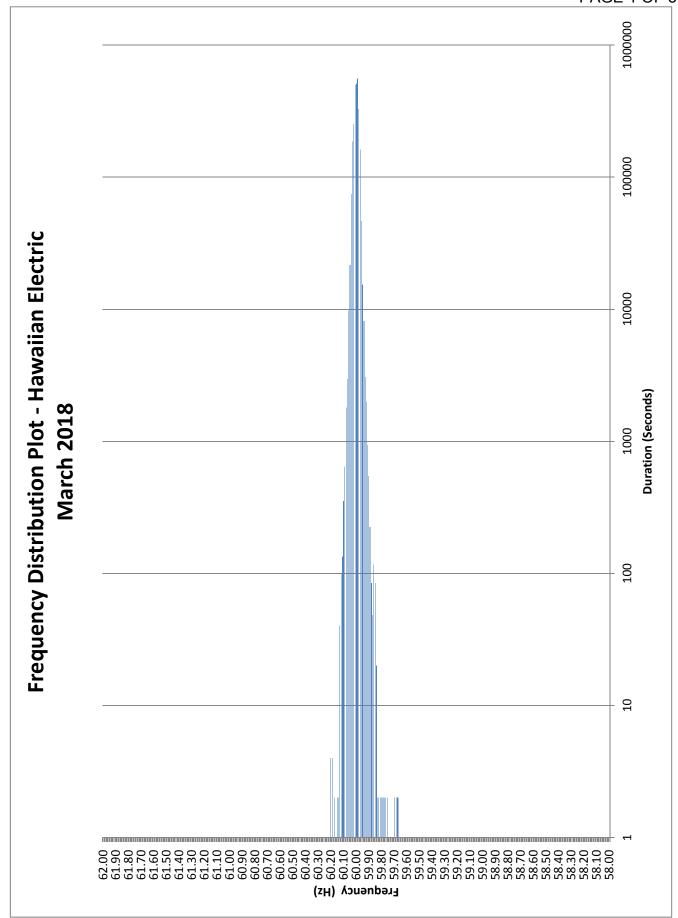
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending March 31, 2018):

# 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:

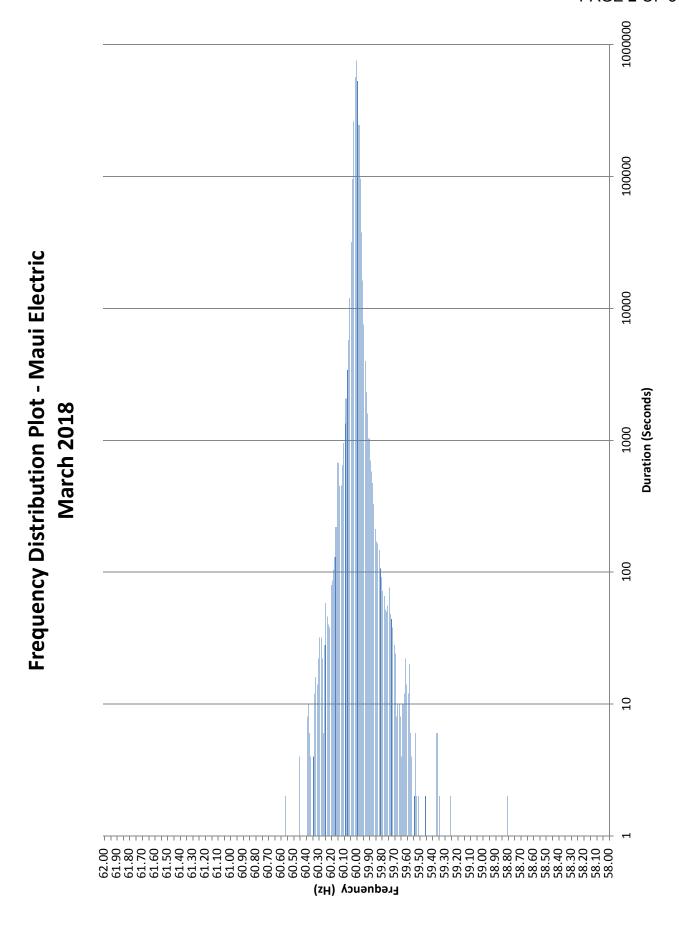
The tabulation of each curtailment event for each resource is provided in Attachment 6.

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

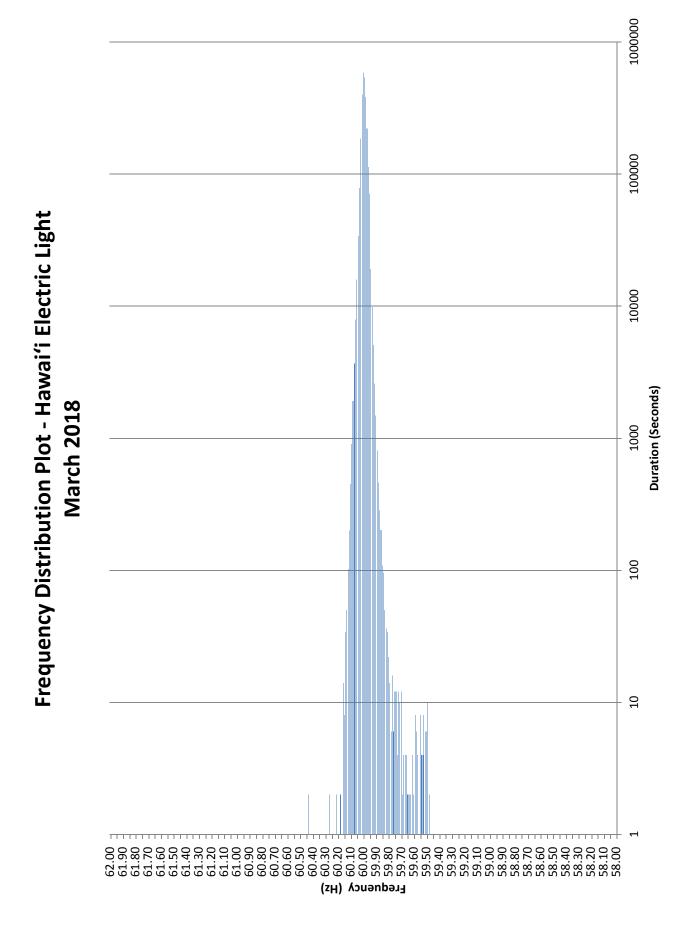
Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. The Hawaiian Electric Companies do not make any representations as to the 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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Hawaiian Electric Frequency Exc	ursion Stat	istics
March 2018		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	1535	2218
Maximum Duration (sec)	708	278
Maximum Deviation (Hz)	59.672	60.201
Total Duration of Excursions (sec)	20344	22568

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Maui Electric Frequency Excu	rsion Statist	ics
March 2018		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3584	2402
Maximum Duration (sec)	532	776
Maximum Deviation (Hz)	58.798	60.555
Total Duration of Excursions (sec)	26528	22130

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Hawai'i Electric Light Frequency Excursion Statistics						
March 2018						
	<59.95 Hz	>60.05 Hz				
Number of Excursions	10945	3264				
Maximum Duration (sec)	210	176				
Maximum Deviation (Hz)	59.481	60.433				
Total Duration of Excursions (sec)	78632	21812				

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#### HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS March 2018

		Fı	equency (H	(z)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Load Shed (MW)	Duration (HH:MM)	Description
1	03/15/18 18:39	60.00	59.68	59.70	NA	().()]	W10 tripped offline while generating ~34 MW. RDLC activated.

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# MAUI ELECTRIC COMPANY, LIMITED UNDERFREQUENCY LOADSHEDDING EVENTS March 2018

				F	requency (H	z)			
				Prior to		Levels UFLS	Load Shed	Duration	
Event #	IR#	Island	Date & Time	Event	Nadir	Occurred	(MW)	(HH:MM)	Description
1	152	Maui	3/4/2018 11:05 AM	59.62	58.66	58.7	5.54	0:06	A frequency depression of 58.66 Hz occurred when a sudden drop in wind and distributed PV generation occurred. Maalaea Power Plant M14 generator was unable to pick up load due to a Frequency Upset alarm.
_	101			33.02	50.00	5017	5.5 .	0.00	
2	167	Molokai	3/13/2018 1:29 AM	60.00	41.75	57.5	1.50	2:36	A frequency depression of 41.75 Hz occurred when a rat made contact between phases on Recloser 1463.

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### HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS

		Fı	requency (H	(z)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Load Shed (MW)	Duration (HH:MM)	Description
1	03/15/18 18:39	60.00	59.68	59.70	NA	1 (0.01	W10 tripped offline while generating ~34 MW. RDLC activated.

Hawaiian Electric Curtailment Report March 2018

			Hawanan	- ICCCI IC Cui taili	nent keport ivi	a1C11 2010	1
					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
03/01/18 06:29	0.0	0.00	03/01/18 19:51	0	*	North	System constraints
					*		,
03/01/18 06:30	0.0	0.00	03/01/18 19:52	0	*	South	System constraints
03/01/18 18:59	0.0	28.00	03/01/18 19:55	0		Mauka	System constraints
03/02/18 05:13	0.0	0.10	03/02/18 07:01	0	*	Waianae	System constraints
03/02/18 05:16	0.0	0.00	03/02/18 07:03	0	*	Aloha1	System constraints
03/02/18 05:27	0.0	0.00	03/02/18 08:42	0	*	North	System constraints
03/02/18 05:28	0.0	0.00	03/02/18 08:43	0	*	South	System constraints
03/03/18 06:28	0.0	0.00	03/03/18 07:20	0	*	Waianae	System constraints
03/03/18 06:29	0.0	0.00	03/03/18 07:12	0	*	Aloha1	System constraints
03/03/18 05:19	0.0	0.00	03/03/18 20:36	0	*	North	System constraints
				0	*		,
03/03/18 05:20	0.0	0.00	03/03/18 20:37		*	South	System constraints
03/03/18 19:17	0.0	0.00	03/04/18 08:20	0		Waianae	System constraints
03/03/18 19:22	0.0	0.00	03/03/18 20:06	0	*	Aloha1	System constraints
03/03/18 19:38	0.0	20.00	03/03/18 20:34	0	*	Mauka	System constraints
03/09/18 06:55	0.0	0.00	03/09/18 07:56	0	*	KREP	System constraints
03/09/18 14:09	15.0	27.23	03/09/18 15:04	0	*	Waianae	Oversupply
03/09/18 15:29	0.0	3.50	03/09/18 16:04	0	*	KREP	System constraints
03/10/18 05:03	0.0	0.00	03/10/18 10:04	0	*	Aloha1	System constraints
03/10/18 05:05	0.0	0.00	03/10/18 10:04	0	*	North	System constraints System constraints
					*		
03/10/18 05:05	0.0	0.00	03/10/18 10:06	0		South	System constraints
03/10/18 05:07	0.0	0.00	03/10/18 10:09	0	*	KLS2	System constraints
03/10/18 05:08	0.0	0.00	03/10/18 10:13	0	*	KREP	System constraints
03/10/18 05:50	0.0	4.50	03/10/18 10:37	0	*	Mauka	System constraints
03/10/18 05:50	0.0	0.10	03/10/18 10:36	0	*	Makai	System constraints
03/10/18 05:52	0.0	8.10	03/10/18 10:19	0	*	KWF	System constraints
03/10/18 11:37	0.0	13.30	03/10/18 15:06	0	*	Waianae	Oversupply
03/10/18 11:46	0.0	4.30	03/10/18 14:58	0	*	Aloha1	Oversupply
				0	*		
03/10/18 11:59	0.0	1.90	03/10/18 14:26		*	North	Oversupply
03/10/18 12:00	0.0	0.50	03/10/18 14:27	0		South	Oversupply
03/10/18 12:04	0.0	4.70	03/10/18 14:11	0	*	KREP	Oversupply
03/10/18 12:55	0.0	4.60	03/10/18 14:45	0	*	KLS2	Oversupply
03/11/18 05:15	0.0	0.00	03/11/18 10:16	0	*	Aloha1	System constraints
03/11/18 05:18	0.0	0.00	03/11/18 10:19	0	*	North	System constraints
03/11/18 05:18	0.0	0.00	03/11/18 10:18	0	*	KLS2	System constraints
03/11/18 05:18	0.0	0.00	03/11/18 10:18	0	*	KREP	System constraints
03/11/18 05:19	0.0	0.00	03/11/18 10:19	0	*	South	System constraints
					*		1
03/11/18 05:47	0.0	0.00	03/11/18 11:29	0	*	Mauka	System constraints
03/11/18 05:47	0.0	0.00	03/11/18 11:29	0		Makai	System constraints
03/11/18 05:49	0.0	7.00	03/11/18 11:41	0	*	KWF	System constraints
03/18/18 05:39	0.0	0.00	03/18/18 21:18	0	*	KREP	System constraints
03/18/18 06:14	0.0	0.00	03/18/18 07:25	0	*	Waianae	System constraints
03/18/18 06:17	0.0	0.00	03/18/18 07:26	0	*	Aloha1	System constraints
03/18/18 15:08	0.0	13.00	03/18/18 16:03	0	*	Waianae	System constraints
03/18/18 15:11	0.0	2.00	03/18/18 16:05	0	*	Aloha1	System constraints
03/19/18 07:40	0.0	0.00	03/19/18 20:00	0	*	KREP	System constraints System constraints
			03/20/18 07:02	0	*		·
03/20/18 06:23	0.0	0.00			*	KLS2	System constraints
03/20/18 15:34	0.0	0.00	03/20/18 17:02	0		KLS2	System constraints
03/21/18 09:36	0.0	4.00	03/21/18 10:38	0	*	KLS2	System constraints
03/21/18 09:43	0.0	1.70	03/22/18 08:08	0	*	KREP	System constraints
03/21/18 14:43	0.0	1.30	03/21/18 15:56	0	*	KLS2	System constraints
03/22/18 06:00	0.0	0.00	03/22/18 15:32	0	*	North	System constraints
03/22/18 06:01	0.0	0.00	03/22/18 15:34	0	*	South	System constraints
03/22/18 14:50	0.0	0.00	03/22/18 15:28	0	*	Mauka	System constraints
03/23/18 06:51	0.0	0.00	03/23/18 08:14	0	*	KREP	System constraints System constraints
					*		·
03/23/18 13:42	0.0	0.00	03/23/18 15:12	0		KREP	System constraints
03/31/18 06:42	0.0	0.00	03/31/18 07:10	0	*	KREP	System constraints
03/31/18 16:40	0.0	2.70	03/31/18 17:59	0	*	KLS2	System constraints
03/31/18 19:43	0.0	0.00	03/31/18 19:54	0	*	KREP	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

<sup>(1)</sup> 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.

<sup>\*</sup> Data has not been provided by IPP.

