



February 21, 2019

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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
COMMISSION

Dear Commissioners:

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

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies'¹ monthly report for January 2019 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,

Kevin M. Katsura
Director
Regulatory Non-Rate Proceedings

Enclosure

c: Service List

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

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

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

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending January 31, 2019):

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

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

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

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

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

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending January 31, 2019):

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

Hawaiian Electric did not have any contingency reserve activations for the month of January. Maui Electric and Hawai'i Electric Light do not operate with contingency reserve requirements. Therefore, Attachment 3 is not being provided for this reporting period

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

Hawaiian Electric, Hawai'i Electric Light, and Maui Electric did not have any under frequency load shed activations for the month of January. Therefore, Attachment 4 is not being provided for this reporting period.

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

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

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

The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending January 31, 2019):

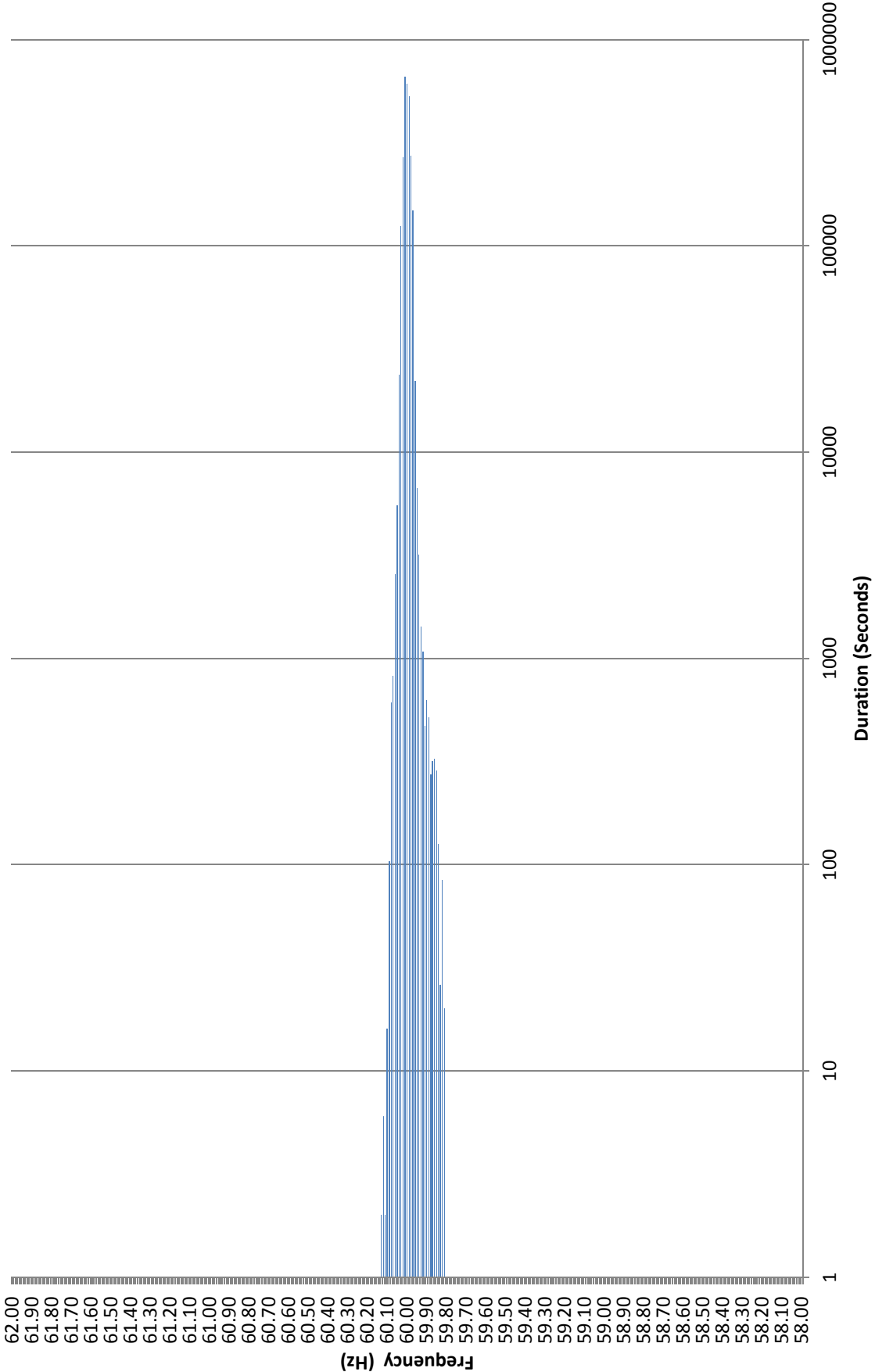
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

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

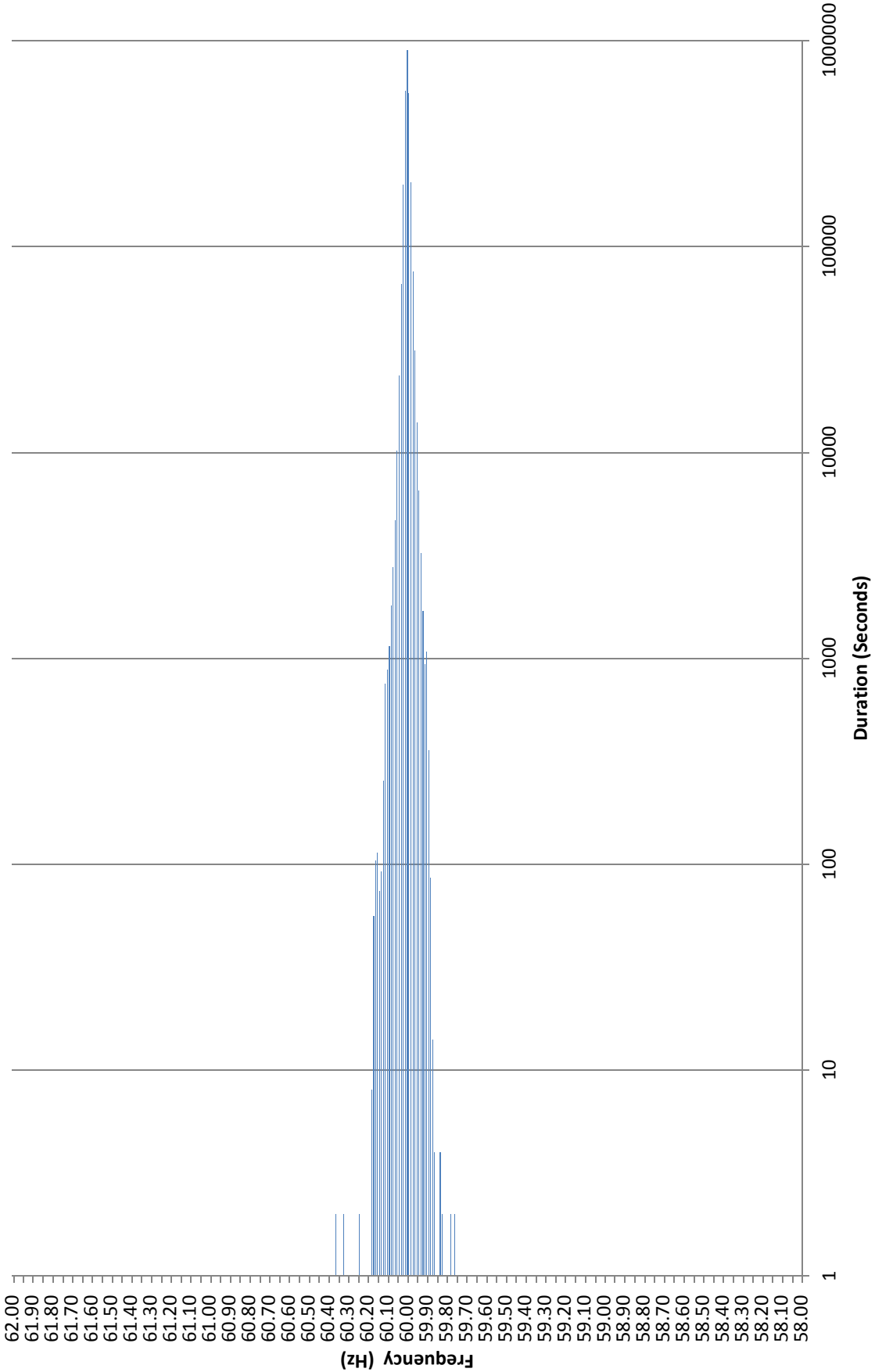
3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

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.

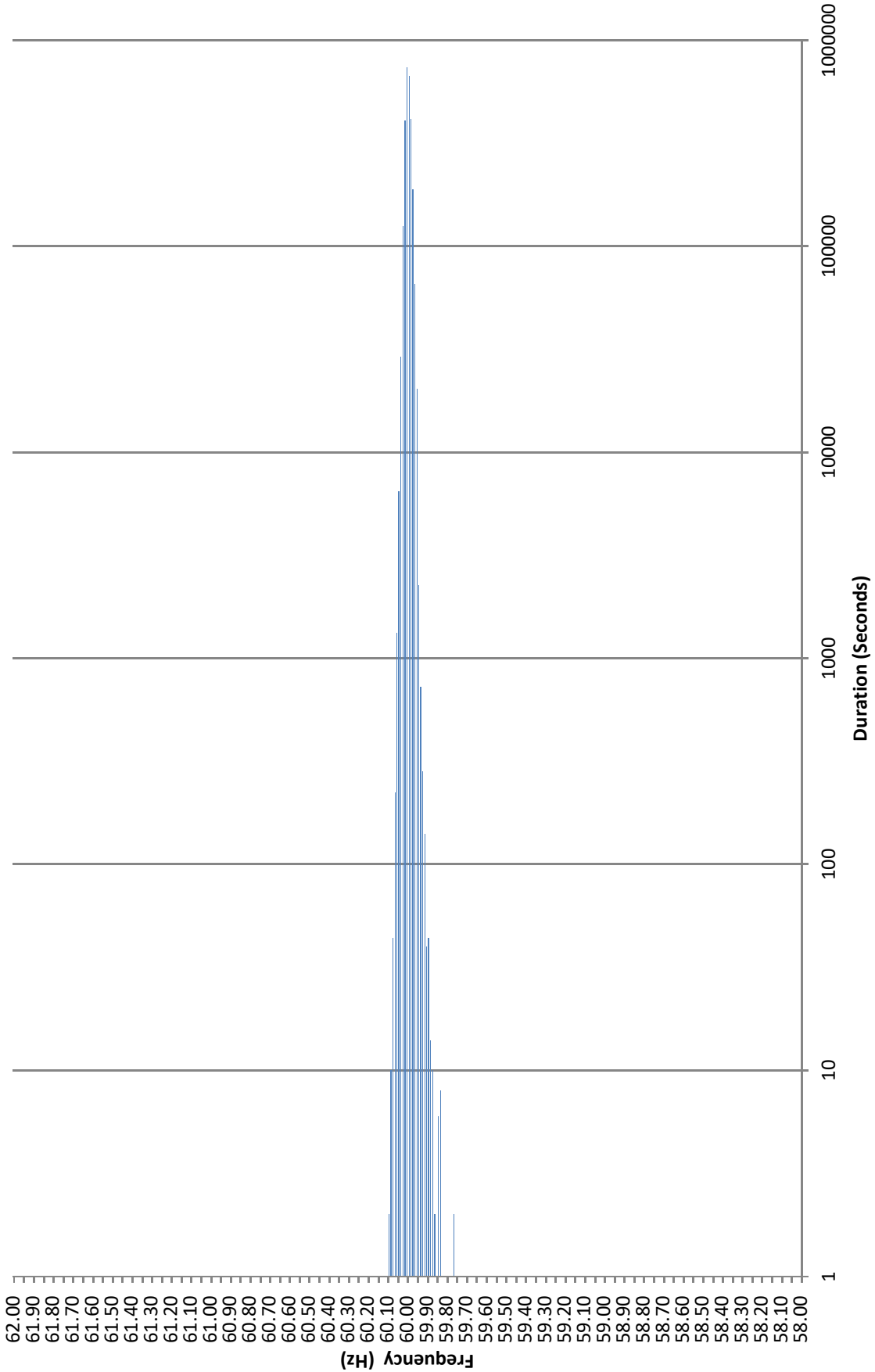
Frequency Distribution Plot - Hawaiian Electric January 2019



Frequency Distribution Plot - Maui Electric January 2019



**Frequency Distribution Plot - Hawai'i Electric Light
January 2019**



Hawaiian Electric Frequency Excursion Statistics January 2019		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	592	358
Maximum Duration (sec)	1290	554
Maximum Deviation (Hz)	59.81	60.135
Total Duration of Excursions (sec)	10958	5906

Maui Electric Frequency Excursion Statistics January 2019		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2929	1905
Maximum Duration (sec)	326	434
Maximum Deviation (Hz)	59.758	60.359
Total Duration of Excursions (sec)	19568	16808

Hawai'i Electric Light Frequency Excursion Statistics January 2019		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2214	178
Maximum Duration (sec)	300	24
Maximum Deviation (Hz)	59.759	60.087
Total Duration of Excursions (sec)	12342	710

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Hawaiian Electric Curtailment Report January 2019

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP	Reason for Curtailment
01/07/19 05:39	0.0	0.00	01/07/19 06:11	0	*	KLS2	System Constraints
01/07/19 05:43	0.0	0.00	01/07/19 06:07	0	*	KREP	System Constraints
01/07/19 14:35	0.0	4.10	01/07/19 18:28	0	*	KLS2	System Constraints
01/07/19 14:37	0.0	2.20	01/07/19 18:28	0	*	KREP	System Constraints
01/11/19 06:41	0.0	5.00	01/11/19 06:59	0	*	North	System Constraints
01/11/19 06:43	0.0	1.50	01/11/19 07:00	0	*	South	System Constraints
01/11/19 14:40	0.0	0.50	01/11/19 15:33	0	*	North	System Constraints
01/11/19 14:41	0.0	0.00	01/11/19 15:33	0	*	South	System Constraints
01/18/19 10:29	0.0	30.00	01/18/19 10:52	0	*	KWF	System Constraints
01/18/19 10:34	0.0	20.00	01/18/19 10:49	0	*	Makai	System Constraints
01/20/19 12:00	10.0	25.92	01/20/19 12:01	0	*	Waianae	System Constraints
01/20/19 12:01	0.0	25.90	01/20/19 13:19	0	*	Waianae	System Constraints
01/26/19 15:27	0.0	3.60	01/26/19 16:13	0	*	Aloha1	System Constraints
01/27/19 07:07	0.0	0.00	01/27/19 16:51	0	*	Aloha1	System Constraints
01/27/19 07:10	0.0	0.00	01/27/19 07:20	0	*	Waianae	System Constraints
01/27/19 15:30	0.0	8.10	01/27/19 16:49	0	*	Waianae	System Constraints
01/31/19 07:12	0.0	0.00	01/31/19 18:37	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

(1) The estimated MWh of energy curtailed during the event is supplied by Kahuku Wind Farm and/or Kawailoa Wind Farm, and HECO does not make any representations as to its accuracy.

* Data has not been provided by IPP.



