



August 27, 2018

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2018 AUG 27 P 4: 11

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 July 2018 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

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

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

Sincerely,

Kevin M. Katsura
Manager
Regulatory Non-Rate Proceedings

Enclosure

c: Service List

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

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

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

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending July 31, 2018):

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

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

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 July 31, 2018):

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

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

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

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

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

Hawaiian Electric's demand response activations for system events for the month of July are provided in Attachment 5. 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.

- (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 July 31, 2018):

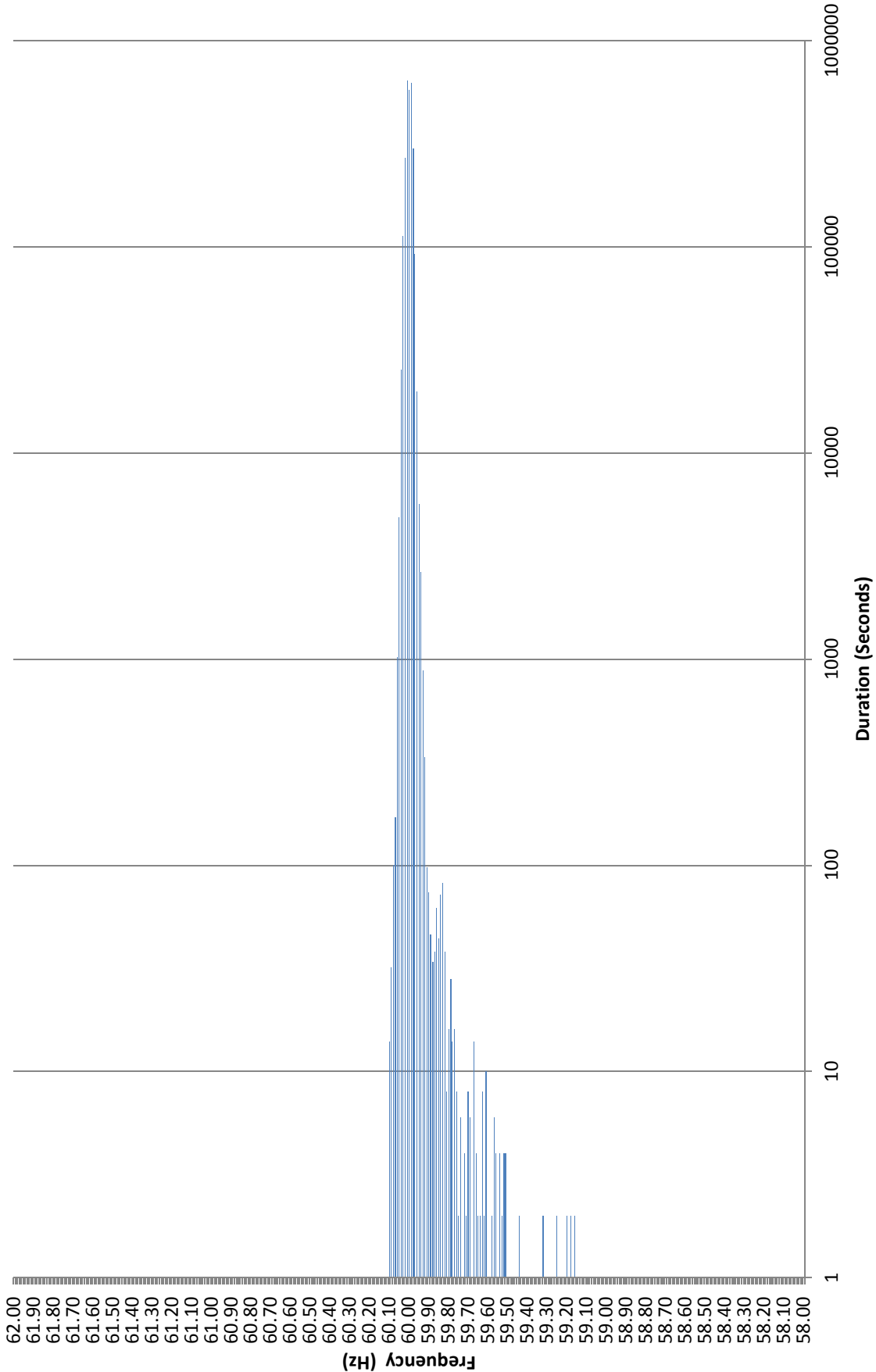
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