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#### Maui Curtailment Report

3/1/2018 3:23 3/1/2018 3:25 3/1/2018 3:25	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailmer
3/1/2018 3:25	0:01	KWPII	0.004	0.342	Oversupply
	0:01	AWE	0.001	20.700	Oversupply
0/4/0040 0:00	0:07	KWPII	0.036	0.531	Oversupply
3/1/2018 3:29	0:01	AWE	0.004	20.800	Oversupply
3/1/2018 3:34	0:01	KWPII	0.005	0.678	Oversupply
3/1/2018 10:29:00	0:24	BS250	Data is not available	Data is not available	Oversupply
3/1/2018 10:30	0:01	AWE	0.013	20.700	Oversupply
3/1/2018 10:30	1:34	KWPII	7.535	8.127	Oversupply
3/1/2018 10:32	1:31	AWE	14.135	21.000	Oversupply
3/1/2018 12:03:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/1/2018 12:05	0:02	KWPII	0.094	4.898	Oversupply
3/1/2018 12:09	0:12	KWPII	0.735	4.549	Oversupply
3/1/2018 12:10	0:05	AWE	0.135	20.800	Oversupply
3/1/2018 12:53:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/1/2018 12:58:00	0:04	BS250	Data is not available	Data is not available	Oversupply
3/1/2018 12:58	0:04	KWPII	0.069	2.010	Oversupply
3/1/2018 12:59	0:02	AWE	0.010	20.800	Oversupply
3/2/2018 11:21:00	0:12	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 11:21	0:13	KWPII	0.498	3.857	Oversupply
3/2/2018 11:34:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 11:35	0:02	KWPII	0.044	3.223	Oversupply
3/2/2018 11:46:00	0:05	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 11:46	0:12	KWPII	0.229	3.162	Oversupply
3/2/2018 11:48	0:02	AWE	0.021	17.500	Oversupply
3/2/2018 11:52:00	0:05	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 12:50:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 12:57:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 12:57	0:47	AWE	6.310	17.800	Oversupply
3/2/2018 12:57	0:50	KWPII	3.457	11.876	Oversupply
3/2/2018 13:28:00	0:19	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 16:35	0:01	KWPII	0.018	7.565	Oversupply
3/2/2018 16:38:00	0:20	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 16:39	0:19	KWPII	1.316	11.406	Oversupply
3/2/2018 16:59:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 17:00	0:01	KWPII	0.006	9.067	Oversupply
3/2/2018 17:12:00	0:22	BS250	Data is not available	Data is not available	Oversupply
3/2/2018 17:13	0:21	KWPII	1.187	11.519	Oversupply
3/2/2018 20:16	0:01	KWPII	0.010	9.420	Oversupply
3/2/2018 20:20	0:06	KWPII	0.250	10.892	Oversupply
3/2/2018 22:42	0:39	KWPII	5.249	18.633	Oversupply
3/2/2018 22:45	0:01	AWE	0.010	19.600	Oversupply
3/2/2018 22:49	0:06	AWE	0.037	19.900	Oversupply
3/2/2018 22:58	0:09	AWE	0.322	20.100	Oversupply
3/2/2018 23:09	0:08	AWE	0.287	20.600	Oversupply
3/2/2018 23:23	0:03	KWPII	0.172	11.171	Oversupply
3/2/2018 23:27	0:01	KWPII	0.007	9.394	Oversupply
3/2/2018 23:30	0:02	KWPII	0.019	8.926	Oversupply
3/2/2018 23:33	0:12	KWPII	0.626	11.774	Oversupply
3/2/2018 23:47	0:43	KWPII	5.837	13.558	Oversupply
3/3/2018 0:08	0:14	AWE	0.508	20.800	Oversupply
3/3/2018 14:05	0:01	KWPII	0.000	0.857	Oversupply
3/3/2018 17:25:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/3/2018 17:26	0:01	KWPII	0.047	18.899	
	0:01		0.017		Oversupply
3/3/2018 17:28:00		BS250	Data is not available		Oversupply Oversupply
3/3/2018 17:28:00 3/3/2018 17:51	0:01			Data is not available	Oversupply
3/3/2018 17:51	0:01	KWPII KWPII	0.003	Data is not available 19.167	Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47	0:01 0:16	KWPII KWPII	0.003 0.105	Data is not available 19.167 18.808	Oversupply Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06	0:01 0:16 0:31	KWPII KWPII KWPII	0.003 0.105 2.092	Data is not available  19.167  18.808  19.053	Oversupply Oversupply Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05	0:01 0:16 0:31 0:54	KWPII KWPII KWPII KWPII	0.003 0.105 2.092 12.901	Data is not available  19.167  18.808  19.053  18.911	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09	0:01 0:16 0:31 0:54 0:04	KWPII KWPII KWPII KWPII AWE	0.003 0.105 2.092 12.901 0.086	Data is not available  19.167  18.808  19.053  18.911  19.900	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33	0:01 0:16 0:31 0:54 0:04	KWPII KWPII KWPII KWPII AWE AWE	0.003 0.105 2.092 12.901 0.086 0.484	Data is not available  19.167  18.808  19.053  18.911  19.900  20.100	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49	0:01 0:16 0:31 0:54 0:04 0:23	KWPII KWPII KWPII KWPII AWE AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:03 3/4/2018 1:49 3/4/2018 1:55	0:01 0:16 0:31 0:54 0:04 0:22 1:39	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII	0.003 0.105 2.092 12.901 0.086 0.484 9.078 221.433 0.002	Data is not available  19.167  18.808  19.053  18.911  19.900  20.100  19.700  17.758  20.300  17.273	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 1:33 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 3:32 3/4/2018 3:52	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42	KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 11.7273 20.800	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:03	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE KWPII AWE AWE	0.003 0.105 2.092 11.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:03 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:03 3/4/2018 5:06 3/4/2018 5:06	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:03 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:03 3/4/2018 5:06 3/4/2018 5:47 3/4/2018 5:49	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01	KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 221.433 0.002 17.670 0.004 1.826 0.006 0.002	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.755 20.300 17.273 20.800 20.000 18.700 18.700 18.000	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 5:03 3/4/2018 5:03 3/4/2018 5:04 3/4/2018 5:05	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.002	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.700 18.900	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:03 3/4/2018 5:06 3/4/2018 5:47 3/4/2018 5:57 3/4/2018 6:20:00	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:01 0:02	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE AWE AWE AWE BS250	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.000 Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:00 3/4/2018 5:06 3/4/2018 5:07 3/4/2018 5:57 3/4/2018 5:57 3/4/2018 5:57 3/4/2018 5:57	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 17.585 20.300 17.273 20.800 20.000 18.700 18.900 18.900 Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:03 3/4/2018 5:49 3/4/2018 6:20:00 3/4/2018 6:20:00 3/4/2018 6:35:00	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05	KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.002 Data is not available Data is not available	Data is not available  19.167 18.808 19.063 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.700 18.000 Data is not available Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:03 3/4/2018 5:07 3/4/2018 6:05 3/4/2018 5:47 3/4/2018 6:20:00 3/4/2018 6:35:00 3/4/2018 6:35:00 3/4/2018 6:35 3/4/2018 6:35	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 22.14.33 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.585 20.300 20.000 18.700 18.700 18.900 Data is not available Data is not available Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:06 3/4/2018 5:07 3/4/2018 6:20:00 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:01 0:02 0:04 0:01 0:01 0:05	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE KWE AWE AWE AWE AWE BS250 BS250 KWPII KWPII	0.003 0.105 2.0992 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available 0.062 0.006 0.006	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.000 Data is not available Data is not available 16.795 15.499 15.550	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 20:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 3:32 3/4/2018 5:06 3/4/2018 5:06 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 9:19 3/4/2018 9:22 3/4/2018 9:51:00	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE AWE KWE AWE AWE AWE AWE AWE BS250 BS250 KWPII KWPII KWPII KWPII BS250	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available 0.062 0.006 0.0059 Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.900 18.900 Data is not available Data is not available 16.795 15.550 Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 20:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:06 3/4/2018 5:49 3/4/2018 6:20:00 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01 0:01 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII	0.003 0.105 2.0992 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available 0.062 0.006 0.006	Data is not available         19.167           18.808         19.053           19.053         18.911           19.900         20.100           19.700         19.700           17.585         20.300           17.273         20.800           20.000         18.700           18.000         18.900           Data is not available         16.795           15.499         15.550           Data is not available         7.805	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:03 3/4/2018 5:06 3/4/2018 5:47 3/4/2018 5:57 3/4/2018 6:20:00 3/4/2018 6:35:00 3/4/2018 6:35:00 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01 0:01 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 221.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available 0.662 0.006 0.0059 Data is not available 0.059 Data is not available 0.059 Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.700 18.900 Data is not available 16.795 15.499 15.550 Data is not available 7.805 Data is not available	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 20:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:03 3/4/2018 5:49 3/4/2018 6:20:00 3/4/2018 6:20:00 3/4/2018 6:35 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01 0:01 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.4333 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available Data is not available 0.062 0.006 0.0059 Data is not available	Data is not available         19.167           18.808         19.053           19.053         18.911           19.900         20.100           19.700         19.700           17.585         20.300           17.273         20.800           20.000         18.700           18.000         18.900           Data is not available         16.795           15.499         15.550           Data is not available         7.805	Oversupply
3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:55 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 5:03 3/4/2018 5:03 3/4/2018 5:47 3/4/2018 5:47 3/4/2018 6:20:00 3/4/2018 6:35 3/4/2018 6:35 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52 3/4/2018 9:52	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01 0:01 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE	0.003 0.105 2.092 12.901 0.086 0.484 9.078 221.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available 0.662 0.006 0.0059 Data is not available 0.059 Data is not available 0.059 Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.700 18.900 Data is not available 16.795 15.499 15.550 Data is not available 7.805 Data is not available	Oversupply
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3/3/2018 17:51 3/3/2018 21:47 3/3/2018 22:06 3/4/2018 0:05 3/4/2018 0:09 3/4/2018 0:09 3/4/2018 0:33 3/4/2018 1:49 3/4/2018 1:55 3/4/2018 3:32 3/4/2018 4:51 3/4/2018 5:06 3/4/2018 5:06 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:07 3/4/2018 5:57 3/4/2018 5:57 3/4/2018 6:35:00 3/4/2018 9:39 3/4/2018 9:59 3/4/2018 9:59 3/4/2018 9:59 3/4/2018 9:59 3/4/2018 9:59 3/4/2018 9:59 3/4/2018 9:59	0:01 0:16 0:31 0:54 0:04 0:23 1:39 1:45 0:01 1:42 0:02 0:40 0:01 0:01 0:01 0:01 0:02 0:13 0:05 0:04 0:01 0:01 0:01 0:01 0:05 0:04 0:01 0:01 0:01 0:01 0:01 0:01 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII AWE KWPII AWE KWPII AWE AWE AWE AWE AWE AWE AWE AWE AWE BS250 KWPII KWPII BS250 KWPII BS250 KWPII KWPII BS250 KWPII KWPII BS250 KWPII	0.003 0.105 2.092 12.901 0.086 0.484 9.078 21.433 0.002 17.670 0.004 1.826 0.006 0.002 0.004 Data is not available 0.062 0.059 Data is not available 0.216 Data is not available 0.216 Data is not available	Data is not available  19.167 18.808 19.053 18.911 19.900 20.100 19.700 17.585 20.300 17.273 20.800 20.000 18.700 18.000 18.900 Data is not available 16.795 15.590 Data is not available 7.805 Data is not available	Oversupply



#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/4/2018 10:23:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/4/2018 10:24	0:02	KWPII	0.052	7.417	Oversupply
3/4/2018 10:30:00		BS250	Data is not available	Data is not available	Oversupply
3/4/2018 10:31	0:04	AWE	0.137	20.200	Oversupply
3/4/2018 10:31	0:37	KWPII	3.181	7.528	Oversupply
3/4/2018 10:37	0:30	AWE	2.320	20.900	Oversupply
3/4/2018 10:50		KWP	0.103	6.808	Oversupply
3/4/2018 11:05	0:01	KWP	0.007	7.331	Oversupply
3/4/2018 11:06:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/4/2018 11:09	0:01	KWPII	0.052	4.007	Oversupply
3/4/2018 11:13		AWE	9.754	20.800	Oversupply
3/4/2018 11:14		KWPII	2.904	6.418	Oversupply
3/4/2018 11:19	0:03	KWP	0.076	9.775	Oversupply
3/4/2018 12:27	1:27	AWE	13.165	20.900	Oversupply
3/4/2018 12:31	1:23	KWPII	2.726	5.757	Oversupply
3/4/2018 13:54:00	0:04	BS250	Data is not available	Data is not available	Oversupply
3/4/2018 13:55	0:03	KWPII	0.169	10.206	Oversupply
3/4/2018 14:00:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/4/2018 14:01	0:01	KWPII	0.018	6.110	Oversupply
3/4/2018 14:07:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/4/2018 14:08	0:06	KWPII	0.496	6.620	Oversupply
3/4/2018 14:09	0:30	AWE	2.324	20.300	Oversupply
3/4/2018 14:17	0:27	KWPII	2.578	7.216	Oversupply
3/4/2018 20:09	0:01	KWPII	0.001	18.874	Oversupply
3/4/2018 20:13	0:07	KWPII	0.199	19.186	Oversupply
3/4/2018 22:09	0:01	KWPII	0.001	19.207	Oversupply
3/4/2018 22:11	0:29	KWPII	1.428	19.205	Oversupply
3/4/2018 22:51		KWPII	78.471	19.211	Oversupply
3/5/2018 0:54		AWE	0.511	17.700	Oversupply
3/5/2018 1:27	0:10	AWE	0.004	16.100	Oversupply
3/5/2018 1:32	0:01	AWE	0.001	16.000	Oversupply
3/5/2018 1:44		AWE	0.360	18.300	Oversupply
3/5/2018 2:05	0:44	AWE	2.618	19.800	Oversupply
3/5/2018 2:50	0:06	AWE	0.054	12.300	Oversupply
3/5/2018 2:58		AWE	0.003	11.600	Oversupply
3/5/2018 3:01	0:08	AWE	0.112	13.600	Oversupply
3/5/2018 3:10		AWE	0.023	12.600	Oversupply
3/5/2018 3:14	0:02	AWE	0.027	13.200	Oversupply
3/5/2018 3:18		AWE	0.005	11.900	Oversupply
3/5/2018 3:24	0:37	AWE	3.013	19.600	Oversupply
3/5/2018 3:24		AWE	0.098	15.900	Oversupply
3/5/2018 4:16	0:57	KWPII	4.937	19.211	Oversupply
3/5/2018 5:15	0:01	KWPII	0.002	19.159	Oversupply
3/5/2018 5:33	0:04	KWPII	0.077	18.836	Oversupply
3/5/2018 5:43	0:01	KWPII	0.001	18.933	Oversupply
3/5/2018 5:46		KWPII	0.012	19.181	Oversupply
3/5/2018 5:56	0:03	KWPII	0.033	19.209	Oversupply
3/5/2018 6:38:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/5/2018 6:39	0:02	AWE	0.043	8.400	Oversupply
3/5/2018 6:45		AWE	0.076	14.300	Oversupply
3/5/2018 6:57	0:03	AWE	0.019	15.400	Oversupply
3/5/2018 7:20	0:03	KWPII	0.952	19.211	Oversupply
3/5/2018 8:29		KWPII	142.170	19.211	Oversupply
3/5/2018 8:31	0:15	AWE	0.744	11.300	Oversupply
3/5/2018 8:49	0:05	AWE	0.116	9.400	Oversupply
3/5/2018 8:57	0:03	AWE	0.002	6.100	Oversupply
3/5/2018 9:00		AWE	0.002	6.200	Oversupply
3/5/2018 9:09	0:01	AWE	0.003	5.300	Oversupply
3/5/2018 9:11	0:02	AWE	0.003	4.100	Oversupply
3/5/2018 9:15		AWE	77.511	20.400	Oversupply
3/5/2018 9:59		KWP	0.624	27.572	Oversupply
3/5/2018 10:11		KWP	52.685	27.664	Oversupply
3/5/2018 13:14:00	1:03	BS	Data is not available	Data is not available	Oversupply
3/5/2018 13:14:00		BS	Data is not available	Data is not available	Oversupply
3/5/2018 14:23:00	2:15	BS250	Data is not available	Data is not available	Oversupply
3/5/2018 15:40		AWE	0.004	18.100	Oversupply
3/5/2018 15:42		AWE	0.200	20.700	Oversupply
3/5/2018 16:41:00		BS250	Data is not available	Data is not available	Oversupply
3/5/2018 16:41	0:01	KWPII	0.002	19.197	Oversupply
3/5/2018 17:12		KWPII	0.100	19.173	Oversupply
3/5/2018 18:29:00		BS250	Data is not available	Data is not available	Oversupply
3/5/2018 23:28		KWPII	58.621	19.211	Oversupply
3/5/2018 23:28		KWPII	0.244	19.211	
3/6/2018 6:51:00		BS250	Data is not available	Data is not available	Oversupply Oversupply
3/6/2018 7:29		KWPII	96.365	19.211	Oversupply
3/6/2018 7:29		AWE	96.365	8.400	
3/6/2018 9:36		AWE	27.829	18.900	Oversupply Oversupply
3/6/2018 9:36		KWP	0.023	26.696	Oversupply
3/6/2018 10:03		KWP	12.132	26.650	Oversupply
		AWE		17.200	
3/6/2018 12:40			0.006		Oversupply
3/6/2018 12:49		AWE	0.548	17.100	Oversupply
3/6/2018 13:15	0:37	AWE	1.492	16.900	Oversupply