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/1/2019 0:00	0:21	KWPPII	1.652	19.210	Oversupply
1/1/2019 0:28	0:10	KWPPII	0.134	19.084	Oversupply
1/1/2019 0:40	2:28	KWPPII	19.031	19.211	Oversupply
1/1/2019 4:02	0:01	KWPPII	0.004	6.236	Oversupply
1/1/2019 4:30	0:55	KWPPII	4.782	17.429	Oversupply
1/1/2019 5:52	0:04	KWPPII	0.034	17.714	Oversupply
1/1/2019 7:05	8:43	KS	14.516	0.001	Oversupply
1/1/2019 8:27	0:01	SMRR	0.003	0.802	Oversupply
1/1/2019 8:28	2:32	BS250	0.003	0.024	Oversupply
1/1/2019 8:28	0:01	SMRR	0.003	0.024	Oversupply
1/1/2019 8:28	0:01	SMRR	0.003	0.107	Oversupply
1/1/2019 8:29	0:01	SMRR	0.007	-0.002	Oversupply
1/1/2019 8:30	2:31	KWPPII	4.451	0.016	Oversupply
1/1/2019 8:30	0:01	SMRR	0.013	0.001	Oversupply
1/1/2019 8:31	2:31	SMRR	4.451	0.016	Oversupply
1/1/2019 11:01	0:01	SMRR	0.025	0.528	Oversupply
1/1/2019 11:02	0:01	SMRR	0.025	0.909	Oversupply
1/1/2019 11:03	0:01	SMRR	0.025	1.318	Oversupply
1/1/2019 11:04	0:01	SMRR	0.025	2.238	Oversupply
1/1/2019 11:04	0:01	SMRR	0.025	2.158	Oversupply
1/1/2019 11:05	0:01	SMRR	0.025	1.401	Oversupply
1/1/2019 11:06	0:01	SMRR	0.024	0.744	Oversupply
1/1/2019 11:07	0:01	SMRR	0.025	0.777	Oversupply
1/1/2019 11:07	0:01	SMRR	0.025	0.572	Oversupply
1/1/2019 11:08	0:01	SMRR	0.025	0.363	Oversupply
1/1/2019 11:09	0:02	SMRR	0.049	0.042	Oversupply
1/1/2019 11:10	0:02	SMRR	0.074	0.534	Oversupply
1/1/2019 11:12	0:25	BS250	0.023	2.277	Oversupply
1/1/2019 11:13	0:25	KWPPII	0.023	2.605	Oversupply
1/1/2019 11:13	0:25	SMRR	0.971	0.028	Oversupply
1/1/2019 11:38	0:01	SMRR	0.023	0.604	Oversupply
1/1/2019 11:40	0:01	SMRR	0.023	2.277	Oversupply
1/1/2019 11:41	0:01	SMRR	0.023	2.605	Oversupply
1/1/2019 11:42	0:01	SMRR	0.023	1.927	Oversupply
1/1/2019 11:42	0:01	SMRR	0.023	2.081	Oversupply
1/1/2019 11:45	0:01	SMRR	0.009	2.377	Oversupply
1/1/2019 11:48	0:01	SMRR	0.009	2.640	Oversupply
1/1/2019 11:49	0:01	SMRR	0.009	2.120	Oversupply
1/1/2019 11:49	0:01	SMRR	0.009	1.292	Oversupply
1/1/2019 11:50	0:01	SMRR	0.009	1.579	Oversupply
1/1/2019 11:51	0:01	SMRR	0.009	1.531	Oversupply
1/1/2019 11:52	0:01	SMRR	0.009	1.020	Oversupply
1/1/2019 11:52	0:01	SMRR	0.009	0.391	Oversupply
1/1/2019 11:53	0:01	SMRR	0.009	1.188	Oversupply
1/1/2019 11:54	0:01	SMRR	0.009	1.789	Oversupply
1/1/2019 11:55	0:01	SMRR	0.009	2.399	Oversupply
1/1/2019 11:55	0:01	SMRR	0.009	2.282	Oversupply
1/1/2019 11:59	0:01	SMRR	0.009	2.563	Oversupply
1/1/2019 12:01	0:01	SMRR	0.023	2.322	Oversupply
1/1/2019 12:02	0:01	SMRR	0.023	2.323	Oversupply
1/1/2019 12:03	0:01	SMRR	0.023	1.548	Oversupply
1/1/2019 12:04	0:01	SMRR	0.023	1.069	Oversupply
1/1/2019 12:05	0:01	SMRR	0.023	0.870	Oversupply
1/1/2019 12:05	0:01	SMRR	0.023	1.013	Oversupply
1/1/2019 12:06	0:03	BS250	0.023	0.480	Oversupply
1/1/2019 12:06	0:01	SMRR	0.023	0.346	Oversupply
1/1/2019 12:07	0:02	KWPPII	0.023	0.573	Oversupply
1/1/2019 12:07	0:02	SMRR	0.069	0.023	Oversupply
1/1/2019 12:09	0:01	SMRR	0.023	0.104	Oversupply
1/1/2019 12:10	0:01	SMRR	0.023	0.294	Oversupply
1/1/2019 12:11	0:01	SMRR	0.023	0.480	Oversupply
1/1/2019 12:12	0:01	SMRR	0.023	0.283	Oversupply
1/1/2019 12:12	0:01	SMRR	0.023	0.573	Oversupply
1/1/2019 12:13	0:01	SMRR	0.023	1.005	Oversupply
1/1/2019 12:14	0:01	SMRR	0.021	1.990	Oversupply
1/1/2019 12:15	0:01	SMRR	0.003	2.110	Oversupply
1/1/2019 12:19	0:01	SMRR	0.003	2.757	Oversupply
1/1/2019 12:20	0:01	SMRR	0.003	2.406	Oversupply
1/1/2019 12:22	0:01	SMRR	0.003	2.727	Oversupply
1/1/2019 20:02	0:01	KWPPII	0.018	0.016	Oversupply
1/1/2019 22:26	0:08	KWPPII	0.018	0.345	Oversupply
1/1/2019 22:38	0:02	KWPPII	0.018	0.018	Oversupply
1/1/2019 22:56	0:01	KWPPII	0.018	0.185	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/2/2019 0:20	0:02	KWPPII	0.813	0.002	Oversupply
1/2/2019 0:42	1:48	KWPPII	0.024	0.296	Oversupply
1/2/2019 1:52	0:01	AWE	0.024	0.302	Oversupply
1/2/2019 1:55	0:28	AWE	2.855	0.013	Oversupply
1/2/2019 2:32	3:30	KWPPII	0.032	0.235	Oversupply
1/2/2019 2:41	0:10	AWE	0.032	0.212	Oversupply
1/2/2019 2:52	0:50	AWE	0.032	0.402	Oversupply
1/2/2019 3:44	0:04	AWE	0.032	0.172	Oversupply
1/2/2019 3:50	0:06	AWE	0.030	0.149	Oversupply
1/2/2019 3:57	0:03	AWE	0.032	0.305	Oversupply
1/2/2019 4:02	0:03	AWE	0.283	0.150	Oversupply
1/2/2019 4:07	0:04	AWE	0.031	0.043	Oversupply
1/2/2019 4:12	0:05	AWE	0.063	0.189	Oversupply
1/2/2019 4:31	0:01	AWE	0.032	0.391	Oversupply
1/2/2019 4:33	0:01	AWE	0.032	0.904	Oversupply
1/2/2019 4:36	0:01	AWE	0.153	1.084	Oversupply
1/2/2019 4:38	0:01	AWE	0.028	0.176	Oversupply
1/2/2019 6:21	0:01	KWPPII	0.028	0.494	Oversupply
1/2/2019 6:28	0:05	KWPPII	0.027	0.861	Oversupply
1/2/2019 6:34	0:30	KWPPII	0.028	0.881	Oversupply
1/2/2019 7:06	0:53	KS	0.059	0.005	Oversupply
1/2/2019 8:15	1:02	BS250	0.028	0.665	Oversupply
1/2/2019 8:15	1:03	SMRR	1.165	0.578	Oversupply
1/2/2019 8:16	1:04	KWPPII	0.028	0.035	Oversupply
1/2/2019 9:19	0:01	BS250	0.028	0.423	Oversupply
1/2/2019 9:19	0:01	SMRR	0.018	0.112	Oversupply
1/2/2019 9:19	0:01	SMRR	0.018	0.161	Oversupply
1/2/2019 9:20	0:01	SMRR	0.018	0.459	Oversupply
1/2/2019 9:21	0:01	SMRR	0.018	1.118	Oversupply
1/2/2019 9:22	0:01	KWPPII	0.025	0.404	Oversupply
1/2/2019 9:22	0:01	SMRR	0.018	0.319	Oversupply
1/2/2019 9:23	0:01	BS250	0.008	0.622	Oversupply
1/2/2019 9:23	0:01	SMRR	0.018	0.016	Oversupply
1/2/2019 9:23	0:01	SMRR	0.018	0.345	Oversupply
1/2/2019 9:24	0:29	KWPPII	0.008	1.265	Oversupply
1/2/2019 9:24	0:01	SMRR	0.018	0.018	Oversupply
1/2/2019 9:25	0:03	BS250	0.011	2.599	Oversupply
1/2/2019 9:25	0:01	SMRR	0.018	0.185	Oversupply
1/2/2019 9:26	0:28	SMRR	0.813	0.002	Oversupply
1/2/2019 9:31	0:22	BS250	0.011	1.404	Oversupply
1/2/2019 9:54	0:59	KWPPII	0.011	1.106	Oversupply
1/2/2019 9:54	0:01	SMRR	0.024	0.296	Oversupply
1/2/2019 9:55	0:58	BS250	0.011	0.783	Oversupply
1/2/2019 9:55	0:01	SMRR	0.024	0.302	Oversupply
1/2/2019 9:55	1:16	SMRR	2.855	0.013	Oversupply
1/2/2019 10:54	0:17	BS250	0.011	2.116	Oversupply
1/2/2019 10:54	0:17	KWPPII	0.011	2.794	Oversupply
1/2/2019 11:11	0:01	SMRR	0.032	0.235	Oversupply
1/2/2019 11:12	0:01	SMRR	0.032	0.212	Oversupply
1/2/2019 11:13	0:01	BS250	0.034	1.019	Oversupply
1/2/2019 11:13	0:01	KWPPII	0.033	0.426	Oversupply
1/2/2019 11:13	0:01	SMRR	0.032	0.402	Oversupply
1/2/2019 11:13	0:01	SMRR	0.032	0.172	Oversupply
1/2/2019 11:14	0:01	SMRR	0.030	0.149	Oversupply
1/2/2019 11:15	0:08	BS250	0.032	0.912	Oversupply
1/2/2019 11:15	0:01	SMRR	0.032	0.305	Oversupply
1/2/2019 11:16	0:07	KWPPII	0.033	1.026	Oversupply
1/2/2019 11:16	0:07	SMRR	0.283	0.150	Oversupply
1/2/2019 11:22	0:01	SMRR	0.031	0.043	Oversupply
1/2/2019 11:23	0:02	SMRR	0.063	0.189	Oversupply
1/2/2019 11:25	0:01	SMRR	0.032	0.391	Oversupply
1/2/2019 11:26	0:04	BS250	0.023	1.241	Oversupply
1/2/2019 11:26	0:04	KWPPII	0.023	1.173	Oversupply
1/2/2019 11:26	0:01	SMRR	0.032	0.904	Oversupply
1/2/2019 11:26	0:04	SMRR	0.153	1.084	Oversupply
1/2/2019 11:30	0:01	SMRR	0.028	0.176	Oversupply
1/2/2019 11:31	0:01	SMRR	0.028	0.494	Oversupply
1/2/2019 11:32	0:01	SMRR	0.027	0.861	Oversupply
1/2/2019 11:32	0:01	SMRR	0.028	0.881	Oversupply
1/2/2019 11:33	0:01	SMRR	0.028	0.822	Oversupply
1/2/2019 11:34	0:05	BS250	0.023	2.040	Oversupply
1/2/2019 11:34	0:01	SMRR	0.028	0.665	Oversupply
1/2/2019 11:35	0:04	KWPPII	0.023	0.074	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/2/2019 11:35	0:05	SMRR	0.166	0.006	Oversupply
1/2/2019 11:39	0:01	SMRR	0.028	0.035	Oversupply
1/2/2019 11:40	0:01	SMRR	0.028	0.423	Oversupply
1/2/2019 11:41	0:01	SMRR	0.028	1.215	Oversupply
1/2/2019 11:42	0:01	SMRR	0.028	1.158	Oversupply
1/2/2019 11:42	0:01	SMRR	0.027	1.804	Oversupply
1/2/2019 11:43	0:01	SMRR	0.028	1.188	Oversupply
1/2/2019 11:44	0:01	SMRR	0.025	0.404	Oversupply
1/2/2019 11:45	0:01	SMRR	0.008	0.848	Oversupply
1/2/2019 11:45	0:01	SMRR	0.008	0.622	Oversupply
1/2/2019 11:46	0:01	SMRR	0.008	1.264	Oversupply
1/2/2019 11:47	0:01	SMRR	0.008	1.737	Oversupply
1/2/2019 11:48	0:01	SMRR	0.008	1.265	Oversupply
1/2/2019 11:48	0:01	SMRR	0.008	1.406	Oversupply
1/2/2019 11:53	1:33	KS	4.392	0.000	Oversupply
1/2/2019 12:22	0:03	BS250	0.009	0.645	Oversupply
1/2/2019 12:22	0:03	KWP2	2.244	0.635	Oversupply
1/2/2019 12:38	0:02	BS250	-0.176	0.000	Oversupply
1/2/2019 12:38	0:02	KWP2	0.001	1.469	Oversupply
1/2/2019 12:48	0:01	SMRR	0.011	2.599	Oversupply
1/2/2019 12:49	0:01	SMRR	0.011	1.994	Oversupply
1/2/2019 12:50	0:01	SMRR	0.011	1.921	Oversupply
1/2/2019 12:50	0:01	SMRR	0.011	1.404	Oversupply
1/2/2019 12:51	0:01	SMRR	0.011	1.106	Oversupply
1/2/2019 12:52	0:01	SMRR	0.011	0.850	Oversupply
1/2/2019 12:53	0:01	SMRR	0.011	0.783	Oversupply
1/2/2019 12:53	0:01	SMRR	0.011	1.375	Oversupply
1/2/2019 12:55	0:01	SMRR	0.011	1.911	Oversupply
1/2/2019 12:56	0:01	SMRR	0.011	2.116	Oversupply
1/2/2019 12:57	0:01	SMRR	0.011	2.794	Oversupply
1/2/2019 12:58	0:01	SMRR	0.011	1.996	Oversupply
1/2/2019 12:59	0:01	SMRR	0.011	1.751	Oversupply
1/2/2019 13:00	0:01	SMRR	0.034	1.019	Oversupply
1/2/2019 13:00	0:01	SMRR	0.033	0.426	Oversupply
1/2/2019 13:01	0:02	BS250	0.008	1.585	Oversupply
1/2/2019 13:01	0:03	KWP2	0.008	1.516	Oversupply
1/2/2019 13:01	0:05	SMRR	0.198	0.024	Oversupply
1/2/2019 13:04	0:01	BS250	9.818	0.029	Oversupply
1/2/2019 13:05	0:01	KWP2	0.034	0.013	Oversupply
1/2/2019 13:06	0:01	SMRR	0.033	0.039	Oversupply
1/2/2019 13:06	0:01	SMRR	0.033	0.430	Oversupply
1/2/2019 13:07	0:01	SMRR	0.032	0.912	Oversupply
1/2/2019 13:08	0:01	SMRR	0.033	1.123	Oversupply
1/2/2019 13:09	0:05	BS250	0.026	1.162	Oversupply
1/2/2019 13:09	0:05	KWP2	1.071	1.161	Oversupply
1/2/2019 13:09	0:01	SMRR	0.033	1.026	Oversupply
1/2/2019 13:09	0:05	SMRR	0.227	0.415	Oversupply
1/2/2019 13:15	0:01	SMRR	0.023	0.372	Oversupply
1/2/2019 13:16	0:01	SMRR	0.023	0.797	Oversupply
1/2/2019 13:16	0:01	SMRR	0.023	1.105	Oversupply
1/2/2019 13:17	0:01	SMRR	0.023	1.241	Oversupply
1/2/2019 13:18	0:01	SMRR	0.023	1.173	Oversupply
1/2/2019 13:19	0:01	SMRR	0.023	0.544	Oversupply
1/2/2019 13:19	0:01	SMRR	0.023	1.110	Oversupply
1/2/2019 13:20	0:01	SMRR	0.023	1.282	Oversupply
1/2/2019 13:21	0:01	SMRR	0.023	1.131	Oversupply
1/2/2019 13:22	0:01	SMRR	0.023	1.331	Oversupply
1/2/2019 13:22	0:01	SMRR	0.023	1.474	Oversupply
1/2/2019 13:24	0:01	SMRR	0.023	2.023	Oversupply
1/2/2019 13:25	0:01	SMRR	0.023	2.040	Oversupply
1/2/2019 13:26	0:01	SMRR	0.023	0.839	Oversupply
1/2/2019 13:26	0:01	SMRR	0.023	0.074	Oversupply
1/2/2019 13:26	0:08	KS	0.204	0.552	Oversupply
1/2/2019 13:27	0:01	SMRR	0.023	0.334	Oversupply
1/2/2019 13:28	0:01	SMRR	0.023	0.423	Oversupply
1/2/2019 13:29	0:01	SMRR	0.023	0.552	Oversupply
1/2/2019 13:29	0:01	SMRR	0.024	1.227	Oversupply
1/2/2019 13:30	0:01	SMRR	0.009	0.867	Oversupply
1/2/2019 13:31	0:01	SMRR	0.009	0.661	Oversupply
1/2/2019 13:32	0:01	SMRR	0.009	0.620	Oversupply
1/2/2019 13:32	0:01	SMRR	0.009	1.107	Oversupply
1/2/2019 13:33	0:01	SMRR	0.009	1.591	Oversupply
1/2/2019 13:34	0:01	SMRR	0.009	1.922	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/2/2019 13:34	0:01	KS	0.014	1.446	Oversupply
1/2/2019 13:35	0:01	KS	0.014	2.068	Oversupply
1/2/2019 13:39	0:01	SMRR	0.009	0.949	Oversupply
1/2/2019 13:40	0:01	SMRR	0.009	0.885	Oversupply
1/2/2019 13:40	0:01	KS	0.014	2.551	Oversupply
1/2/2019 13:41	0:01	SMRR	0.009	0.587	Oversupply
1/2/2019 13:41	0:01	KS	0.014	1.676	Oversupply
1/2/2019 13:42	0:01	SMRR	0.009	0.406	Oversupply
1/2/2019 13:42	0:01	KS	0.013	1.649	Oversupply
1/2/2019 13:42	0:01	SMRR	0.009	0.534	Oversupply
1/2/2019 13:43	0:01	KS	0.014	0.925	Oversupply
1/2/2019 13:43	0:01	SMRR	0.009	0.645	Oversupply
1/2/2019 13:44	0:01	KS	0.014	1.161	Oversupply
1/2/2019 13:44	3:48	SMRR	2.244	0.635	Oversupply
1/2/2019 13:44	0:01	KS	0.005	1.429	Oversupply
1/2/2019 13:46	0:01	KS	0.006	2.658	Oversupply
1/2/2019 13:47	0:01	KS	0.006	2.896	Oversupply
1/2/2019 13:51	0:01	KS	0.006	2.915	Oversupply
1/2/2019 13:52	0:01	KS	0.006	1.940	Oversupply
1/2/2019 13:53	0:01	KS	0.006	1.538	Oversupply
1/2/2019 13:54	0:01	KS	0.006	1.889	Oversupply
1/2/2019 14:03	0:01	KS	0.001	2.892	Oversupply
1/2/2019 14:06	0:01	KS	0.001	2.457	Oversupply
1/2/2019 14:07	0:01	KS	0.001	1.945	Oversupply
1/2/2019 14:16	0:01	KS	0.000	2.352	Oversupply
1/2/2019 17:32	0:01	SMRR	-0.176	0.000	Oversupply
1/2/2019 22:06	0:14	KWPPII	0.032	1.088	Oversupply
1/2/2019 22:36	0:48	KWPPII	0.031	0.177	Oversupply
1/2/2019 23:25	3:07	KWPPII	0.284	0.008	Oversupply
1/3/2019 3:14	0:42	KWPPII	0.032	0.247	Oversupply
1/3/2019 3:58	0:02	KWPPII	0.654	0.015	Oversupply
1/3/2019 4:18	0:01	KWPPII	0.033	0.008	Oversupply
1/3/2019 4:20	0:06	KWPPII	0.033	0.273	Oversupply
1/3/2019 4:53	0:12	KWPPII	0.033	0.555	Oversupply
1/3/2019 5:42	0:11	KWPPII	0.033	0.584	Oversupply
1/3/2019 9:10	0:01	SMRR	0.001	1.469	Oversupply
1/3/2019 9:10	0:01	SMRR	0.001	1.229	Oversupply
1/3/2019 9:11	0:01	SMRR	0.001	0.921	Oversupply
1/3/2019 9:11	0:01	KS	0.000	0.510	Oversupply
1/3/2019 9:12	0:01	KS	0.000	0.483	Oversupply
1/3/2019 9:40	0:01	SMRR	0.002	1.569	Oversupply
1/3/2019 9:41	0:01	SMRR	0.002	0.920	Oversupply
1/3/2019 9:41	0:01	KS	0.000	0.931	Oversupply
1/3/2019 9:42	0:01	SMRR	0.002	1.350	Oversupply
1/3/2019 9:42	0:01	KS	0.000	0.580	Oversupply
1/3/2019 9:42	0:01	SMRR	0.002	1.596	Oversupply
1/3/2019 9:43	0:01	KS	0.000	0.787	Oversupply
1/3/2019 9:44	0:01	SMRR	0.002	1.683	Oversupply
1/3/2019 9:45	0:01	SMRR	0.008	1.695	Oversupply
1/3/2019 9:45	0:01	KS	0.002	0.936	Oversupply
1/3/2019 9:45	0:01	SMRR	0.008	1.497	Oversupply
1/3/2019 9:46	0:01	SMRR	0.008	1.291	Oversupply
1/3/2019 9:46	0:01	KS	0.002	0.734	Oversupply
1/3/2019 9:47	0:01	SMRR	0.008	1.109	Oversupply
1/3/2019 9:47	0:01	KS	0.002	0.572	Oversupply
1/3/2019 9:48	0:01	SMRR	0.008	1.197	Oversupply
1/3/2019 9:48	0:01	KS	0.002	0.476	Oversupply
1/3/2019 9:48	0:01	SMRR	0.008	1.549	Oversupply
1/3/2019 9:49	0:01	KS	0.002	0.514	Oversupply
1/3/2019 9:50	0:01	SMRR	0.008	2.000	Oversupply
1/3/2019 9:55	0:01	SMRR	0.008	1.801	Oversupply
1/3/2019 9:55	0:01	KS	0.002	0.772	Oversupply
1/3/2019 9:55	0:01	SMRR	0.008	1.585	Oversupply
1/3/2019 9:56	0:01	KS	0.002	0.718	Oversupply
1/3/2019 9:56	0:01	SMRR	0.008	1.516	Oversupply
1/3/2019 9:57	3:44	BS250	0.018	0.430	Oversupply
1/3/2019 9:57	0:01	KS	0.002	0.682	Oversupply
1/3/2019 9:57	0:01	SMRR	0.008	0.707	Oversupply
1/3/2019 9:58	3:43	KWPPII	0.019	1.517	Oversupply
1/3/2019 9:58	3:43	SMRR	9.818	0.029	Oversupply
1/3/2019 9:58	0:01	KS	0.002	0.416	Oversupply
1/3/2019 9:59	3:43	KS	8.846	0.016	Oversupply
1/3/2019 11:40	0:01	AWE	0.012	1.847	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/3/2019 12:18	0:14	AWE	0.011	0.951	Oversupply
1/3/2019 12:33	0:32	AWE	0.012	0.538	Oversupply
1/3/2019 13:07	0:30	AWE	0.012	0.043	Oversupply
1/3/2019 13:41	0:01	SMRR	0.034	0.013	Oversupply
1/3/2019 13:41	0:01	SMRR	0.035	0.128	Oversupply
1/3/2019 13:42	1:22	BS250	0.024	0.395	Oversupply
1/3/2019 13:42	1:22	KWPPII	0.033	0.027	Oversupply
1/3/2019 13:42	0:01	KS	0.041	0.105	Oversupply
1/3/2019 13:42	0:01	SMRR	0.035	0.027	Oversupply
1/3/2019 13:42	0:01	KS	0.041	0.171	Oversupply
1/3/2019 13:43	1:22	SMRR	3.410	-0.004	Oversupply
1/3/2019 13:43	1:22	KS	3.758	0.095	Oversupply
1/3/2019 14:36	0:22	AWE	0.033	1.506	Oversupply
1/3/2019 15:05	0:34	BS250	4.002	0.852	Oversupply
1/3/2019 15:05	0:01	SMRR	0.026	0.744	Oversupply
1/3/2019 15:05	0:01	SMRR	0.026	1.162	Oversupply
1/3/2019 15:06	0:33	KWPPII	0.033	0.525	Oversupply
1/3/2019 15:06	0:01	KS	0.034	0.390	Oversupply
1/3/2019 15:06	0:34	SMRR	1.071	1.161	Oversupply
1/3/2019 15:06	0:01	KS	0.034	0.529	Oversupply
1/3/2019 15:07	0:34	KS	1.282	0.123	Oversupply
1/3/2019 15:40	0:01	SMRR	0.020	0.478	Oversupply
1/3/2019 15:41	0:01	KS	0.030	0.045	Oversupply
1/4/2019 0:10	0:01	KWPPII	0.027	0.015	Oversupply
1/4/2019 0:41	4:57	KWPPII	0.025	0.304	Oversupply
1/4/2019 2:43	0:28	AWE	0.025	0.676	Oversupply
1/4/2019 3:12	0:37	AWE	0.026	1.009	Oversupply
1/4/2019 3:51	0:08	AWE	0.002	2.157	Oversupply
1/4/2019 4:00	0:01	AWE	0.002	2.018	Oversupply
1/4/2019 8:38	0:01	SMRR	0.005	1.028	Oversupply
1/4/2019 8:39	0:01	SMRR	0.005	0.557	Oversupply
1/4/2019 8:39	0:01	KS	0.004	0.697	Oversupply
1/4/2019 8:39	0:01	SMRR	0.005	0.703	Oversupply
1/4/2019 8:40	0:09	BS250	0.005	1.814	Oversupply
1/4/2019 8:40	0:01	SMRR	0.005	0.783	Oversupply
1/4/2019 8:40	0:01	KS	0.004	0.542	Oversupply
1/4/2019 8:41	0:08	KWPPII	0.005	1.883	Oversupply
1/4/2019 8:41	0:08	SMRR	0.116	0.531	Oversupply
1/4/2019 8:41	0:01	KS	0.004	0.701	Oversupply
1/4/2019 8:42	0:01	KS	0.004	0.711	Oversupply
1/4/2019 8:43	0:08	KS	0.095	0.010	Oversupply
1/4/2019 8:49	0:01	SMRR	0.015	0.282	Oversupply
1/4/2019 8:50	0:01	SMRR	0.015	0.483	Oversupply
1/4/2019 8:50	0:01	KS	0.013	0.455	Oversupply
1/4/2019 8:51	0:01	SMRR	0.015	0.127	Oversupply
1/4/2019 8:51	0:01	KS	0.013	0.362	Oversupply
1/4/2019 8:52	4:30	BS250	0.013	1.785	Oversupply
1/4/2019 8:52	4:30	KWPPII	0.014	1.464	Oversupply
1/4/2019 8:52	0:01	SMRR	0.015	0.234	Oversupply
1/4/2019 8:52	0:01	KS	0.013	0.118	Oversupply
1/4/2019 8:52	4:30	SMRR	10.701	0.008	Oversupply
1/4/2019 8:53	4:31	KS	10.221	0.086	Oversupply
1/4/2019 11:31	0:03	AWE	0.014	2.098	Oversupply
1/4/2019 11:35	0:09	AWE	0.014	1.487	Oversupply
1/4/2019 11:45	0:02	AWE	0.014	0.903	Oversupply
1/4/2019 11:48	0:07	AWE	0.013	0.840	Oversupply
1/4/2019 13:01	0:13	AWE	0.015	0.948	Oversupply
1/4/2019 13:23	1:37	BS250	0.036	0.245	Oversupply
1/4/2019 13:23	1:37	KWPPII	0.641	0.021	Oversupply
1/4/2019 13:23	0:01	SMRR	0.035	0.190	Oversupply
1/4/2019 13:23	1:37	SMRR	4.072	0.227	Oversupply
1/4/2019 13:24	0:01	KS	0.041	0.699	Oversupply
1/4/2019 13:25	1:37	KS	4.358	0.012	Oversupply
1/4/2019 15:00	0:01	SMRR	0.009	0.003	Oversupply
1/4/2019 15:01	0:01	SMRR	0.008	0.610	Oversupply
1/4/2019 15:02	0:01	KS	0.025	0.507	Oversupply
1/4/2019 15:02	0:01	SMRR	0.009	0.684	Oversupply
1/4/2019 15:03	0:01	SMRR	0.009	0.299	Oversupply
1/4/2019 15:03	0:01	KS	0.025	0.271	Oversupply
1/4/2019 15:03	0:01	SMRR	0.009	0.888	Oversupply
1/4/2019 15:04	0:01	KS	0.025	0.267	Oversupply
1/4/2019 15:04	0:01	SMRR	0.008	1.770	Oversupply
1/4/2019 15:04	0:01	KS	0.025	0.406	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/4/2019 15:05	0:01	SMRR	0.009	1.576	Oversupply
1/4/2019 15:05	0:01	KS	0.025	0.791	Oversupply
1/4/2019 15:06	0:01	KS	0.024	0.559	Oversupply
1/4/2019 15:16	0:01	SMRR	0.004	1.564	Oversupply
1/4/2019 15:17	0:01	SMRR	0.004	1.307	Oversupply
1/4/2019 15:17	0:01	KS	0.027	0.330	Oversupply
1/4/2019 15:18	0:01	KS	0.027	0.381	Oversupply
1/4/2019 15:19	0:01	SMRR	0.004	1.344	Oversupply
1/4/2019 15:19	0:01	SMRR	0.004	1.046	Oversupply
1/4/2019 15:20	0:01	KS	0.027	0.235	Oversupply
1/4/2019 15:21	0:01	SMRR	0.004	1.421	Oversupply
1/4/2019 15:22	0:01	KS	0.027	0.414	Oversupply
1/4/2019 15:24	0:01	SMRR	0.004	1.830	Oversupply
1/4/2019 23:58	3:33	KWPPII	0.020	0.676	Oversupply
1/5/2019 3:33	0:04	KWPPII	0.021	0.568	Oversupply
1/5/2019 4:00	1:08	KWPPII	0.021	0.653	Oversupply
1/5/2019 4:07	0:10	AWE	0.021	0.499	Oversupply
1/5/2019 4:19	0:01	AWE	0.021	0.492	Oversupply
1/5/2019 4:28	0:09	AWE	0.021	0.735	Oversupply
1/5/2019 4:38	0:25	AWE	0.021	1.479	Oversupply
1/5/2019 5:10	1:40	KWPPII	0.021	1.123	Oversupply
1/5/2019 6:57	0:04	KWPPII	0.021	1.082	Oversupply
1/5/2019 7:47	0:01	BS250	0.021	1.376	Oversupply
1/5/2019 8:25	0:01	SMRR	0.002	0.708	Oversupply
1/5/2019 8:27	0:01	SMRR	0.002	0.740	Oversupply
1/5/2019 8:27	0:01	SMRR	0.002	0.757	Oversupply
1/5/2019 8:28	0:01	SMRR	0.002	0.707	Oversupply
1/5/2019 8:28	0:01	KS	0.001	0.523	Oversupply
1/5/2019 8:29	0:01	SMRR	0.004	0.648	Oversupply
1/5/2019 8:29	0:01	KS	0.002	0.589	Oversupply
1/5/2019 8:30	0:01	SMRR	0.011	0.529	Oversupply
1/5/2019 8:30	0:01	KS	0.006	0.355	Oversupply
1/5/2019 8:30	0:01	SMRR	0.011	0.224	Oversupply
1/5/2019 8:31	0:01	KS	0.006	0.203	Oversupply
1/5/2019 8:31	0:01	SMRR	0.010	0.137	Oversupply
1/5/2019 8:32	0:01	KS	0.006	0.202	Oversupply
1/5/2019 8:32	0:01	SMRR	0.011	0.680	Oversupply
1/5/2019 8:33	0:01	KS	0.006	0.445	Oversupply
1/5/2019 8:33	0:01	SMRR	0.011	0.259	Oversupply
1/5/2019 8:33	0:01	SMRR	0.011	0.442	Oversupply
1/5/2019 8:34	0:01	BS250	0.009	1.852	Oversupply
1/5/2019 8:34	0:01	KS	0.005	0.255	Oversupply
1/5/2019 8:34	0:02	SMRR	0.021	0.011	Oversupply
1/5/2019 8:34	0:01	KS	0.006	0.345	Oversupply
1/5/2019 8:35	0:02	KS	0.011	0.015	Oversupply
1/5/2019 8:36	0:01	SMRR	0.010	0.018	Oversupply
1/5/2019 8:37	0:01	SMRR	0.011	0.177	Oversupply
1/5/2019 8:37	0:01	KS	0.006	0.079	Oversupply
1/5/2019 8:37	0:01	SMRR	0.011	0.156	Oversupply
1/5/2019 8:38	0:01	SMRR	0.011	0.097	Oversupply
1/5/2019 8:39	0:01	KS	0.006	0.007	Oversupply
1/5/2019 8:39	0:01	SMRR	0.011	0.338	Oversupply
1/5/2019 8:40	0:01	KWPPII	0.022	0.180	Oversupply
1/5/2019 8:40	0:01	KS	0.006	0.263	Oversupply
1/5/2019 8:40	0:01	SMRR	0.011	0.345	Oversupply
1/5/2019 8:40	0:01	SMRR	0.010	0.121	Oversupply
1/5/2019 8:40	0:01	KS	0.006	0.368	Oversupply
1/5/2019 8:41	2:41	BS250	0.022	0.124	Oversupply
1/5/2019 8:41	0:01	SMRR	0.011	-0.001	Oversupply
1/5/2019 8:41	0:03	KS	0.023	0.024	Oversupply
1/5/2019 8:42	2:40	KWPPII	0.022	0.868	Oversupply
1/5/2019 8:42	2:40	SMRR	5.131	0.037	Oversupply
1/5/2019 8:45	0:01	KS	0.007	0.039	Oversupply
1/5/2019 8:46	2:38	KS	4.571	0.003	Oversupply
1/5/2019 11:22	0:01	SMRR	0.024	0.013	Oversupply
1/5/2019 11:23	0:01	SMRR	0.025	0.533	Oversupply
1/5/2019 11:24	0:01	KS	0.025	0.248	Oversupply
1/5/2019 11:24	0:01	SMRR	0.025	0.652	Oversupply
1/5/2019 11:25	0:01	SMRR	0.025	0.931	Oversupply
1/5/2019 11:25	0:01	KS	0.025	0.230	Oversupply
1/5/2019 11:25	0:01	SMRR	0.024	1.372	Oversupply
1/5/2019 11:25	0:01	KS	0.025	0.741	Oversupply
1/5/2019 11:26	0:01	KS	0.025	1.039	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/5/2019 11:29	0:01	SMRR	0.028	2.458	Oversupply
1/5/2019 11:30	0:01	SMRR	0.032	2.017	Oversupply
1/5/2019 11:31	0:07	BS250	0.011	0.009	Oversupply
1/5/2019 11:31	0:01	SMRR	0.032	1.088	Oversupply
1/5/2019 11:31	0:01	SMRR	0.031	0.177	Oversupply
1/5/2019 11:31	0:01	KS	0.037	1.551	Oversupply
1/5/2019 11:32	0:06	KWP11	0.019	0.231	Oversupply
1/5/2019 11:32	0:07	SMRR	0.284	0.008	Oversupply
1/5/2019 11:32	0:01	KS	0.037	0.623	Oversupply
1/5/2019 11:33	0:07	KS	0.292	0.033	Oversupply
1/5/2019 11:39	0:16	BS250	0.010	0.006	Oversupply
1/5/2019 11:39	0:01	SMRR	0.032	0.247	Oversupply
1/5/2019 11:40	0:15	KWP11	0.009	0.240	Oversupply
1/5/2019 11:40	0:15	SMRR	0.654	0.015	Oversupply
1/5/2019 11:40	0:01	KS	0.037	0.337	Oversupply
1/5/2019 11:41	0:16	KS	0.701	0.004	Oversupply
1/5/2019 11:55	0:01	SMRR	0.033	0.008	Oversupply
1/5/2019 11:56	0:01	SMRR	0.033	0.273	Oversupply
1/5/2019 11:57	0:01	KS	0.040	0.024	Oversupply
1/5/2019 11:57	0:01	SMRR	0.033	0.555	Oversupply
1/5/2019 11:57	0:01	SMRR	0.033	0.584	Oversupply
1/5/2019 11:57	0:01	KS	0.040	0.657	Oversupply
1/5/2019 11:58	0:01	SMRR	0.033	0.728	Oversupply
1/5/2019 11:58	0:02	KS	0.067	0.749	Oversupply
1/5/2019 11:59	0:01	SMRR	0.029	0.963	Oversupply
1/5/2019 12:00	0:01	SMRR	0.012	1.377	Oversupply
1/5/2019 12:00	0:01	KS	0.013	1.181	Oversupply
1/5/2019 12:00	0:01	SMRR	0.012	1.757	Oversupply
1/5/2019 12:01	0:01	KS	0.013	1.842	Oversupply
1/5/2019 12:01	0:01	SMRR	0.012	1.739	Oversupply
1/5/2019 12:02	0:01	KS	0.013	2.051	Oversupply
1/5/2019 12:02	0:01	SMRR	0.012	1.521	Oversupply
1/5/2019 12:03	0:01	KS	0.013	2.006	Oversupply
1/5/2019 12:03	0:01	SMRR	0.012	1.549	Oversupply
1/5/2019 12:03	0:01	SMRR	0.012	1.577	Oversupply
1/5/2019 12:03	0:01	KS	0.013	1.495	Oversupply
1/5/2019 12:04	0:01	SMRR	0.012	1.540	Oversupply
1/5/2019 12:04	0:01	KS	0.013	1.989	Oversupply
1/5/2019 12:05	0:01	KS	0.013	1.586	Oversupply
1/5/2019 12:07	0:01	SMRR	0.012	2.506	Oversupply
1/5/2019 12:07	0:01	SMRR	0.012	1.676	Oversupply
1/5/2019 12:08	0:01	KS	0.013	1.600	Oversupply
1/5/2019 12:08	0:01	SMRR	0.012	2.272	Oversupply
1/5/2019 12:09	0:01	KS	0.013	1.129	Oversupply
1/5/2019 12:09	0:01	SMRR	0.012	2.027	Oversupply
1/5/2019 12:10	0:01	SMRR	0.012	1.973	Oversupply
1/5/2019 12:10	0:01	KS	0.013	1.174	Oversupply
1/5/2019 12:10	0:01	SMRR	0.012	2.333	Oversupply
1/5/2019 12:10	0:01	KS	0.013	0.717	Oversupply
1/5/2019 12:11	0:01	SMRR	0.012	1.708	Oversupply
1/5/2019 12:12	0:01	SMRR	0.012	1.186	Oversupply
1/5/2019 12:12	0:01	KS	0.013	1.016	Oversupply
1/5/2019 12:13	0:01	SMRR	0.012	1.823	Oversupply
1/5/2019 12:13	0:01	KS	0.013	1.443	Oversupply
1/5/2019 12:14	0:01	KS	0.013	1.640	Oversupply
1/5/2019 12:15	0:01	KS	0.016	1.993	Oversupply
1/5/2019 12:16	0:01	KS	0.016	2.277	Oversupply
1/5/2019 12:16	0:01	SMRR	0.019	2.560	Oversupply
1/5/2019 12:17	0:01	SMRR	0.018	1.865	Oversupply
1/5/2019 12:17	0:01	KS	0.016	2.642	Oversupply
1/5/2019 12:18	0:01	KS	0.016	2.118	Oversupply
1/5/2019 12:19	0:01	SMRR	0.019	1.428	Oversupply
1/5/2019 12:19	0:01	SMRR	0.019	1.239	Oversupply
1/5/2019 12:20	0:01	KS	0.016	1.383	Oversupply
1/5/2019 12:20	0:01	SMRR	0.018	1.306	Oversupply
1/5/2019 12:21	0:01	KS	0.016	0.871	Oversupply
1/5/2019 12:21	0:01	SMRR	0.019	1.468	Oversupply
1/5/2019 12:22	0:01	KS	0.016	1.403	Oversupply
1/5/2019 12:22	0:01	SMRR	0.019	1.489	Oversupply
1/5/2019 12:23	0:01	KS	0.015	1.770	Oversupply
1/5/2019 12:23	0:01	SMRR	0.019	1.079	Oversupply
1/5/2019 12:23	0:01	SMRR	0.018	0.745	Oversupply
1/5/2019 12:23	0:01	KS	0.016	1.500	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/5/2019 12:24	0:01	SMRR	0.019	1.014	Oversupply
1/5/2019 12:24	0:01	KS	0.016	1.258	Oversupply
1/5/2019 12:25	0:01	SMRR	0.019	0.962	Oversupply
1/5/2019 12:25	0:01	KS	0.016	0.931	Oversupply
1/5/2019 12:26	0:01	SMRR	0.019	0.623	Oversupply
1/5/2019 12:26	0:01	KS	0.016	1.089	Oversupply
1/5/2019 12:26	0:01	SMRR	0.018	0.430	Oversupply
1/5/2019 12:27	0:01	KS	0.016	0.843	Oversupply
1/5/2019 12:27	0:01	SMRR	0.019	0.824	Oversupply
1/5/2019 12:28	0:01	KS	0.016	0.456	Oversupply
1/5/2019 12:28	0:01	SMRR	0.019	1.186	Oversupply
1/5/2019 12:29	0:01	KS	0.016	0.497	Oversupply
1/5/2019 12:29	0:01	SMRR	0.019	1.517	Oversupply
1/5/2019 12:29	0:01	SMRR	0.005	2.241	Oversupply
1/5/2019 12:29	0:01	KS	0.001	1.224	Oversupply
1/5/2019 12:30	0:01	KS	0.003	2.345	Oversupply
1/6/2019 11:53	0:01	SMRR	0.012	2.555	Oversupply
1/6/2019 11:54	0:01	SMRR	0.012	1.822	Oversupply
1/6/2019 11:54	0:01	KS	0.007	2.766	Oversupply
1/6/2019 11:55	0:01	SMRR	0.012	1.847	Oversupply
1/6/2019 11:55	0:01	KS	0.007	2.114	Oversupply
1/6/2019 11:55	0:01	SMRR	0.011	0.951	Oversupply
1/6/2019 11:56	0:01	KS	0.007	1.804	Oversupply
1/6/2019 11:56	0:01	SMRR	0.012	0.538	Oversupply
1/6/2019 11:57	0:01	KS	0.007	1.055	Oversupply
1/6/2019 11:57	0:01	SMRR	0.012	0.043	Oversupply
1/6/2019 11:58	0:01	KS	0.007	0.521	Oversupply
1/6/2019 11:58	0:01	SMRR	0.012	0.453	Oversupply
1/6/2019 11:58	0:01	SMRR	0.012	0.799	Oversupply
1/6/2019 11:58	0:01	KS	0.007	0.055	Oversupply
1/6/2019 11:59	0:01	SMRR	0.024	0.395	Oversupply
1/6/2019 11:59	0:01	KS	0.028	1.012	Oversupply
1/6/2019 12:00	0:01	KWP11	0.022	1.055	Oversupply
1/6/2019 12:00	0:01	SMRR	0.033	0.027	Oversupply
1/6/2019 12:00	0:01	KS	0.036	0.555	Oversupply
1/6/2019 12:01	0:01	SMRR	0.033	0.066	Oversupply
1/6/2019 12:01	0:01	KS	0.036	0.071	Oversupply
1/6/2019 12:01	0:07	SMRR	0.299	0.040	Oversupply
1/6/2019 12:02	0:05	BS250	0.022	0.365	Oversupply
1/6/2019 12:02	0:06	KWP11	0.022	0.208	Oversupply
1/6/2019 12:02	0:01	KS	0.036	0.087	Oversupply
1/6/2019 12:03	0:07	KS	0.288	0.032	Oversupply
1/6/2019 12:08	0:01	SMRR	0.033	0.135	Oversupply
1/6/2019 12:09	0:01	SMRR	0.033	0.360	Oversupply
1/6/2019 12:10	0:01	KS	0.036	0.798	Oversupply
1/6/2019 12:10	0:01	SMRR	0.033	0.595	Oversupply
1/6/2019 12:11	1:25	BS250	0.027	0.239	Oversupply
1/6/2019 12:11	1:26	KWP11	0.027	0.326	Oversupply
1/6/2019 12:11	0:01	KS	0.036	1.043	Oversupply
1/6/2019 12:11	0:01	SMRR	0.033	1.506	Oversupply
1/6/2019 12:11	1:26	SMRR	4.002	0.852	Oversupply
1/6/2019 12:11	0:01	KS	0.035	0.798	Oversupply
1/6/2019 12:12	0:01	KS	0.036	0.300	Oversupply
1/6/2019 12:13	1:25	KS	3.950	0.017	Oversupply
1/6/2019 12:18	0:23	AWE	0.006	1.865	Oversupply
1/6/2019 12:42	0:09	AWE	0.005	2.164	Oversupply
1/6/2019 12:53	0:01	AWE	0.005	1.981	Oversupply
1/6/2019 12:56	0:18	AWE	0.005	2.110	Oversupply
1/6/2019 13:15	0:15	AWE	0.005	2.130	Oversupply
1/6/2019 13:37	0:01	SMRR	0.032	0.077	Oversupply
1/6/2019 13:38	0:01	KS	0.038	0.003	Oversupply
1/6/2019 13:38	0:01	SMRR	0.033	0.282	Oversupply
1/6/2019 13:39	0:11	BS250	0.005	1.371	Oversupply
1/6/2019 13:39	0:10	KWP11	0.005	1.440	Oversupply
1/6/2019 13:39	0:01	SMRR	0.033	0.525	Oversupply
1/6/2019 13:39	0:01	KS	0.038	0.497	Oversupply
1/6/2019 13:39	0:10	SMRR	0.381	1.216	Oversupply
1/6/2019 13:40	0:01	KS	0.038	1.294	Oversupply
1/6/2019 13:40	0:10	KS	0.374	1.048	Oversupply
1/6/2019 13:49	0:01	SMRR	0.026	-0.003	Oversupply
1/6/2019 13:50	0:01	KS	0.031	0.013	Oversupply
1/6/2019 13:50	0:01	SMRR	0.025	-0.003	Oversupply
1/6/2019 13:51	0:02	KS	0.061	0.156	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/6/2019 13:51	0:01	SMRR	0.026	-0.003	Oversupply
1/6/2019 13:52	0:01	SMRR	0.027	-0.003	Oversupply
1/6/2019 13:52	0:01	SMRR	0.025	-0.003	Oversupply
1/6/2019 13:52	0:01	KS	0.031	0.706	Oversupply
1/6/2019 13:53	0:01	SMRR	0.027	0.015	Oversupply
1/6/2019 13:53	0:01	KS	0.031	0.992	Oversupply
1/6/2019 13:54	0:01	SMRR	0.025	0.304	Oversupply
1/6/2019 13:54	0:01	KS	0.031	1.121	Oversupply
1/6/2019 13:55	0:01	SMRR	0.025	0.676	Oversupply
1/6/2019 13:55	0:01	KS	0.031	1.259	Oversupply
1/6/2019 13:55	0:01	SMRR	0.026	1.009	Oversupply
1/6/2019 13:56	0:01	KS	0.031	1.703	Oversupply
1/7/2019 7:41	53:22	AWE	0.031	0.356	System Constraint
1/7/2019 10:26	0:01	SMRR	0.002	2.157	System Constraint
1/7/2019 10:27	0:01	SMRR	0.002	2.018	System Constraint
1/7/2019 10:28	0:01	KS	-0.002	1.707	System Constraint
1/7/2019 10:46	0:01	SMRR	0.002	2.318	System Constraint
1/7/2019 10:47	0:01	KS	-0.001	2.523	System Constraint
1/8/2019 3:43	0:08	KWPPII	0.027	0.529	Oversupply
1/8/2019 16:15	0:01	KWPPII	0.027	0.528	System Constraint
1/10/2019 10:59	0:10	AWE	0.027	0.987	System Constraint
1/10/2019 10:59	0:01	SMRR	0.000	1.722	System Constraint
1/10/2019 11:15	0:01	AWE	0.027	0.397	System Constraint
1/10/2019 12:52	0:01	KS	0.000	1.188	System Constraint
1/10/2019 12:54	0:02	SMRR	0.011	2.609	System Constraint
1/10/2019 12:55	0:01	SMRR	0.005	1.903	System Constraint
1/10/2019 12:56	0:01	KS	0.000	0.957	System Constraint
1/10/2019 12:56	0:01	SMRR	0.005	1.814	System Constraint
1/10/2019 12:57	0:01	KS	0.000	0.743	System Constraint
1/10/2019 12:57	0:01	SMRR	0.005	2.079	System Constraint
1/10/2019 12:58	0:01	SMRR	0.005	1.834	System Constraint
1/10/2019 12:58	0:01	KS	0.000	0.822	System Constraint
1/10/2019 12:59	0:01	SMRR	0.005	1.883	System Constraint
1/10/2019 12:59	0:01	KS	0.000	0.824	System Constraint
1/10/2019 12:59	0:01	SMRR	0.011	1.855	System Constraint
1/10/2019 13:00	0:01	KS	0.005	0.930	System Constraint
1/10/2019 13:00	0:01	SMRR	0.014	2.276	System Constraint
1/10/2019 13:00	0:01	KS	0.005	0.887	System Constraint
1/10/2019 13:01	0:01	SMRR	0.014	2.139	System Constraint
1/10/2019 13:01	0:01	KS	0.005	1.133	System Constraint
1/10/2019 13:02	0:01	SMRR	0.013	2.145	System Constraint
1/10/2019 13:02	0:01	KS	0.005	0.934	System Constraint
1/10/2019 13:02	0:01	SMRR	0.014	1.972	System Constraint
1/10/2019 13:03	0:01	KS	0.005	1.045	System Constraint
1/10/2019 13:03	0:01	SMRR	0.013	2.450	System Constraint
1/10/2019 13:04	0:01	KS	0.005	1.133	System Constraint
1/10/2019 13:04	0:01	SMRR	0.014	2.568	System Constraint
1/10/2019 13:05	0:01	SMRR	0.014	2.624	System Constraint
1/10/2019 13:05	0:01	SMRR	0.014	2.226	System Constraint
1/10/2019 13:06	0:01	SMRR	0.013	1.785	System Constraint
1/10/2019 13:06	0:01	KS	0.005	1.142	System Constraint
1/10/2019 13:07	0:01	SMRR	0.014	1.464	System Constraint
1/10/2019 13:07	0:02	KS	0.010	0.929	System Constraint
1/10/2019 13:08	0:01	SMRR	0.014	1.351	System Constraint
1/10/2019 13:08	0:01	SMRR	0.014	1.811	System Constraint
1/10/2019 13:09	0:01	KS	0.005	0.629	System Constraint
1/10/2019 13:09	0:01	SMRR	0.014	1.858	System Constraint
1/10/2019 13:10	0:01	KS	0.005	0.721	System Constraint
1/10/2019 13:10	0:01	SMRR	0.013	1.708	System Constraint
1/10/2019 13:11	0:01	SMRR	0.014	2.098	System Constraint
1/10/2019 13:11	0:01	KS	0.005	0.518	System Constraint
1/10/2019 13:12	0:01	SMRR	0.014	1.487	System Constraint
1/10/2019 13:12	0:01	KS	0.005	0.591	System Constraint
1/10/2019 13:12	0:01	SMRR	0.014	0.903	System Constraint
1/10/2019 13:12	0:01	KS	0.005	0.647	System Constraint
1/10/2019 13:13	0:01	SMRR	0.013	0.840	System Constraint
1/10/2019 13:13	0:01	KS	0.005	0.523	System Constraint
1/10/2019 13:14	0:14	BS250	0.030	1.436	System Constraint
1/10/2019 13:14	0:01	SMRR	0.015	0.948	System Constraint
1/10/2019 13:14	0:01	KS	0.014	0.621	System Constraint
1/10/2019 13:15	0:14	KWPPII	0.008	1.702	System Constraint
1/10/2019 13:15	0:01	SMRR	0.036	0.245	System Constraint
1/10/2019 13:15	0:01	KS	0.041	0.769	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/10/2019 13:15	0:14	SMRR	0.641	0.021	System Constraint
1/10/2019 13:16	0:15	KS	0.666	0.028	System Constraint
1/10/2019 13:17	0:01	AWE	0.212	0.121	System Constraint
1/10/2019 13:19	0:03	AWE	0.031	0.212	System Constraint
1/10/2019 13:27	0:01	AWE	0.030	0.747	System Constraint
1/10/2019 13:29	0:01	SMRR	0.029	-0.004	System Constraint
1/10/2019 13:30	0:01	KWP2	0.031	0.601	System Constraint
1/10/2019 13:30	0:01	SMRR	0.022	-0.003	System Constraint
1/10/2019 13:31	0:01	KS	0.023	0.318	System Constraint
1/10/2019 13:31	0:01	SMRR	0.022	-0.003	System Constraint
1/10/2019 13:31	0:01	SMRR	0.022	-0.003	System Constraint
1/10/2019 13:31	0:01	KS	0.023	0.162	System Constraint
1/10/2019 13:32	0:01	SMRR	0.022	-0.003	System Constraint
1/10/2019 13:32	0:01	KS	0.023	0.134	System Constraint
1/10/2019 13:33	0:01	SMRR	0.022	0.045	System Constraint
1/10/2019 13:33	0:01	KS	0.023	0.473	System Constraint
1/10/2019 13:34	0:01	SMRR	0.022	0.363	System Constraint
1/10/2019 13:34	0:01	KS	0.023	0.758	System Constraint
1/10/2019 13:34	0:01	SMRR	0.022	0.694	System Constraint
1/10/2019 13:35	0:01	KS	0.023	1.631	System Constraint
1/10/2019 13:35	0:01	SMRR	0.022	1.092	System Constraint
1/10/2019 13:36	0:01	KS	0.023	1.244	System Constraint
1/10/2019 13:36	0:02	SMRR	0.045	1.284	System Constraint
1/10/2019 13:37	0:01	KS	0.023	0.537	System Constraint
1/10/2019 13:38	0:01	SMRR	0.023	1.358	System Constraint
1/10/2019 13:38	0:01	KS	0.023	1.013	System Constraint
1/10/2019 13:38	0:01	SMRR	0.022	1.135	System Constraint
1/10/2019 13:38	0:01	KS	0.023	1.488	System Constraint
1/10/2019 13:39	0:01	SMRR	0.023	1.877	System Constraint
1/10/2019 13:39	0:01	KS	0.024	1.308	System Constraint
1/10/2019 13:40	0:02	SMRR	0.044	1.836	System Constraint
1/10/2019 13:40	0:01	KS	0.023	1.593	System Constraint
1/10/2019 13:41	0:01	KS	0.023	1.116	System Constraint
1/10/2019 13:41	0:01	SMRR	0.022	1.963	System Constraint
1/10/2019 13:42	0:01	KS	0.023	0.949	System Constraint
1/10/2019 13:42	0:01	SMRR	0.022	1.468	System Constraint
1/10/2019 13:43	0:01	KS	0.023	1.220	System Constraint
1/10/2019 13:43	0:01	SMRR	0.022	1.846	System Constraint
1/10/2019 13:44	0:01	KS	0.023	1.075	System Constraint
1/10/2019 13:44	0:01	SMRR	0.022	1.862	System Constraint
1/10/2019 13:44	0:01	SMRR	0.021	1.803	System Constraint
1/10/2019 13:45	0:01	KS	0.019	1.165	System Constraint
1/10/2019 13:45	0:01	SMRR	0.021	2.020	System Constraint
1/10/2019 13:45	0:01	KS	0.019	0.993	System Constraint
1/10/2019 13:46	0:01	SMRR	0.021	2.409	System Constraint
1/10/2019 13:46	0:01	KS	0.019	1.231	System Constraint
1/10/2019 13:47	0:01	SMRR	0.021	1.286	System Constraint
1/10/2019 13:47	0:01	KS	0.019	1.351	System Constraint
1/10/2019 13:47	0:01	SMRR	0.021	1.135	System Constraint
1/10/2019 13:48	0:01	KS	0.019	0.812	System Constraint
1/10/2019 13:48	0:01	SMRR	0.020	0.743	System Constraint
1/10/2019 13:49	0:02	KS	0.038	0.601	System Constraint
1/10/2019 13:49	0:01	SMRR	0.021	0.760	System Constraint
1/10/2019 13:50	0:01	SMRR	0.021	0.887	System Constraint
1/10/2019 13:50	0:01	KS	0.019	0.601	System Constraint
1/10/2019 13:51	0:01	SMRR	0.021	0.303	System Constraint
1/10/2019 13:51	0:01	SMRR	0.020	0.676	System Constraint
1/10/2019 13:51	0:01	KS	0.019	0.199	System Constraint
1/10/2019 13:52	0:01	SMRR	0.021	0.568	System Constraint
1/10/2019 13:52	0:01	KS	0.019	0.709	System Constraint
1/10/2019 13:53	0:01	SMRR	0.021	0.653	System Constraint
1/10/2019 13:53	0:01	KS	0.019	0.721	System Constraint
1/10/2019 13:54	0:01	SMRR	0.021	0.499	System Constraint
1/10/2019 13:54	0:01	KS	0.019	0.726	System Constraint
1/10/2019 13:54	0:01	SMRR	0.021	0.492	System Constraint
1/10/2019 13:55	0:01	KS	0.019	0.302	System Constraint
1/10/2019 13:55	0:01	SMRR	0.021	0.735	System Constraint
1/10/2019 13:56	0:01	KS	0.019	0.384	System Constraint
1/10/2019 13:56	0:01	SMRR	0.021	1.479	System Constraint
1/10/2019 13:57	0:01	KS	0.019	0.917	System Constraint
1/10/2019 13:57	0:01	SMRR	0.021	1.123	System Constraint
1/10/2019 13:57	0:01	KS	0.019	1.055	System Constraint
1/10/2019 13:57	0:01	SMRR	0.021	1.082	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/10/2019 13:58	0:01	SMRR	0.021	1.376	System Constraint
1/10/2019 13:58	0:01	KS	0.019	1.098	System Constraint
1/10/2019 13:59	0:01	SMRR	0.018	1.744	System Constraint
1/10/2019 13:59	0:01	KS	0.015	1.211	System Constraint
1/10/2019 14:00	0:01	SMRR	0.009	1.608	System Constraint
1/10/2019 14:00	0:01	KS	0.009	1.482	System Constraint
1/10/2019 14:00	0:01	SMRR	0.009	0.899	System Constraint
1/10/2019 14:01	0:01	KS	0.009	1.154	System Constraint
1/10/2019 14:01	0:01	SMRR	0.009	1.790	System Constraint
1/10/2019 14:02	0:01	KS	0.009	0.833	System Constraint
1/10/2019 14:02	0:01	SMRR	0.009	1.817	System Constraint
1/10/2019 14:03	0:01	KS	0.009	1.175	System Constraint
1/10/2019 14:03	0:01	SMRR	0.009	0.957	System Constraint
1/10/2019 14:03	0:01	KS	0.009	1.092	System Constraint
1/10/2019 14:04	0:01	SMRR	0.009	1.158	System Constraint
1/10/2019 14:04	0:01	SMRR	0.009	1.723	System Constraint
1/10/2019 14:04	0:01	KS	0.009	0.970	System Constraint
1/10/2019 14:05	0:01	SMRR	0.009	1.492	System Constraint
1/10/2019 14:05	0:01	KS	0.009	1.821	System Constraint
1/10/2019 14:06	0:01	SMRR	0.009	1.600	System Constraint
1/10/2019 14:06	0:01	KS	0.009	1.286	System Constraint
1/10/2019 14:07	0:01	KS	0.009	1.066	System Constraint
1/11/2019 17:05	0:01	AWE	0.018	1.038	System Constraint
1/12/2019 11:55	0:01	SMRR	0.004	2.714	Oversupply
1/12/2019 11:56	0:01	SMRR	0.004	2.529	Oversupply
1/12/2019 11:57	0:01	SMRR	0.004	2.371	Oversupply
1/12/2019 11:57	0:01	KS	0.002	2.643	Oversupply
1/12/2019 11:57	0:01	SMRR	0.004	2.261	Oversupply
1/12/2019 11:58	0:01	SMRR	0.004	2.035	Oversupply
1/12/2019 11:58	0:01	KS	0.002	2.539	Oversupply
1/12/2019 11:59	0:01	SMRR	0.005	1.635	Oversupply
1/12/2019 11:59	0:01	KS	0.005	2.242	Oversupply
1/12/2019 12:00	0:01	SMRR	0.009	1.548	Oversupply
1/12/2019 12:00	0:01	KS	0.008	2.028	Oversupply
1/12/2019 12:00	0:01	SMRR	0.009	1.852	Oversupply
1/12/2019 12:01	0:01	KS	0.008	1.595	Oversupply
1/12/2019 12:01	0:01	SMRR	0.009	1.998	Oversupply
1/12/2019 12:02	0:01	KS	0.008	1.377	Oversupply
1/12/2019 12:02	0:01	SMRR	0.009	1.713	Oversupply
1/12/2019 12:02	0:01	KS	0.008	1.988	Oversupply
1/12/2019 12:03	0:01	SMRR	0.009	1.498	Oversupply
1/12/2019 12:03	0:01	KS	0.008	1.412	Oversupply
1/12/2019 12:03	0:01	SMRR	0.009	1.685	Oversupply
1/12/2019 12:04	0:01	KS	0.008	1.358	Oversupply
1/12/2019 12:04	0:01	SMRR	0.009	1.632	Oversupply
1/12/2019 12:05	0:01	KS	0.008	1.030	Oversupply
1/12/2019 12:06	0:01	SMRR	0.009	1.198	Oversupply
1/12/2019 12:06	0:01	KS	0.007	1.705	Oversupply
1/12/2019 12:06	0:01	SMRR	0.009	1.011	Oversupply
1/12/2019 12:08	0:01	KS	0.008	2.214	Oversupply
1/16/2019 3:21	0:03	AWE	0.019	1.390	Oversupply
1/16/2019 3:21	0:15	KWP11	0.019	1.790	Oversupply
1/16/2019 3:25	0:06	AWE	0.019	1.802	Oversupply
1/16/2019 3:38	0:15	KWP11	0.019	1.636	Oversupply
1/16/2019 3:47	0:06	AWE	0.020	1.349	Oversupply
1/16/2019 10:27	0:01	SMRR	0.003	2.188	Oversupply
1/16/2019 10:27	0:01	SMRR	0.003	2.130	Oversupply
1/16/2019 10:28	0:01	KS	0.000	1.041	Oversupply
1/16/2019 10:28	0:01	SMRR	0.003	1.290	Oversupply
1/16/2019 10:29	0:01	KS	0.005	1.060	Oversupply
1/16/2019 10:29	0:01	SMRR	0.007	0.775	Oversupply
1/16/2019 10:30	0:01	SMRR	0.022	0.180	Oversupply
1/16/2019 10:30	0:01	KS	0.017	0.463	Oversupply
1/16/2019 10:31	0:01	BS250	0.023	0.795	Oversupply
1/16/2019 10:31	0:01	SMRR	0.023	0.589	Oversupply
1/16/2019 10:31	0:01	KS	0.017	0.207	Oversupply
1/16/2019 10:31	0:01	SMRR	0.022	0.401	Oversupply
1/16/2019 10:32	0:01	KS	0.017	0.407	Oversupply
1/16/2019 10:32	0:02	SMRR	0.045	0.183	Oversupply
1/16/2019 10:32	0:01	KS	0.016	0.398	Oversupply
1/16/2019 10:33	0:03	KS	0.068	0.113	Oversupply
1/16/2019 10:34	0:01	SMRR	0.022	0.398	Oversupply
1/16/2019 10:34	0:01	SMRR	0.022	0.124	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/16/2019 10:35	0:01	SMRR	0.022	0.386	Oversupply
1/16/2019 10:36	0:01	SMRR	0.022	0.668	Oversupply
1/16/2019 10:37	0:01	SMRR	0.022	0.868	Oversupply
1/16/2019 10:37	0:01	SMRR	0.022	1.207	Oversupply
1/16/2019 10:38	0:04	BS250	0.023	0.742	Oversupply
1/16/2019 10:38	0:01	KS	0.016	0.443	Oversupply
1/16/2019 10:38	0:01	SMRR	0.022	1.052	Oversupply
1/16/2019 10:39	0:02	KWP II	0.022	0.244	Oversupply
1/16/2019 10:39	0:04	SMRR	0.112	0.223	Oversupply
1/16/2019 10:39	0:01	KS	0.017	0.439	Oversupply
1/16/2019 10:40	0:03	KS	0.067	0.427	Oversupply
1/16/2019 10:43	0:01	SMRR	0.022	-0.002	Oversupply
1/16/2019 10:44	0:01	SMRR	0.022	-0.002	Oversupply
1/16/2019 10:44	0:01	KS	0.017	-0.002	Oversupply
1/16/2019 10:44	0:01	SMRR	0.013	-0.003	Oversupply
1/16/2019 10:44	0:01	KS	0.008	-0.002	Oversupply
1/16/2019 10:45	0:01	SMRR	0.009	0.009	Oversupply
1/16/2019 10:45	0:01	KS	0.005	-0.002	Oversupply
1/16/2019 14:16	0:01	SMRR	0.000	0.440	Oversupply
1/16/2019 14:18	0:01	KS	0.000	1.971	Oversupply
1/16/2019 23:11	0:09	KWP II	0.020	1.120	Oversupply
1/17/2019 0:02	0:26	KWP II	0.020	0.744	Oversupply
1/17/2019 0:29	0:03	KWP II	0.020	0.661	Oversupply
1/17/2019 0:33	0:35	KWP II	0.020	0.677	Oversupply
1/17/2019 1:09	0:02	KWP II	0.020	1.038	Oversupply
1/17/2019 1:12	0:01	KWP II	0.021	1.270	Oversupply
1/17/2019 1:15	2:47	KWP II	0.020	1.559	Oversupply
1/17/2019 5:29	0:04	KWP II	0.018	1.833	System Constraint
1/17/2019 5:42	0:01	KWP II	0.004	2.027	System Constraint
1/17/2019 5:47	0:04	KWP II	0.004	2.324	System Constraint
1/17/2019 9:16	0:01	SMRR	0.001	0.662	System Constraint
1/17/2019 9:18	2:15	KWP II	0.004	2.225	System Constraint
1/17/2019 9:18	0:01	SMRR	0.001	1.477	System Constraint
1/17/2019 9:20	0:01	SMRR	0.001	1.567	System Constraint
1/17/2019 9:26	0:01	KWP	0.005	2.688	System Constraint
1/17/2019 9:29	0:01	KWP	0.005	2.400	System Constraint
1/17/2019 9:51	1:42	BS250	0.005	2.304	System Constraint
1/17/2019 9:51	0:02	SMRR	0.013	0.883	System Constraint
1/17/2019 9:53	0:01	SMRR	0.007	0.021	System Constraint
1/17/2019 9:53	3:12	KS	4.237	1.882	System Constraint
1/17/2019 9:54	1:39	SMRR	1.890	0.018	System Constraint
1/17/2019 11:32	0:01	SMRR	0.011	0.009	System Constraint
1/17/2019 11:33	0:02	SMRR	0.022	0.015	System Constraint
1/17/2019 11:34	1:12	BS250	0.013	1.930	System Constraint
1/17/2019 11:34	1:29	KWP II	0.014	2.042	System Constraint
1/17/2019 11:35	0:01	SMRR	0.011	0.108	System Constraint
1/17/2019 11:35	1:29	SMRR	2.096	0.004	System Constraint
1/17/2019 12:08	0:01	AWE	0.014	2.044	System Constraint
1/17/2019 12:15	0:01	AWE	0.013	1.804	System Constraint
1/17/2019 12:19	0:08	AWE	0.014	1.683	System Constraint
1/17/2019 12:30	0:02	AWE	0.014	1.553	System Constraint
1/17/2019 12:33	0:23	AWE	0.014	1.652	System Constraint
1/17/2019 12:44	0:02	5A	Data is not available	Data is not available	System Constraint
1/17/2019 12:44	0:02	BS	0.014	1.664	System Constraint
1/17/2019 12:56	0:05	BS250	0.014	1.399	System Constraint
1/17/2019 13:02	0:01	BS250	0.014	1.809	System Constraint
1/17/2019 13:04	0:01	SMRR	0.019	0.231	System Constraint
1/17/2019 13:05	0:13	BS250	0.014	1.999	System Constraint
1/17/2019 13:05	0:01	SMRR	0.020	0.789	System Constraint
1/17/2019 13:05	0:01	SMRR	0.020	0.826	System Constraint
1/17/2019 13:06	0:02	AWE	0.004	2.276	System Constraint
1/17/2019 13:06	0:13	KWP II	0.004	2.654	System Constraint
1/17/2019 13:06	0:01	KS	0.030	1.124	System Constraint
1/17/2019 13:06	0:09	SMRR	0.222	0.509	System Constraint
1/17/2019 13:07	0:01	KS	0.030	1.290	System Constraint
1/17/2019 13:07	0:13	KS	0.370	0.818	System Constraint
1/17/2019 13:15	0:01	SMRR	0.010	0.006	System Constraint
1/17/2019 13:16	0:03	SMRR	0.039	0.015	System Constraint
1/17/2019 13:19	0:01	SMRR	0.009	0.240	System Constraint
1/17/2019 13:20	0:01	SMRR	0.010	0.454	System Constraint
1/17/2019 13:20	0:01	KS	0.019	0.257	System Constraint
1/17/2019 13:21	0:01	SMRR	0.010	0.526	System Constraint
1/17/2019 13:21	0:01	KS	0.019	1.012	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/17/2019 13:22	0:01	KS	0.019	1.424	System Constraint
1/17/2019 13:29	0:01	SMRR	0.013	1.132	System Constraint
1/17/2019 13:30	0:01	SMRR	0.019	0.912	System Constraint
1/17/2019 13:31	0:01	KS	0.030	2.170	System Constraint
1/17/2019 13:31	0:01	SMRR	0.019	0.819	System Constraint
1/17/2019 13:32	0:01	SMRR	0.019	0.364	System Constraint
1/17/2019 13:32	0:01	KS	0.030	1.257	System Constraint
1/17/2019 13:32	0:02	SMRR	0.038	0.586	System Constraint
1/17/2019 13:32	0:01	KS	0.030	1.017	System Constraint
1/17/2019 13:33	0:01	KS	0.030	0.910	System Constraint
1/17/2019 13:34	0:01	SMRR	0.019	0.134	System Constraint
1/17/2019 13:34	0:01	KS	0.030	1.074	System Constraint
1/17/2019 13:35	0:01	BS250	0.005	0.128	System Constraint
1/17/2019 13:35	0:01	SMRR	0.019	0.396	System Constraint
1/17/2019 13:35	0:01	KS	0.030	0.345	System Constraint
1/17/2019 13:35	0:01	SMRR	0.019	0.295	System Constraint
1/17/2019 13:36	0:01	KS	0.030	0.505	System Constraint
1/17/2019 13:36	0:01	SMRR	0.019	0.113	System Constraint
1/17/2019 13:37	0:01	KS	0.030	0.865	System Constraint
1/17/2019 13:37	0:01	SMRR	0.019	0.054	System Constraint
1/17/2019 13:38	0:39	BS250	0.005	2.364	System Constraint
1/17/2019 13:38	0:01	SMRR	0.019	0.325	System Constraint
1/17/2019 13:38	0:01	KS	0.030	0.019	System Constraint
1/17/2019 13:38	0:40	SMRR	1.670	0.014	System Constraint
1/17/2019 13:39	0:39	KWPPII	0.005	0.811	System Constraint
1/17/2019 13:39	0:01	KS	0.029	0.547	System Constraint
1/17/2019 13:39	0:01	KS	0.030	0.175	System Constraint
1/17/2019 13:40	0:40	KS	1.821	0.101	System Constraint
1/17/2019 14:18	0:01	SMRR	0.029	0.005	System Constraint
1/17/2019 14:19	0:01	SMRR	0.028	0.270	System Constraint
1/17/2019 14:20	0:01	SMRR	0.029	0.241	System Constraint
1/17/2019 14:20	0:01	KS	0.038	0.248	System Constraint
1/17/2019 14:20	0:01	SMRR	0.030	0.083	System Constraint
1/17/2019 14:21	0:01	KWPPII	0.022	0.250	System Constraint
1/17/2019 14:21	0:01	KS	0.038	0.168	System Constraint
1/17/2019 14:21	0:01	SMRR	0.028	0.682	System Constraint
1/17/2019 14:22	0:01	KS	0.038	0.308	System Constraint
1/17/2019 14:22	0:01	SMRR	0.029	0.278	System Constraint
1/17/2019 14:23	0:02	BS250	0.008	1.437	System Constraint
1/17/2019 14:23	0:01	KS	0.038	0.512	System Constraint
1/17/2019 14:23	0:01	SMRR	0.030	0.085	System Constraint
1/17/2019 14:23	0:01	KS	0.038	0.168	System Constraint
1/17/2019 14:24	0:01	SMRR	0.029	0.283	System Constraint
1/17/2019 14:24	0:01	KWPPII	0.008	1.359	System Constraint
1/17/2019 14:24	0:02	SMRR	0.057	0.014	System Constraint
1/17/2019 14:24	0:01	KS	0.037	0.010	System Constraint
1/17/2019 14:25	0:01	KS	0.038	0.264	System Constraint
1/17/2019 14:26	0:01	SMRR	0.029	0.349	System Constraint
1/17/2019 14:26	0:01	KS	0.038	0.015	System Constraint
1/17/2019 14:27	0:01	KS	0.038	0.283	System Constraint
1/17/2019 14:27	0:01	SMRR	0.028	1.498	System Constraint
1/17/2019 14:29	0:01	KS	0.038	0.951	System Constraint
1/17/2019 14:29	0:01	SMRR	0.026	1.494	System Constraint
1/17/2019 14:29	0:01	KS	0.009	0.955	System Constraint
1/18/2019 22:23	7:06	KWPPII	0.004	0.794	Oversupply
1/19/2019 2:42	0:01	AWE	0.004	1.224	Oversupply
1/19/2019 2:44	0:52	AWE	0.004	1.248	Oversupply
1/19/2019 3:38	0:06	AWE	0.004	1.544	Oversupply
1/19/2019 3:45	1:30	AWE	0.004	1.584	Oversupply
1/19/2019 5:17	0:01	AWE	0.004	0.924	Oversupply
1/19/2019 5:19	0:06	AWE	0.004	0.398	Oversupply
1/19/2019 5:31	0:34	KWPPII	0.008	0.006	Oversupply
1/19/2019 6:06	0:04	KWPPII	0.008	0.755	Oversupply
1/19/2019 6:25	0:02	KWPPII	0.014	0.257	Oversupply
1/19/2019 6:28	0:11	KWPPII	0.141	0.014	Oversupply
1/19/2019 9:14	0:01	KS	0.008	1.159	Oversupply
1/19/2019 9:16	0:01	KS	0.013	1.091	Oversupply
1/19/2019 9:16	0:01	SMRR	0.013	1.548	Oversupply
1/19/2019 9:17	0:01	SMRR	0.014	1.186	Oversupply
1/19/2019 9:18	0:01	KS	0.013	0.861	Oversupply
1/19/2019 9:18	0:01	SMRR	0.014	0.935	Oversupply
1/19/2019 9:19	3:55	BS250	0.001	0.329	Oversupply
1/19/2019 9:19	0:01	SMRR	0.014	0.078	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/19/2019 9:19	0:01	KS	0.013	1.293	Oversupply
1/19/2019 9:19	0:01	SMRR	0.013	0.496	Oversupply
1/19/2019 9:19	0:01	KS	0.013	0.214	Oversupply
1/19/2019 9:20	4:51	KWPIL	0.021	0.005	Oversupply
1/19/2019 9:20	3:55	SMRR	9.359	0.189	Oversupply
1/19/2019 9:20	0:01	KS	0.013	0.250	Oversupply
1/19/2019 9:21	3:54	KS	8.857	0.222	Oversupply
1/19/2019 10:17	0:01	AWE	0.007	0.886	Oversupply
1/19/2019 10:25	0:05	AWE	0.007	0.315	Oversupply
1/19/2019 10:36	0:08	AWE	0.007	0.353	Oversupply
1/19/2019 11:45	0:02	AWE	0.007	0.611	Oversupply
1/19/2019 13:10	0:01	AWE	0.004	1.065	Oversupply
1/19/2019 13:13	0:02	KWP	0.004	0.303	Oversupply
1/19/2019 13:16	0:01	SMRR	0.025	1.986	Oversupply
1/19/2019 13:17	0:57	SMRR	2.511	2.244	Oversupply
1/19/2019 13:17	0:01	KS	0.037	1.175	Oversupply
1/19/2019 13:18	0:01	KS	0.035	1.429	Oversupply
1/19/2019 13:19	0:20	KS	0.888	1.724	Oversupply
1/19/2019 13:26	0:02	AWE	0.004	1.047	Oversupply
1/19/2019 13:27	0:46	BS250	0.004	0.989	Oversupply
1/19/2019 13:39	0:01	KS	0.041	0.004	Oversupply
1/19/2019 13:40	0:36	KS	1.705	0.004	Oversupply
1/19/2019 13:41	0:01	AWE	0.004	0.834	Oversupply
1/19/2019 13:43	0:03	AWE	0.851	0.017	Oversupply
1/19/2019 14:13	0:02	KWPIL	0.011	0.316	Oversupply
1/19/2019 14:14	0:01	SMRR	0.025	0.146	Oversupply
1/19/2019 14:15	0:01	BS250	0.011	0.783	Oversupply
1/19/2019 14:15	0:01	SMRR	0.024	0.071	Oversupply
1/19/2019 14:16	0:01	KS	0.030	0.338	Oversupply
1/19/2019 14:16	0:01	SMRR	0.024	0.002	Oversupply
1/19/2019 14:17	0:01	SMRR	0.024	0.258	Oversupply
1/19/2019 14:17	0:01	KS	0.030	0.434	Oversupply
1/19/2019 14:17	0:01	SMRR	0.024	0.338	Oversupply
1/19/2019 14:18	0:01	KS	0.030	0.010	Oversupply
1/19/2019 14:18	0:01	SMRR	0.025	0.761	Oversupply
1/19/2019 14:18	0:01	KS	0.030	0.120	Oversupply
1/19/2019 14:19	0:01	SMRR	0.024	0.457	Oversupply
1/19/2019 14:19	0:01	KS	0.029	0.821	Oversupply
1/19/2019 14:20	0:01	SMRR	0.024	0.656	Oversupply
1/19/2019 14:20	0:01	KS	0.030	0.465	Oversupply
1/19/2019 14:21	0:01	SMRR	0.024	1.592	Oversupply
1/19/2019 14:21	0:01	KS	0.030	0.678	Oversupply
1/19/2019 14:21	0:01	SMRR	0.024	1.616	Oversupply
1/19/2019 14:22	0:01	KS	0.030	2.074	Oversupply
1/19/2019 14:22	0:01	SMRR	0.024	1.555	Oversupply
1/19/2019 14:23	0:01	KS	0.030	1.703	Oversupply
1/19/2019 14:23	0:01	SMRR	0.024	0.797	Oversupply
1/19/2019 14:24	0:01	SMRR	0.024	1.076	Oversupply
1/19/2019 14:24	0:01	KS	0.030	1.196	Oversupply
1/19/2019 14:24	0:01	SMRR	0.024	0.839	Oversupply
1/19/2019 14:25	0:01	KS	0.030	1.112	Oversupply
1/19/2019 14:25	0:01	SMRR	0.024	0.532	Oversupply
1/19/2019 14:25	0:01	KS	0.030	0.771	Oversupply
1/19/2019 14:26	0:01	SMRR	0.024	0.280	Oversupply
1/19/2019 14:26	0:01	KS	0.030	0.525	Oversupply
1/19/2019 14:27	0:01	SMRR	0.024	1.053	Oversupply
1/19/2019 14:27	0:01	KS	0.030	0.343	Oversupply
1/19/2019 14:27	0:01	SMRR	0.024	1.473	Oversupply
1/19/2019 14:28	0:01	KS	0.030	1.008	Oversupply
1/19/2019 14:28	0:01	SMRR	0.024	1.516	Oversupply
1/19/2019 14:29	0:02	KS	0.043	1.294	Oversupply
1/19/2019 14:30	0:01	SMRR	0.009	0.928	Oversupply
1/19/2019 14:30	0:01	SMRR	0.009	1.809	Oversupply
1/19/2019 14:31	0:01	KS	0.016	1.152	Oversupply
1/19/2019 14:31	0:01	SMRR	0.009	1.638	Oversupply
1/19/2019 14:31	0:01	KS	0.016	1.501	Oversupply
1/19/2019 14:32	0:01	SMRR	0.009	1.737	Oversupply
1/19/2019 14:32	0:01	KS	0.016	1.249	Oversupply
1/19/2019 14:33	0:01	SMRR	0.008	2.095	Oversupply
1/19/2019 14:33	0:01	KS	0.016	1.491	Oversupply
1/19/2019 14:34	0:01	SMRR	0.009	2.097	Oversupply
1/19/2019 14:34	0:01	KS	0.016	1.516	Oversupply
1/19/2019 14:34	0:01	SMRR	0.009	1.911	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/19/2019 14:35	0:01	KS	0.016	1.379	Oversupply
1/19/2019 14:35	0:01	SMRR	0.009	1.453	Oversupply
1/19/2019 14:36	0:01	KS	0.016	1.469	Oversupply
1/19/2019 14:36	0:01	SMRR	0.008	1.859	Oversupply
1/19/2019 14:37	0:01	SMRR	0.009	2.161	Oversupply
1/19/2019 14:37	0:01	KS	0.016	1.409	Oversupply
1/19/2019 14:37	0:01	SMRR	0.009	1.997	Oversupply
1/19/2019 14:38	0:01	KS	0.016	1.809	Oversupply
1/19/2019 14:40	0:01	SMRR	0.008	2.440	Oversupply
1/19/2019 14:40	0:01	SMRR	0.009	2.404	Oversupply
1/19/2019 14:41	0:01	SMRR	0.009	1.355	Oversupply
1/19/2019 14:42	0:01	KS	0.016	1.404	Oversupply
1/19/2019 14:42	0:01	SMRR	0.009	1.537	Oversupply
1/19/2019 14:43	0:01	KS	0.016	1.473	Oversupply
1/19/2019 14:44	0:01	KS	0.016	1.840	Oversupply
1/19/2019 14:52	0:50	BS250	0.008	0.817	Oversupply
1/19/2019 14:52	0:48	KWP2	0.008	0.359	Oversupply
1/19/2019 14:52	0:01	SMRR	0.015	2.359	Oversupply
1/19/2019 14:53	0:50	SMRR	1.483	1.259	Oversupply
1/19/2019 14:53	0:01	KS	0.017	1.720	Oversupply
1/19/2019 14:54	0:49	KS	1.891	0.316	Oversupply
1/19/2019 15:42	0:01	SMRR	0.022	-0.002	Oversupply
1/19/2019 15:43	0:01	SMRR	0.023	0.153	Oversupply
1/19/2019 15:43	0:02	KS	0.068	0.159	Oversupply
1/19/2019 15:44	0:01	SMRR	0.022	0.668	Oversupply
1/19/2019 15:45	0:01	KS	0.028	0.110	Oversupply
1/19/2019 15:46	0:01	KS	0.029	0.129	Oversupply
1/19/2019 15:49	0:01	SMRR	0.006	1.933	Oversupply
1/19/2019 15:50	0:01	BS250	0.011	0.347	Oversupply
1/19/2019 15:50	0:01	SMRR	0.006	0.939	Oversupply
1/19/2019 15:51	0:01	KWP2	0.011	1.056	Oversupply
1/19/2019 15:51	0:02	SMRR	0.012	0.405	Oversupply