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/6/2018 13:51:00	0:05	BS250	Data is not available	Data is not available	Oversupply
3/6/2018 13:57:00	1:46	BS250	Data is not available	Data is not available	Oversupply
3/6/2018 13:57	1:48	KWPII	18.012	19.193	Oversupply
3/6/2018 23:41	0:01	KWPII	0.002	18.703	Oversupply
3/6/2018 23:43	0:30	KWPII	1.475	19.058	Oversupply
3/7/2018 0:15	0:11	KWPII	0.252	18.355	Oversupply
3/7/2018 0:28	0:05	KWPII	0.048	17.544	Oversupply
3/7/2018 0:49	0:01	KWPII	0.007	17.020	Oversupply
3/7/2018 0:58		KWPII	0.116	17.299	Oversupply
3/7/2018 1:16		KWPII	0.027	17.261	Oversupply
3/7/2018 1:21	0:09	KWPII	0.082	16.461	Oversupply
3/7/2018 1:37		KWPII	6.467	17.506	Oversupply
3/7/2018 4:05	0:17	KWPII	0.446	17.349	Oversupply
3/7/2018 4:23	0:04	KWPII	0.045	17.083	Oversupply
3/7/2018 4:39	0:05	KWPII	0.074	17.114	Oversupply
3/7/2018 4:55	0:05	KWPII	0.056	17.786	Oversupply
3/7/2018 9:44:00	0:15	BS250	Data is not available	Data is not available	Oversupply
3/7/2018 9:45		KWPII	0.237	11.345	Oversupply
3/7/2018 10:01	0:07	KWPII	0.223	11.942	Oversupply
3/7/2018 10:03:00	0:04	BS250	Data is not available	Data is not available	Oversupply
3/7/2018 10:26:00		BS250	Data is not available	Data is not available	Oversupply
3/7/2018 10:26		KWPII	55.147	18.881	Oversupply
3/7/2018 11:16		AWE	0.008	8.200	Oversupply
3/7/2018 11:26	0:01	AWE	0.001	9.100	Oversupply
3/7/2018 11:29	0:08	AWE	0.151	9.700	Oversupply
3/7/2018 11:38		AWE	0.061	9.100	Oversupply
3/7/2018 11:43		AWE	0.025	10.800	Oversupply
3/7/2018 11:45		AWE	0.015	9.200	Oversupply
3/7/2018 11:54		AWE	0.013	11.100	Oversupply
3/7/2018 12:02		AWE	0.014	12.400	Oversupply
3/7/2018 12:07	0:02	AWE	0.017	11.400	Oversupply
3/7/2018 12:14		AWE	0.022	12.100	Oversupply
3/7/2018 12:19	0:43	AWE	1.617	14.000	Oversupply
3/7/2018 13:03	0:01	AWE	0.003	7.600	Oversupply
3/7/2018 13:05	0:56	AWE	2.289	15.400	Oversupply
3/7/2018 14:03	0:02	AWE	0.008	14.200	Oversupply
3/7/2018 14:06		AWE	0.053	15.300	Oversupply
3/7/2018 14:16	0:03	AWE	0.026	16.300	Oversupply
3/7/2018 14:25:00		BS250	Data is not available	Data is not available	Oversupply
3/7/2018 14:25	0:59	KWPII	10.266	18.392	Oversupply
3/7/2018 14:33		AWE	0.005	15.300	Oversupply
3/7/2018 15:25:00	0:06	BS250	Data is not available	Data is not available	Oversupply
3/7/2018 15:25	0:07	KWPII	0.164	18.123	Oversupply
3/7/2018 15:34	0:01	KWPII	0.016	18.115	Oversupply
3/7/2018 23:02	1:22	KWPII	7.266	18.113	Oversupply
3/8/2018 0:25	0:02	KWPII	0.010	16.741	Oversupply
3/8/2018 0:31	5:10	KWPII	42.770	19.033	Oversupply
3/8/2018 7:23:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 7:24	0:02	KWPII	0.009	19.058	
					Oversupply
3/8/2018 7:27:00		BS250	Data is not available	Data is not available	Oversupply
3/8/2018 7:28		KWPII	0.008	19.117	Oversupply
3/8/2018 7:29:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 7:31:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 7:34:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 7:34	2:35	KWPII	12.213	19.190	Oversupply
3/8/2018 7:38:00	0:23	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 8:02:00		BS250	Data is not available	Data is not available	Oversupply
3/8/2018 8:29:00		BS250	Data is not available	Data is not available	Oversupply
3/8/2018 10:32:00		BS250	Data is not available	Data is not available	Oversupply
3/8/2018 10:32:00		KWPII			
			18.890	19.049	Oversupply
3/8/2018 11:00:00		5A	Data is not available	Data is not available	Oversupply
3/8/2018 11:00:00		BS	Data is not available	Data is not available	Oversupply
3/8/2018 11:00:00		ESA	Data is not available	Data is not available	Oversupply
3/8/2018 11:01:00	0:02	MH	Data is not available	Data is not available	Oversupply
3/8/2018 11:01	0:02	AWE	0.025	0.800	Oversupply
3/8/2018 11:04:00	0:03	MH	Data is not available	Data is not available	Oversupply
3/8/2018 11:04		AWE	0.008	0.400	Oversupply
3/8/2018 11:06		KWP	0.011	17.459	Oversupply
3/8/2018 11:09:00		5A	Data is not available	Data is not available	Oversupply
3/8/2018 11:09:00		BS			
			Data is not available	Data is not available	Oversupply
3/8/2018 11:09:00		ESA	Data is not available	Data is not available	Oversupply
3/8/2018 11:09:00		MH	Data is not available	Data is not available	Oversupply
3/8/2018 11:10		AWE	0.017	0.400	Oversupply
3/8/2018 11:11	0:01	KWP	0.039	18.581	Oversupply
3/8/2018 11:12:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/8/2018 11:12:00		BS	Data is not available	Data is not available	Oversupply
3/8/2018 11:12:00		ESA	Data is not available	Data is not available	Oversupply
3/8/2018 11:12:00		MH	Data is not available	Data is not available	Oversupply
3/8/2018 11:15		AWE	0.004	0.300	
3/8/2018 11:15					Oversupply
	0:01	5A	Data is not available	Data is not available	Oversupply
		B			
3/8/2018 11:17:00 3/8/2018 11:17:00	0:01 0:01	BS ESA	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailmer
3/8/2018 11:19	0:01	AWE	0.003	0.200	Oversupply
3/8/2018 11:20:00	0:05	5A	Data is not available	Data is not available	Oversupply
3/8/2018 11:20:00	0:05	BS	Data is not available	Data is not available	Oversupply
3/8/2018 11:20:00	0:05	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 11:20:00	0:05	MH	Data is not available	Data is not available	Oversupply
3/8/2018 11:21	0:01	KWP	0.001	15.015	Oversupply
3/8/2018 11:22	0:03	AWE	0.007	0.300	Oversupply
3/8/2018 11:23	0:02	KWP	0.008	13.494	Oversupply
3/8/2018 12:27	0:22	KWPII	4.680	17.433	Oversupply
3/8/2018 12:33	0:03	AWE	0.068	5.100	Oversupply
3/8/2018 12:37:00	0:11	BS250	Data is not available	Data is not available	Oversupply
3/8/2018 12:40	0:01	AWE	0.011	4.700	Oversupply
3/8/2018 12:50:00	1:31	BS250 KWPII	Data is not available 22.886	Data is not available 18.523	Oversupply Oversupply
3/8/2018 12:51 3/8/2018 13:03	0:01	AWE	0.021	4.100	
3/8/2018 13:05	0:26	AWE	0.610	5.500	Oversupply Oversupply
3/8/2018 13:10:00	0:17	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:10:00	0:17	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:10:00	0:17	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:11:00	0:08	MH	Data is not available	Data is not available	Oversupply
3/8/2018 13:11	0:02	KWP	0.010	14.493	Oversupply
3/8/2018 13:14	0:03	KWP	0.200	16.967	Oversupply
3/8/2018 13:18	0:02	KWP	0.153	14.355	
3/8/2018 13:21	0:04	KWP	0.153	13.601	Oversupply Oversupply
3/8/2018 13:27	0:04	KWP	0.238	11.081	Oversupply
3/8/2018 13:29:00	0:04	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:29:00	0:02	BS	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/8/2018 13:29:00	0:02	ESA	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/8/2018 13:32:00	0:02	5A	Data is not available  Data is not available	Data is not available	Oversupply
3/8/2018 13:32:00	0:01	BS	Data is not available  Data is not available	Data is not available	Oversupply
3/8/2018 13:32:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:32	0:01	KWP	0.035	9.098	Oversupply
3/8/2018 13:32	0:10	AWE	0.147	2.300	Oversupply
3/8/2018 13:35:00	0:04	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:35:00	0:04	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:35:00	0:04	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:36	0:04	KWP	0.106	14.047	Oversupply
3/8/2018 13:40:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:40:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:40:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:41	0:01	KWP	0.041	13.694	Oversupply
3/8/2018 13:43:00	0:05	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:43:00	0:05	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:43:00	0:05	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:43	0:04	KWP	0.324	14.616	Oversupply
3/8/2018 13:43	0:07	AWE	0.070	0.900	Oversupply
3/8/2018 13:48	0:02	KWP	0.085	11.819	Oversupply
3/8/2018 13:49:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/8/2018 13:49:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:49:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:51:00	0:07		Data is not evallable		Oversupply
3/8/2018 13:51:00		5A	Data is not available	Data is not available	
	0:07	5A BS	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/8/2018 13:51:00					
3/8/2018 13:51:00 3/8/2018 13:51	0:07	BS	Data is not available	Data is not available	Oversupply Oversupply
	0:07 0:07	BS ESA	Data is not available  Data is not available	Data is not available Data is not available	Oversupply Oversupply Oversupply
3/8/2018 13:51	0:07 0:07 0:13	BS ESA AWE	Data is not available Data is not available 0.097	Data is not available Data is not available 1.100	Oversupply Oversupply Oversupply Oversupply
3/8/2018 13:51 3/8/2018 13:52	0:07 0:07 0:13 0:06	BS ESA AWE KWP	Data is not available  Data is not available  0.097  0.427	Data is not available Data is not available  1.100 14.862	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00	0:07 0:07 0:13 0:06 0:02	BS ESA AWE KWP 5A	Data is not available  Data is not available  0.097  0.427  Data is not available	Data is not available  Data is not available  1.100  14.862  Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00	0:07 0:07 0:13 0:06 0:02 0:02	BS ESA AWE KWP 5A BS	Data is not available  Data is not available  0.097  Data is not available  0.427  Data is not available  Data is not available	Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00	0:07 0:07 0:13 0:06 0:02 0:02 0:02	BS ESA AWE KWP 5A BS ESA	Data is not available  Data is not available  0.097  0.427  Data is not available  Data is not available  Data is not available  Data is not available	Data is not available  Data is not available  1.100  14.862  Data is not available  Data is not available  Data is not available  Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00	0.07 0.07 0.13 0.06 0.02 0.02 0.02 0.02	BS ESA AWE KWP 5A BS ESA KWP	Data is not available  Data is not available  0.097  0.427  Data is not available  Data is not available  Data is not available  0.074	Data is not available Data is not available  1.100 14.862 Data is not available Data is not available Data is not available Data is not available 12.987	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:00:00	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:02	BS ESA AWE KWP 5A BS ESA KWP 5A	Data is not available  Data is not available  0.097  Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:02	BS ESA AWE KWP 5A BS ESA KWP 5A BS	Data is not available  Data is not available  0.097  Data is not available	Data is not available  Data is not available  1.100  14.862  Data is not available  Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00	0.07 0.07 0.13 0.06 0.02 0.02 0.02 0.02 0.02 0.01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA ESA ESA	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:02 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA	Data is not available  Data is not available  0.097  0.427  Data is not available  O.011	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:02 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE	Data is not available  Data is not available  0.097  Data is not available  0.011	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:01 3/8/2018 14:07 3/8/2018 14:07	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE	Data is not available  Data is not available  0.097  Data is not available  0.011  0.000  0.004	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:07 3/8/2018 14:07	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:17 3/8/2018 14:21	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII	Data is not available  Data is not available  0.097  0.427  Data is not available  Data is not available  Data is not available  Data is not available  0.074  Data is not available  Data is not available  Data is not available  0.011  0.000  0.004  Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:07 3/8/2018 14:07 3/8/2018 14:22:00 3/8/2018 14:23 3/8/2018 14:23	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250	Data is not available  Data is not available  0.097  Data is not available  1.844  Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:07 3/8/2018 14:07 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:38	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:01 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII	Data is not available  Data is not available  0.097  Data is not available  1.844  Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:01 3/8/2018 14:02:01 3/8/2018 14:02:01 3/8/2018 14:02:01 3/8/2018 14:02:01 3/8/2018 14:02:01 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:38:00 3/8/2018 14:38:00 3/8/2018 14:38 3/8/2018 14:38 3/8/2018 15:03:00 3/8/2018 15:03:00	0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 15:03:00 3/8/2018 15:04	0.07 0.07 0.07 0.07 0.13 0.06 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII BS250 KWPII KWP	Data is not available	Data is not available	Oversupply
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3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 15:03:00 3/8/2018 15:03:00 3/8/2018 15:07 3/8/2018 15:07 3/8/2018 15:07	0:07 0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:01 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII BS250 KWPII KWP AWE	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:38:00 3/8/2018 14:38 3/8/2018 15:30 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:09 3/8/2018 15:09 3/8/2018 15:09 3/8/2018 15:09	0:07 0:07 0:07 0:07 0:08 0:08 0:09 0:09 0:09 0:09 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII BS250 KWPII BX250 KWPII	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:23 3/8/2018 14:38:00 3/8/2018 14:38:00 3/8/2018 15:03:00 3/8/2018 15:03:00 3/8/2018 15:03:00 3/8/2018 15:04 3/8/2018 15:07 3/8/2018 15:07 3/8/2018 15:07 3/8/2018 15:14 3/8/2018 15:22 3/8/2018 15:29:00	0.07 0.07 0.07 0.07 0.13 0.06 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE BS250 KWPII AWE AWE AWE AWE	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:07 3/8/2018 14:07 3/8/2018 14:22 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 14:33 3/8/2018 15:03:00 3/8/2018 15:03 3/8/2018 15:07 3/8/2018 15:09 3/8/2018 15:09 3/8/2018 15:14 3/8/2018 15:29 3/8/2018 15:29	0:07 0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE AWE AWE AWE AWE KWPII BS250 KWPII KWP AWE	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:07 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 15:03 3/8/2018 15:03:00 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:09 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29	0:07 0:07 0:07 0:07 0:07 0:08 0:08 0:09 0:02 0:02 0:02 0:01 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE AWE BS250 KWPII BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE KWPII KWP AWE KWP AWE AWE KWPII KWP AWE AWE KWPII KWP	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 15:03 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:09 3/8/2018 15:22 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:59 3/8/2018 15:29 3/8/2018 15:59 3/8/2018 15:59	0:07 0:07 0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE AWE BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE AWE KWPII BS250 KWPII KWP AWE	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:07 3/8/2018 14:07 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 15:03:00 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:09 3/8/2018 15:22 3/8/2018 15:29 3/8/2018 15:59	0.07 0.07 0.07 0.07 0.13 0.06 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE BS250 KWPII KWP AWE	Data is not available	Data is not available	Oversupply
3/8/2018 13:51 3/8/2018 13:52 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 13:59:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:02:00 3/8/2018 14:03 3/8/2018 14:03 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:23 3/8/2018 14:38 3/8/2018 15:30 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:04 3/8/2018 15:09 3/8/2018 15:22 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:29 3/8/2018 15:59 3/8/2018 15:59 3/8/2018 15:59 3/8/2018 15:59	0:07 0:07 0:07 0:07 0:13 0:06 0:02 0:02 0:02 0:02 0:01 0:01 0:01 0:01	BS ESA AWE KWP 5A BS ESA KWP 5A BS ESA KWP 5A BS ESA KWP AWE AWE AWE BS250 KWPII BS250 KWPII KWP AWE AWE AWE AWE AWE KWPII BS250 KWPII KWP AWE	Data is not available	Data is not available	Oversupply

## DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 6 OF 17



#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/9/2018 0:21	0:02	KWPII	0.003	18.906	Oversupply
3/9/2018 0:24 3/9/2018 0:27	0:01 4:50	KWPII KWPII	0.001 25.767	18.985 19.195	Oversupply Oversupply
3/9/2018 5:36	0:05	KWPII	0.059	19.188	Oversupply
3/9/2018 9:50:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/9/2018 9:50	0:18	KWPII	0.576	19.205	Oversupply
3/9/2018 10:11:00	0:04	BS250	Data is not available	Data is not available	Oversupply
3/9/2018 10:12	0:03	KWPII	0.032	19.205	Oversupply
3/9/2018 10:34:00	2:37	BS250	Data is not available	Data is not available	Oversupply
3/9/2018 10:36	1:33	KWPII	9.051	19.211	Oversupply
3/9/2018 12:10	0:16	KWPII	1.199	19.192	Oversupply
3/9/2018 12:28	3:37	KWPII	36.892	19.211	Oversupply
3/9/2018 13:21	0:04	KWP	0.193	23.945	Oversupply
3/9/2018 13:35	0:02	KWP	0.064	22.408	Oversupply
3/9/2018 13:52	0:03	AWE	0.016	2.600	Oversupply
3/9/2018 14:01	0:01	KWP	0.003	20.348	Oversupply
3/9/2018 14:03	0:01	KWP	0.021	20.548	Oversupply
3/9/2018 14:04	0:04	AWE	0.084	2.900	Oversupply
3/9/2018 14:05	0:02	KWP	0.023	19.964	Oversupply
3/9/2018 14:27	0:03	AWE	0.028	1.700	Oversupply
3/9/2018 14:41	0:09	AWE	0.077	3.200	Oversupply
3/9/2018 15:07	0:06	AWE	0.048	1.200	Oversupply
3/9/2018 15:08	0:03	KWP	0.047	23.222	Oversupply
3/9/2018 15:14	0:01	AWE	0.002	1.100	Oversupply
3/10/2018 0:18	0:05	KWPII	0.032	19.128	Oversupply
3/10/2018 0:36	3:02	KWPII	18.160	19.199	Oversupply
3/10/2018 3:39	1:24	KWPII	6.413	19.191	Oversupply
3/10/2018 5:23	0:02	KWPII	0.005	19.131	Oversupply
3/10/2018 8:41	0:01	KWPII	0.002	19.204	Oversupply
3/10/2018 8:45:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/10/2018 9:13:00	4:34	BS250	Data is not available	Data is not available	Oversupply
3/10/2018 9:14	5:49	KWPII	103.506	19.211	Oversupply
3/10/2018 9:42	0:02	AWE	0.033	8.100	Oversupply
3/10/2018 9:52	0:02	AWE	0.033	10.500	Oversupply
3/10/2018 9:58	0:28	AWE	1.477	11.100	Oversupply
3/10/2018 10:23:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:23:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:23:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 10:23:00	0:01	MH	Data is not available	Data is not available	Oversupply
3/10/2018 10:27:00 3/10/2018 10:27:00	0:05 0:05	5A BS	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/10/2018 10:27:00	0:05	ESA	Data is not available	Data is not available	Oversupply Oversupply
3/10/2018 10:27:00	0:05	MH	Data is not available  Data is not available	Data is not available	Oversupply
3/10/2018 10:27	0:47	AWE	1.709	8.000	Oversupply
3/10/2018 10:30	0:02	KWP	0.083	24.851	Oversupply
3/10/2018 10:33:00	0:04	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:33:00	0:04	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:33:00	0:04	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 10:33:00	0:03	MH	Data is not available	Data is not available	Oversupply
3/10/2018 10:33	0:02	KWP	0.110	23.899	Oversupply
3/10/2018 10:36	0:01	KWP	0.079	22.823	Oversupply
3/10/2018 10:38:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:38:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:38:00	0:03	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 10:38:00	0:01	MH	Data is not available	Data is not available	Oversupply
3/10/2018 10:40:00	0:01	MH	Data is not available	Data is not available	Oversupply
3/10/2018 10:40	0:02	KWP	0.043	22.162	Oversupply
3/10/2018 10:43:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:43:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:43:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 10:43:00	0:02	MH	Data is not available	Data is not available	Oversupply
3/10/2018 10:44	0:02	KWP	0.027	21.870	Oversupply
3/10/2018 10:46:00	0:04	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:46:00	0:04	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:46:00	0:04	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 10:47	0:05	KWP	0.217	22.346	Oversupply
3/10/2018 10:51:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:51:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 10:51:00	0:01	ESA	Data is not available	Data is not available	Oversupply
2/40/2040 40-50-00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 10:53:00		BS	Data is not available  Data is not available	Data is not available	Oversupply
3/10/2018 10:53:00	0:03	F0*	il lata is not available	Data is not available	Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00	0:03	ESA			
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53	0:03 0:03	KWP	0.284	23.991	Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53 3/10/2018 10:57:00	0:03 0:03 0:02	KWP 5A	0.284 Data is not available	Data is not available	Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53 3/10/2018 10:57:00 3/10/2018 10:57:00	0:03 0:03 0:02 0:02	KWP 5A BS	0.284 Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00	0:03 0:03 0:02 0:02 0:02	KWP 5A BS ESA	0.284  Data is not available  Data is not available  Data is not available	Data is not available  Data is not available  Data is not available	Oversupply Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00	0:03 0:03 0:02 0:02 0:02 0:02	KWP 5A BS ESA KWP	Data is not available  Data is not available  Data is not available  Data is not available  0.141	Data is not available  Data is not available  Data is not available  20.348	Oversupply Oversupply Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57 3/10/2018 11:00:00	0:03 0:03 0:02 0:02 0:02 0:02 0:02	KWP 5A BS ESA KWP 5A	Data is not available Data is not available Data is not available  Onta is not available  Onta is not available	Data is not available Data is not available Data is not available 20.348 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53:0 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:0 3/10/2018 11:00:00 3/10/2018 11:00:00	0.03 0.03 0.02 0.02 0.02 0.02 0.05 0.05	KWP 5A BS ESA KWP 5A BS	Data is not available Data is not available Data is not available Data is not available  0.141 Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available 20.348 Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 11:00:00 3/10/2018 11:00:00 3/10/2018 11:00:00 3/10/2018 11:00:00	0:03 0:03 0:02 0:02 0:02 0:02 0:05 0:06	KWP 5A BS ESA KWP 5A BS ESA	Data is not available Data is not available Data is not available Data is not available  0.141 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 20.348 Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/10/2018 10:53:00 3/10/2018 10:53:00 3/10/2018 10:53:0 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:00 3/10/2018 10:57:0 3/10/2018 11:00:00 3/10/2018 11:00:00	0.03 0.03 0.02 0.02 0.02 0.02 0.05 0.05	KWP 5A BS ESA KWP 5A BS	Data is not available Data is not available Data is not available Data is not available  0.141 Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available 20.348 Data is not available Data is not available Data is not available Data is not available 19.042	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/10/2018 11:04	0:02	KWP	0.138	19.580	Oversupply
3/10/2018 11:08:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:08:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:08:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:08	0:03	KWP	0.190	22.792	Oversupply
3/10/2018 11:12:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:12:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:12:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:13	0:01	KWP	0.094	22.469	Oversupply
3/10/2018 11:15:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:15:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:15:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:15	0:02	AWE	0.101	3.600	Oversupply
3/10/2018 11:16	0:01	KWP	0.013	20.686	Oversupply
3/10/2018 11:18	1:50	AWE	12.435	17.200	Oversupply
3/10/2018 11:23:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:23:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:23:00	0:03	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:25	0:02	KWP	0.021	23.975	Oversupply
3/10/2018 11:29:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:29:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:29:00	0:03	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:45:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:45:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:45:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 11:47:00	0:06	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:47:00 3/10/2018 11:47:00	0:06 0:06	BS ESA	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
		KWP			Oversupply
3/10/2018 11:49 3/10/2018 11:55:00	0:04 0:01	5A	0.176 Data is not available	23.591 Data is not available	Oversupply Oversupply
3/10/2018 11:55:00	0:01	BS			Oversupply
3/10/2018 11:55:00	0:01	ESA	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/10/2018 11:55	0:01	KWP	0.009	19.764	Oversupply
3/10/2018 11:58:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 11:58:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 11:58:00	0:03	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:00	0:02	KWP	0.145	25.174	Oversupply
3/10/2018 12:03:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:03:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:03:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:03	0:01	KWP	0.026	22.869	Oversupply
3/10/2018 12:06:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:06:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:06:00	0:03	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:07	0:03	KWP	0.113	23.822	Oversupply
3/10/2018 12:16:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:16:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:16:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:19:00	0:05	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:19:00	0:05	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:19:00	0:05	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:21	0:03	KWP	0.179	24.590	Oversupply
3/10/2018 12:25	0:01	KWP	0.041	20.026	Oversupply
3/10/2018 12:27	0:01	KWP	0.043	21.347	Oversupply
3/10/2018 12:34:00	0:03	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:34:00	0:03	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:34:00	0:03	ESA 50	Data is not available	Data is not available	Oversupply
3/10/2018 12:41:00	0:02 0:02	5A BS	Data is not available	Data is not available  Data is not available	Oversupply
3/10/2018 12:41:00 3/10/2018 12:41:00	0:02	BS ESA	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/10/2018 12:47:00	0:02	5A	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/10/2018 12:47:00		BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:47:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:48	0:02	KWP	0.065	24.098	Oversupply
3/10/2018 12:54:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:54:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:54:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 12:56	0:02	KWP	0.092	23.422	Oversupply
3/10/2018 12:57:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 12:57:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 12:57:00		ESA	Data is not available	Data is not available	Oversupply
3/10/2018 13:09	0:06	AWE	0.451	12.700	Oversupply
3/10/2018 13:16	0:10	AWE	0.564	13.400	Oversupply
3/10/2018 13:27	0:25	AWE	2.802	14.700	Oversupply
3/10/2018 13:42:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 13:42:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 13:42:00	0:01	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 13:43	0:01	KWP	0.032	20.348	Oversupply
3/10/2018 13:45:00	0:02	5A	Data is not available	Data is not available	Oversupply
3/10/2018 13:45:00	0:02	BS	Data is not available	Data is not available	Oversupply
3/10/2018 13:45:00	0:02	ESA	Data is not available	Data is not available	Oversupply
3/10/2018 13:47	0:05	KWP	0.367	22.761	Oversupply