1/19/2019 15:52	0:01	SMRR	0.006	0.376	Oversupply
1/19/2019 15:52	0:01	KS	0.029	0.019	Oversupply
1/19/2019 15:53	0:01	SMRR	0.006	0.674	Oversupply
1/19/2019 22:16	0:01	KWP2	0.011	0.993	Oversupply
1/20/2019 5:44	0:01	KWP2	0.011	0.652	Oversupply
1/20/2019 10:07	0:01	SMRR	0.005	2.029	Oversupply
1/20/2019 10:08	0:01	SMRR	0.005	1.617	Oversupply
1/20/2019 10:09	0:01	KS	0.003	1.941	Oversupply
1/20/2019 10:09	0:01	SMRR	0.005	1.101	Oversupply
1/20/2019 10:09	0:01	KS	0.003	1.830	Oversupply
1/20/2019 10:10	0:01	SMRR	0.005	1.489	Oversupply
1/20/2019 10:10	0:01	KS	0.003	1.465	Oversupply
1/20/2019 10:11	0:01	SMRR	0.005	1.251	Oversupply
1/20/2019 10:11	0:01	KS	0.003	1.730	Oversupply
1/20/2019 10:12	0:01	SMRR	0.005	1.228	Oversupply
1/20/2019 10:12	0:01	KS	0.003	1.295	Oversupply
1/20/2019 10:12	0:01	SMRR	0.005	1.200	Oversupply
1/20/2019 10:13	0:01	KS	0.003	1.154	Oversupply
1/20/2019 10:13	0:01	SMRR	0.005	1.257	Oversupply
1/20/2019 10:14	0:01	KS	0.004	1.020	Oversupply
1/20/2019 10:14	0:01	SMRR	0.007	1.121	Oversupply
1/20/2019 10:15	0:01	SMRR	0.022	1.029	Oversupply
1/20/2019 10:15	0:01	KS	0.020	1.085	Oversupply
1/20/2019 10:15	0:01	SMRR	0.022	1.125	Oversupply
1/20/2019 10:15	0:01	KS	0.020	0.932	Oversupply
1/20/2019 10:16	0:01	SMRR	0.021	1.124	Oversupply
1/20/2019 10:16	0:01	KS	0.020	1.187	Oversupply
1/20/2019 10:17	0:01	SMRR	0.022	1.108	Oversupply
1/20/2019 10:17	0:01	KS	0.020	1.346	Oversupply
1/20/2019 10:18	0:01	SMRR	0.022	1.053	Oversupply
1/20/2019 10:18	0:01	KS	0.020	1.157	Oversupply
1/20/2019 10:18	0:01	SMRR	0.022	1.055	Oversupply
1/20/2019 10:19	0:01	KS	0.020	1.073	Oversupply
1/20/2019 10:19	0:01	SMRR	0.022	0.863	Oversupply
1/20/2019 10:20	0:01	KS	0.020	1.128	Oversupply
1/20/2019 10:20	0:01	SMRR	0.022	0.663	Oversupply
1/20/2019 10:21	0:01	KS	0.020	0.731	Oversupply
1/20/2019 10:21	0:01	SMRR	0.021	0.816	Oversupply
1/20/2019 10:21	0:02	KS	0.041	0.960	Oversupply
1/20/2019 10:21	0:01	SMRR	0.022	0.782	Oversupply
1/20/2019 10:22	0:01	SMRR	0.022	0.322	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/20/2019 10:23	0:01	SMRR	0.022	0.365	Oversupply
1/20/2019 10:23	0:01	KS	0.020	0.533	Oversupply
1/20/2019 10:24	4:22	BS250	0.024	1.723	Oversupply
1/20/2019 10:24	0:01	SMRR	0.022	0.208	Oversupply
1/20/2019 10:24	0:01	KS	0.020	0.387	Oversupply
1/20/2019 10:25	4:22	SMRR	11.795	0.065	Oversupply
1/20/2019 10:25	0:01	KS	0.020	0.336	Oversupply
1/20/2019 10:26	4:07	AWE	0.024	0.536	Oversupply
1/20/2019 10:26	4:22	KS	11.686	0.026	Oversupply
1/20/2019 12:12	2:34	KWPPII	0.024	1.781	Oversupply
1/20/2019 14:47	0:01	SMRR	0.027	0.044	Oversupply
1/20/2019 14:47	0:01	SMRR	0.027	0.988	Oversupply
1/20/2019 14:48	0:08	BS250	0.023	0.246	Oversupply
1/20/2019 14:48	0:01	SMRR	0.027	1.308	Oversupply
1/20/2019 14:48	0:01	KS	0.037	-0.003	Oversupply
1/20/2019 14:49	0:08	KWPPII	1.820	0.035	Oversupply
1/20/2019 14:49	0:01	SMRR	0.027	1.278	Oversupply
1/20/2019 14:49	0:01	KS	0.037	-0.003	Oversupply
1/20/2019 14:50	0:08	SMRR	0.272	0.585	Oversupply
1/20/2019 14:50	0:01	KS	0.038	-0.003	Oversupply
1/20/2019 14:51	0:08	KS	0.331	0.060	Oversupply
1/20/2019 14:57	0:01	SMRR	0.027	0.239	Oversupply
1/20/2019 14:58	0:01	SMRR	0.027	0.326	Oversupply
1/20/2019 14:59	0:01	KS	0.037	0.160	Oversupply
1/20/2019 14:59	0:01	SMRR	0.025	0.192	Oversupply
1/20/2019 14:59	0:01	KS	0.019	0.211	Oversupply
1/20/2019 15:00	0:01	SMRR	0.006	0.572	Oversupply
1/20/2019 15:00	0:01	KS	0.017	0.350	Oversupply
1/20/2019 15:00	0:01	SMRR	0.006	0.845	Oversupply
1/20/2019 15:01	0:01	SMRR	0.006	0.982	Oversupply
1/20/2019 15:01	0:01	KS	0.018	0.454	Oversupply
1/20/2019 15:02	0:01	SMRR	0.006	1.527	Oversupply
1/20/2019 15:02	0:01	KS	0.018	0.858	Oversupply
1/20/2019 15:03	0:01	SMRR	0.006	1.570	Oversupply
1/20/2019 15:03	0:01	KS	0.018	0.967	Oversupply
1/20/2019 15:03	0:01	SMRR	0.006	1.865	Oversupply
1/20/2019 15:04	0:01	KS	0.018	1.026	Oversupply
1/20/2019 15:05	0:01	KS	0.018	1.203	Oversupply
1/21/2019 2:44	0:01	AWE	0.016	2.190	Oversupply
1/21/2019 9:18	0:01	AWE	0.233	0.895	System Constraint
1/21/2019 9:20	0:01	AWE	0.017	0.422	System Constraint
1/21/2019 9:27	0:01	AWE	0.017	0.953	System Constraint
1/21/2019 12:32	0:01	KWPPII	0.017	1.217	System Constraint
1/21/2019 15:25	0:01	AWE	0.017	1.745	System Constraint
1/21/2019 15:40	0:01	AWE	0.018	2.205	System Constraint
1/21/2019 16:00	0:01	AWE	0.017	1.986	System Constraint
1/21/2019 22:34	3:41	KWPPII	0.017	2.142	Oversupply
1/21/2019 22:54	0:11	AWE	0.018	0.955	Oversupply
1/21/2019 23:09	0:06	AWE	0.017	0.224	Oversupply
1/22/2019 0:10	0:08	AWE	0.028	0.458	Oversupply
1/22/2019 0:19	0:04	AWE	3.966	0.017	Oversupply
1/22/2019 0:25	0:02	AWE	0.017	0.157	Oversupply
1/22/2019 0:30	0:40	AWE	0.017	0.500	Oversupply
1/22/2019 1:13	0:05	AWE	0.017	0.683	Oversupply
1/22/2019 1:22	0:06	AWE	0.017	1.440	Oversupply
1/22/2019 1:33	0:38	AWE	0.017	2.094	Oversupply
1/22/2019 2:17	0:04	KWPPII	0.017	2.137	Oversupply
1/22/2019 2:56	0:01	KWPPII	0.017	1.720	Oversupply
1/22/2019 10:20	0:01	SMRR	0.005	2.164	System Constraint
1/22/2019 10:21	0:01	KS	0.002	2.083	System Constraint
1/22/2019 10:21	0:01	SMRR	0.005	1.981	System Constraint
1/22/2019 10:22	0:01	SMRR	0.005	2.110	System Constraint
1/22/2019 10:23	0:01	SMRR	0.005	2.130	System Constraint
1/22/2019 10:23	0:01	KS	0.002	1.412	System Constraint
1/22/2019 10:24	0:01	SMRR	0.005	1.895	System Constraint
1/22/2019 10:24	0:01	KS	0.002	2.122	System Constraint
1/22/2019 10:25	0:01	SMRR	0.005	1.821	System Constraint
1/22/2019 10:25	0:01	KS	0.002	1.948	System Constraint
1/22/2019 10:25	0:01	SMRR	0.005	1.449	System Constraint
1/22/2019 10:26	0:01	KS	0.002	1.805	System Constraint
1/22/2019 10:26	0:01	SMRR	0.005	1.371	System Constraint
1/22/2019 10:27	0:01	KS	0.002	1.252	System Constraint
1/22/2019 10:27	0:01	SMRR	0.005	1.440	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2019 10:28	0:01	KS	0.002	1.202	System Constraint
1/22/2019 10:28	0:01	SMRR	0.005	1.280	System Constraint
1/22/2019 10:28	0:01	SMRR	0.005	1.378	System Constraint
1/22/2019 10:29	0:01	KS	0.002	1.347	System Constraint
1/22/2019 10:29	0:01	SMRR	0.018	1.094	System Constraint
1/22/2019 10:29	0:01	KS	0.021	1.411	System Constraint
1/22/2019 10:30	0:01	SMRR	0.026	1.054	System Constraint
1/22/2019 10:30	0:01	KS	0.026	0.973	System Constraint
1/22/2019 10:31	0:01	SMRR	0.027	0.828	System Constraint
1/22/2019 10:31	0:01	KS	0.026	0.916	System Constraint
1/22/2019 10:32	0:01	SMRR	0.027	0.553	System Constraint
1/22/2019 10:32	0:01	KS	0.026	0.686	System Constraint
1/22/2019 10:32	0:01	SMRR	0.027	0.461	System Constraint
1/22/2019 10:33	0:01	KS	0.026	0.522	System Constraint
1/22/2019 10:33	0:01	SMRR	0.026	0.395	System Constraint
1/22/2019 10:34	0:01	BS250	0.033	0.325	System Constraint
1/22/2019 10:34	0:01	AWE	0.033	0.329	System Constraint
1/22/2019 10:34	0:01	KS	0.026	0.377	System Constraint
1/22/2019 10:34	0:01	SMRR	0.027	0.069	System Constraint
1/22/2019 10:35	0:03	KS	0.079	0.098	System Constraint
1/22/2019 10:35	0:02	SMRR	0.053	0.031	System Constraint
1/22/2019 10:36	0:01	SMRR	0.026	0.208	System Constraint
1/22/2019 10:37	0:02	SMRR	0.054	0.005	System Constraint
1/22/2019 10:37	0:01	KS	0.026	0.094	System Constraint
1/22/2019 10:38	0:02	BS250	0.006	1.512	System Constraint
1/22/2019 10:38	0:03	AWE	0.006	0.608	System Constraint
1/22/2019 10:38	0:04	KS	0.130	0.009	System Constraint
1/22/2019 10:38	0:01	SMRR	0.027	0.048	System Constraint
1/22/2019 10:39	0:02	SMRR	0.079	0.010	System Constraint
1/22/2019 10:41	0:01	SMRR	0.027	0.313	System Constraint
1/22/2019 10:42	0:01	SMRR	0.027	0.448	System Constraint
1/22/2019 10:42	0:01	KS	0.026	0.396	System Constraint
1/22/2019 10:43	0:01	BS250	0.017	0.020	System Constraint
1/22/2019 10:43	0:01	SMRR	0.026	0.545	System Constraint
1/22/2019 10:43	0:01	KS	0.026	0.765	System Constraint
1/22/2019 10:44	0:01	SMRR	0.027	0.454	System Constraint
1/22/2019 10:44	0:01	KS	0.028	0.363	System Constraint
1/22/2019 10:45	0:01	SMRR	0.031	0.064	System Constraint
1/22/2019 10:45	0:01	KS	0.033	0.047	System Constraint
1/22/2019 10:45	0:01	SMRR	0.031	0.263	System Constraint
1/22/2019 10:46	0:01	KS	0.033	0.340	System Constraint
1/22/2019 10:46	0:01	SMRR	0.031	0.369	System Constraint
1/22/2019 10:47	0:16	BS250	0.029	0.340	System Constraint
1/22/2019 10:47	0:16	AWE	0.031	0.344	System Constraint
1/22/2019 10:47	0:01	KS	0.033	0.426	System Constraint
1/22/2019 10:47	0:01	SMRR	0.031	0.356	System Constraint
1/22/2019 10:47	0:01	KS	0.033	0.411	System Constraint
1/22/2019 10:48	0:16	SMRR	0.629	0.018	System Constraint
1/22/2019 10:48	0:17	KS	0.634	0.017	System Constraint
1/22/2019 10:53	0:03	KWP11	0.009	0.837	System Constraint
1/22/2019 10:59	0:04	KWP11	0.008	0.930	System Constraint
1/22/2019 11:04	0:01	SMRR	0.027	0.169	System Constraint
1/22/2019 11:04	0:01	SMRR	0.027	0.283	System Constraint
1/22/2019 11:05	0:01	SMRR	0.027	0.405	System Constraint
1/22/2019 11:06	0:01	KS	0.029	0.501	System Constraint
1/22/2019 11:06	0:01	SMRR	0.027	0.795	System Constraint
1/22/2019 11:07	0:01	KS	0.029	0.902	System Constraint
1/22/2019 11:07	0:01	SMRR	0.027	0.529	System Constraint
1/22/2019 11:07	0:01	SMRR	0.027	0.528	System Constraint
1/22/2019 11:07	0:01	KS	0.029	0.512	System Constraint
1/22/2019 11:08	0:01	SMRR	0.027	0.987	System Constraint
1/22/2019 11:08	0:01	KS	0.029	0.796	System Constraint
1/22/2019 11:09	0:01	SMRR	0.027	0.210	System Constraint
1/22/2019 11:09	0:01	KS	0.029	0.653	System Constraint
1/22/2019 11:10	0:01	SMRR	0.027	0.397	System Constraint
1/22/2019 11:10	0:01	KS	0.029	0.293	System Constraint
1/22/2019 11:10	0:01	SMRR	0.027	0.708	System Constraint
1/22/2019 11:11	0:01	KS	0.028	0.896	System Constraint
1/22/2019 11:11	0:01	SMRR	0.027	1.264	System Constraint
1/22/2019 11:12	0:01	KS	0.029	1.290	System Constraint
1/22/2019 11:12	0:01	SMRR	0.027	1.190	System Constraint
1/22/2019 11:13	0:01	KS	0.029	1.338	System Constraint
1/22/2019 11:13	0:01	SMRR	0.027	0.968	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2019 11:13	0:01	KS	0.029	0.927	System Constraint
1/22/2019 11:14	0:01	SMRR	0.027	0.869	System Constraint
1/22/2019 11:14	0:01	SMRR	0.031	0.860	System Constraint
1/22/2019 11:14	0:01	KS	0.033	0.743	System Constraint
1/22/2019 11:15	0:01	SMRR	0.033	0.549	System Constraint
1/22/2019 11:15	0:01	KS	0.035	0.794	System Constraint
1/22/2019 11:16	0:01	SMRR	0.032	0.115	System Constraint
1/22/2019 11:16	0:01	KS	0.035	0.349	System Constraint
1/22/2019 11:17	0:01	SMRR	0.033	0.018	System Constraint
1/22/2019 11:17	0:01	KS	0.035	0.219	System Constraint
1/22/2019 11:17	0:01	SMRR	0.033	0.177	System Constraint
1/22/2019 11:18	0:01	KS	0.035	0.183	System Constraint
1/22/2019 11:18	0:02	SMRR	0.066	0.015	System Constraint
1/22/2019 11:19	0:02	KS	0.070	0.058	System Constraint
1/22/2019 11:20	0:01	SMRR	0.033	0.374	System Constraint
1/22/2019 11:20	0:01	SMRR	0.033	0.280	System Constraint
1/22/2019 11:20	0:01	KS	0.035	0.404	System Constraint
1/22/2019 11:21	0:01	SMRR	0.033	0.186	System Constraint
1/22/2019 11:21	0:02	KS	0.070	0.209	System Constraint
1/22/2019 11:22	0:19	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 11:22	0:17	AWE	0.452	21.000	System Constraint
1/22/2019 11:22	0:18	SMRR	0.813	0.021	System Constraint
1/22/2019 11:23	0:20	KS	0.867	0.025	System Constraint
1/22/2019 11:34	0:03	KWP11	0.001	0.041	System Constraint
1/22/2019 11:40	0:01	SMRR	0.035	0.303	System Constraint
1/22/2019 11:41	0:01	SMRR	0.035	-0.002	System Constraint
1/22/2019 11:42	0:01	SMRR	0.035	0.006	System Constraint
1/22/2019 11:43	0:01	SMRR	0.035	0.118	System Constraint
1/22/2019 11:43	0:01	KS	0.039	0.155	System Constraint
1/22/2019 11:43	0:01	SMRR	0.035	0.434	System Constraint
1/22/2019 11:44	0:01	KS	0.037	0.354	System Constraint
1/22/2019 11:44	0:01	SMRR	0.030	0.623	System Constraint
1/22/2019 11:45	0:01	KS	0.024	0.554	System Constraint
1/22/2019 11:45	0:01	SMRR	0.023	1.149	System Constraint
1/22/2019 11:45	0:01	KS	0.024	1.547	System Constraint
1/22/2019 11:46	0:01	SMRR	0.023	1.303	System Constraint
1/22/2019 11:46	0:01	SMRR	0.023	1.065	System Constraint
1/22/2019 11:46	0:01	KS	0.024	1.553	System Constraint
1/22/2019 11:47	0:01	SMRR	0.023	1.257	System Constraint
1/22/2019 11:47	0:01	KS	0.024	1.145	System Constraint
1/22/2019 11:48	0:01	SMRR	0.023	1.246	System Constraint
1/22/2019 11:48	0:01	KS	0.023	1.164	System Constraint
1/22/2019 11:49	0:01	SMRR	0.023	1.471	System Constraint
1/22/2019 11:49	0:01	KS	0.024	1.558	System Constraint
1/22/2019 11:49	0:01	SMRR	0.023	1.661	System Constraint
1/22/2019 11:50	0:01	KS	0.024	1.957	System Constraint
1/22/2019 11:50	0:01	SMRR	0.023	1.071	System Constraint
1/22/2019 11:51	0:01	KS	0.024	1.292	System Constraint
1/22/2019 11:51	0:01	SMRR	0.023	1.065	System Constraint
1/22/2019 11:52	0:01	KS	0.024	1.001	System Constraint
1/22/2019 11:52	0:01	SMRR	0.023	1.320	System Constraint
1/22/2019 11:52	0:01	KS	0.024	0.594	System Constraint
1/22/2019 11:52	0:01	SMRR	0.023	0.256	System Constraint
1/22/2019 11:53	0:01	SMRR	0.024	0.468	System Constraint
1/22/2019 11:53	0:01	KS	0.024	0.135	System Constraint
1/22/2019 11:54	0:01	SMRR	0.023	0.910	System Constraint
1/22/2019 11:54	0:01	KS	0.024	0.564	System Constraint
1/22/2019 11:55	0:01	SMRR	0.023	1.289	System Constraint
1/22/2019 11:55	0:01	KS	0.024	1.342	System Constraint
1/22/2019 11:56	0:01	SMRR	0.023	1.422	System Constraint
1/22/2019 11:56	0:01	KS	0.024	1.560	System Constraint
1/22/2019 11:56	0:01	SMRR	0.023	1.085	System Constraint
1/22/2019 11:57	0:13	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 11:57	0:01	KS	0.024	1.160	System Constraint
1/22/2019 11:57	0:01	SMRR	0.023	0.788	System Constraint
1/22/2019 11:58	0:01	KS	0.024	0.722	System Constraint
1/22/2019 11:58	0:01	SMRR	0.023	0.735	System Constraint
1/22/2019 11:58	0:01	KS	0.024	0.714	System Constraint
1/22/2019 11:59	0:02	AWE	0.012	18.700	System Constraint
1/22/2019 11:59	0:07	SMRR	0.302	0.024	System Constraint
1/22/2019 11:59	0:07	KS	0.320	0.028	System Constraint
1/22/2019 12:02	0:09	AWE	0.176	18.900	System Constraint
1/22/2019 12:05	0:01	SMRR	0.035	-0.001	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2019 12:06	0:01	KS	0.040	0.021	System Constraint
1/22/2019 12:06	0:06	SMRR	0.283	-0.001	System Constraint
1/22/2019 12:07	0:05	KS	0.243	0.007	System Constraint
1/22/2019 12:09	0:02	KWPPII	0.001	0.054	System Constraint
1/22/2019 12:12	0:01	KS	0.041	0.001	System Constraint
1/22/2019 12:12	0:01	SMRR	0.036	0.222	System Constraint
1/22/2019 12:13	0:01	KS	0.041	0.240	System Constraint
1/22/2019 12:13	0:01	SMRR	0.035	0.723	System Constraint
1/22/2019 12:14	0:01	SMRR	0.030	1.436	System Constraint
1/22/2019 12:14	0:01	KS	0.030	0.441	System Constraint
1/22/2019 12:15	0:01	SMRR	0.008	1.828	System Constraint
1/22/2019 12:15	0:01	KS	0.009	0.839	System Constraint
1/22/2019 12:15	0:01	SMRR	0.008	2.246	System Constraint
1/22/2019 12:16	0:01	KS	0.009	1.747	System Constraint
1/22/2019 12:16	0:01	SMRR	0.008	1.702	System Constraint
1/22/2019 12:17	0:01	KS	0.009	1.944	System Constraint
1/22/2019 12:17	0:01	SMRR	0.008	2.135	System Constraint
1/22/2019 12:17	0:01	KS	0.009	2.172	System Constraint
1/22/2019 12:21	0:01	KS	0.009	2.532	System Constraint
1/22/2019 12:25	0:01	SMRR	0.008	2.684	System Constraint
1/22/2019 12:27	0:06	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 12:27	0:01	SMRR	0.008	2.480	System Constraint
1/22/2019 12:28	0:05	AWE	0.139	18.800	System Constraint
1/22/2019 12:28	0:05	KWPPII	0.058	1.084	System Constraint
1/22/2019 12:28	0:01	SMRR	0.008	1.331	System Constraint
1/22/2019 12:28	0:01	KS	0.009	1.888	System Constraint
1/22/2019 12:28	0:06	SMRR	0.212	0.121	System Constraint
1/22/2019 12:29	0:01	KS	0.009	0.520	System Constraint
1/22/2019 12:29	0:06	KS	0.254	0.028	System Constraint
1/22/2019 12:35	0:01	SMRR	0.031	0.212	System Constraint
1/22/2019 12:35	0:01	SMRR	0.030	0.747	System Constraint
1/22/2019 12:36	0:02	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 12:36	0:01	KS	0.036	0.548	System Constraint
1/22/2019 12:36	0:01	SMRR	0.031	0.729	System Constraint
1/22/2019 12:36	0:01	KS	0.036	0.849	System Constraint
1/22/2019 12:37	0:01	AWE	0.007	19.300	System Constraint
1/22/2019 12:37	0:01	KWPPII	0.004	0.262	System Constraint
1/22/2019 12:37	0:01	SMRR	0.031	0.601	System Constraint
1/22/2019 12:37	0:01	KS	0.036	0.638	System Constraint
1/22/2019 12:38	0:02	SMRR	0.061	0.011	System Constraint
1/22/2019 12:38	0:02	KS	0.071	0.116	System Constraint
1/22/2019 12:39	0:01	SMRR	0.031	0.129	System Constraint
1/22/2019 12:40	0:01	SMRR	0.031	0.572	System Constraint
1/22/2019 12:40	0:01	KS	0.036	-0.001	System Constraint
1/22/2019 12:41	0:01	SMRR	0.030	0.488	System Constraint
1/22/2019 12:41	0:01	KS	0.036	0.642	System Constraint
1/22/2019 12:41	0:01	SMRR	0.031	0.773	System Constraint
1/22/2019 12:42	0:01	KS	0.036	0.614	System Constraint
1/22/2019 12:42	0:01	SMRR	0.031	1.309	System Constraint
1/22/2019 12:42	0:01	KS	0.036	0.942	System Constraint
1/22/2019 12:43	0:01	SMRR	0.031	1.529	System Constraint
1/22/2019 12:43	0:01	KS	0.036	1.025	System Constraint
1/22/2019 12:44	0:01	SMRR	0.031	1.651	System Constraint
1/22/2019 12:44	0:01	KS	0.018	1.035	System Constraint
1/22/2019 12:44	0:01	SMRR	0.007	1.235	System Constraint
1/22/2019 12:45	0:01	KS	0.006	1.232	System Constraint
1/22/2019 12:45	0:01	SMRR	0.005	1.225	System Constraint
1/22/2019 12:46	0:01	KS	0.006	1.088	System Constraint
1/22/2019 12:46	0:01	SMRR	0.005	1.715	System Constraint
1/22/2019 12:48	0:01	KS	0.006	2.890	System Constraint
1/22/2019 12:49	0:01	SMRR	0.005	2.432	System Constraint
1/22/2019 12:49	0:01	KS	0.006	0.739	System Constraint
1/22/2019 12:50	0:01	SMRR	0.005	2.664	System Constraint
1/22/2019 12:54	0:01	SMRR	0.005	2.676	System Constraint
1/22/2019 13:20	0:01	SMRR	0.003	2.712	System Constraint
1/22/2019 14:01	0:01	SMRR	0.023	2.134	System Constraint
1/22/2019 14:01	0:01	KS	0.027	2.617	System Constraint
1/22/2019 14:02	0:01	SMRR	0.023	0.989	System Constraint
1/22/2019 14:02	0:01	KS	0.027	1.174	System Constraint
1/22/2019 14:02	0:01	SMRR	0.023	0.416	System Constraint
1/22/2019 14:03	0:01	KS	0.027	0.626	System Constraint
1/22/2019 14:03	0:01	SMRR	0.023	0.728	System Constraint
1/22/2019 14:04	0:01	KS	0.026	0.441	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2019 14:04	0:01	SMRR	0.023	1.105	System Constraint
1/22/2019 14:04	0:01	KS	0.026	0.964	System Constraint
1/22/2019 14:05	0:01	SMRR	0.022	1.057	System Constraint
1/22/2019 14:05	0:01	KS	0.027	1.161	System Constraint
1/22/2019 14:05	0:01	SMRR	0.023	0.806	System Constraint
1/22/2019 14:06	0:02	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 14:06	0:01	KS	0.027	0.792	System Constraint
1/22/2019 14:06	0:01	SMRR	0.023	0.608	System Constraint
1/22/2019 14:07	0:01	KWPUI	0.007	2.742	System Constraint
1/22/2019 14:07	0:01	SMRR	0.023	0.359	System Constraint
1/22/2019 14:07	0:01	KS	0.027	0.633	System Constraint
1/22/2019 14:08	0:02	SMRR	0.045	0.019	System Constraint
1/22/2019 14:08	0:03	KS	0.082	0.159	System Constraint
1/22/2019 14:09	0:01	SMRR	0.023	0.271	System Constraint
1/22/2019 14:10	0:01	SMRR	0.023	0.634	System Constraint
1/22/2019 14:10	0:01	KS	0.027	0.455	System Constraint
1/22/2019 14:11	0:01	SMRR	0.023	0.438	System Constraint
1/22/2019 14:11	0:01	KS	0.027	0.751	System Constraint
1/22/2019 14:12	0:01	SMRR	0.023	0.622	System Constraint
1/22/2019 14:12	0:01	KS	0.026	0.591	System Constraint
1/22/2019 14:12	0:01	SMRR	0.023	1.285	System Constraint
1/22/2019 14:13	0:01	KS	0.027	0.948	System Constraint
1/22/2019 14:13	0:01	SMRR	0.023	1.368	System Constraint
1/22/2019 14:14	0:01	SMRR	0.022	1.361	System Constraint
1/22/2019 14:14	0:01	KS	0.026	0.959	System Constraint
1/22/2019 14:15	0:01	SMRR	0.019	1.476	System Constraint
1/22/2019 14:15	0:01	KS	0.024	1.087	System Constraint
1/22/2019 14:15	0:01	SMRR	0.019	1.945	System Constraint
1/22/2019 14:16	0:01	KS	0.024	1.481	System Constraint
1/22/2019 14:16	0:01	SMRR	0.019	1.932	System Constraint
1/22/2019 14:17	0:01	KS	0.024	1.923	System Constraint
1/22/2019 14:17	0:01	KS	0.024	2.224	System Constraint
1/22/2019 14:19	0:01	SMRR	0.019	2.136	System Constraint
1/22/2019 14:20	0:01	KS	0.023	2.082	System Constraint
1/22/2019 14:20	0:01	SMRR	0.019	1.726	System Constraint
1/22/2019 14:21	0:01	SMRR	0.019	0.953	System Constraint
1/22/2019 14:21	0:01	KS	0.024	1.526	System Constraint
1/22/2019 14:22	0:01	SMRR	0.019	0.771	System Constraint
1/22/2019 14:22	0:01	KS	0.024	0.830	System Constraint
1/22/2019 14:22	0:01	SMRR	0.019	0.797	System Constraint
1/22/2019 14:23	0:01	KS	0.024	0.580	System Constraint
1/22/2019 14:23	0:01	SMRR	0.019	1.263	System Constraint
1/22/2019 14:23	0:01	KS	0.024	1.132	System Constraint
1/22/2019 14:24	0:07	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 14:24	0:01	SMRR	0.019	1.166	System Constraint
1/22/2019 14:24	0:01	KS	0.024	1.167	System Constraint
1/22/2019 14:25	0:06	KWPUI	0.114	2.586	System Constraint
1/22/2019 14:25	0:01	SMRR	0.019	0.565	System Constraint
1/22/2019 14:25	0:01	KS	0.024	0.759	System Constraint
1/22/2019 14:25	0:07	SMRR	0.214	0.034	System Constraint
1/22/2019 14:26	0:07	KS	0.248	0.032	System Constraint
1/22/2019 14:32	0:01	SMRR	0.031	0.222	System Constraint
1/22/2019 14:33	0:01	KS	0.038	0.188	System Constraint
1/22/2019 14:33	0:01	SMRR	0.030	0.389	System Constraint
1/22/2019 14:34	0:01	SMRR	0.031	0.687	System Constraint
1/22/2019 14:34	0:01	KS	0.038	0.387	System Constraint
1/22/2019 14:34	0:01	SMRR	0.031	0.815	System Constraint
1/22/2019 14:35	0:06	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 14:35	0:01	KS	0.038	0.654	System Constraint
1/22/2019 14:35	0:01	SMRR	0.031	0.460	System Constraint
1/22/2019 14:36	0:05	KWPUI	0.020	3.401	System Constraint
1/22/2019 14:36	0:01	KS	0.038	0.809	System Constraint
1/22/2019 14:36	0:03	SMRR	0.124	0.012	System Constraint
1/22/2019 14:36	0:01	KS	0.038	0.285	System Constraint
1/22/2019 14:37	0:05	KS	0.225	0.011	System Constraint
1/22/2019 14:39	0:01	SMRR	0.030	0.005	System Constraint
1/22/2019 14:40	0:02	SMRR	0.093	0.061	System Constraint
1/22/2019 14:42	0:01	SMRR	0.030	0.220	System Constraint
1/22/2019 14:42	0:01	KS	0.038	0.153	System Constraint
1/22/2019 14:43	0:01	SMRR	0.031	0.400	System Constraint
1/22/2019 14:43	0:01	KS	0.038	0.203	System Constraint
1/22/2019 14:44	0:01	SMRR	0.031	1.086	System Constraint
1/22/2019 14:44	0:01	KS	0.036	0.721	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2019 14:44	0:01	SMRR	0.029	0.578	System Constraint
1/22/2019 14:45	0:05	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 14:45	0:06	KWPIL	0.053	4.978	System Constraint
1/22/2019 14:45	0:01	KS	0.033	0.602	System Constraint
1/22/2019 14:45	0:01	SMRR	0.017	0.763	System Constraint
1/22/2019 14:46	0:01	KS	0.034	0.668	System Constraint
1/22/2019 14:46	0:02	SMRR	0.034	0.008	System Constraint
1/22/2019 14:47	0:05	KS	0.200	0.014	System Constraint
1/22/2019 14:47	0:01	SMRR	0.018	0.023	System Constraint
1/22/2019 14:48	0:03	SMRR	0.069	0.005	System Constraint
1/22/2019 14:51	0:01	SMRR	0.017	0.002	System Constraint
1/22/2019 14:52	0:01	KS	0.033	0.008	System Constraint
1/22/2019 14:52	0:01	SMRR	0.017	0.386	System Constraint
1/22/2019 14:53	0:01	SMRR	0.018	0.857	System Constraint
1/22/2019 14:53	0:01	KS	0.033	0.638	System Constraint
1/22/2019 14:54	0:01	SMRR	0.017	0.973	System Constraint
1/22/2019 14:54	0:01	KS	0.033	1.177	System Constraint
1/22/2019 14:54	0:01	SMRR	0.017	0.482	System Constraint
1/22/2019 14:55	0:01	KS	0.033	0.851	System Constraint
1/22/2019 14:55	0:01	SMRR	0.017	1.402	System Constraint
1/22/2019 14:55	0:01	KS	0.033	0.979	System Constraint
1/22/2019 14:56	0:01	SMRR	0.017	1.405	System Constraint
1/22/2019 14:56	0:01	KS	0.033	1.088	System Constraint
1/22/2019 14:57	0:01	BS250	Data is not available	Data is not available	System Constraint
1/22/2019 14:57	0:01	KWPIL	0.006	6.642	System Constraint
1/22/2019 14:57	0:01	SMRR	0.017	1.126	System Constraint
1/22/2019 14:57	0:01	KS	0.032	0.905	System Constraint
1/22/2019 14:57	0:01	SMRR	0.017	0.292	System Constraint
1/22/2019 14:58	0:01	KS	0.033	0.242	System Constraint
1/22/2019 14:58	0:01	SMRR	0.017	0.023	System Constraint
1/22/2019 14:59	0:01	KS	0.031	0.022	System Constraint
1/22/2019 14:59	0:01	SMRR	0.014	0.029	System Constraint
1/22/2019 15:00	0:01	SMRR	0.005	0.837	System Constraint
1/22/2019 15:00	0:01	KS	0.023	0.090	System Constraint
1/22/2019 15:00	0:01	SMRR	0.005	1.331	System Constraint
1/22/2019 15:01	0:01	KS	0.023	0.492	System Constraint
1/22/2019 15:01	0:01	SMRR	0.005	1.372	System Constraint
1/22/2019 15:01	0:01	KS	0.023	0.705	System Constraint
1/22/2019 15:02	0:01	SMRR	0.005	1.303	System Constraint
1/22/2019 15:02	0:01	KS	0.023	0.670	System Constraint
1/22/2019 15:06	0:01	SMRR	0.006	2.270	System Constraint
1/22/2019 15:07	0:01	KS	0.023	1.362	System Constraint
1/22/2019 15:07	0:01	SMRR	0.005	2.278	System Constraint
1/22/2019 15:08	0:01	KS	0.023	1.166	System Constraint
1/22/2019 15:10	0:01	SMRR	0.005	1.345	System Constraint
1/22/2019 15:10	0:01	KS	0.023	0.989	System Constraint
1/22/2019 15:11	0:01	SMRR	0.005	2.018	System Constraint
1/22/2019 15:12	0:01	KS	0.023	1.284	System Constraint
1/23/2019 3:29	0:11	AWE	0.202	19.600	Oversupply
1/23/2019 11:06	0:01	SMRR	0.002	2.776	System Constraint
1/23/2019 11:06	0:01	SMRR	0.002	2.391	System Constraint
1/23/2019 11:07	0:01	KS	0.000	2.534	System Constraint
1/23/2019 11:08	0:01	SMRR	0.002	2.742	System Constraint
1/23/2019 11:09	0:01	KS	0.000	2.338	System Constraint
1/23/2019 11:09	0:01	KS	0.000	2.430	System Constraint
1/23/2019 11:19	0:01	SMRR	0.018	2.308	System Constraint
1/23/2019 11:19	0:01	KS	0.014	2.621	System Constraint
1/23/2019 11:19	0:01	SMRR	0.018	2.169	System Constraint
1/23/2019 11:20	0:01	KS	0.014	2.283	System Constraint
1/23/2019 11:20	0:01	SMRR	0.018	1.845	System Constraint
1/23/2019 11:21	0:01	KS	0.014	1.862	System Constraint
1/23/2019 11:21	0:01	SMRR	0.018	1.639	System Constraint
1/23/2019 11:22	0:01	KS	0.014	1.563	System Constraint
1/23/2019 11:22	0:01	SMRR	0.018	1.335	System Constraint
1/23/2019 11:22	0:01	SMRR	0.018	1.310	System Constraint
1/23/2019 11:22	0:01	KS	0.014	1.426	System Constraint
1/23/2019 11:23	0:01	SMRR	0.018	1.038	System Constraint
1/23/2019 11:23	0:01	KS	0.014	1.163	System Constraint
1/23/2019 11:24	0:01	SMRR	0.018	1.289	System Constraint
1/23/2019 11:24	0:02	KS	0.029	1.129	System Constraint
1/23/2019 11:25	0:01	SMRR	0.018	0.967	System Constraint
1/23/2019 11:25	0:01	SMRR	0.018	0.508	System Constraint
1/23/2019 11:26	0:01	KS	0.014	0.571	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/23/2019 11:26	0:01	SMRR	0.018	0.424	System Constraint
1/23/2019 11:27	0:01	KS	0.014	0.371	System Constraint
1/23/2019 11:27	0:01	SMRR	0.018	0.191	System Constraint
1/23/2019 11:28	0:01	KS	0.014	0.362	System Constraint
1/23/2019 11:28	0:01	SMRR	0.019	0.338	System Constraint
1/23/2019 11:29	0:01	SMRR	0.018	0.147	System Constraint
1/23/2019 11:29	0:01	KS	0.014	0.357	System Constraint
1/23/2019 11:29	0:01	SMRR	0.028	0.172	System Constraint
1/23/2019 11:29	0:01	KS	0.030	0.249	System Constraint
1/23/2019 11:30	0:01	SMRR	0.032	0.427	System Constraint
1/23/2019 11:30	0:01	KS	0.033	0.356	System Constraint
1/23/2019 11:31	0:01	SMRR	0.032	0.622	System Constraint
1/23/2019 11:31	0:01	KS	0.033	0.425	System Constraint
1/23/2019 11:32	0:01	SMRR	0.032	1.030	System Constraint
1/23/2019 11:32	0:01	KS	0.031	1.127	System Constraint
1/23/2019 11:32	0:01	SMRR	0.032	0.750	System Constraint
1/23/2019 11:33	0:01	KS	0.033	1.011	System Constraint
1/23/2019 11:33	0:01	SMRR	0.032	0.477	System Constraint
1/23/2019 11:34	0:01	KS	0.033	0.668	System Constraint
1/23/2019 11:34	0:01	SMRR	0.032	0.343	System Constraint
1/23/2019 11:35	0:05	BS250	Data is not available	Data is not available	System Constraint
1/23/2019 11:35	0:01	KS	0.033	0.897	System Constraint
1/23/2019 11:35	0:01	SMRR	0.032	0.774	System Constraint
1/23/2019 11:35	0:01	SMRR	0.032	0.733	System Constraint
1/23/2019 11:35	0:01	KS	0.033	0.964	System Constraint
1/23/2019 11:36	0:05	AWE	0.081	20.900	System Constraint
1/23/2019 11:36	0:05	SMRR	0.227	0.107	System Constraint
1/23/2019 11:36	0:01	KS	0.032	0.776	System Constraint
1/23/2019 11:37	0:05	KS	0.196	0.031	System Constraint
1/23/2019 11:42	0:01	SMRR	0.032	0.067	System Constraint
1/23/2019 11:42	0:01	SMRR	0.033	0.112	System Constraint
1/23/2019 11:42	0:01	KS	0.033	0.235	System Constraint
1/23/2019 11:43	0:01	SMRR	0.032	0.364	System Constraint
1/23/2019 11:43	0:01	KS	0.033	0.219	System Constraint
1/23/2019 11:44	0:01	SMRR	0.032	0.375	System Constraint
1/23/2019 11:44	0:01	KS	0.025	0.459	System Constraint
1/23/2019 11:45	0:01	SMRR	0.019	0.328	System Constraint
1/23/2019 11:45	0:01	KS	0.019	0.284	System Constraint
1/23/2019 11:45	0:01	SMRR	0.019	0.480	System Constraint
1/23/2019 11:46	0:01	KS	0.019	0.482	System Constraint
1/23/2019 11:46	0:01	SMRR	0.019	0.913	System Constraint
1/23/2019 11:47	0:01	KS	0.019	0.852	System Constraint
1/23/2019 11:47	0:01	SMRR	0.019	1.076	System Constraint
1/23/2019 11:48	0:01	KS	0.019	1.081	System Constraint
1/23/2019 11:48	0:01	SMRR	0.019	1.238	System Constraint
1/23/2019 11:48	0:01	SMRR	0.019	1.438	System Constraint
1/23/2019 11:48	0:01	KS	0.019	1.331	System Constraint
1/23/2019 11:49	0:01	SMRR	0.019	1.390	System Constraint
1/23/2019 11:49	0:01	KS	0.019	1.359	System Constraint
1/23/2019 11:50	0:01	SMRR	0.019	1.790	System Constraint
1/23/2019 11:50	0:01	KS	0.019	1.475	System Constraint
1/23/2019 11:51	0:01	SMRR	0.019	1.802	System Constraint
1/23/2019 11:51	0:01	KS	0.019	1.872	System Constraint
1/23/2019 11:51	0:01	SMRR	0.019	1.636	System Constraint
1/23/2019 11:52	0:01	KS	0.019	1.686	System Constraint
1/23/2019 11:52	0:01	SMRR	0.020	1.349	System Constraint
1/23/2019 11:53	0:01	KS	0.018	1.515	System Constraint
1/23/2019 11:53	0:01	SMRR	0.019	0.668	System Constraint
1/23/2019 11:54	0:01	KS	0.019	0.988	System Constraint
1/23/2019 11:54	0:01	SMRR	0.019	0.823	System Constraint
1/23/2019 11:54	0:01	KS	0.019	1.145	System Constraint
1/23/2019 11:54	0:01	SMRR	0.019	0.736	System Constraint
1/23/2019 11:55	0:01	SMRR	0.019	1.273	System Constraint
1/23/2019 11:55	0:01	KS	0.019	1.052	System Constraint
1/23/2019 11:56	0:01	SMRR	0.019	1.802	System Constraint
1/23/2019 11:56	0:01	KS	0.019	1.214	System Constraint
1/23/2019 11:57	0:01	SMRR	0.019	2.152	System Constraint
1/23/2019 11:57	0:01	KS	0.019	2.034	System Constraint
1/23/2019 11:58	0:01	SMRR	0.019	2.356	System Constraint
1/23/2019 11:59	0:01	KS	0.020	2.826	System Constraint
1/23/2019 11:59	0:01	SMRR	0.020	1.453	System Constraint
1/23/2019 12:00	0:01	KS	0.023	1.664	System Constraint
1/23/2019 12:00	0:01	SMRR	0.023	0.795	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/23/2019 12:01	0:01	KS	0.023	0.934	System Constraint
1/23/2019 12:01	0:01	SMRR	0.023	0.364	System Constraint
1/23/2019 12:01	0:01	SMRR	0.023	0.283	System Constraint
1/23/2019 12:01	0:01	KS	0.023	0.558	System Constraint
1/23/2019 12:02	0:01	SMRR	0.022	0.570	System Constraint
1/23/2019 12:02	0:01	KS	0.023	0.372	System Constraint
1/23/2019 12:03	0:01	SMRR	0.023	0.892	System Constraint
1/23/2019 12:03	0:01	KS	0.023	0.773	System Constraint
1/23/2019 12:04	0:01	SMRR	0.023	0.984	System Constraint
1/23/2019 12:04	0:01	KS	0.023	1.149	System Constraint
1/23/2019 12:04	0:01	SMRR	0.023	1.658	System Constraint
1/23/2019 12:05	0:01	KS	0.023	1.892	System Constraint
1/23/2019 12:05	0:01	SMRR	0.023	2.019	System Constraint
1/23/2019 12:06	0:01	KS	0.023	2.105	System Constraint
1/23/2019 12:06	0:01	SMRR	0.022	1.748	System Constraint
1/23/2019 12:07	0:01	KS	0.023	1.699	System Constraint
1/23/2019 12:07	0:01	SMRR	0.023	2.100	System Constraint
1/23/2019 12:07	0:01	KS	0.023	2.258	System Constraint
1/23/2019 12:07	0:01	SMRR	0.023	2.151	System Constraint
1/23/2019 12:08	0:01	SMRR	0.022	1.811	System Constraint
1/23/2019 12:08	0:01	KS	0.023	2.277	System Constraint
1/23/2019 12:09	0:01	SMRR	0.023	1.563	System Constraint
1/23/2019 12:09	0:01	KS	0.023	1.596	System Constraint
1/23/2019 12:10	0:01	SMRR	0.023	1.322	System Constraint
1/23/2019 12:10	0:01	KS	0.023	1.744	System Constraint
1/23/2019 12:11	0:01	BS250	Data is not available	Data is not available	System Constraint
1/23/2019 12:11	0:01	SMRR	0.023	0.742	System Constraint
1/23/2019 12:11	0:01	KS	0.023	1.044	System Constraint
1/23/2019 12:11	0:01	SMRR	0.023	0.725	System Constraint
1/23/2019 12:12	0:01	KS	0.023	0.834	System Constraint
1/23/2019 12:12	0:01	SMRR	0.023	0.213	System Constraint
1/23/2019 12:13	0:01	KS	0.023	0.327	System Constraint
1/23/2019 12:13	0:01	SMRR	0.022	0.244	System Constraint
1/23/2019 12:13	0:01	KS	0.023	0.354	System Constraint
1/23/2019 12:14	0:01	SMRR	0.023	0.141	System Constraint
1/23/2019 12:14	0:01	SMRR	0.021	0.375	System Constraint
1/23/2019 12:14	0:01	KS	0.021	0.123	System Constraint
1/23/2019 12:15	0:01	SMRR	0.020	0.648	System Constraint
1/23/2019 12:15	0:01	KS	0.021	0.540	System Constraint
1/23/2019 12:16	0:01	SMRR	0.020	1.223	System Constraint
1/23/2019 12:16	0:01	KS	0.021	0.898	System Constraint
1/23/2019 12:17	0:01	SMRR	0.020	1.452	System Constraint
1/23/2019 12:17	0:01	KS	0.020	1.509	System Constraint
1/23/2019 12:17	0:01	SMRR	0.021	1.583	System Constraint
1/23/2019 12:18	0:01	KS	0.021	1.790	System Constraint
1/23/2019 12:18	0:01	SMRR	0.020	1.699	System Constraint
1/23/2019 12:19	0:01	KS	0.021	2.095	System Constraint
1/23/2019 12:19	0:01	SMRR	0.020	1.750	System Constraint
1/23/2019 12:20	0:01	KS	0.021	2.151	System Constraint
1/23/2019 12:20	0:01	SMRR	0.020	1.753	System Constraint
1/23/2019 12:20	0:01	KS	0.021	1.825	System Constraint
1/23/2019 12:20	0:01	SMRR	0.020	1.798	System Constraint
1/23/2019 12:21	0:02	SMRR	0.040	1.916	System Constraint
1/23/2019 12:21	0:01	KS	0.021	1.996	System Constraint
1/23/2019 12:22	0:01	KS	0.020	2.380	System Constraint
1/23/2019 12:23	0:01	SMRR	0.020	1.289	System Constraint
1/23/2019 12:23	0:01	KS	0.021	1.815	System Constraint
1/23/2019 12:24	0:01	SMRR	0.020	1.120	System Constraint
1/23/2019 12:24	0:01	KS	0.021	1.454	System Constraint
1/23/2019 12:24	0:01	SMRR	0.020	0.744	System Constraint
1/23/2019 12:25	0:01	KS	0.021	1.009	System Constraint
1/23/2019 12:25	0:01	SMRR	0.020	0.661	System Constraint
1/23/2019 12:26	0:01	KS	0.021	0.865	System Constraint
1/23/2019 12:26	0:01	SMRR	0.020	0.677	System Constraint
1/23/2019 12:26	0:01	KS	0.021	0.602	System Constraint
1/23/2019 12:27	0:01	SMRR	0.020	1.038	System Constraint
1/23/2019 12:27	0:01	KS	0.021	1.188	System Constraint
1/23/2019 12:27	0:01	SMRR	0.021	1.270	System Constraint
1/23/2019 12:28	0:01	SMRR	0.020	1.559	System Constraint
1/23/2019 12:28	0:01	KS	0.021	1.501	System Constraint
1/23/2019 12:29	0:01	SMRR	0.018	1.833	System Constraint
1/23/2019 12:29	0:01	KS	0.012	1.916	System Constraint
1/23/2019 12:30	0:01	SMRR	0.004	2.027	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/23/2019 12:30	0:01	KS	0.002	1.979	System Constraint
1/23/2019 12:30	0:01	SMRR	0.004	2.324	System Constraint
1/23/2019 12:31	0:01	KS	0.002	2.466	System Constraint
1/23/2019 12:31	0:01	SMRR	0.004	2.358	System Constraint
1/23/2019 12:32	0:01	KS	0.002	2.702	System Constraint
1/23/2019 12:32	0:01	SMRR	0.004	2.225	System Constraint
1/23/2019 12:33	0:01	KS	0.002	2.603	System Constraint
1/23/2019 12:33	0:01	SMRR	0.004	2.163	System Constraint
1/23/2019 12:33	0:01	KS	0.002	2.472	System Constraint
1/23/2019 12:33	0:01	SMRR	0.004	2.286	System Constraint
1/23/2019 12:34	0:01	KS	0.002	2.814	System Constraint
1/23/2019 12:52	0:01	SMRR	0.005	2.688	System Constraint
1/23/2019 12:56	0:01	SMRR	0.005	2.400	System Constraint
1/23/2019 12:56	0:01	SMRR	0.005	2.304	System Constraint
1/23/2019 12:57	0:01	KS	0.002	2.473	System Constraint
1/23/2019 12:57	0:01	SMRR	0.005	1.976	System Constraint
1/23/2019 12:58	0:01	KS	0.002	2.376	System Constraint
1/23/2019 12:58	0:01	SMRR	0.005	1.811	System Constraint
1/23/2019 12:58	0:01	KS	0.002	2.039	System Constraint
1/23/2019 12:59	0:01	SMRR	0.005	1.814	System Constraint
1/23/2019 12:59	0:01	KS	0.012	1.992	System Constraint
1/23/2019 12:59	0:01	SMRR	0.013	1.743	System Constraint
1/23/2019 13:00	0:01	SMRR	0.014	1.684	System Constraint
1/23/2019 13:00	0:01	KS	0.014	1.912	System Constraint
1/23/2019 13:01	0:01	SMRR	0.014	2.015	System Constraint
1/23/2019 13:01	0:01	KS	0.014	1.994	System Constraint
1/23/2019 13:02	0:01	SMRR	0.013	1.930	System Constraint
1/23/2019 13:02	0:01	KS	0.014	2.276	System Constraint
1/23/2019 13:02	0:01	SMRR	0.014	2.042	System Constraint
1/23/2019 13:03	0:01	KS	0.014	2.110	System Constraint
1/23/2019 13:03	0:01	SMRR	0.014	1.638	System Constraint
1/23/2019 13:04	0:01	KS	0.014	1.868	System Constraint
1/23/2019 13:04	0:01	SMRR	0.014	1.771	System Constraint
1/23/2019 13:04	0:01	KS	0.014	0.612	System Constraint
1/23/2019 13:05	0:01	SMRR	0.014	2.044	System Constraint
1/23/2019 13:05	0:01	KS	0.014	2.221	System Constraint
1/23/2019 13:06	0:01	SMRR	0.013	1.804	System Constraint
1/23/2019 13:06	0:01	KS	0.014	2.071	System Constraint
1/23/2019 13:06	0:01	SMRR	0.014	1.683	System Constraint
1/23/2019 13:07	0:01	KS	0.014	1.687	System Constraint
1/23/2019 13:07	0:01	SMRR	0.014	1.553	System Constraint
1/23/2019 13:08	0:01	SMRR	0.014	1.652	System Constraint
1/23/2019 13:08	0:02	KS	0.028	1.806	System Constraint
1/23/2019 13:09	0:01	SMRR	0.013	1.716	System Constraint
1/23/2019 13:09	0:01	SMRR	0.014	1.664	System Constraint
1/23/2019 13:10	0:01	KS	0.014	1.652	System Constraint
1/23/2019 13:10	0:01	SMRR	0.014	1.399	System Constraint
1/23/2019 13:11	0:01	KS	0.014	1.740	System Constraint
1/23/2019 13:11	0:01	SMRR	0.014	1.809	System Constraint
1/23/2019 13:11	0:01	KS	0.014	1.704	System Constraint
1/23/2019 13:12	0:01	SMRR	0.014	2.126	System Constraint
1/23/2019 13:12	0:01	KS	0.014	2.237	System Constraint
1/23/2019 13:12	0:01	SMRR	0.014	1.999	System Constraint
1/23/2019 13:13	0:01	KS	0.014	2.178	System Constraint
1/23/2019 13:13	0:01	SMRR	0.014	2.540	System Constraint
1/23/2019 13:14	0:01	KS	0.009	2.283	System Constraint
1/23/2019 13:14	0:01	SMRR	0.010	2.128	System Constraint
1/23/2019 13:15	0:01	SMRR	0.004	2.276	System Constraint
1/23/2019 13:15	0:01	KS	0.001	2.307	System Constraint
1/23/2019 13:24	0:01	SMRR	0.004	2.654	System Constraint
1/23/2019 13:25	0:01	KS	0.001	2.665	System Constraint
1/23/2019 13:26	0:01	KS	0.001	2.636	System Constraint
1/23/2019 13:28	0:01	KS	0.001	2.851	System Constraint
1/23/2019 13:30	0:01	SMRR	0.006	2.644	System Constraint
1/23/2019 13:31	0:01	SMRR	0.006	2.256	System Constraint
1/23/2019 13:31	0:01	KS	0.004	2.375	System Constraint
1/23/2019 13:32	0:01	SMRR	0.006	2.497	System Constraint
1/23/2019 13:32	0:01	KS	0.004	2.514	System Constraint
1/23/2019 13:32	0:01	SMRR	0.006	2.382	System Constraint
1/23/2019 13:33	0:01	KS	0.004	2.628	System Constraint
1/23/2019 13:33	0:01	SMRR	0.006	2.613	System Constraint
1/23/2019 13:35	0:01	SMRR	0.006	2.604	System Constraint
1/23/2019 13:36	0:01	SMRR	0.006	2.489	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/23/2019 13:37	0:01	SMRR	0.006	2.236	System Constraint
1/23/2019 13:37	0:01	KS	0.004	2.518	System Constraint
1/23/2019 13:38	0:01	SMRR	0.006	1.993	System Constraint
1/23/2019 13:38	0:01	KS	0.004	2.240	System Constraint
1/23/2019 13:38	0:01	SMRR	0.006	2.158	System Constraint
1/23/2019 13:39	0:01	KS	0.004	2.382	System Constraint
1/23/2019 13:39	0:01	SMRR	0.006	1.899	System Constraint
1/23/2019 13:40	0:01	KS	0.004	2.123	System Constraint
1/23/2019 13:40	0:01	SMRR	0.006	1.955	System Constraint
1/23/2019 13:41	0:01	SMRR	0.006	2.404	System Constraint
1/23/2019 13:41	0:01	KS	0.004	2.102	System Constraint
1/23/2019 13:42	0:01	KS	0.004	2.465	System Constraint
1/23/2019 13:43	0:01	SMRR	0.007	2.584	System Constraint
1/23/2019 13:44	0:01	KS	0.009	2.612	System Constraint
1/23/2019 14:03	0:01	SMRR	0.004	2.551	System Constraint
1/23/2019 14:03	0:01	KS	0.001	2.958	System Constraint
1/23/2019 14:04	0:01	SMRR	0.003	2.195	System Constraint
1/23/2019 14:04	0:01	KS	0.001	2.648	System Constraint
1/23/2019 14:07	0:01	KS	0.001	2.887	System Constraint
1/25/2019 22:34	0:05	KWP2	0.182	20.708	Oversupply
1/25/2019 22:43	0:10	KWP2	0.143	20.708	Oversupply
1/25/2019 22:54	0:07	KWP2	0.096	20.708	Oversupply
1/25/2019 23:03	0:01	KWP2	0.000	20.708	Oversupply
1/25/2019 23:34	0:17	KWP2	0.604	20.708	Oversupply
1/26/2019 0:37	0:10	KWP2	0.222	20.708	Oversupply
1/26/2019 0:48	4:36	KWP2	51.116	20.708	Oversupply
1/26/2019 5:25	0:01	KWP2	0.001	20.657	System Constraint
1/26/2019 5:32	0:01	KWP2	0.007	20.621	System Constraint
1/26/2019 5:40	0:01	KWP2	0.005	20.562	System Constraint
1/26/2019 5:48	0:02	KWP2	0.014	20.654	System Constraint
1/26/2019 6:30	0:07	KWP2	0.123	20.685	System Constraint
1/26/2019 6:38	0:01	KWP2	0.001	20.692	System Constraint
1/26/2019 6:42	0:01	KWP2	0.005	20.684	System Constraint
1/26/2019 6:48	0:11	KWP2	0.135	20.702	System Constraint
1/26/2019 8:21	0:01	SMRR	0.004	0.753	System Constraint
1/26/2019 8:21	0:01	KS	0.004	0.426	System Constraint
1/26/2019 8:22	0:01	SMRR	0.003	0.774	System Constraint
1/26/2019 8:23	0:01	SMRR	0.003	0.195	System Constraint
1/26/2019 8:24	0:01	SMRR	0.003	0.231	System Constraint
1/26/2019 8:25	0:01	SMRR	0.003	0.154	System Constraint
1/26/2019 8:25	0:01	KS	0.004	0.476	System Constraint
1/26/2019 8:26	0:01	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 8:26	0:01	KWP2	0.001	20.606	System Constraint
1/26/2019 8:26	0:01	KS	0.004	0.111	System Constraint
1/26/2019 8:27	0:01	SMRR	0.003	0.288	System Constraint
1/26/2019 8:27	0:02	KS	0.008	0.511	System Constraint
1/26/2019 8:28	0:01	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 8:28	0:01	KWP2	0.007	20.645	System Constraint
1/26/2019 8:29	0:01	SMRR	0.003	0.125	System Constraint
1/26/2019 8:30	0:01	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 8:30	0:03	KWP2	0.023	20.683	System Constraint
1/26/2019 8:30	0:01	KS	0.006	0.033	System Constraint
1/26/2019 8:30	0:01	SMRR	0.005	0.128	System Constraint
1/26/2019 8:31	0:02	SMRR	0.011	0.363	System Constraint
1/26/2019 8:31	0:01	KS	0.006	0.080	System Constraint
1/26/2019 8:32	0:01	KS	0.006	0.262	System Constraint
1/26/2019 8:32	0:01	SMRR	0.005	0.320	System Constraint
1/26/2019 8:33	0:01	KS	0.006	0.006	System Constraint
1/26/2019 8:33	0:01	SMRR	0.005	0.058	System Constraint
1/26/2019 8:33	0:01	KS	0.006	0.746	System Constraint
1/26/2019 8:34	0:01	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 8:34	0:01	SMRR	0.005	0.371	System Constraint
1/26/2019 8:34	0:01	KS	0.006	0.108	System Constraint
1/26/2019 8:35	0:01	SMRR	0.005	0.508	System Constraint
1/26/2019 8:35	0:01	KS	0.006	0.732	System Constraint
1/26/2019 8:35	0:02	SMRR	0.011	0.007	System Constraint
1/26/2019 8:36	0:02	KS	0.013	0.013	System Constraint
1/26/2019 10:03	0:01	SMRR	0.005	2.245	System Constraint
1/26/2019 10:05	0:01	SMRR	0.005	2.364	System Constraint
1/26/2019 10:06	0:01	SMRR	0.005	1.718	System Constraint
1/26/2019 10:06	0:01	SMRR	0.005	1.447	System Constraint
1/26/2019 10:08	0:01	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 10:08	0:01	KS	0.008	2.284	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/26/2019 10:09	0:01	SMRR	0.005	0.530	System Constraint
1/26/2019 10:09	0:01	KS	0.008	2.252	System Constraint
1/26/2019 10:09	0:01	SMRR	0.005	0.811	System Constraint
1/26/2019 10:10	4:16	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 10:10	5:12	KWP	83.200	20.708	System Constraint
1/26/2019 10:10	5:14	KS	13.832	0.650	System Constraint
1/26/2019 10:10	4:18	SMRR	11.246	0.744	System Constraint
1/26/2019 11:20	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 11:20	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 11:21	0:01	AWE	0.012	1.800	System Constraint
1/26/2019 11:35	0:04	AWE	0.089	3.000	System Constraint
1/26/2019 11:40	0:38	AWE	0.469	1.800	System Constraint
1/26/2019 11:42	0:03	5A	Data is not available	Data is not available	System Constraint
1/26/2019 11:42	0:03	BS	Data is not available	Data is not available	System Constraint
1/26/2019 11:46	0:05	5A	Data is not available	Data is not available	System Constraint
1/26/2019 11:46	0:05	BS	Data is not available	Data is not available	System Constraint
1/26/2019 11:47	0:01	KWP	0.002	13.952	System Constraint
1/26/2019 11:52	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 11:52	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 11:55	0:05	5A	Data is not available	Data is not available	System Constraint
1/26/2019 11:55	0:05	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:01	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:01	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:03	0:04	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:03	0:04	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:04	0:01	KWP	0.002	11.051	System Constraint
1/26/2019 12:06	0:01	KWP	0.003	9.837	System Constraint
1/26/2019 12:08	0:04	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:08	0:04	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:14	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:14	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:19	0:14	AWE	0.168	1.800	System Constraint
1/26/2019 12:21	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:21	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:23	0:06	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:23	0:06	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:28	0:02	KWP	0.002	10.840	System Constraint
1/26/2019 12:30	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:30	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:32	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:32	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:32	0:01	KWP	0.001	12.158	System Constraint
1/26/2019 12:36	0:01	AWE	0.007	1.100	System Constraint
1/26/2019 12:39	0:01	AWE	0.013	0.800	System Constraint
1/26/2019 12:41	0:08	AWE	0.055	0.700	System Constraint
1/26/2019 12:42	0:06	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:42	0:06	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:43	0:01	KWP	0.003	12.738	System Constraint
1/26/2019 12:50	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:50	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:50	0:05	AWE	0.016	0.400	System Constraint
1/26/2019 12:53	0:03	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:53	0:03	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:56	0:01	AWE	0.008	0.500	System Constraint
1/26/2019 12:57	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 12:57	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 12:58	0:08	AWE	0.022	0.400	System Constraint
1/26/2019 13:00	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:00	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:02	0:01	KWP	0.002	15.007	System Constraint
1/26/2019 13:03	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:03	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:10	0:01	AWE	0.006	0.500	System Constraint
1/26/2019 13:12	0:03	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:12	0:03	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:12	0:01	KWP	0.002	15.956	System Constraint
1/26/2019 13:12	0:02	AWE	0.007	0.400	System Constraint
1/26/2019 13:16	0:01	KWP	0.001	15.956	System Constraint
1/26/2019 13:17	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:17	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:19	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:19	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:19	0:02	KWP	0.001	15.429	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/26/2019 13:20	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 13:22	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:22	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:25	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:25	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:25	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 13:27	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 13:28	0:03	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:28	0:03	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:30	0:02	KWP	0.003	16.853	System Constraint
1/26/2019 13:33	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:33	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:36	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:36	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:36	0:01	AWE	0.003	0.200	System Constraint
1/26/2019 13:40	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 13:42	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:42	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:42	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 13:42	0:01	KWP	0.001	20.176	System Constraint
1/26/2019 13:50	0:01	KWP	0.005	17.960	System Constraint
1/26/2019 13:51	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:51	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:55	0:03	5A	Data is not available	Data is not available	System Constraint
1/26/2019 13:55	0:03	BS	Data is not available	Data is not available	System Constraint
1/26/2019 13:57	0:01	KWP	0.004	18.752	System Constraint
1/26/2019 14:02	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 14:02	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 14:03	0:01	AWE	0.003	0.200	System Constraint
1/26/2019 14:04	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 14:04	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 14:04	0:02	KWP	0.004	22.602	System Constraint
1/26/2019 14:05	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 14:07	0:02	5A	Data is not available	Data is not available	System Constraint
1/26/2019 14:07	0:02	BS	Data is not available	Data is not available	System Constraint
1/26/2019 14:15	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 14:15	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 14:19	0:01	5A	Data is not available	Data is not available	System Constraint
1/26/2019 14:19	0:01	BS	Data is not available	Data is not available	System Constraint
1/26/2019 14:19	0:01	AWE	0.002	0.100	System Constraint
1/26/2019 14:27	0:55	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 14:28	0:01	SMRR	0.036	0.242	System Constraint
1/26/2019 14:29	0:54	SMRR	2.049	0.021	System Constraint
1/26/2019 15:23	0:01	SMRR	0.022	-0.003	System Constraint
1/26/2019 15:23	0:01	SMRR	0.022	0.230	System Constraint
1/26/2019 15:24	0:02	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 15:24	0:02	KS	0.057	0.091	System Constraint
1/26/2019 15:24	0:01	SMRR	0.022	0.957	System Constraint
1/26/2019 15:25	0:01	SMRR	0.022	0.549	System Constraint
1/26/2019 15:26	0:01	KS	0.028	0.195	System Constraint
1/26/2019 15:26	0:01	SMRR	0.022	0.006	System Constraint
1/26/2019 15:26	0:01	KS	0.027	0.008	System Constraint
1/26/2019 15:26	0:01	SMRR	0.022	0.250	System Constraint
1/26/2019 15:27	0:01	KS	0.028	0.231	System Constraint
1/26/2019 15:28	0:01	KWP II	0.002	20.708	System Constraint
1/26/2019 15:28	0:01	SMRR	0.022	0.867	System Constraint
1/26/2019 15:28	0:01	KS	0.027	0.547	System Constraint
1/26/2019 15:29	0:01	SMRR	0.022	0.063	System Constraint
1/26/2019 15:29	0:02	KS	0.044	0.048	System Constraint
1/26/2019 15:29	0:01	SMRR	0.010	0.020	System Constraint
1/26/2019 15:30	0:01	SMRR	0.008	0.842	System Constraint
1/26/2019 15:31	0:01	KS	0.017	0.072	System Constraint
1/26/2019 15:31	0:01	SMRR	0.008	1.437	System Constraint
1/26/2019 15:32	0:01	KS	0.017	0.304	System Constraint
1/26/2019 15:32	0:01	SMRR	0.008	0.994	System Constraint
1/26/2019 15:32	0:01	KS	0.017	0.113	System Constraint
1/26/2019 15:33	0:01	SMRR	0.007	1.205	System Constraint
1/26/2019 15:33	0:01	KS	0.017	0.257	System Constraint
1/26/2019 15:33	0:01	SMRR	0.008	1.564	System Constraint
1/26/2019 15:42	0:21	BS250	Data is not available	Data is not available	System Constraint
1/26/2019 15:42	0:21	KWP II	1.411	20.708	System Constraint
1/26/2019 15:42	0:01	SMRR	0.008	2.364	System Constraint
1/26/2019 15:42	0:01	SMRR	0.008	1.359	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/26/2019 15:43	0:23	KS	0.518	0.058	System Constraint
1/26/2019 15:43	0:21	SMRR	0.503	0.094	System Constraint
1/26/2019 16:04	0:01	SMRR	0.010	0.118	System Constraint
1/26/2019 16:05	0:01	SMRR	0.010	0.234	System Constraint
1/26/2019 16:24	0:01	SMRR	0.001	1.489	System Constraint
1/26/2019 16:25	0:01	SMRR	0.001	1.455	System Constraint
1/26/2019 22:48	5:49	KWPPII	60.866	20.708	Oversupply
1/27/2019 4:40	0:01	KWPPII	0.026	20.222	Oversupply
1/27/2019 4:43	0:01	KWPPII	0.003	20.573	Oversupply
1/27/2019 4:47	0:26	KWPPII	0.855	20.661	Oversupply
1/27/2019 5:14	0:01	KWPPII	0.004	20.614	Oversupply
1/27/2019 5:16	0:02	KWPPII	0.007	20.594	Oversupply
1/27/2019 8:55	0:01	SMRR	0.001	1.370	Oversupply
1/27/2019 8:56	0:01	SMRR	0.001	1.255	Oversupply
1/27/2019 8:57	0:01	SMRR	0.001	0.724	Oversupply
1/27/2019 8:57	0:01	KS	0.002	1.160	Oversupply
1/27/2019 8:58	0:01	SMRR	0.001	0.451	Oversupply
1/27/2019 8:58	0:01	KS	0.002	0.798	Oversupply
1/27/2019 8:59	0:01	SMRR	0.001	0.365	Oversupply
1/27/2019 8:59	0:01	KS	0.004	0.522	Oversupply
1/27/2019 9:00	0:01	SMRR	0.004	0.794	Oversupply
1/27/2019 9:00	0:01	KS	0.002	0.890	Oversupply
1/27/2019 9:00	0:01	SMRR	0.004	1.224	Oversupply
1/27/2019 9:01	0:01	KS	0.002	0.984	Oversupply
1/27/2019 9:01	0:01	SMRR	0.004	1.248	Oversupply
1/27/2019 9:08	0:01	SMRR	0.004	1.544	Oversupply
1/27/2019 9:09	0:01	KS	0.002	0.619	Oversupply
1/27/2019 9:10	0:01	SMRR	0.004	1.584	Oversupply
1/27/2019 9:11	0:01	SMRR	0.004	0.924	Oversupply
1/27/2019 9:11	0:01	KS	0.002	0.684	Oversupply
1/27/2019 9:12	0:01	SMRR	0.004	0.398	Oversupply
1/27/2019 9:12	0:01	KS	0.002	0.176	Oversupply