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/10/2018 13:52:00	0:28	BS250	Data is not available	Data is not available	Oversupply
3/10/2018 13:53	0:08	AWE	0.528	13.000	Oversupply
3/10/2018 14:05	0:02	AWE	0.033	5.700	Oversupply
3/10/2018 14:08	0:01	AWE	0.003	4.300	Oversupply
3/10/2018 14:14	0:01	AWE	0.002	4.100	Oversupply
3/10/2018 14:17	0:17	AWE	0.974	9.300	Oversupply
3/10/2018 14:19:00	0:01	5A	Data is not available	Data is not available	Oversupply
3/10/2018 14:19:00	0:01	BS	Data is not available	Data is not available	Oversupply
3/10/2018 14:19:00	0:01				
		ESA	Data is not available	Data is not available	Oversupply
3/10/2018 14:21	0:13	KWP	0.921	22.715	Oversupply
3/10/2018 14:34:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/10/2018 14:37	0:16	AWE	1.163	11.700	Oversupply
3/10/2018 14:39	0:01	KWP	0.027	22.239	Oversupply
3/10/2018 14:40:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/10/2018 14:55	0:03	AWE	0.068	3.000	Oversupply
3/10/2018 15:06	0:57	KWPII	11.458	19.194	Oversupply
3/10/2018 15:12	0:02	AWE	0.021	0.800	Oversupply
3/10/2018 15:20	0:01	AWE	0.013	5.900	Oversupply
3/10/2018 15:22	0:03	AWE	0.079	6.700	
					Oversupply
3/10/2018 16:06	0:10	KWPII	0.648	19.106	Oversupply
3/10/2018 16:08	0:03	AWE	0.022	3.100	Oversupply
3/11/2018 0:35	0:01	KWPII	0.006	18.760	Oversupply
3/11/2018 0:44	0:01	KWPII	0.007	18.951	Oversupply
3/11/2018 0:46	0:07	KWPII	0.111	18.892	Oversupply
3/11/2018 0:55	0:05	KWPII	0.056	18.897	Oversupply
3/11/2018 1:01	0:03	KWPII	0.016	18.961	Oversupply
3/11/2018 1:07	0:03	KWPII	0.014	18.929	
	0:03	KWPII			Oversupply
3/11/2018 1:54			2.608	19.085	Oversupply
3/11/2018 2:38	0:01	KWPII	0.003	17.333	Oversupply
3/11/2018 2:46	0:16	KWPII	0.290	17.475	Oversupply
3/11/2018 3:08	1:56	KWPII	8.539	19.170	Oversupply
3/11/2018 8:03	0:01	AWE	0.004	0.500	Oversupply
3/11/2018 10:02:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 10:06	0:49	KWPII	7.188	19.211	Oversupply
3/11/2018 10:42:00	0:12	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 10:57:00	0:02	BS250	Data is not available	Data is not available	Oversupply
	0:03	KWPII	0.020	19.211	
3/11/2018 10:57					Oversupply
3/11/2018 12:57	0:01	KWPII	0.001	18.843	Oversupply
3/11/2018 13:02:00	0:08	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 13:02	1:29	KWPII	19.049	19.164	Oversupply
3/11/2018 13:11:00	0:09	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 13:23	0:01	KWP	0.003	18.181	Oversupply
3/11/2018 13:27	0:01	KWP	0.010	19.933	Oversupply
3/11/2018 13:34:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 13:46	0:40	AWE	0.742	4.000	Oversupply
3/11/2018 13:54	0:25	KWP	1.454	21.685	Oversupply
	0:02	KWPII	0.505	19.155	
3/11/2018 14:33					Oversupply
3/11/2018 14:34:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 14:36	0:02	KWPII	0.171	19.190	Oversupply
3/11/2018 14:38:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/11/2018 14:39	0:01	KWPII	0.017	19.177	Oversupply
3/11/2018 22:19	0:03	KWPII	0.002	19.197	Oversupply
3/11/2018 23:03	0:01	AWE	0.005	0.300	Oversupply
3/11/2018 23:23	0:19	KWPII	0.798	19.207	Oversupply
	0:02	KWPII			
3/11/2018 23:43			0.014	19.201	Oversupply
3/11/2018 23:48	0:22	KWPII	1.384	19.211	Oversupply
3/12/2018 0:12	0:01	AWE	0.002	0.100	
3/12/2018 0:25	0:20	KWPII	0.411	19.207	Oversupply
3/12/2018 0:46	0:05	KWPII	0.088	19.137	Oversupply
3/12/2018 0:52	3:06	KWPII	16.928	19.194	Oversupply
3/12/2018 4:00	0:11	KWPII	0.338	19.184	Oversupply
3/12/2018 4:14	0:25	KWPII	0.915	19.205	Oversupply
3/12/2018 4:41	0:09	KWPII	0.112	19.203	Oversupply
3/12/2018 4:58	0:09	KWPII	0.798	19.176	
					Oversupply
3/12/2018 7:22:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 7:22	0:01	KWPII	0.001	19.202	System Constraint
3/12/2018 7:24:00	0:18	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 7:27	0:03	KWPII	0.024	19.207	System Constraint
3/12/2018 7:31	0:12	KWPII	0.113	19.211	System Constraint
3/12/2018 7:43:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 7:45:00	0:09	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 7:48	0:05	KWPII	0.045	19.211	System Constraint
3/12/2018 7:54	0:01	KWPII	0.006	19.211	System Constraint
3/12/2018 7:55:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 7:56	0:38	KWPII	2.986	19.211	System Constraint
3/12/2018 7:57:00	0:03	BS250	Data is not available	Data is not available	System Constraint
3/12/2010 7.37.00	0:32	BS250	Data is not available	Data is not available	System Constraint
	0.02				
3/12/2018 8:01:00	0.021	B632U	Data is not available		
3/12/2018 8:01:00 3/12/2018 8:54:00	0:02	BS250 BS250	Data is not available	Data is not available	System Constraint
3/12/2018 8:01:00 3/12/2018 8:54:00 3/12/2018 9:17:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 8:01:00 3/12/2018 8:54:00					

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/12/2018 10:28:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 10:33:00	0:59	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 10:36	0:57	KWPII	2.701	19.211	System Constraint
3/12/2018 11:35:00	0:06	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 11:39	0:01	KWPII	0.005	19.204	System Constraint
3/12/2018 11:41	0:01	KWPII	0.001		System Constraint
3/12/2018 11:44:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 12:01:00	2:00	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 12:02	0:01	KWPII	0.002		System Constraint
3/12/2018 12:04	1:59	KWPII	17.512		System Constraint
3/12/2018 14:02:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 14:08:00	0:18	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 14:11	0:20	KWPII	0.534	19.193	System Constraint
3/12/2018 14:27:00	0:04	BS250	Data is not available	Data is not available	System Constraint
3/12/2018 22:34	0:01	KWPII	0.011	19.093	Oversupply
3/12/2018 22:36	7:31	KWPII	111.800	19.211	Oversupply
3/13/2018 0:16	0:02	AWE	0.026		Oversupply
3/13/2018 0:22	0:12	AWE	0.341	20.700	Oversupply
	0:02	AWE	0.012		
3/13/2018 0:35					Oversupply
3/13/2018 0:40	0:04	AWE	0.039		Oversupply
3/13/2018 0:53	0:24	AWE	1.045	20.700	Oversupply
3/13/2018 1:20	0:27	AWE	1.419	20.300	Oversupply
3/13/2018 1:50	2:28	AWE	14.419	21.000	Oversupply
3/13/2018 4:21	0:01	AWE	0.003	20.700	Oversupply
3/13/2018 4:23	0:03	AWE	0.027	19.400	Oversupply
3/13/2018 4:28	0:04	AWE	0.035		Oversupply
3/13/2018 4:37	0:08	AWE	0.179		Oversupply
	0:03	AWE	0.179		
3/13/2018 4:48					Oversupply
3/13/2018 4:52	0:04	AWE	0.021	19.300	Oversupply
3/13/2018 7:34:00	0:06	BS250	Data is not available	Data is not available	Oversupply
3/13/2018 7:35	0:05	KWPII	0.058	19.196	Oversupply
3/13/2018 7:41:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/13/2018 11:00	0:03	KWPII	0.074	18.813	Oversupply
3/13/2018 11:01:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/14/2018 9:50:00	0:12	BS250	Data is not available	Data is not available	Oversupply
3/14/2018 9:50	0:13	AWE	0.469	20.700	Oversupply
3/15/2018 9:23:00	0:03	BS250	Data is not available	Data is not available	Oversupply
			0.010		
3/15/2018 9:23	0:02	AWE			Oversupply
3/15/2018 9:26	0:01	AWE	0.004		Oversupply
3/15/2018 9:31	0:19	AWE	0.186		Oversupply
3/15/2018 9:51	0:06	AWE	0.048	14.700	Oversupply
3/15/2018 9:58	0:09	AWE	0.095	16.300	Oversupply
3/15/2018 10:29	0:14	AWE	0.157	18.900	Oversupply
3/15/2018 11:28:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/15/2018 11:30:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/15/2018 11:30	0:01	AWE	0.005	17.400	Oversupply
3/15/2018 11:36:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/15/2018 11:39	0:01	AWE	0.004	18.200	Oversupply
3/15/2018 11:44	0:05	AWE	0.054	19.500	Oversupply
3/15/2018 11:50	0:05	AWE	0.048		Oversupply
3/15/2018 11:57	0:11	AWE	0.132		Oversupply
3/15/2018 12:11	0:03	AWE	0.024		Oversupply
3/15/2018 12:15	0:20	AWE	0.209		Oversupply
3/15/2018 12:37	0:05	AWE	0.041	19.000	Oversupply
3/15/2018 12:41:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/15/2018 14:44	0:02	AWE	0.050		Oversupply
3/15/2018 16:20	0:01	KWPII	0.002		Oversupply
3/15/2018 17:17	0:01	KWPII	0.001		Oversupply
3/17/2018 9:11:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/17/2018 9:11:00	0:02	AWE	0.013		Oversupply
3/17/2018 9:15:00	0:04	BS250	Data is not available	Data is not available	Oversupply
3/17/2018 9:15	0:04	AWE	0.087	11.800	Oversupply
3/17/2018 9:20:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/17/2018 9:20	0:04	AWE	0.053	11.200	Oversupply
3/17/2018 10:30:00	0:08	BS250	Data is not available	Data is not available	Oversupply
3/17/2018 10:31	0:05	AWE	0.096	9.600	Oversupply
3/17/2018 10:36	0:01	KWPII	0.001	0.192	Oversupply
3/17/2018 10:43:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/17/2018 10:44	0:01	AWE	0.015		Oversupply
3/17/2018 10:44	0:01	KWPII	0.015		
					Oversupply
	0:01	KWPII	0.004		Oversupply
3/17/2018 10:46		BS250	Data is not available	Data is not available	Oversupply
3/17/2018 10:46 3/17/2018 10:47:00	2:41		0.042	8.900	Oversupply
3/17/2018 10:46	2:41 0:04	AWE			Oversupply
3/17/2018 10:46 3/17/2018 10:47:00		AWE KWPII	1.215	2.388	
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48	0:04	KWPII			
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:48 3/17/2018 10:53	0:04 1:24 0:02	KWPII AWE	1.215 0.023	8.300	Oversupply
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:48 3/17/2018 10:53 3/17/2018 10:56	0:04 1:24 0:02 2:36	KWPII AWE AWE	1.215 0.023 6.305	8.300 11.300	Oversupply Oversupply
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:53 3/17/2018 10:53 3/17/2018 10:56 3/17/2018 13:06:00	0:04 1:24 0:02 2:36 0:08	KWPII AWE AWE 5A	1.215 0.023 6.305 Data is not available	8.300 11.300 Data is not available	Oversupply Oversupply Oversupply
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:53 3/17/2018 10:53 3/17/2018 10:56 3/17/2018 13:06:00 3/17/2018 13:06:00	0:04 1:24 0:02 2:36 0:08 0:08	KWPII AWE AWE 5A BS	1.215 0.023 6.305 Data is not available Data is not available	8.300 11.300 Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:48 3/17/2018 10:53 3/17/2018 10:56 3/17/2018 13:06:00 3/17/2018 13:06:00 3/17/2018 13:29:00	0:04 1:24 0:02 2:36 0:08 0:08	KWPII AWE AWE 5A BS BS250	1.215	8.300 11.300 Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/17/2018 10:46 3/17/2018 10:47:00 3/17/2018 10:48 3/17/2018 10:53 3/17/2018 10:53 3/17/2018 10:56 3/17/2018 13:06:00 3/17/2018 13:06:00	0:04 1:24 0:02 2:36 0:08 0:08	KWPII AWE AWE 5A BS	1.215 0.023 6.305 Data is not available Data is not available	8.300 11.300 Data is not available Data is not available Data is not available 0.100	Oversupply Oversupply Oversupply Oversupply

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#### Maui Curtailment Report