1/27/2019 9:12	0:02	SMRR	0.008	0.006	Oversupply
1/27/2019 9:13	0:01	KS	0.002	0.018	Oversupply
1/27/2019 9:14	0:07	BS250	Data is not available	Data is not available	Oversupply
1/27/2019 9:14	0:01	KS	0.003	0.240	Oversupply
1/27/2019 9:14	0:01	SMRR	0.008	0.755	Oversupply
1/27/2019 9:15	0:07	KWPPII	0.080	20.708	Oversupply
1/27/2019 9:15	0:01	KS	0.006	0.477	Oversupply
1/27/2019 9:15	0:01	SMRR	0.014	0.257	Oversupply
1/27/2019 9:15	0:01	KS	0.006	0.074	Oversupply
1/27/2019 9:16	0:08	SMRR	0.141	0.014	Oversupply
1/27/2019 9:16	0:02	KS	0.013	0.013	Oversupply
1/27/2019 9:18	0:05	KS	0.038	0.028	Oversupply
1/27/2019 9:23	0:01	SMRR	0.014	0.202	Oversupply
1/27/2019 9:23	0:01	KS	0.006	0.020	Oversupply
1/27/2019 9:24	0:01	KS	0.006	0.274	Oversupply
1/27/2019 9:49	0:01	KS	-0.001	2.675	Oversupply
1/27/2019 9:50	0:01	SMRR	0.001	0.587	Oversupply
1/27/2019 9:50	0:01	KS	-0.001	2.721	Oversupply
1/27/2019 9:51	0:01	SMRR	0.001	0.658	Oversupply
1/27/2019 9:54	0:01	SMRR	0.001	0.621	Oversupply
1/27/2019 9:54	0:01	KS	-0.001	2.811	Oversupply
1/27/2019 9:54	0:01	SMRR	0.001	0.599	Oversupply
1/27/2019 9:55	0:01	KS	-0.001	2.369	Oversupply
1/27/2019 9:55	0:01	SMRR	0.001	0.637	Oversupply
1/27/2019 9:56	0:01	KS	-0.001	1.696	Oversupply
1/27/2019 9:57	0:18	BS250	Data is not available	Data is not available	Oversupply
1/27/2019 9:57	0:01	KS	-0.001	1.354	Oversupply
1/27/2019 9:58	0:02	KWPPII	0.054	20.700	Oversupply
1/27/2019 9:58	0:01	SMRR	0.001	0.329	Oversupply
1/27/2019 9:58	0:01	KS	-0.001	2.254	Oversupply
1/27/2019 9:58	0:03	SMRR	0.028	0.012	Oversupply
1/27/2019 9:59	0:01	KS	-0.001	0.958	Oversupply
1/27/2019 9:59	0:17	KS	0.521	0.023	Oversupply
1/27/2019 10:01	0:14	KWPPII	0.780	20.701	Oversupply
1/27/2019 10:01	0:15	SMRR	0.210	0.006	Oversupply
1/27/2019 10:16	0:03	KWPPII	0.018	20.691	Oversupply
1/27/2019 10:17	0:01	BS250	Data is not available	Data is not available	Oversupply
1/27/2019 10:17	0:01	SMRR	0.007	0.272	Oversupply
1/27/2019 10:17	0:01	KS	0.012	0.040	Oversupply
1/27/2019 10:17	0:01	SMRR	0.007	0.003	Oversupply
1/27/2019 10:18	0:03	KS	0.037	0.296	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/27/2019 10:18	0:02	SMRR	0.021	0.005	Oversupply
1/27/2019 10:20	0:01	KS	0.012	0.008	Oversupply
1/27/2019 10:20	0:01	SMRR	0.007	0.277	Oversupply
1/27/2019 10:21	0:01	KS	0.012	0.801	Oversupply
1/27/2019 10:24	0:01	SMRR	0.007	0.676	Oversupply
1/27/2019 10:25	0:01	SMRR	0.007	0.750	Oversupply
1/27/2019 10:26	0:01	SMRR	0.007	0.886	Oversupply
1/27/2019 10:27	0:01	SMRR	0.007	0.315	Oversupply
1/27/2019 10:27	0:01	KS	0.012	0.652	Oversupply
1/27/2019 10:27	0:01	SMRR	0.007	0.353	Oversupply
1/27/2019 10:28	0:01	KS	0.012	0.543	Oversupply
1/27/2019 10:28	0:01	SMRR	0.007	0.611	Oversupply
1/27/2019 10:29	0:01	KS	0.010	2.438	Oversupply
1/27/2019 10:30	0:01	SMRR	0.004	1.065	Oversupply
1/27/2019 10:30	0:01	KS	0.005	1.691	Oversupply
1/27/2019 10:30	0:01	SMRR	0.004	0.303	Oversupply
1/27/2019 10:31	0:01	KS	0.005	1.361	Oversupply
1/27/2019 10:31	0:01	KS	0.005	1.186	Oversupply
1/27/2019 10:32	0:01	SMRR	0.004	0.783	Oversupply
1/27/2019 10:32	0:01	KS	0.005	1.566	Oversupply
1/27/2019 10:33	0:01	SMRR	0.004	1.329	Oversupply
1/27/2019 10:33	0:01	KS	0.005	1.394	Oversupply
1/27/2019 10:33	0:01	SMRR	0.004	0.559	Oversupply
1/27/2019 10:34	0:01	KS	0.005	1.229	Oversupply
1/27/2019 10:34	0:01	SMRR	0.004	0.862	Oversupply
1/27/2019 10:35	0:01	KS	0.005	1.992	Oversupply
1/27/2019 10:39	0:01	SMRR	0.004	1.101	Oversupply
1/27/2019 10:39	0:01	KS	0.005	2.139	Oversupply
1/27/2019 10:40	0:01	SMRR	0.004	1.047	Oversupply
1/27/2019 10:40	0:01	KS	0.005	2.114	Oversupply
1/27/2019 10:40	0:01	SMRR	0.004	0.989	Oversupply
1/27/2019 10:41	0:01	KS	0.005	1.366	Oversupply
1/27/2019 10:41	0:01	SMRR	0.004	1.024	Oversupply
1/27/2019 10:42	0:35	BS250	Data is not available	Data is not available	Oversupply
1/27/2019 10:42	0:35	KWP	3.256	20.708	Oversupply
1/27/2019 10:42	0:01	SMRR	0.004	0.425	Oversupply
1/27/2019 10:42	0:01	KS	0.005	1.384	Oversupply
1/27/2019 10:43	0:01	SMRR	0.004	0.834	Oversupply
1/27/2019 10:43	0:01	KS	0.005	1.325	Oversupply
1/27/2019 10:43	0:35	SMRR	0.851	0.017	Oversupply
1/27/2019 10:44	0:01	KS	0.005	1.140	Oversupply
1/27/2019 10:44	0:35	KS	1.045	0.028	Oversupply
1/27/2019 11:18	0:01	SMRR	0.011	0.316	Oversupply
1/27/2019 11:19	0:01	KS	0.006	0.325	Oversupply
1/27/2019 11:19	0:01	SMRR	0.011	0.534	Oversupply
1/27/2019 11:20	0:01	KS	0.006	0.447	Oversupply
1/27/2019 11:20	0:01	SMRR	0.011	0.783	Oversupply
1/27/2019 11:21	0:01	KS	0.006	0.536	Oversupply
1/27/2019 11:21	0:01	SMRR	0.011	0.928	Oversupply
1/27/2019 11:22	0:01	KS	0.006	0.818	Oversupply
1/27/2019 13:52	0:01	KWP	0.004	21.495	Oversupply
1/27/2019 14:10	0:01	KWP	0.000	21.020	Oversupply
1/27/2019 14:31	0:27	BS250	Data is not available	Data is not available	Oversupply
1/27/2019 14:31	0:01	SMRR	0.008	0.453	Oversupply
1/27/2019 14:31	0:01	KS	0.026	2.792	Oversupply
1/27/2019 14:32	0:27	KWP	3.124	20.708	Oversupply
1/27/2019 14:32	0:01	SMRR	0.008	0.490	Oversupply
1/27/2019 14:32	0:01	KS	0.026	1.840	Oversupply
1/27/2019 14:32	0:28	SMRR	0.460	0.147	Oversupply
1/27/2019 14:33	0:28	KS	0.739	0.422	Oversupply
1/27/2019 15:00	0:01	AWE	0.003	0.200	Oversupply
1/27/2019 15:00	0:01	SMRR	0.006	0.000	Oversupply
1/27/2019 15:01	0:01	KS	0.004	0.062	Oversupply
1/27/2019 16:16	0:01	AWE	0.005	0.300	Oversupply
1/27/2019 22:09	0:07	KWP	0.213	20.482	Oversupply
1/27/2019 22:45	0:28	KWP	1.293	20.516	Oversupply
1/27/2019 23:23	0:01	KWP	0.004	18.272	Oversupply
1/27/2019 23:28	0:01	KWP	0.003	19.420	Oversupply
1/27/2019 23:32	0:17	KWP	0.824	20.555	Oversupply
1/28/2019 1:26	0:01	KWP	0.007	17.024	Oversupply
1/28/2019 3:19	0:01	KWP	0.032	18.614	Oversupply
1/28/2019 3:21	0:01	KWP	0.008	18.023	Oversupply
1/28/2019 3:24	0:01	KWP	0.005	17.335	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/28/2019 3:26	0:01	KWP11	0.002	17.186	Oversupply
1/28/2019 10:14	0:16	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 10:14	0:01	SMRR	0.000	2.403	Oversupply
1/28/2019 10:15	0:01	KS	0.022	2.108	Oversupply
1/28/2019 10:15	0:01	SMRR	0.021	1.338	Oversupply
1/28/2019 10:15	0:01	SMRR	0.021	0.658	Oversupply
1/28/2019 10:15	0:01	KS	0.022	1.300	Oversupply
1/28/2019 10:16	0:15	KWP11	0.780	20.708	Oversupply
1/28/2019 10:16	0:15	SMRR	0.423	0.025	Oversupply
1/28/2019 10:16	0:16	KS	0.410	0.706	Oversupply
1/28/2019 10:31	0:01	SMRR	0.020	-0.002	Oversupply
1/28/2019 10:32	0:01	SMRR	0.020	-0.002	Oversupply
1/28/2019 10:33	0:01	KWP11	0.000	20.708	Oversupply
1/28/2019 10:33	0:01	KS	0.021	0.225	Oversupply
1/28/2019 10:33	0:01	SMRR	0.019	-0.002	Oversupply
1/28/2019 10:34	0:01	KS	0.021	0.638	Oversupply
1/28/2019 10:34	0:01	SMRR	0.020	0.002	Oversupply
1/28/2019 10:34	0:01	KS	0.021	0.402	Oversupply
1/28/2019 10:34	0:01	SMRR	0.020	0.299	Oversupply
1/28/2019 10:35	0:01	SMRR	0.020	0.114	Oversupply
1/28/2019 10:35	0:02	KS	0.042	0.505	Oversupply
1/28/2019 10:36	0:01	SMRR	0.019	0.184	Oversupply
1/28/2019 10:37	0:03	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 10:37	0:03	KWP11	0.071	20.697	Oversupply
1/28/2019 10:37	0:01	SMRR	0.020	0.271	Oversupply
1/28/2019 10:37	0:01	KS	0.021	0.868	Oversupply
1/28/2019 10:37	0:01	SMRR	0.020	0.289	Oversupply
1/28/2019 10:38	0:01	KS	0.021	1.587	Oversupply
1/28/2019 10:38	1:21	SMRR	3.378	0.313	Oversupply
1/28/2019 10:39	0:03	KS	0.083	0.825	Oversupply
1/28/2019 10:41	1:17	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 10:41	1:16	KWP11	16.136	20.708	Oversupply
1/28/2019 10:42	0:01	KS	0.021	-0.001	Oversupply
1/28/2019 10:43	3:57	KS	10.595	-0.001	Oversupply
1/28/2019 11:45	0:04	AWE	0.057	1.500	Oversupply
1/28/2019 11:46	0:03	5A	Data is not available	Data is not available	Oversupply
1/28/2019 11:46	0:03	BS	Data is not available	Data is not available	Oversupply
1/28/2019 11:50	0:03	5A	Data is not available	Data is not available	Oversupply
1/28/2019 11:50	0:03	BS	Data is not available	Data is not available	Oversupply
1/28/2019 11:52	0:01	AWE	0.002	0.300	Oversupply
1/28/2019 11:58	1:57	KWP11	29.569	20.708	Oversupply
1/28/2019 11:59	2:38	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 11:59	0:01	SMRR	0.037	0.001	Oversupply
1/28/2019 12:00	2:39	SMRR	6.827	0.000	Oversupply
1/28/2019 12:19	0:02	AWE	0.010	2.100	Oversupply
1/28/2019 12:28	0:02	AWE	0.045	4.100	Oversupply
1/28/2019 13:56	0:42	KWP11	13.468	20.708	Oversupply
1/28/2019 14:01	0:03	AWE	0.061	3.300	Oversupply
1/28/2019 14:05	0:01	AWE	0.002	2.100	Oversupply
1/28/2019 14:09	0:09	AWE	0.228	4.300	Oversupply
1/28/2019 14:11	0:05	5A	Data is not available	Data is not available	Oversupply
1/28/2019 14:11	0:05	BS	Data is not available	Data is not available	Oversupply
1/28/2019 14:13	0:02	KWP	0.004	26.927	Oversupply
1/28/2019 14:17	0:01	5A	Data is not available	Data is not available	Oversupply
1/28/2019 14:17	0:01	BS	Data is not available	Data is not available	Oversupply
1/28/2019 14:19	0:01	5A	Data is not available	Data is not available	Oversupply
1/28/2019 14:19	0:01	BS	Data is not available	Data is not available	Oversupply
1/28/2019 14:19	0:08	AWE	0.162	2.500	Oversupply
1/28/2019 14:22	0:04	5A	Data is not available	Data is not available	Oversupply
1/28/2019 14:22	0:04	BS	Data is not available	Data is not available	Oversupply
1/28/2019 14:30	0:02	AWE	0.032	5.900	Oversupply
1/28/2019 14:39	0:49	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 14:40	0:48	KWP11	4.850	20.708	Oversupply
1/28/2019 14:40	0:01	SMRR	0.030	-0.002	Oversupply
1/28/2019 14:40	0:01	KS	0.037	0.223	Oversupply
1/28/2019 14:40	0:01	SMRR	0.029	-0.002	Oversupply
1/28/2019 14:40	0:01	KS	0.037	0.230	Oversupply
1/28/2019 14:41	0:47	SMRR	1.765	-0.002	Oversupply
1/28/2019 14:41	0:49	KS	2.009	0.236	Oversupply
1/28/2019 15:28	0:01	SMRR	0.028	0.003	Oversupply
1/28/2019 15:28	0:01	SMRR	0.029	-0.001	Oversupply
1/28/2019 15:29	0:01	SMRR	0.017	0.080	Oversupply
1/28/2019 15:30	0:01	SMRR	0.006	0.935	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/28/2019 15:31	0:01	KS	0.022	0.193	Oversupply
1/28/2019 15:31	0:01	SMRR	0.006	1.307	Oversupply
1/28/2019 15:31	0:01	KS	0.022	0.316	Oversupply
1/28/2019 15:47	0:01	SMRR	0.014	2.003	Oversupply
1/28/2019 15:48	0:01	SMRR	0.014	1.974	Oversupply
1/28/2019 15:48	0:01	SMRR	0.014	1.465	Oversupply
1/28/2019 15:49	0:01	SMRR	0.014	1.738	Oversupply
1/28/2019 15:51	0:04	BS250	Data is not available	Data is not available	Oversupply
1/28/2019 15:51	0:01	SMRR	0.014	1.953	Oversupply
1/28/2019 15:52	0:03	KWP2	0.055	20.701	Oversupply
1/28/2019 15:52	0:01	KS	0.027	0.049	Oversupply
1/28/2019 15:52	0:02	SMRR	0.028	0.783	Oversupply
1/28/2019 15:53	0:04	KS	0.133	0.011	Oversupply
1/28/2019 15:54	0:01	SMRR	0.014	-0.002	Oversupply
1/28/2019 15:54	0:02	SMRR	0.029	-0.002	Oversupply
1/28/2019 15:56	0:01	SMRR	0.014	-0.002	Oversupply
1/28/2019 15:57	0:01	SMRR	0.015	-0.002	Oversupply
1/28/2019 15:57	0:01	SMRR	0.014	-0.002	Oversupply
1/28/2019 15:58	0:01	SMRR	0.014	-0.002	Oversupply
1/28/2019 22:20	0:08	KWP2	0.338	20.708	Oversupply
1/28/2019 23:22	0:01	KWP2	0.003	20.586	Oversupply
1/28/2019 23:28	0:01	KWP2	0.011	20.627	Oversupply
1/28/2019 23:39	0:01	KWP2	0.005	20.620	Oversupply
1/28/2019 23:41	0:11	KWP2	0.242	20.500	Oversupply
1/28/2019 23:55	0:05	KWP2	0.056	20.077	Oversupply
1/29/2019 0:01	0:46	KWP2	1.480	20.277	Oversupply
1/29/2019 1:21	0:13	KWP2	0.458	18.020	Oversupply
1/29/2019 1:35	0:01	KWP2	0.014	18.696	Oversupply
1/29/2019 1:38	0:01	KWP2	0.004	18.791	Oversupply
1/29/2019 1:40	0:19	KWP2	0.785	19.231	Oversupply
1/29/2019 2:04	0:01	KWP2	0.010	15.274	Oversupply
1/29/2019 2:06	0:44	KWP2	2.688	20.421	Oversupply
1/29/2019 2:51	2:07	KWP2	13.946	20.663	Oversupply
1/29/2019 7:47	0:01	SMRR	0.001	0.146	System Constraint
1/29/2019 10:45	0:06	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 10:45	0:06	KWP2	0.330	19.126	System Constraint
1/29/2019 10:45	0:01	SMRR	0.009	0.915	System Constraint
1/29/2019 10:45	0:01	SMRR	0.009	0.891	System Constraint
1/29/2019 10:46	0:01	KS	0.013	1.333	System Constraint
1/29/2019 10:46	0:06	SMRR	0.071	0.644	System Constraint
1/29/2019 10:47	0:01	KS	0.013	1.063	System Constraint
1/29/2019 10:48	0:05	KS	0.077	0.031	System Constraint
1/29/2019 10:50	0:01	KWP	0.001	15.376	System Constraint
1/29/2019 10:52	0:01	KWP	0.001	15.059	System Constraint
1/29/2019 10:52	0:01	SMRR	0.009	0.175	System Constraint
1/29/2019 10:53	0:01	KS	0.013	-0.001	System Constraint
1/29/2019 10:53	0:01	SMRR	0.009	0.558	System Constraint
1/29/2019 10:58	0:01	SMRR	0.009	0.722	System Constraint
1/29/2019 10:59	0:03	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 10:59	0:01	SMRR	0.005	1.207	System Constraint
1/29/2019 11:00	0:02	KWP2	0.092	18.635	System Constraint
1/29/2019 11:00	0:01	KS	0.017	1.236	System Constraint
1/29/2019 11:00	0:01	SMRR	0.012	0.601	System Constraint
1/29/2019 11:00	0:01	KS	0.017	0.865	System Constraint
1/29/2019 11:01	0:02	SMRR	0.035	0.343	System Constraint
1/29/2019 11:01	0:03	KS	0.051	0.756	System Constraint
1/29/2019 11:45	0:01	SMRR	0.009	2.750	System Constraint
1/29/2019 11:46	0:01	KS	0.010	1.702	System Constraint
1/29/2019 11:47	0:01	SMRR	0.009	2.782	System Constraint
1/29/2019 11:47	0:01	KS	0.010	1.870	System Constraint
1/29/2019 11:47	0:01	SMRR	0.009	2.004	System Constraint
1/29/2019 11:48	0:01	SMRR	0.009	1.233	System Constraint
1/29/2019 11:48	0:01	KS	0.010	1.903	System Constraint
1/29/2019 11:49	0:01	SMRR	0.009	1.442	System Constraint
1/29/2019 11:49	0:01	KS	0.010	1.445	System Constraint
1/29/2019 11:50	0:01	SMRR	0.009	0.599	System Constraint
1/29/2019 11:50	0:01	KS	0.010	1.133	System Constraint
1/29/2019 11:50	0:01	SMRR	0.009	0.074	System Constraint
1/29/2019 11:51	0:01	KS	0.010	0.030	System Constraint
1/29/2019 11:51	0:01	SMRR	0.009	0.601	System Constraint
1/29/2019 11:51	0:01	KS	0.010	0.117	System Constraint
1/29/2019 11:52	0:01	KS	0.010	0.454	System Constraint
1/29/2019 12:03	0:01	SMRR	0.008	1.859	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/29/2019 12:03	0:02	SMRR	0.016	1.125	System Constraint
1/29/2019 12:04	0:01	KS	0.015	0.892	System Constraint
1/29/2019 12:04	0:01	KS	0.015	0.984	System Constraint
1/29/2019 12:05	0:01	SMRR	0.008	0.817	System Constraint
1/29/2019 12:05	0:01	KS	0.015	0.892	System Constraint
1/29/2019 12:06	0:01	SMRR	0.008	0.359	System Constraint
1/29/2019 12:06	0:01	KS	0.015	0.965	System Constraint
1/29/2019 12:06	0:01	SMRR	0.008	0.878	System Constraint
1/29/2019 12:07	0:01	KS	0.015	0.672	System Constraint
1/29/2019 12:07	0:01	SMRR	0.008	1.056	System Constraint
1/29/2019 12:08	0:01	SMRR	0.008	2.133	System Constraint
1/29/2019 12:08	0:01	KS	0.015	0.884	System Constraint
1/29/2019 12:13	0:01	SMRR	0.008	2.320	System Constraint
1/29/2019 12:14	0:35	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 12:14	0:01	SMRR	0.015	1.698	System Constraint
1/29/2019 12:15	0:01	SMRR	0.035	0.751	System Constraint
1/29/2019 12:15	0:01	KS	0.036	0.734	System Constraint
1/29/2019 12:16	0:34	KWP	5.310	19.205	System Constraint
1/29/2019 12:16	0:35	SMRR	1.667	0.033	System Constraint
1/29/2019 12:16	0:01	KS	0.036	1.211	System Constraint
1/29/2019 12:17	0:35	KS	1.413	0.031	System Constraint
1/29/2019 12:18	0:01	KWP	0.001	18.382	System Constraint
1/29/2019 12:51	0:06	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 12:51	0:07	KWP	0.301	18.345	System Constraint
1/29/2019 12:51	0:01	SMRR	0.035	0.066	System Constraint
1/29/2019 12:51	0:08	SMRR	0.362	0.209	System Constraint
1/29/2019 12:52	0:01	KS	0.034	0.152	System Constraint
1/29/2019 12:53	0:07	KS	0.271	0.257	System Constraint
1/29/2019 12:59	0:01	SMRR	0.033	0.178	System Constraint
1/29/2019 13:00	0:01	KS	0.034	0.092	System Constraint
1/29/2019 13:00	0:01	SMRR	0.011	0.284	System Constraint
1/29/2019 13:01	0:01	SMRR	0.011	0.347	System Constraint
1/29/2019 13:01	0:01	KS	0.034	0.241	System Constraint
1/29/2019 13:02	0:01	KS	0.034	0.258	System Constraint
1/29/2019 13:02	0:01	SMRR	0.011	1.127	System Constraint
1/29/2019 13:03	0:01	SMRR	0.011	1.056	System Constraint
1/29/2019 13:03	0:01	KS	0.034	0.289	System Constraint
1/29/2019 13:04	0:01	KS	0.033	0.313	System Constraint
1/29/2019 13:05	0:01	KS	0.034	0.300	System Constraint
1/29/2019 13:07	0:01	SMRR	0.011	1.266	System Constraint
1/29/2019 13:07	0:01	SMRR	0.011	1.090	System Constraint
1/29/2019 13:08	0:01	KS	0.034	0.328	System Constraint
1/29/2019 13:08	0:01	SMRR	0.011	1.298	System Constraint
1/29/2019 13:08	0:01	KS	0.034	0.316	System Constraint
1/29/2019 13:09	0:01	SMRR	0.011	0.892	System Constraint
1/29/2019 13:10	0:02	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 13:10	0:01	SMRR	0.011	0.993	System Constraint
1/29/2019 13:10	0:01	SMRR	0.011	0.652	System Constraint
1/29/2019 13:11	0:01	SMRR	0.011	0.145	System Constraint
1/29/2019 13:12	0:01	KS	0.034	0.303	System Constraint
1/29/2019 13:12	0:01	SMRR	0.011	0.210	System Constraint
1/29/2019 13:13	0:01	KS	0.034	0.334	System Constraint
1/29/2019 13:13	0:01	SMRR	0.011	0.124	System Constraint
1/29/2019 13:14	0:01	SMRR	0.011	0.311	System Constraint
1/29/2019 13:14	0:01	KS	0.034	0.342	System Constraint
1/29/2019 13:14	0:01	SMRR	0.017	1.184	System Constraint
1/29/2019 13:14	0:01	KS	0.035	0.341	System Constraint
1/29/2019 13:15	0:01	SMRR	0.033	1.155	System Constraint
1/29/2019 13:15	0:01	KS	0.033	0.338	System Constraint
1/29/2019 13:16	2:00	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 13:16	0:01	SMRR	0.034	1.271	System Constraint
1/29/2019 13:16	0:01	KS	0.033	0.332	System Constraint
1/29/2019 13:17	0:01	SMRR	0.034	0.507	System Constraint
1/29/2019 13:17	0:01	KS	0.033	0.315	System Constraint
1/29/2019 13:17	0:01	SMRR	0.034	0.673	System Constraint
1/29/2019 13:18	1:58	KWP	17.819	19.211	System Constraint
1/29/2019 13:18	0:01	KS	0.033	0.297	System Constraint
1/29/2019 13:18	1:59	SMRR	4.686	0.021	System Constraint
1/29/2019 13:19	1:59	KS	4.409	0.295	System Constraint
1/29/2019 14:47	0:01	5A	Data is not available	Data is not available	System Constraint
1/29/2019 14:47	0:01	BS	Data is not available	Data is not available	System Constraint
1/29/2019 15:17	0:01	SMRR	0.017	0.172	System Constraint
1/29/2019 15:18	0:01	SMRR	0.017	0.552	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/29/2019 15:18	0:01	KS	0.031	0.098	System Constraint
1/29/2019 15:19	0:01	SMRR	0.017	0.546	System Constraint
1/29/2019 15:19	0:01	KS	0.031	0.115	System Constraint
1/29/2019 15:20	0:01	SMRR	0.017	0.282	System Constraint
1/29/2019 15:20	0:01	KS	0.031	0.087	System Constraint
1/29/2019 15:20	0:01	SMRR	0.017	0.383	System Constraint
1/29/2019 15:21	0:01	KS	0.031	0.094	System Constraint
1/29/2019 15:21	0:01	SMRR	0.017	0.752	System Constraint
1/29/2019 15:22	0:01	KS	0.031	0.217	System Constraint
1/29/2019 15:22	0:01	SMRR	0.017	0.950	System Constraint
1/29/2019 15:22	0:01	KS	0.031	0.284	System Constraint
1/29/2019 15:23	0:01	SMRR	0.017	0.854	System Constraint
1/29/2019 15:23	0:01	KS	0.031	0.254	System Constraint
1/29/2019 15:24	0:01	KS	0.031	0.309	System Constraint
1/29/2019 15:26	0:01	SMRR	0.017	2.468	System Constraint
1/29/2019 15:27	0:33	BS250	Data is not available	Data is not available	System Constraint
1/29/2019 15:27	0:01	SMRR	0.017	2.331	System Constraint
1/29/2019 15:28	0:33	KWP2	2.762	19.211	System Constraint
1/29/2019 15:28	0:01	KS	0.031	0.335	System Constraint
1/29/2019 15:28	0:34	SMRR	0.977	1.237	System Constraint
1/29/2019 15:29	0:35	KS	1.052	0.327	System Constraint
1/29/2019 16:02	0:01	SMRR	0.009	0.006	System Constraint
1/29/2019 16:02	0:01	SMRR	0.009	0.429	System Constraint
1/29/2019 22:53	0:13	KWP2	0.664	15.960	Oversupply
1/29/2019 23:12	0:01	KWP2	0.003	14.910	Oversupply
1/29/2019 23:19	0:22	KWP2	1.896	18.593	Oversupply
1/29/2019 23:43	0:01	KWP2	0.004	18.580	Oversupply
1/29/2019 23:45	0:01	KWP2	0.001	18.549	Oversupply
1/29/2019 23:52	5:06	KWP2	42.938	19.211	Oversupply
1/30/2019 4:59	0:20	KWP2	0.633	19.211	Oversupply
1/30/2019 10:04	0:01	KS	0.000	2.342	System Constraint
1/30/2019 10:15	0:01	SMRR	0.000	2.270	System Constraint
1/30/2019 10:15	0:01	KS	0.000	1.494	System Constraint
1/30/2019 10:15	0:01	SMRR	0.000	1.628	System Constraint
1/30/2019 10:16	0:01	KS	0.000	1.843	System Constraint
1/30/2019 10:32	0:01	SMRR	0.023	2.216	System Constraint
1/30/2019 10:32	0:01	KS	0.020	2.658	System Constraint
1/30/2019 10:33	0:36	BS250	Data is not available	Data is not available	System Constraint
1/30/2019 10:33	0:01	SMRR	0.023	1.857	System Constraint
1/30/2019 10:33	0:01	KS	0.020	2.019	System Constraint
1/30/2019 10:34	0:01	SMRR	0.023	1.043	System Constraint
1/30/2019 10:34	0:01	KS	0.020	1.401	System Constraint
1/30/2019 10:34	0:36	SMRR	1.380	0.163	System Constraint
1/30/2019 10:35	0:35	KWP2	1.942	19.211	System Constraint
1/30/2019 10:35	0:01	KS	0.019	0.293	System Constraint
1/30/2019 10:36	0:35	KS	1.247	0.031	System Constraint
1/30/2019 11:10	0:01	SMRR	0.032	-0.002	System Constraint
1/30/2019 11:11	0:01	SMRR	0.032	0.125	System Constraint
1/30/2019 11:11	0:01	KS	0.036	0.223	System Constraint
1/30/2019 11:12	0:01	SMRR	0.031	0.441	System Constraint
1/30/2019 11:12	0:01	KS	0.036	0.980	System Constraint
1/30/2019 11:13	0:01	SMRR	0.032	0.796	System Constraint
1/30/2019 11:13	0:01	KS	0.036	1.064	System Constraint
1/30/2019 11:13	0:01	SMRR	0.032	1.175	System Constraint
1/30/2019 11:14	0:02	BS250	Data is not available	Data is not available	System Constraint
1/30/2019 11:14	0:01	KS	0.029	0.527	System Constraint
1/30/2019 11:14	0:01	SMRR	0.027	0.614	System Constraint
1/30/2019 11:15	0:01	KS	0.020	0.470	System Constraint
1/30/2019 11:15	0:01	SMRR	0.023	0.256	System Constraint
1/30/2019 11:16	0:02	SMRR	0.047	0.014	System Constraint
1/30/2019 11:16	0:01	KS	0.020	0.302	System Constraint
1/30/2019 11:17	0:01	KS	0.020	0.019	System Constraint
1/30/2019 11:17	0:01	SMRR	0.024	0.561	System Constraint
1/30/2019 11:17	0:01	KS	0.020	0.223	System Constraint
1/30/2019 11:18	0:01	KS	0.020	1.739	System Constraint
1/30/2019 11:20	0:01	SMRR	0.024	1.723	System Constraint
1/30/2019 11:21	0:01	KS	0.020	2.494	System Constraint
1/30/2019 11:21	0:01	SMRR	0.024	1.611	System Constraint
1/30/2019 11:22	0:01	KS	0.020	1.303	System Constraint
1/30/2019 11:22	0:01	SMRR	0.023	0.989	System Constraint
1/30/2019 11:23	0:01	SMRR	0.024	0.464	System Constraint
1/30/2019 11:23	0:01	KS	0.020	0.617	System Constraint
1/30/2019 11:23	0:01	SMRR	0.024	0.116	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/30/2019 11:23	0:01	KS	0.020	0.290	System Constraint
1/30/2019 11:24	0:01	SMRR	0.024	0.536	System Constraint
1/30/2019 11:24	0:01	KS	0.020	0.259	System Constraint
1/30/2019 11:25	0:01	SMRR	0.023	0.744	System Constraint
1/30/2019 11:25	0:01	KS	0.020	0.738	System Constraint
1/30/2019 11:26	0:01	BS250	Data is not available	Data is not available	System Constraint
1/30/2019 11:26	0:01	SMRR	0.024	1.781	System Constraint
1/30/2019 11:26	0:01	SMRR	0.024	2.590	System Constraint
1/30/2019 11:27	0:01	KS	0.020	2.194	System Constraint
1/30/2019 11:27	0:01	SMRR	0.024	1.510	System Constraint
1/30/2019 11:28	2:08	BS250	Data is not available	Data is not available	System Constraint
1/30/2019 11:28	0:01	KS	0.020	1.697	System Constraint
1/30/2019 11:28	0:01	SMRR	0.023	0.246	System Constraint
1/30/2019 11:29	1:29	KWP	19.635	19.211	System Constraint
1/30/2019 11:29	1:29	SMRR	4.250	0.205	System Constraint
1/30/2019 11:29	0:01	KS	0.021	0.381	System Constraint
1/30/2019 11:30	0:01	KS	0.038	0.099	System Constraint
1/30/2019 11:30	2:08	KS	6.029	0.035	System Constraint
1/30/2019 12:29	0:05	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:29	0:05	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:29	0:14	AWE	0.222	1.700	System Constraint
1/30/2019 12:30	0:01	KWP	0.002	21.653	System Constraint
1/30/2019 12:33	0:01	KWP	0.001	17.802	System Constraint
1/30/2019 12:35	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:35	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:38	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:38	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:38	0:01	KWP	0.002	19.490	System Constraint
1/30/2019 12:40	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:40	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:40	0:01	KWP	0.001	20.334	System Constraint
1/30/2019 12:42	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:42	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:44	0:05	AWE	0.098	2.300	System Constraint
1/30/2019 12:45	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 12:45	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 12:50	0:01	AWE	0.000	1.500	System Constraint
1/30/2019 12:58	0:01	SMRR	0.037	-0.003	System Constraint
1/30/2019 12:59	0:37	KWP	9.282	17.714	System Constraint
1/30/2019 12:59	0:38	SMRR	1.820	0.035	System Constraint
1/30/2019 13:16	0:03	AWE	0.032	1.700	System Constraint
1/30/2019 13:21	0:11	AWE	0.145	2.100	System Constraint
1/30/2019 13:23	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 13:23	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 13:25	0:05	5A	Data is not available	Data is not available	System Constraint
1/30/2019 13:25	0:05	BS	Data is not available	Data is not available	System Constraint
1/30/2019 13:38	2:22	BS250	Data is not available	Data is not available	System Constraint
1/30/2019 13:38	2:23	KWP	26.470	19.211	System Constraint
1/30/2019 13:38	0:01	SMRR	0.036	-0.002	System Constraint
1/30/2019 13:39	0:01	KS	0.039	0.316	System Constraint
1/30/2019 13:39	2:22	SMRR	5.770	-0.002	System Constraint
1/30/2019 13:40	2:22	KS	6.202	0.308	System Constraint
1/30/2019 13:44	0:53	AWE	1.632	4.100	System Constraint
1/30/2019 13:48	0:11	5A	Data is not available	Data is not available	System Constraint
1/30/2019 13:48	0:11	BS	Data is not available	Data is not available	System Constraint
1/30/2019 13:50	0:02	KWP	0.002	22.075	System Constraint
1/30/2019 13:54	0:01	KWP	0.001	19.490	System Constraint
1/30/2019 13:56	0:01	KWP	0.001	16.378	System Constraint
1/30/2019 14:03	0:04	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:03	0:04	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:06	0:01	KWP	0.001	17.275	System Constraint
1/30/2019 14:10	0:01	KWP	0.001	17.169	System Constraint
1/30/2019 14:11	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:11	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:13	0:03	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:13	0:03	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:13	0:01	KWP	0.001	18.857	System Constraint
1/30/2019 14:17	0:06	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:17	0:06	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:21	0:01	KWP	0.001	19.332	System Constraint
1/30/2019 14:25	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:25	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:27	0:01	5A	Data is not available	Data is not available	System Constraint



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/30/2019 14:27	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:29	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:29	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:31	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:31	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:32	0:01	KWP	0.001	21.284	System Constraint
1/30/2019 14:35	0:01	5A	Data is not available	Data is not available	System Constraint
1/30/2019 14:35	0:01	BS	Data is not available	Data is not available	System Constraint
1/30/2019 14:36	0:01	KWP	0.001	23.499	System Constraint
1/30/2019 14:42	0:01	KWP	0.001	22.075	System Constraint
1/30/2019 14:48	0:01	KWP	0.001	22.075	System Constraint
1/30/2019 16:02	0:01	SMRR	0.008	0.008	System Constraint
1/30/2019 22:32	0:16	KWP11	0.811	19.211	Oversupply
1/30/2019 22:50	0:01	KWP11	0.003	19.211	Oversupply
1/30/2019 22:57	5:27	KWP11	54.488	19.211	Oversupply
1/30/2019 23:00	0:01	AWE	0.003	0.200	Oversupply
1/31/2019 7:38	0:01	SMRR	0.000	0.119	Oversupply
1/31/2019 9:38	0:01	AWE	0.002	0.100	Oversupply
1/31/2019 9:44	0:01	SMRR	0.001	1.948	Oversupply
1/31/2019 9:44	0:01	KS	0.003	0.851	Oversupply
1/31/2019 9:44	0:01	SMRR	0.011	1.168	Oversupply
1/31/2019 9:45	0:01	KS	0.006	0.686	Oversupply
1/31/2019 9:45	0:01	SMRR	0.011	0.780	Oversupply
1/31/2019 9:46	0:01	KS	0.006	0.311	Oversupply
1/31/2019 9:48	0:02	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 9:49	0:01	SMRR	0.011	1.690	Oversupply
1/31/2019 9:50	0:01	SMRR	0.011	0.484	Oversupply
1/31/2019 9:50	0:01	KS	0.006	0.139	Oversupply
1/31/2019 9:50	0:01	SMRR	0.011	0.030	Oversupply
1/31/2019 9:51	0:01	KS	0.006	0.021	Oversupply
1/31/2019 9:51	0:01	SMRR	0.011	0.474	Oversupply
1/31/2019 9:52	0:05	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 9:52	0:01	KS	0.006	0.042	Oversupply
1/31/2019 9:52	0:01	SMRR	0.011	0.797	Oversupply
1/31/2019 9:53	0:05	KWP11	0.089	19.211	Oversupply
1/31/2019 9:53	0:01	KS	0.006	0.158	Oversupply
1/31/2019 9:53	0:01	SMRR	0.011	0.303	Oversupply
1/31/2019 9:54	0:06	KS	0.039	0.042	Oversupply
1/31/2019 9:54	0:05	SMRR	0.076	0.023	Oversupply
1/31/2019 9:59	0:01	SMRR	0.009	0.201	Oversupply
1/31/2019 10:00	0:01	KS	0.004	0.415	Oversupply
1/31/2019 10:00	0:01	SMRR	0.016	0.596	Oversupply
1/31/2019 10:00	0:01	KS	0.004	0.702	Oversupply
1/31/2019 10:00	0:01	SMRR	0.016	1.043	Oversupply
1/31/2019 10:01	0:01	SMRR	0.016	1.256	Oversupply
1/31/2019 10:01	0:01	KS	0.004	0.645	Oversupply
1/31/2019 10:02	0:01	KS	0.004	0.563	Oversupply
1/31/2019 10:03	0:01	SMRR	0.016	1.832	Oversupply
1/31/2019 10:05	0:01	SMRR	0.016	1.983	Oversupply
1/31/2019 10:06	0:01	SMRR	0.016	2.521	Oversupply
1/31/2019 10:06	0:01	KS	0.004	0.601	Oversupply
1/31/2019 10:07	0:01	SMRR	0.016	2.147	Oversupply
1/31/2019 10:07	0:01	KS	0.004	0.496	Oversupply
1/31/2019 10:08	0:10	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 10:08	0:01	SMRR	0.016	2.190	Oversupply
1/31/2019 10:08	0:01	KS	0.004	0.623	Oversupply
1/31/2019 10:09	0:09	KWP11	0.404	19.211	Oversupply
1/31/2019 10:09	0:11	SMRR	0.233	0.895	Oversupply
1/31/2019 10:09	0:01	KS	0.004	0.183	Oversupply
1/31/2019 10:10	0:10	KS	0.053	0.011	Oversupply
1/31/2019 10:20	0:01	SMRR	0.017	0.422	Oversupply
1/31/2019 10:20	0:01	KS	0.005	0.180	Oversupply
1/31/2019 10:20	0:01	SMRR	0.017	0.953	Oversupply
1/31/2019 10:21	0:01	SMRR	0.017	1.217	Oversupply
1/31/2019 10:21	0:01	KS	0.005	0.156	Oversupply
1/31/2019 10:22	0:01	KS	0.005	0.237	Oversupply
1/31/2019 10:23	0:01	SMRR	0.017	1.745	Oversupply
1/31/2019 10:26	0:01	SMRR	0.018	2.205	Oversupply
1/31/2019 10:26	0:01	SMRR	0.017	1.986	Oversupply
1/31/2019 10:27	0:01	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 10:27	0:01	SMRR	0.017	2.142	Oversupply
1/31/2019 10:27	0:01	KS	0.005	0.584	Oversupply
1/31/2019 10:28	0:01	SMRR	0.018	0.955	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/31/2019 10:28	0:01	KS	0.005	0.395	Oversupply
1/31/2019 10:29	1:29	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 10:29	0:01	SMRR	0.017	0.224	Oversupply
1/31/2019 10:29	0:01	KS	0.006	0.206	Oversupply
1/31/2019 10:29	0:01	SMRR	0.028	0.458	Oversupply
1/31/2019 10:30	1:28	KWPPII	10.614	19.211	Oversupply
1/31/2019 10:30	0:01	KS	0.010	0.104	Oversupply
1/31/2019 10:30	1:29	SMRR	3.966	0.017	Oversupply
1/31/2019 10:31	0:01	KS	0.010	0.111	Oversupply
1/31/2019 10:31	1:29	KS	1.906	0.013	Oversupply
1/31/2019 12:00	0:01	SMRR	0.017	0.157	Oversupply
1/31/2019 12:00	0:01	SMRR	0.017	0.500	Oversupply
1/31/2019 12:00	0:01	KS	0.015	0.400	Oversupply
1/31/2019 12:01	0:01	SMRR	0.017	0.683	Oversupply
1/31/2019 12:01	0:01	KS	0.015	0.398	Oversupply
1/31/2019 12:02	0:01	SMRR	0.017	1.440	Oversupply
1/31/2019 12:02	0:01	KS	0.015	0.502	Oversupply
1/31/2019 12:03	0:01	KS	0.015	1.085	Oversupply
1/31/2019 12:04	0:01	SMRR	0.017	2.094	Oversupply
1/31/2019 12:05	0:01	KS	0.015	1.238	Oversupply
1/31/2019 12:05	0:01	SMRR	0.017	2.137	Oversupply
1/31/2019 12:06	0:01	SMRR	0.017	1.720	Oversupply
1/31/2019 12:06	0:01	KS	0.015	1.097	Oversupply
1/31/2019 12:06	0:01	SMRR	0.017	1.413	Oversupply
1/31/2019 12:07	0:01	KS	0.015	1.279	Oversupply
1/31/2019 12:07	0:01	SMRR	0.017	0.832	Oversupply
1/31/2019 12:07	0:01	KS	0.015	1.211	Oversupply
1/31/2019 12:08	0:01	SMRR	0.017	0.344	Oversupply
1/31/2019 12:08	0:01	KS	0.015	0.492	Oversupply
1/31/2019 12:09	0:01	SMRR	0.017	0.657	Oversupply
1/31/2019 12:09	0:01	KS	0.015	0.494	Oversupply
1/31/2019 12:09	0:01	SMRR	0.017	0.665	Oversupply
1/31/2019 12:10	0:01	KS	0.014	0.559	Oversupply
1/31/2019 12:10	0:01	SMRR	0.017	1.593	Oversupply
1/31/2019 12:11	0:01	KS	0.014	1.355	Oversupply
1/31/2019 12:15	0:01	SMRR	0.029	2.795	Oversupply
1/31/2019 12:16	0:01	SMRR	0.030	2.400	Oversupply
1/31/2019 12:16	0:01	KS	0.032	2.525	Oversupply
1/31/2019 12:16	0:01	SMRR	0.030	1.537	Oversupply
1/31/2019 12:17	0:01	KS	0.032	1.202	Oversupply
1/31/2019 12:17	0:01	SMRR	0.030	0.805	Oversupply
1/31/2019 12:18	0:06	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 12:18	0:01	KS	0.032	0.747	Oversupply
1/31/2019 12:18	0:01	SMRR	0.030	1.075	Oversupply
1/31/2019 12:19	0:05	KWPPII	0.052	19.211	Oversupply
1/31/2019 12:19	0:01	KS	0.032	1.101	Oversupply
1/31/2019 12:19	0:01	SMRR	0.030	0.674	Oversupply
1/31/2019 12:19	0:05	SMRR	0.176	0.020	Oversupply
1/31/2019 12:19	0:01	KS	0.032	0.720	Oversupply
1/31/2019 12:20	0:02	KS	0.064	0.034	Oversupply
1/31/2019 12:22	0:01	KS	0.032	-0.001	Oversupply
1/31/2019 12:23	0:03	KS	0.128	-0.001	Oversupply
1/31/2019 12:24	0:01	SMRR	0.030	0.019	Oversupply
1/31/2019 12:25	0:25	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 12:25	0:01	SMRR	0.029	0.054	Oversupply
1/31/2019 12:25	0:01	SMRR	0.030	0.316	Oversupply
1/31/2019 12:26	0:25	SMRR	1.158	0.153	Oversupply
1/31/2019 12:26	0:01	KS	0.032	0.180	Oversupply
1/31/2019 12:27	0:23	KWPPII	1.665	19.211	Oversupply
1/31/2019 12:27	0:01	KS	0.032	0.209	Oversupply
1/31/2019 12:28	0:01	KS	0.032	0.234	Oversupply
1/31/2019 12:29	0:23	KS	0.508	0.036	Oversupply
1/31/2019 12:51	0:01	SMRR	0.035	0.205	Oversupply
1/31/2019 12:52	0:01	SMRR	0.034	0.196	Oversupply
1/31/2019 12:52	0:02	KS	0.041	0.116	Oversupply
1/31/2019 12:53	0:01	SMRR	0.035	0.202	Oversupply
1/31/2019 12:54	0:01	SMRR	0.035	0.296	Oversupply
1/31/2019 12:54	0:01	KS	0.021	0.813	Oversupply
1/31/2019 12:55	0:02	SMRR	0.070	0.300	Oversupply
1/31/2019 12:55	0:01	KS	0.021	0.861	Oversupply
1/31/2019 12:56	0:01	KS	0.020	1.035	Oversupply
1/31/2019 12:56	0:01	SMRR	0.034	0.304	Oversupply
1/31/2019 12:57	0:05	BS250	Data is not available	Data is not available	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/31/2019 12:57	0:01	KS	0.021	0.788	Oversupply
1/31/2019 12:57	0:01	SMRR	0.035	0.307	Oversupply
1/31/2019 12:57	0:01	KS	0.021	0.549	Oversupply
1/31/2019 12:58	0:01	SMRR	0.035	0.318	Oversupply
1/31/2019 12:58	0:05	SMRR	0.202	0.310	Oversupply
1/31/2019 12:58	0:01	KS	0.020	0.430	Oversupply
1/31/2019 12:59	0:03	KWP2	0.051	19.211	Oversupply
1/31/2019 12:59	0:04	KS	0.158	0.013	Oversupply
1/31/2019 13:03	0:01	SMRR	0.033	0.148	Oversupply
1/31/2019 13:04	0:01	KS	0.034	-0.001	Oversupply
1/31/2019 13:04	0:01	SMRR	0.033	0.319	Oversupply
1/31/2019 13:04	0:01	KS	0.034	-0.001	Oversupply
1/31/2019 13:04	0:01	SMRR	0.033	0.325	Oversupply
1/31/2019 13:05	0:01	SMRR	0.033	0.325	Oversupply
1/31/2019 13:05	0:01	KS	0.034	0.046	Oversupply
1/31/2019 13:06	0:01	SMRR	0.033	0.325	Oversupply
1/31/2019 13:06	0:01	KS	0.034	0.104	Oversupply
1/31/2019 13:07	0:01	SMRR	0.033	0.329	Oversupply
1/31/2019 13:07	0:01	KS	0.034	0.107	Oversupply
1/31/2019 13:07	0:01	SMRR	0.033	0.345	Oversupply
1/31/2019 13:08	0:01	KS	0.034	0.263	Oversupply
1/31/2019 13:08	0:01	SMRR	0.033	0.347	Oversupply
1/31/2019 13:09	0:01	KS	0.034	0.271	Oversupply
1/31/2019 13:09	0:01	SMRR	0.033	0.343	Oversupply
1/31/2019 13:10	0:01	KS	0.034	0.278	Oversupply
1/31/2019 13:10	0:01	SMRR	0.033	0.348	Oversupply
1/31/2019 13:10	0:01	KS	0.033	0.286	Oversupply
1/31/2019 13:11	0:01	SMRR	0.033	0.346	Oversupply
1/31/2019 13:11	0:01	KS	0.034	0.287	Oversupply
1/31/2019 13:11	0:01	SMRR	0.033	0.327	Oversupply
1/31/2019 13:12	0:01	KS	0.034	0.270	Oversupply
1/31/2019 13:13	0:01	KS	0.034	0.288	Oversupply
1/31/2019 13:14	0:01	KS	0.033	0.256	Oversupply
1/31/2019 13:15	0:01	KS	0.026	0.269	Oversupply
1/31/2019 13:16	0:01	KS	0.026	0.262	Oversupply
1/31/2019 13:49	0:01	SMRR	0.006	1.339	Oversupply
1/31/2019 13:50	0:01	KS	0.020	2.367	Oversupply
1/31/2019 13:50	0:01	SMRR	0.006	1.512	Oversupply
1/31/2019 13:51	0:04	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 13:51	0:01	SMRR	0.006	0.608	Oversupply
1/31/2019 13:51	0:01	KS	0.021	1.113	Oversupply
1/31/2019 13:52	0:03	KWP2	0.048	19.211	Oversupply
1/31/2019 13:52	0:01	SMRR	0.006	0.043	Oversupply
1/31/2019 13:52	0:01	KS	0.021	0.873	Oversupply
1/31/2019 13:52	0:04	SMRR	0.030	0.014	Oversupply
1/31/2019 13:53	0:04	KS	0.106	0.130	Oversupply
1/31/2019 13:56	0:01	SMRR	0.006	0.270	Oversupply
1/31/2019 13:57	0:01	KS	0.021	-0.002	Oversupply
1/31/2019 14:12	0:01	SMRR	0.000	0.781	Oversupply
1/31/2019 14:19	0:01	SMRR	0.017	2.179	Oversupply
1/31/2019 14:20	0:01	KS	0.008	0.951	Oversupply
1/31/2019 14:20	0:01	SMRR	0.017	0.937	Oversupply
1/31/2019 14:20	0:01	KS	0.008	0.914	Oversupply
1/31/2019 14:21	0:01	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 14:21	0:01	SMRR	0.017	0.020	Oversupply
1/31/2019 14:21	0:02	KS	0.016	0.444	Oversupply
1/31/2019 14:22	0:01	SMRR	0.017	0.021	Oversupply
1/31/2019 14:22	0:01	SMRR	0.017	0.092	Oversupply
1/31/2019 14:23	0:01	KS	0.008	0.101	Oversupply
1/31/2019 14:23	0:01	SMRR	0.017	0.325	Oversupply
1/31/2019 14:24	0:01	SMRR	0.017	0.659	Oversupply
1/31/2019 14:24	0:01	KS	0.008	0.142	Oversupply
1/31/2019 14:25	0:01	SMRR	0.017	1.016	Oversupply
1/31/2019 14:25	0:01	KS	0.008	0.466	Oversupply
1/31/2019 14:25	0:01	SMRR	0.017	1.318	Oversupply
1/31/2019 14:26	0:16	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 14:26	0:01	KS	0.008	0.739	Oversupply
1/31/2019 14:26	0:01	SMRR	0.017	0.948	Oversupply
1/31/2019 14:26	0:01	KS	0.008	0.449	Oversupply
1/31/2019 14:27	0:16	KWP2	0.978	19.211	Oversupply
1/31/2019 14:27	0:17	SMRR	0.623	0.389	Oversupply
1/31/2019 14:27	0:01	KS	0.008	0.125	Oversupply
1/31/2019 14:28	0:16	KS	0.379	0.020	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
1/31/2019 14:44	0:01	SMRR	0.031	0.067	Oversupply
1/31/2019 14:44	0:01	SMRR	0.029	0.340	Oversupply
1/31/2019 14:45	0:11	BS250	Data is not available	Data is not available	Oversupply
1/31/2019 14:45	0:01	KS	0.018	0.111	Oversupply
1/31/2019 14:45	0:01	SMRR	0.031	0.344	Oversupply
1/31/2019 14:45	0:01	KS	0.018	0.109	Oversupply
1/31/2019 14:46	0:10	KWP2	0.227	19.211	Oversupply
1/31/2019 14:46	0:01	SMRR	0.030	0.338	Oversupply
1/31/2019 14:46	0:01	KS	0.018	0.117	Oversupply
1/31/2019 14:47	0:11	SMRR	0.426	0.346	Oversupply
1/31/2019 14:47	0:11	KS	0.229	0.379	Oversupply
1/31/2019 14:57	0:01	SMRR	0.031	0.212	Oversupply
1/31/2019 14:58	0:01	SMRR	0.030	0.768	Oversupply
1/31/2019 14:58	0:01	KS	0.018	0.249	Oversupply
1/31/2019 14:59	0:01	SMRR	0.026	0.803	Oversupply
1/31/2019 14:59	0:01	KS	0.010	0.249	Oversupply
1/31/2019 15:00	0:01	SMRR	0.009	0.837	Oversupply
1/31/2019 15:00	0:01	KS	0.005	0.084	Oversupply
1/31/2019 15:00	0:01	SMRR	0.008	0.930	Oversupply
1/31/2019 15:01	0:01	KS	0.005	0.088	Oversupply
1/31/2019 15:01	0:01	SMRR	0.009	0.654	Oversupply
1/31/2019 15:02	0:01	KS	0.005	0.091	Oversupply
1/31/2019 15:02	0:01	SMRR	0.009	0.723	Oversupply
1/31/2019 15:03	0:01	KS	0.005	0.129	Oversupply
1/31/2019 15:03	0:01	SMRR	0.009	0.747	Oversupply
1/31/2019 15:04	0:01	SMRR	0.009	0.919	Oversupply
1/31/2019 15:04	0:01	KS	0.005	0.147	Oversupply
1/31/2019 15:04	0:01	SMRR	0.008	1.464	Oversupply
1/31/2019 15:04	0:01	KS	0.005	0.385	Oversupply
1/31/2019 15:05	0:01	KS	0.005	0.303	Oversupply
1/31/2019 16:07	0:02	AWE	0.003	0.100	Oversupply
1/31/2019 22:08	0:11	KWP2	0.426	19.211	Oversupply
1/31/2019 22:24	1:36	KWP2	13.348	19.211	Oversupply
1/31/2019 23:55	0:05	AWE	0.148	20.100	Oversupply
Total Estimated Curtailed MWh			904.262		