					I
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/18/2018 10:49:00	0:26	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 10:50	0:25	KWPII	1.267	12.126	Oversupply
3/18/2018 11:16:00	0:19	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 11:16	0:20	KWPII	2.747	11.624	Oversupply
3/18/2018 11:22	0:02	AWE	0.022	7.800	Oversupply
3/18/2018 11:37:00	0:03	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 11:38	0:05	KWPII	0.233	9.750	Oversupply
3/18/2018 11:41:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 11:44:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 11:44	0:02	KWPII	0.081	9.885	Oversupply
3/18/2018 12:39:00	0:24	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 12:40	0:24	KWPII	2.993	14.315	Oversupply
3/18/2018 12:55	0:05	AWE	0.080	10.000	Oversupply
3/18/2018 13:05:00	0:17	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 13:06	0:15	KWPII	1.396	13.206	Oversupply
3/18/2018 13:22	0:16	KWPII	1.629	14.166	Oversupply
3/18/2018 13:36:00	0:20	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 13:39	0:18	KWPII	1.847	15.333	Oversupply
3/18/2018 14:20:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 14:23:00	0:02	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 14:24	0:01	KWPII	0.016	11.805	Oversupply
3/18/2018 15:13:00	0:09	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 15:13	0:10	KWPII	0.596	16.671	Oversupply
3/18/2018 15:26:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 15:27	0:01	KWPII	0.000	16.205	Oversupply
3/18/2018 15:45:00	0:53	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 15:46	1:01	KWPII	4.623	17.714	Oversupply
3/18/2018 17:38:00	0:01	BS250	Data is not available	Data is not available	Oversupply
3/18/2018 19:30	0:09	KWPII	0.293	17.714	Oversupply
3/18/2018 19:40	0:06	KWPII	0.127	17.703	Oversupply
3/18/2018 22:58	0:08	KWPII	0.002	17.703	Oversupply
3/18/2018 23:04	0:51	KWPII	3.573	17.672	Oversupply
3/18/2018 23:56	0:15	KWPII	0.389	17.472	Oversupply
3/19/2018 0:15	0:05	KWPII	0.131	17.001	Oversupply
3/19/2018 0:21	0:05	KWPII	0.042	16.811	Oversupply
3/19/2018 0:59	0:01	KWPII	0.006	14.240	Oversupply
3/19/2018 1:24	0:36	KWPII	1.966	16.589	Oversupply
3/19/2018 2:01	0:02	KWPII	0.027	14.333	Oversupply
3/19/2018 2:04	0:16	KWPII	0.343	15.142	Oversupply
3/19/2018 3:40	0:35	KWPII	1.556	16.617	Oversupply
3/19/2018 5:36	0:22	KWPII	0.519	16.161	Oversupply
3/19/2018 5:59	0:03	KWPII	0.016	15.850	Oversupply
3/19/2018 6:04	0:02	KWPII	0.018	16.602	Oversupply
3/19/2018 7:57:00	0:03	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 7:58	0:03	KWPII	0.013	17.645	System Constraint
3/19/2018 8:35	0:01	AWE	0.002	0.100	System Constraint
3/19/2018 9:00	0:01	AWE	0.002	0.100	System Constraint
3/19/2018 9:22:00	0:34	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 9:23	0:33	KWPII	1.440	17.688	System Constraint
3/19/2018 9:31	0:01	AWE	0.003	0.200	System Constraint
3/19/2018 9:57:00	3:18	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 9:58	3:18	KWPII	31.509	17.702	System Constraint
	0:01	AWE	0.002	3.000	
3/19/2018 11:09					System Constraint
3/19/2018 14:41:00	0:02	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 14:42	0:02	KWPII	0.020	19.190	System Constraint
3/19/2018 15:05:00	0:02	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 15:06	0:01	KWPII	0.013	16.992	System Constraint
3/19/2018 15:17:00	0:17	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 15:17	0:35	KWPII	2.017	19.003	System Constraint
3/19/2018 15:35:00	0:16	BS250	Data is not available	Data is not available	System Constraint
3/19/2018 16:57	0:01	KWPII	0.000	19.199	System Constraint
3/19/2018 17:00	1:06	KWPII	3.528	19.211	System Constraint
3/20/2018 1:49	0:56	KWPII	12.553	18.081	System Constraint
3/20/2018 2:47	6:19	KWPII	111.070	20.708	System Constraint
3/20/2018 7:51	0:19	AWE	0.458	21.000	
					System Constraint
3/20/2018 8:13	0:02	AWE	0.017	21.000	System Constraint
3/20/2018 8:19:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 8:21:00	0:01	5A	Data is not available	Data is not available	System Constraint
3/20/2018 8:21:00	0:01	BS	Data is not available	Data is not available	System Constraint
3/20/2018 8:21:00	0:01	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 8:23:00	0:09	5A	Data is not available	Data is not available	System Constraint
3/20/2018 8:23:00	0:09	BS	Data is not available	Data is not available	System Constraint
3/20/2018 8:23:00	0:09	BS250	Data is not available		System Constraint
3/20/2018 8:23	0:10	KWPII	1.900		System Constraint
3/20/2018 8:25	0:10	AWE	0.011		System Constraint
3/20/2018 8:28	0:26	AWE	1.476		System Constraint
3/20/2018 8:29	0:15	AWE	0.833		System Constraint
	0:32	KWPII	8.009		System Constraint
3/20/2018 8:34		5A	Data is not available	Data is not available	System Constraint
3/20/2018 8:44:00	0:14				
3/20/2018 8:44:00 3/20/2018 8:44:00	0:14	BS	Data is not available	Data is not available	System Constraint
3/20/2018 8:44:00				Data is not available  Data is not available	System Constraint System Constraint

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#### Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
3/20/2018 8:56	0:02	AWE	0.035		System Constraint
3/20/2018 8:57	0:01	AWE	0.004	21.000	System Constraint
3/20/2018 9:08:00	1:45	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 9:08	5:14	KWPII	74.180		System Constraint
3/20/2018 9:09 3/20/2018 9:35	1:16 0:04	KWPII AWE	12.108 0.046		System Constraint System Constraint
3/20/2018 9:42	0:04	AWE	0.022	20.500	System Constraint
3/20/2018 9:50	0:03	AWE	0.034		System Constraint
3/20/2018 9:52:00	0:04	5A	Data is not available	Data is not available	System Constraint
3/20/2018 9:52:00	0:04	BS	Data is not available	Data is not available	System Constraint
3/20/2018 9:55	0:06	AWE	0.147	20.400	System Constraint
3/20/2018 10:02	1:20	AWE	9.974	21.000	System Constraint
3/20/2018 10:05:00	0:01	5A	Data is not available	Data is not available	System Constraint
3/20/2018 10:05:00	0:01	BS	Data is not available	Data is not available	System Constraint
3/20/2018 10:09:00	0:05	5A BS	Data is not available  Data is not available	Data is not available	System Constraint
3/20/2018 10:09:00 3/20/2018 10:17:00	0:05 0:03	5A	Data is not available	Data is not available  Data is not available	System Constraint System Constraint
3/20/2018 10:17:00	0:03	BS	Data is not available	Data is not available	System Constraint
3/20/2018 10:24:00	0:23	5A	Data is not available	Data is not available	System Constraint
3/20/2018 10:24:00	0:23	BS	Data is not available	Data is not available	System Constraint
3/20/2018 10:26	0:27	KWPII	5.908	16.727	System Constraint
3/20/2018 10:28	0:19	AWE	0.625	21.000	System Constraint
3/20/2018 10:54:00	0:40	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 10:55	0:39	KWPII	6.154		System Constraint
3/20/2018 10:57:00	0:01	5A	Data is not available	Data is not available	System Constraint
3/20/2018 10:57:00	0:01	BS EA	Data is not available	Data is not available	System Constraint
3/20/2018 11:19:00 3/20/2018 11:19:00	0:01 0:01	5A BS	Data is not available  Data is not available	Data is not available  Data is not available	System Constraint System Constraint
3/20/2018 11:21:00	0:07	5A	Data is not available  Data is not available	Data is not available	System Constraint System Constraint
3/20/2018 11:21:00	0:07	BS	Data is not available	Data is not available	System Constraint
3/20/2018 11:22	0:06	AWE	0.104		System Constraint
3/20/2018 11:28	0:06	AWE	0.098	20.300	System Constraint
3/20/2018 11:35	0:05	AWE	0.048	20.900	System Constraint
3/20/2018 11:36:00	0:33	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 11:36	1:13	KWPII	16.833		System Constraint
3/20/2018 11:49:00	0:04	5A	Data is not available	Data is not available	System Constraint
3/20/2018 11:49:00	0:04	BS	Data is not available	Data is not available	System Constraint
3/20/2018 11:56:00	0:01 0:01	5A BS	Data is not available  Data is not available	Data is not available	System Constraint System Constraint
3/20/2018 11:56:00 3/20/2018 11:58:00	0:03	5A	Data is not available	Data is not available  Data is not available	System Constraint
3/20/2018 11:58:00	0:03	BS	Data is not available	Data is not available	System Constraint
3/20/2018 12:07:00	0:02	5A	Data is not available	Data is not available	System Constraint
3/20/2018 12:07:00	0:02	BS	Data is not available	Data is not available	System Constraint
3/20/2018 12:10:00	0:38	BS250	Data is not available	Data is not available	System Constraint
3/20/2018 12:10:00	0:05	5A	Data is not available	Data is not available	System Constraint
3/20/2018 12:10:00	0:05	BS	Data is not available	Data is not available	System Constraint
3/20/2018 12:16:00	0:01	5A	Data is not available	Data is not available	System Constraint
3/20/2018 12:16:00 3/20/2018 12:18:00	0:01 0:02	BS EA	Data is not available	Data is not available	System Constraint
3/20/2018 12:18:00	0:02	5A BS	Data is not available  Data is not available	Data is not available  Data is not available	System Constraint System Constraint
3/20/2018 12:18:00	0:02	5A	Data is not available	Data is not available	System Constraint
3/20/2018 12:24:00	0:11	BS	Data is not available	Data is not available	System Constraint
3/20/2018 12:31	0:04	AWE	0.109		System Constraint
3/20/2018 12:36:00	0:08	5A	Data is not available	Data is not available	System Constraint
3/20/2018 12:36:00	0:08	BS	Data is not available	Data is not available	System Constraint
3/20/2018 12:37	0:08	AWE	0.282		System Constraint
3/20/2018 12:51:00	1:14	BS250	Data is not available		System Constraint
3/20/2018 12:51	1:14	KWPII	7.260		System Constraint
3/20/2018 13:17 3/20/2018 13:23	0:04 0:08	AWE AWE	0.091 0.365		System Constraint System Constraint
3/20/2018 13:35	0:08	AWE	0.365		System Constraint System Constraint
3/20/2018 14:08:00	0:03	BS250	Data is not available	Data is not available	System Constraint System Constraint
3/20/2018 14:09	0:03	KWPII	0.054		System Constraint
3/20/2018 14:30	0:01	KWPII	0.016		System Constraint
3/20/2018 22:13	0:01	KWPII	0.010		System Constraint
3/20/2018 22:16	0:35	AWE	1.209		System Constraint
3/20/2018 22:16	0:48	KWPII	6.171		System Constraint
3/21/2018 6:19:00	0:02	5A	Data is not available	Data is not available	System Constraint
3/21/2018 6:20:00	0:01	BS BS250	Data is not available		System Constraint
3/21/2018 6:20:00 3/21/2018 6:22:00	2:46 0:02	BS250	Data is not available		System Constraint System Constraint
3/21/2018 6:22:00	0:02	5A BS	Data is not available  Data is not available		System Constraint System Constraint
3/21/2018 6:25:00	0:02	5A	Data is not available		System Constraint System Constraint
3/21/2018 6:25:00	0:01	BS	Data is not available		System Constraint System Constraint
3/21/2018 6:27:00	0:03	5A	Data is not available		System Constraint
3/21/2018 6:27:00	0:03	BS	Data is not available	Data is not available	System Constraint
3/21/2018 6:31:00	0:02	5A	Data is not available	Data is not available	System Constraint
3/21/2018 6:31:00	0:02	BS	Data is not available	Data is not available	System Constraint
3/21/2018 6:36:00	0:07	5A	Data is not available		System Constraint
3/21/2018 6:36:00	0:07	BS	Data is not available		System Constraint
3/21/2018 6:44:00	0:03	5A	Data is not available		System Constraint
3/21/2018 6:44:00	0:03	BS	Data is not available	Data is not available	System Constraint

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#### Maui Curtailment Report

March 2018

321/2018 6.48:00   0.02   5A
321/2018 6:51:00
321/2018 7:05:00
321/2018 7:05:00
321/2018 7.05.00
3/21/2018 7:08:00
3/21/2018 7-08-00
321/2018 7:14:00
3/21/2018 7:14:00
3/21/2018 7:16:00
3/21/2018 7:16:00
3/21/2018 7:19:00
3/21/2018 7:29:00
3/21/2018 7:23:00
3/21/2018 7:27:00
3/21/2018 7:27:00   0:09   5A   Data is not available   Data is not available   System Constraint
3/21/2018 7:37:00   0:09   BS   Data is not available   Data is not available   System Constraint
3/21/2018 7:37:00   0:07   5A   Data is not available   Data is not available   System Constraint
3/21/2018 7:37:00         0:07         BS         Data is not available         Data is not available         System Constraint           3/21/2018 7:47:00         0:01         5A         Data is not available         Data is not available         System Constraint           3/21/2018 7:47:00         0:01         BS         Data is not available         Data is not available         System Constraint           3/21/2018 7:49:00         0:02         5A         Data is not available         Data is not available         System Constraint           3/21/2018 7:49:00         0:02         BS         Data is not available         Data is not available         System Constraint           3/21/2018 9:08:00         0:55         BS250         Data is not available         Data is not available         System Constraint           3/21/2018 10:10         4:10         BS250         Data is not available         Data is not available         System Constraint           3/21/2018 10:30         0:01         KWPII         0.008         3.532         System Constraint           3/21/2018 10:32         0:15         KWPII         0.670         4.632         System Constraint           3/21/2018 10:48         0:06         AWE         0.166         20.100         System Constraint           3/21/2018 10:48
3/21/2018 7:47:00   0:01   BS   Data is not available   Data is not available   System Constraint
3/21/2018 7:49:00
3/21/2018 7:49:00         0:02         BS         Data is not available         Data is not available         System Constraint           3/21/2018 9:08:00         0:55         BS250         Data is not available         Data is not available         System Constraint           3/21/2018 10:10         4:10         BS250         Data is not available         Data is not available         System Constraint           3/21/2018 10:30         0:01         KWPII         0.008         3.532         System Constraint           3/21/2018 10:32         0:15         KWPII         0.670         4.632         System Constraint           3/21/2018 10:41         0:06         AWE         0.166         20.100         System Constraint           3/21/2018 10:48         0:08         KWPII         0.282         3.833         System Constraint
3/21/2018 9:08:00   0:55   BS250   Data is not available   Data is not available   System Constraint
3/21/2018 10:11:00         4:10         BS250         Data is not available         Data is not available         System Constraint           3/21/2018 10:30         0:01         KWPII         0.008         3.532 System Constraint           3/21/2018 10:32         0:15         KWPII         0.670         4.632 System Constraint           3/21/2018 10:41         0:06         AWE         0.166         20.010 System Constraint           3/21/2018 10:48         0:08         KWPII         0.282         3.833 System Constraint
3/21/2018 10:30         0:01         KWPII         0.008         3.532         System Constraint           3/21/2018 10:32         0:15         KWPII         0.670         4.632         System Constraint           3/21/2018 10:41         0:06         AWE         0.166         20.100         System Constraint           3/21/2018 10:48         0:08         KWPII         0.282         3.833         System Constraint
3/21/2018 10:32         0.15         KWPII         0.670         4.632         System Constraint           3/21/2018 10:41         0:06         AWE         0.166         20.100         System Constraint           3/21/2018 10:48         0:08         KWPII         0.282         3.833         System Constraint
3/21/2018 10:41         0.06         AWE         0.166         20.100         System Constraint           3/21/2018 10:48         0.08         KWPII         0.282         3.833         System Constraint
3/21/2018 10:48 0:08 KWPII 0.282 3.833 System Constraint
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3/21/2018 10:49 0:04 AWE 0.022 20.700 System Constraint
3/21/2018 11:24 0:04 AWE 0.053 20.400 System Constraint
3/21/2018 11:24 0:02 KWPII 0.016 0.689 System Constraint
3/21/2018 11:39 0:05 AWE 0.078 20.600 System Constraint 3/21/2018 11:42 0:01 KWPII 0.000 0.125 System Constraint
3/21/2018 14:28:00 0:02 BS250 Data is not available Data is not available System Constraint
32/12/018 17:10 0:01 KWPII 0.001 0.043 System Constraint
3/22/2018 3:01 0:01 KWPII 0.004 0.218 (Oversupply
3/22/2018 10:28:00 0:01 BS250 Data is not available Data is not available Oversupply
3/22/2018 10:31:00 0:02 BS250 Data is not available Data is not available Oversupply
3/22/2018 10:47:00 0:08 BS250 Data is not available Data is not available Oversupply
3/22/2018 11:23:00 0:04 BS250 Data is not available Data is not available Oversupply
3/22/2018 11:38:00 0:05 BS250 Data is not available Data is not available Oversupply
3/22/2018 14:00:00 0:01 BS250 Data is not available Data is not available Oversupply
3/23/2018 10:31 0:01 AWE 0.003 0.200 Oversupply
3/24/2018 2:44 0:03 AWE 0.052 5.100 Oversupply
3/24/2018 2:48 0:02 AWE 0.015 3.700 Oversupply
3/24/2018 12:52 0:01 KWPII 0.000 0.013 Oversuppty
3/25/2018 11:35:00 0:02 5A Data is not available Data is not available Oversupply
3/25/2018 11:35:00 0:02 BS Data is not available Data is not available Oversupply
3/25/2018 11:35:00 0:02 BS250 Data is not available Data is not available Oversupply
3/25/2018 11:49 0:01 KWPII 0.006 6.954 Oversupply
3/25/2018 11:53 0:05 KWPII 0.119 7.941 Oversupply
3/25/2018 11:59 0:01 KWPII 0.016 8.040 Oversupply
3/25/2018 12:21 0:01 KWPII 0.004 11.246 Oversupply
3/26/2018 11:42:00 0:01 BS250 Data is not available Data is not available Oversupply
3/26/2018 11:48:00         0:01         BS250         Data is not available         Data is not available         Oversupply           3/26/2018 11:52:00         0:04         BS250         Data is not available         Data is not available         Oversupply
3/26/2018 11:52:00         0:04         BS250         Data is not available         Data is not available         Oversupply           3/26/2018 11:58:00         0:01         BS250         Data is not available         Data is not available         Oversupply
3/20/2016 11:35/UU U/UI BSZ9U Data is not available Ustra is not available (Versupply 3/20/2016 11:35/UU U/UI BSZ9U Data is not available (Versupply Ustra is not available (Ver
3/26/2018 12:59 0:01 KWPII 0:001 13.627 Oversupply
327/2018 12:53:00 0:02 BS250 Data is not available Data is not available Oversupply
327/2018 12:58:00 0:02 BS250 Data is not available Data is not available Oversupply
3/28/2018 9:16 0:01 KWPII 0.000 0.005 Oversuppty
3/29/2018 11:00 0:01 KWPII 0.023 4.032 Oversupply
3/30/2018 10:59:00 0:01 BS250 Data is not available Data is not available Oversupply
3/30/2018 11:03 0:04 AWE 0.106 14:100 Oversupply
3/31/2018 11:03:00 0:03 BS250 Data is not available Data is not available System Constraint
Total Estimated Curtailed MWh 1,756.634

#### Notes:

- 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 ("MAVG") that Maui Electric can accept into the Maui system, based on the system current available generation ("CAVG"), regulating reserve down ("ARRD"). Thus, the AGC wallable regulation ("CAVG"), 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.

<sup>-</sup> 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 nighttime hours are not recorded as curtailment events because no energy generation is possible during that time.

<sup>-</sup> 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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Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
3/1/2018 8:25	0:01	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 8:29	2:47	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 11:23	0:04	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 11:31	1:49	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 13:22 3/1/2018 14:31	1:07 0:52	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/1/2018 15:24	0:10	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 15:56	0:01	LSR	Data is not available	Data is not available	Oversupply
3/1/2018 15:59	0:13	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 7:36	0:02	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 7:43 3/2/2018 8:51	0:48 0:02	LSR LSR	Data is not available	Data is not available	Oversupply
3/2/2018 9:11	0:02	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/2/2018 9:37	0:01	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 9:54	0:02	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 10:25	1:12	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 11:39	0:20	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 12:01	0:03 0:49	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 12:20 3/2/2018 13:11	0:49	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/2/2018 13:52	0:40	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 14:47	0:02	LSR	Data is not available	Data is not available	Oversupply
3/2/2018 14:52	0:01	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 7:11	0:02	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 7:37	3:00	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 10:38 3/3/2018 10:40	0:01 0:13	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/3/2018 10:40	0:13	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/3/2018 11:42	0:28	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 12:11	0:29	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 12:41	0:15	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 12:59	0:32	LSR	Data is not available	Data is not available	Oversupply
3/3/2018 13:32	0:12	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 8:59 3/4/2018 9:03	0:03 0:05	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/4/2018 9:26	0:30	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
3/4/2018 9:58	0:25	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 10:25	0:07	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 10:36	0:07	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 10:48	2:37	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 13:31 3/4/2018 13:44	0:08 0:15	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/4/2018 14:00	0:13	LSR LSR	Data is not available	Data is not available	Oversupply
3/4/2018 14:04	0:29	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 14:34	0:01	LSR	Data is not available	Data is not available	Oversupply
3/4/2018 14:41	0:11	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 7:42	0:34	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 8:26	0:02	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 8:29 3/5/2018 8:33	0:01 1:58	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/5/2018 10:32	0:57	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 11:30	1:09	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 12:41	0:02	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 12:45	0:18	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 13:11	0:01	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 13:16 3/5/2018 13:44	0:10 0:06	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/5/2018 13:52	0:08	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 14:02	0:07	LSR	Data is not available	Data is not available	Oversupply
3/5/2018 14:10	3:08	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 7:42	0:01	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 7:44	0:32	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 8:17 3/6/2018 11:24	3:03 0:08	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/6/2018 11:36	3:09	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 14:47	1:11	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 16:00	0:08	LSR	Data is not available	Data is not available	Oversupply
3/6/2018 16:09	0:15	LSR	Data is not available	Data is not available	Oversupply
3/7/2018 7:39 3/7/2018 8:43	1:03 0:40	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/7/2018 9:24	0:40	LSR	Data is not available	Data is not available  Data is not available	Oversupply
3/7/2018 10:08	0:04	LSR	Data is not available	Data is not available	Oversupply
3/7/2018 10:14	0:07	LSR	Data is not available	Data is not available	Oversupply
3/7/2018 10:25	0:02	LSR	Data is not available	Data is not available	Oversupply
3/7/2018 10:39	0:02	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 7:09 3/8/2018 7:32	0:17 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/8/2018 7:35	0:02	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 7:37	0:09	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 7:50	1:35	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 9:28	0:25	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 9:57	0:08	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 10:06 3/8/2018 10:11	0:02 0:03	LSR LSR	Data is not available  Data is not available	Data is not available Data is not available	Oversupply Oversupply
3/8/2018 10:17	0:03	LSR	Data is not available	Data is not available  Data is not available	Oversupply
3/8/2018 15:37	0:04	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 16:09	0:05	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 16:16	0:35	LSR	Data is not available	Data is not available	Oversupply
3/8/2018 17:12	0:46	LSR	Data is not available	Data is not available	Oversupply
3/9/2018 8:26	0:04	LSR	Data is not available	Data is not available	Oversupply
3/9/2018 9:02 3/9/2018 11:07	2:04 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/9/2018 11:41	4:02	LSR	Data is not available	Data is not available	Oversupply
3/9/2018 15:57	1:04	LSR	Data is not available	Data is not available	Oversupply
3/10/2018 7:48	0:01	LSR	Data is not available	Data is not available	Oversupply
3/10/2018 7:59	0:02	LSR	Data is not available	Data is not available	Oversupply
3/10/2018 8:02	8:55	LSR	Data is not available	Data is not available	Oversupply
3/10/2018 16:59	0:26	LSR	Data is not available	Data is not available	Oversupply

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Lanai Curtailment Report

Start Date and Time 3/11/2018 9:40	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
	0:41	LSR	Data is not available	Data is not available	Oversupply
3/11/2018 13:27	1:23	LSR	Data is not available	Data is not available	Oversupply
3/11/2018 15:27 3/12/2018 8:21	1:39 1:04	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/12/2018 9:26	0:06	LSR	Data is not available	Data is not available	Oversupply
3/12/2018 9:53	0:02	LSR	Data is not available	Data is not available	Oversupply
3/12/2018 11:33 3/12/2018 12:05	0:20 0:08	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/12/2018 12:48	0:40	LSR	Data is not available	Data is not available	Oversupply
3/12/2018 15:52	0:08	LSR	Data is not available	Data is not available	Oversupply
3/13/2018 12:06	0:06	LSR	Data is not available	Data is not available	Oversupply
3/13/2018 12:44 3/13/2018 16:41	0:10 0:13	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/14/2018 9:14	0:01	LSR	Data is not available	Data is not available	Oversupply
3/14/2018 10:28	0:15		Data is not available	Data is not available	Oversupply
3/14/2018 15:07 3/14/2018 15:59	0:06 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/14/2018 16:09	0:01	LSR	Data is not available	Data is not available	Oversupply
3/14/2018 16:22	0:06	LSR	Data is not available	Data is not available	Oversupply
3/14/2018 16:43	0:28	LSR	Data is not available	Data is not available	Oversupply
3/14/2018 17:40 3/15/2018 6:54	0:01 0:42	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/15/2018 7:58	0:02	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 8:01	1:56	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 9:59	0:14		Data is not available	Data is not available	Oversupply
3/15/2018 10:16	0:08	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 10:25	0:07	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 10:33	0:07	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 13:18 3/15/2018 14:57	0:01 0:11	LSR LSR	Data is not available  Data is not available	Data is not available	Oversupply Oversupply
3/15/2018 14:57	0:02	LSR	Data is not available	Data is not available  Data is not available	Oversupply
3/15/2018 15:38	0:02	LSR	Data is not available	Data is not available	Oversupply
3/15/2018 15:52	0:02	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 7:39	0:01	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 7:44	0:03	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 7:51	0:03	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 8:06	0:06		Data is not available	Data is not available	Oversupply
3/16/2018 8:26 3/16/2018 8:52	0:24	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/16/2018 9:04	0:03	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 9:18	0:01	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 10:00	0:08	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 10:11	0:03	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 10:16	0:02	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 10:22	0:01	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 10:33	0:01	LSR	Data is not available  Data is not available	Data is not available	Oversupply
3/16/2018 10:48 3/16/2018 11:20	0:30	LSR LSR	Data is not available	Data is not available  Data is not available	Oversupply Oversupply
3/16/2018 11:24	0:24	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 11:51	0:06	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 11:59	0:10	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:11	0:05	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:17	0:02		Data is not available	Data is not available	Oversupply
3/16/2018 12:21	0:07	LSR	Data is not available	Data is not available  Data is not available	Oversupply
2/16/2010 12:24	0.03				Oversupply
3/16/2018 12:34 3/16/2018 12:38	0:03	LSR	Data is not available  Data is not available		Oversupply Oversupply
3/16/2018 12:34 3/16/2018 12:38 3/16/2018 12:46	0:03 0:05 0:04		Data is not available Data is not available Data is not available	Data is not available  Data is not available  Data is not available	Oversupply Oversupply Oversupply
3/16/2018 12:38	0:05	LSR LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33	0:05 0:04 0:39 1:13	LSR LSR LSR LSR LSR	Data is not available Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47	0:05 0:04 0:39 1:13 0:03	LSR LSR LSR LSR LSR LSR	Data is not available	Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52	0:05 0:04 0:39 1:13 0:03 0:11	LSR LSR LSR LSR LSR LSR LSR	Data is not available	Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04	0:05 0:04 0:39 1:13 0:03 0:11	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04	0:05 0:04 0:39 1:13 0:03 0:11 0:01	LSR	Data is not available	Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04	0:05 0:04 0:39 1:13 0:03 0:11	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 15:32	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:52 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 15:52 3/16/2018 16:20	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26	LSR	Data is not available	Data is not available	Oversupply
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3/16/2018 12:38 3/16/2018 12:46 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:52 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:32 3/16/2018 16:52 3/16/2018 16:52 3/16/2018 16:52 3/16/2018 16:52 3/16/2018 16:57 3/17/2018 9:18	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26 0:35 0:36 0:36	LSR	Data is not available	Data is not available	Oversupply
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3/16/2018 12:38 3/16/2018 12:45 3/16/2018 12:45 3/16/2018 13:33 3/16/2018 14:52 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:03 3/16/2018 15:43 3/16/2018 15:43 3/16/2018 16:57 3/16/2018 16:57 3/17/2018 16:57 3/17/2018 9:48 3/17/2018 10:33 3/17/2018 11:26 3/17/2018 11:26	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26 0:35 0:36 1:26 0:02 0:01 0:26 0:21 0:06 0:27	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:45 3/16/2018 12:45 3/16/2018 13:33 3/16/2018 14:52 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:34 3/16/2018 15:34 3/16/2018 15:43 3/16/2018 16:57 3/17/2018 16:57 3/17/2018 9:18 3/17/2018 11:34 3/17/2018 11:25 3/17/2018 11:34 3/17/2018 11:25	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26 0:35 0:36 1:26 0:02 0:01 0:22 0:01 0:06 0:27 0:12	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:45 3/16/2018 12:45 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 16:20 3/16/2018 16:57 3/17/2018 16:20 3/16/2018 16:57 3/17/2018 16:30 3/17/2018 10:33 3/17/2018 10:33 3/17/2018 11:34 3/17/2018 11:34 3/17/2018 11:34 3/17/2018 11:34	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26 0:35 0:36 1:26 0:02 0:01 0:26 0:21 0:06 0:27 0:12	LSR	Data is not available	Data is not available	Oversupply
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3/16/2018 12:38 3/16/2018 12:45 3/16/2018 12:45 3/16/2018 12:53 3/16/2018 13:33 3/16/2018 14:47 3/16/2018 14:47 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 16:52 3/16/2018 16:52 3/16/2018 16:57 3/17/2018 7:47 3/17/2018 9:48 3/17/2018 9:49 3/17/2018 10:33 3/17/2018 11:26 3/17/2018 11:26 3/17/2018 11:26 3/17/2018 12:20 3/17/2018 12:20 3/17/2018 12:37 3/17/2018 12:37 3/17/2018 13:28 3/17/2018 13:28 3/17/2018 15:19 3/17/2018 15:19 3/17/2018 15:53 3/17/2018 15:53 3/17/2018 15:53 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52	0:05 0:04 0:39 1:13 0:03 1:11 0:01 0:24 0:10 0:08 0:26 0:26 0:02 0:01 0:26 0:27 0:12 0:06 0:27 0:12 0:06 0:11 0:05 0:02 0:01 0:05 0:00 0:01 0:05 0:00 0:00 0:00	LSR	Data is not available	Data is not available	Oversupply
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3/16/2018 12:38 3/16/2018 12:45 3/16/2018 12:45 3/16/2018 12:53 3/16/2018 14:47 3/16/2018 14:47 3/16/2018 14:47 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:31 3/16/2018 16:52 3/16/2018 16:57 3/17/2018 16:57 3/17/2018 16:57 3/17/2018 16:37 3/17/2018 10:33 3/17/2018 11:01 3/17/2018 11:26 3/17/2018 11:26 3/17/2018 12:26 3/17/2018 12:25 3/17/2018 12:25 3/17/2018 12:25 3/17/2018 13:28 3/17/2018 13:28 3/17/2018 13:28 3/17/2018 13:28 3/17/2018 13:28 3/17/2018 15:19 3/17/2018 15:19 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 16:52 3/18/2018 9:26 3/18/2018 9:26	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:08 0:26 0:26 0:02 0:01 0:26 0:27 0:12 0:06 0:27 0:12 0:02 0:01 0:05 0:01 0:05 0:01 0:05 0:01 0:05 0:01 0:05 0:05	LSR	Data is not available	Data is not available	Oversupply
3/16/2018 12:38 3/16/2018 12:41 3/16/2018 12:45 3/16/2018 12:53 3/16/2018 14:52 3/16/2018 14:47 3/16/2018 14:52 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:04 3/16/2018 15:31 3/16/2018 15:32 3/16/2018 16:20 3/16/2018 16:52 3/16/2018 16:57 3/17/2018 9:49 3/17/2018 11:24 3/17/2018 11:24 3/17/2018 11:24 3/17/2018 11:34 3/17/2018 12:20 3/17/2018 12:37 3/17/2018 12:37 3/17/2018 13:39 3/17/2018 13:39 3/17/2018 13:39 3/17/2018 13:39 3/17/2018 13:39 3/17/2018 13:39 3/17/2018 15:51 3/17/2018 15:51 3/17/2018 15:51 3/17/2018 15:52 3/17/2018 16:40 3/17/2018 16:52 3/17/2018 16:52 3/17/2018 17:26 3/18/2018 17:26	0:05 0:04 0:39 1:13 0:03 0:11 0:01 0:24 0:10 0:26 0:35 0:36 0:26 0:02 0:01 0:26 0:21 0:06 0:27 0:12 0:02 0:01 1:17 0:15 0:13 0:02 0:01 0:02 0:01 1:17 0:15 0:13 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:02 0:01 0:05 0:01 0:02 0:01 0:02 0:01	LSR	Data is not available	Data is not available	Oversupply

## DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 15 OF 17



Lanai Curtailment Report

•	Electric					
Start Dat	te and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
	18/2018 16:11	0:05	LSR	Data is not available	Data is not available	Oversupply
	18/2018 16:17	0:51	LSR	Data is not available	Data is not available	Oversupply
	18/2018 17:12	0:02	LSR	Data is not available	Data is not available	Oversupply
	18/2018 17:15	0:04	LSR	Data is not available	Data is not available	Oversupply
	18/2018 17:12	0:04	LSR	Data is not available	Data is not available	Oversupply
		0:01	LSR	Data is not available	Data is not available	
	3/19/2018 7:58					Oversupply
	3/19/2018 8:42	1:59	LSR	Data is not available	Data is not available	Oversupply
	19/2018 11:32	0:02	LSR	Data is not available	Data is not available	Oversupply
	19/2018 16:28	0:41	LSR	Data is not available	Data is not available	Oversupply
	20/2018 16:16	0:01	LSR	Data is not available	Data is not available	Oversupply
3/:	21/2018 12:20	1:46	LSR	Data is not available	Data is not available	Oversupply
3/:	21/2018 15:58	0:17	LSR	Data is not available	Data is not available	Oversupply
3	3/22/2018 9:34	0:04	LSR	Data is not available	Data is not available	Oversupply
3	3/22/2018 9:44	0:08	LSR	Data is not available	Data is not available	Oversupply
3/:	/22/2018 10:49	0:03	LSR	Data is not available	Data is not available	Oversupply
3/	/22/2018 11:00	0:08	LSR	Data is not available	Data is not available	Oversupply
	/22/2018 11:12	0:45	LSR	Data is not available	Data is not available	Oversupply
	/22/2018 11:58	0:30	LSR	Data is not available	Data is not available	Oversupply
	22/2018 12:59	0:10	LSR	Data is not available	Data is not available	Oversupply
	22/2018 13:15	3:15	LSR	Data is not available	Data is not available	Oversupply
	/23/2018 10:27	0:19	LSR	Data is not available	Data is not available	Oversupply
	23/2018 10:50	1:05	LSR	Data is not available	Data is not available	Oversupply
	23/2018 11:58	0:01	LSR	Data is not available	Data is not available	Oversupply
	/23/2018 12:05	0:14	LSR	Data is not available	Data is not available	Oversupply
	23/2018 12:31	0:17	LSR	Data is not available	Data is not available	Oversupply
	23/2018 13:14	0:05	LSR	Data is not available	Data is not available	Oversupply
3/:	23/2018 13:40	0:03	LSR	Data is not available	Data is not available	Oversupply
	23/2018 13:49	0:01	LSR	Data is not available	Data is not available	Oversupply
	3/25/2018 8:26	0:06	LSR	Data is not available	Data is not available	Oversupply
	3/25/2018 8:33	0:01	LSR	Data is not available	Data is not available	Oversupply
	3/25/2018 8:38	0:01	LSR	Data is not available	Data is not available	Oversupply
	3/25/2018 8:42	0:03	LSR	Data is not available	Data is not available  Data is not available	Oversupply
	3/25/2018 8:46	0:32	LSR	Data is not available	Data is not available	Oversupply
	3/25/2018 9:19	6:31	LSR	Data is not available	Data is not available	Oversupply
	25/2018 15:53	0:43	LSR	Data is not available	Data is not available	Oversupply
	25/2018 16:38	0:04	LSR	Data is not available	Data is not available	Oversupply
3/	25/2018 16:46	0:04	LSR	Data is not available	Data is not available	Oversupply
3/:	25/2018 16:52	0:02	LSR	Data is not available	Data is not available	Oversupply
3/:	25/2018 16:57	0:06	LSR	Data is not available	Data is not available	Oversupply
3/:	25/2018 17:05	0:07	LSR	Data is not available	Data is not available	Oversupply
	25/2018 17:14	0:29	LSR	Data is not available	Data is not available	Oversupply
	3/26/2018 7:34	0:05	LSR	Data is not available	Data is not available	Oversupply
	3/26/2018 7:40	0:03	LSR	Data is not available	Data is not available	Oversupply
	3/26/2018 7:49	0:20	LSR	Data is not available	Data is not available	Oversupply
	3/26/2018 8:15	0:51	LSR	Data is not available	Data is not available	Oversupply
	3/26/2018 9:07	0:54	LSR	Data is not available	Data is not available	Oversupply
	26/2018 10:03	0:03	LSR	Data is not available	Data is not available	Oversupply
	26/2018 10:07	0:03	LSR	Data is not available	Data is not available	Oversupply
3/	26/2018 10:11	0:04	LSR	Data is not available	Data is not available	Oversupply
3/:	26/2018 10:18	0:01	LSR	Data is not available	Data is not available	Oversupply
3/	26/2018 10:25	0:01	LSR	Data is not available	Data is not available	Oversupply
3/3	26/2018 10:28	0:47	LSR	Data is not available	Data is not available	Oversupply
3/3	26/2018 11:16	0:07	LSR	Data is not available	Data is not available	Oversupply
3/:	26/2018 11:24	2:15	LSR	Data is not available	Data is not available	Oversupply
	26/2018 13:40	0:23	LSR	Data is not available	Data is not available	Oversupply
	26/2018 14:06	0:14	LSR	Data is not available	Data is not available	Oversupply
	26/2018 14:21	0:01	LSR	Data is not available	Data is not available	Oversupply
	3/27/2018 8:05	0:02	LSR	Data is not available	Data is not available	Oversupply
				Data is not available	Data is not available	
	3/27/2018 8:08	0:06	LSR			Oversupply
	3/27/2018 8:15	1:17	LSR	Data is not available	Data is not available	Oversupply
	3/27/2018 9:33	2:30	LSR	Data is not available	Data is not available	Oversupply
	27/2018 13:51	0:03	LSR	Data is not available	Data is not available	Oversupply
	27/2018 13:56	0:10	LSR	Data is not available	Data is not available	Oversupply
	27/2018 14:09	2:48	LSR	Data is not available	Data is not available	Oversupply
	27/2018 16:59	0:34	LSR	Data is not available	Data is not available	Oversupply
	3/28/2018 7:11	2:01	LSR	Data is not available	Data is not available	Oversupply
	28/2018 10:02	1:29	LSR	Data is not available	Data is not available	Oversupply
3/	28/2018 11:38	0:39	LSR	Data is not available	Data is not available	Oversupply
3/:	28/2018 12:18	2:19	LSR	Data is not available	Data is not available	Oversupply
	28/2018 14:38	0:47	LSR	Data is not available	Data is not available	Oversupply
	28/2018 15:28	0:01	LSR	Data is not available	Data is not available	Oversupply
	28/2018 15:34	1:09	LSR	Data is not available	Data is not available	Oversupply
	28/2018 16:44	0:33	LSR	Data is not available	Data is not available	Oversupply
	3/29/2018 7:11	0:05	LSR	Data is not available	Data is not available	Oversupply
				Data is not available		
	3/29/2018 7:18	0:08	LSR		Data is not available	Oversupply Oversupply
	3/29/2018 7:28	1:02	LSR	Data is not available	Data is not available	
	3/29/2018 8:31	2:48	LSR	Data is not available	Data is not available	Oversupply
	29/2018 11:39	2:08	LSR	Data is not available	Data is not available	Oversupply
3/:	29/2018 13:50	0:51	LSR	Data is not available	Data is not available	Oversupply
	29/2018 14:43	0:13	LSR	Data is not available	Data is not available	Oversupply
3/:	29/2018 15:00	0:06	LSR	Data is not available	Data is not available	Oversupply
	25/2010 10.00		LSR	Data is not available	Data is not available	Oversupply
3/2	29/2018 15:07	0:12			Data is not available	Oversupply
3/: 3/:	29/2018 15:07			Data is not available		
3/: 3/: 3/:	29/2018 15:07 29/2018 15:26	0:10	LSR	Data is not available  Data is not available		
3/: 3/: 3/: 3/:	29/2018 15:07 29/2018 15:26 29/2018 15:40	0:10 0:06	LSR LSR	Data is not available	Data is not available	Oversupply
3/3 3/3 3/3 3/3 3/3	29/2018 15:07 29/2018 15:26 29/2018 15:40 29/2018 15:48	0:10 0:06 0:02	LSR LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
3/3 3/3 3/3 3/3 3/3 3/3	29/2018 15:07 29/2018 15:26 29/2018 15:40 29/2018 15:48 29/2018 16:02	0:10 0:06 0:02 0:01	LSR LSR LSR LSR	Data is not available Data is not available Data is not available	Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply
3/3 3/3 3/3 3/3 3/3 3/3 3/3	29/2018 15:07 29/2018 15:26 29/2018 15:40 29/2018 15:48 29/2018 16:02 29/2018 16:16	0:10 0:06 0:02 0:01 0:01	LSR LSR LSR LSR LSR	Data is not available	Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
3/3 3/3 3/3 3/3 3/3 3/3 3/3 3/3	29/2018 15:07 29/2018 15:26 29/2018 15:40 (29/2018 15:48 (29/2018 16:02 (29/2018 16:16 (29/2018 16:19	0:10 0:06 0:02 0:01 0:01 0:06	LSR LSR LSR LSR LSR LSR	Data is not available	Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
3/3 3/3 3/3 3/3 3/3 3/3 3/3 3/3 3/3	29/2018 15:07 29/2018 15:26 29/2018 15:40 29/2018 15:48 29/2018 16:02 29/2018 16:16	0:10 0:06 0:02 0:01 0:01	LSR LSR LSR LSR LSR	Data is not available	Data is not available Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply

### DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 16 OF 17



Lanai Curtailment Report

March 2018

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
3/29/2018 17:35	0:02	LSR	Data is not available	Data is not available	Oversupply
3/29/2018 17:49	0:03	LSR	Data is not available	Data is not available	Oversupply
3/30/2018 6:59	3:20	LSR	Data is not available	Data is not available	Oversupply
3/30/2018 10:20	4:46	LSR	Data is not available	Data is not available	Oversupply
3/30/2018 15:07	1:19	LSR	Data is not available	Data is not available	Oversupply
3/30/2018 16:42	0:52	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 6:53	1:49	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 9:03	0:09	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 9:37	0:23	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 10:03	0:07	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 10:39	0:12	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 11:13	0:03	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 11:36	0:25	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 12:41	0:11	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 13:14	0:05	LSR	Data is not available	Data is not available	Oversupply
3/31/2018 16:46	0:21	LSR	Data is not available	Data is not available	Oversupply

#### Notes

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.

#### Hawai`i Electric Light Company Curtailment Report March 2018

Start Date/Time	MW Output Prior to Start of Curtailment	End Date/Time	MW Output After Curtailment Released <sup>1</sup>	IPP	Reason for Curtailment
03/01/18 02:23	19.9 MW	03/01/18 04:42	19.7 MW	Pakini Nui Windfarm	Oversupply
03/01/18 07:45	18.7 MW	03/01/18 08:16	18.5 MW	Pakini Nui Windfarm	System constraint
03/01/18 13:21	18.7 MW	03/01/18 14:26	18.7 MW	Pakini Nui Windfarm	System constraint
03/02/18 00:57	19.9 MW	03/02/18 05:06	19.5 MW	Pakini Nui Windfarm	Oversupply
03/03/18 01:01	19.8 MW	03/03/18 05:21	19.8 MW	Pakini Nui Windfarm	Oversupply
03/03/18 11:06	1.1 MW	03/03/18 11:46	0.0 MW	TGUHI1	Oversupply
03/03/18 11:14	19.2 MW	03/03/18 11:43	18.6 MW	Pakini Nui Windfarm	Oversupply
03/04/18 02:41	19.8 MW	03/04/18 05:09	17.5 MW	Pakini Nui Windfarm	Oversupply
03/05/18 00:55	19.4 MW	03/05/18 04:41	19.2 MW	Pakini Nui Windfarm	Oversupply
03/06/18 01:58	14.1 MW	03/06/18 04:47	11.9 MW	Pakini Nui Windfarm	Oversupply
03/07/18 01:21	19.8 MW	03/07/18 04:32	19.2 MW	Pakini Nui Windfarm	Oversupply
03/08/18 09:08	6.4 MW	03/08/18 09:14	2.9 MW	Wailuku River Hydro	System constraint <sup>2</sup>
03/13/18 01:53	19.8 MW	03/13/18 02:41	8.4 MW	Pakini Nui Windfarm	Oversupply
03/14/18 02:15	18.7 MW	03/14/18 04:14	17.1 MW	Pakini Nui Windfarm	Oversupply
03/21/18 02:55	19.9 MW	03/21/18 04:41	18.9 MW	Pakini Nui Windfarm	Oversupply
03/22/18 01:12	19.9 MW	03/22/18 04:32	19.9 MW	Pakini Nui Windfarm	Oversupply

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> On March 8, 2018 Wailuku River hydro was inadvertently curtailed during an EMS model update. The curtailment controls were reviewed and corrected so that future model updates should not cause a curtailment issue.

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