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 ("KWP2") Bioreal Solar 250, LLC ("BS250"), Extra Spaces A ("ESA"), Extra Spaces B ("ESB"), South Maui Renewable Resources ("SMRR"), and Ku'ia Solar ("KS") 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 variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down ("ARRD"). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD). Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control will employ the lesser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic.
- Curtailment signals sent to 5A, BS, BS250, ESA, ESB, SMRR, or KS during nighttime hours only are not recorded as curtailment events because no energy generation is possible during that time.
- The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.
- The data to calculate the Estimated Curtailed MWh and Peak MW Curtailed is not provided by 5A, BS, BS 250, ESA, ESB, and MH.
- The ESA facility was offline for the entire month of December 2018. No curtailment events were recorded until to this date.
- The ESB facility was offline from December 28, 2018 through December 31, 2018. No curtailment events were recorded until to this date.
- The Estimated Curtailed MWh and Peak MW Curtailed are calculated with information provided by AWE, KWP, KWP2, KS and SMRR. Maui Electric does not make any representation as to its accuracy.



Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
1/29/2019 13:19	0:03	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 13:23	0:05	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 13:31	0:07	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 13:39	0:06	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 13:46	0:09	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 13:57	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:01	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:03	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:05	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:07	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:09	0:02	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:12	0:13	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:29	0:02	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:34	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:36	0:03	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:47	0:04	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 14:52	0:07	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 15:01	0:03	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 15:08	0:06	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 15:16	0:04	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:32	0:04	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:37	0:03	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:41	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:43	0:02	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:50	0:07	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 16:59	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 17:02	0:01	LSR	Data is not available	Data is not available	Oversupply
1/29/2019 17:04	0:01	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:00	0:11	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:13	0:03	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:20	0:08	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:31	0:01	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:33	0:04	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:41	0:04	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:46	0:01	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 15:48	0:09	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 16:02	0:02	LSR	Data is not available	Data is not available	Oversupply
1/30/2019 16:06	0:05	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 9:34	0:29	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 10:41	0:01	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 10:43	0:01	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 10:46	0:04	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 10:51	0:27	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 16:40	0:01	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 16:44	0:01	LSR	Data is not available	Data is not available	Oversupply
1/31/2019 16:49	0:01	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 January 2019

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released ¹	IPP	Reason for Curtailment
01/02/19 09:17	19.9 MW	01/02/19 09:41	12.4 MW	Pakini Nui Windfarm	Facility requested
01/02/19 09:50	18.7 MW	01/02/19 14:20	18.0 MW	Pakini Nui Windfarm	Facility requested
01/04/19 08:34	18.7 MW	01/04/19 09:24	17.2 MW	Pakini Nui Windfarm	System constraint
01/04/19 10:34	19.9 MW	01/04/19 11:23	16.3 MW	Pakini Nui Windfarm	System constraint
01/05/19 11:19	18.7 MW	01/05/19 16:21	19.9 MW	Pakini Nui Windfarm	Facility requested
01/08/19 07:30	9.7 MW	01/08/19 08:16	6.1 MW	Pakini Nui Windfarm	System constraint
01/08/19 13:57	16.0 MW	01/08/19 14:41	15.2 MW	Pakini Nui Windfarm	System constraint
01/18/19 07:24	7.7 MW	01/18/19 08:04	7.2 MW	Pakini Nui Windfarm	System constraint

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

SERVICE LIST
(Docket No. 2011-0206)

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