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

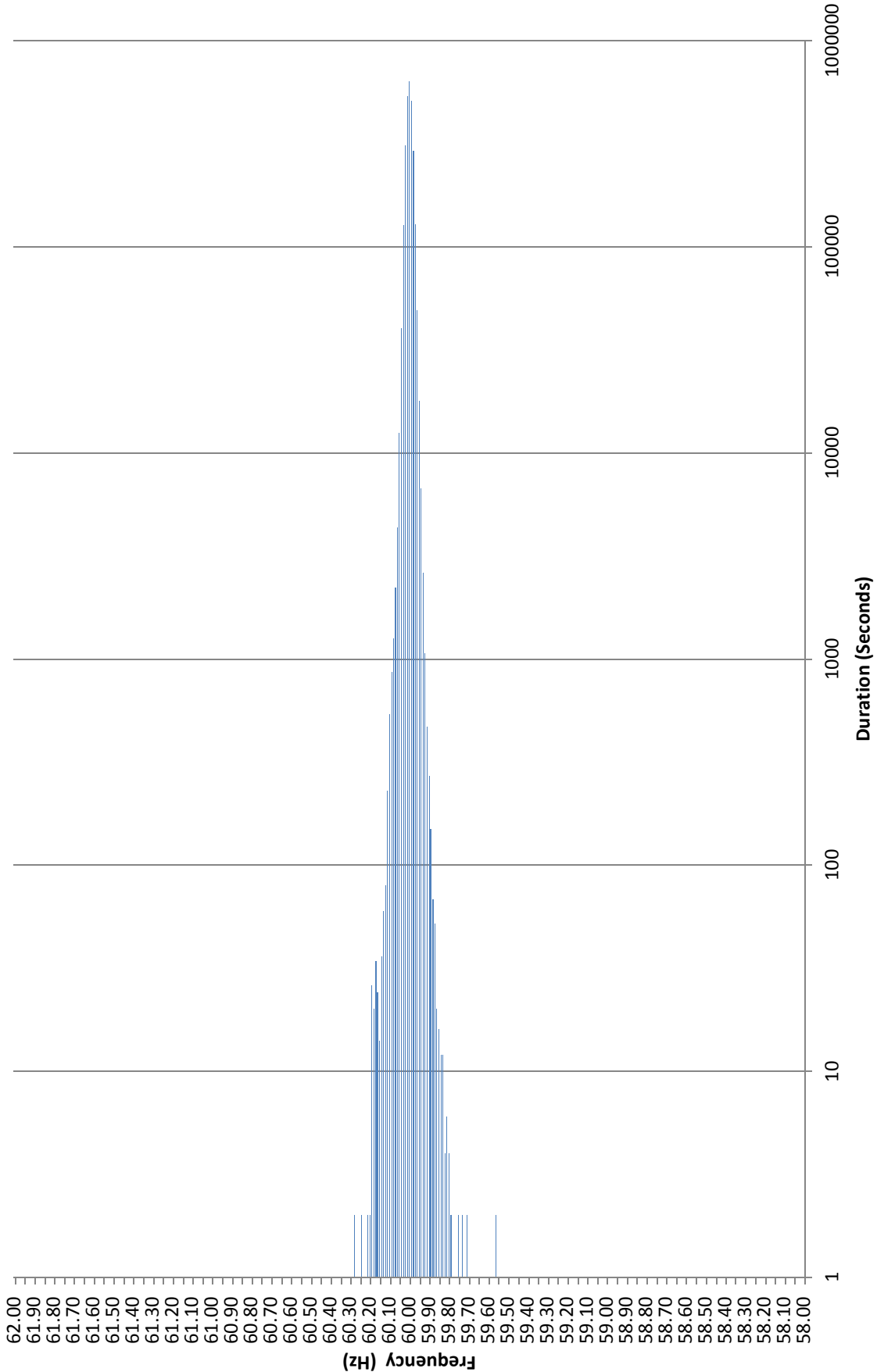
3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

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

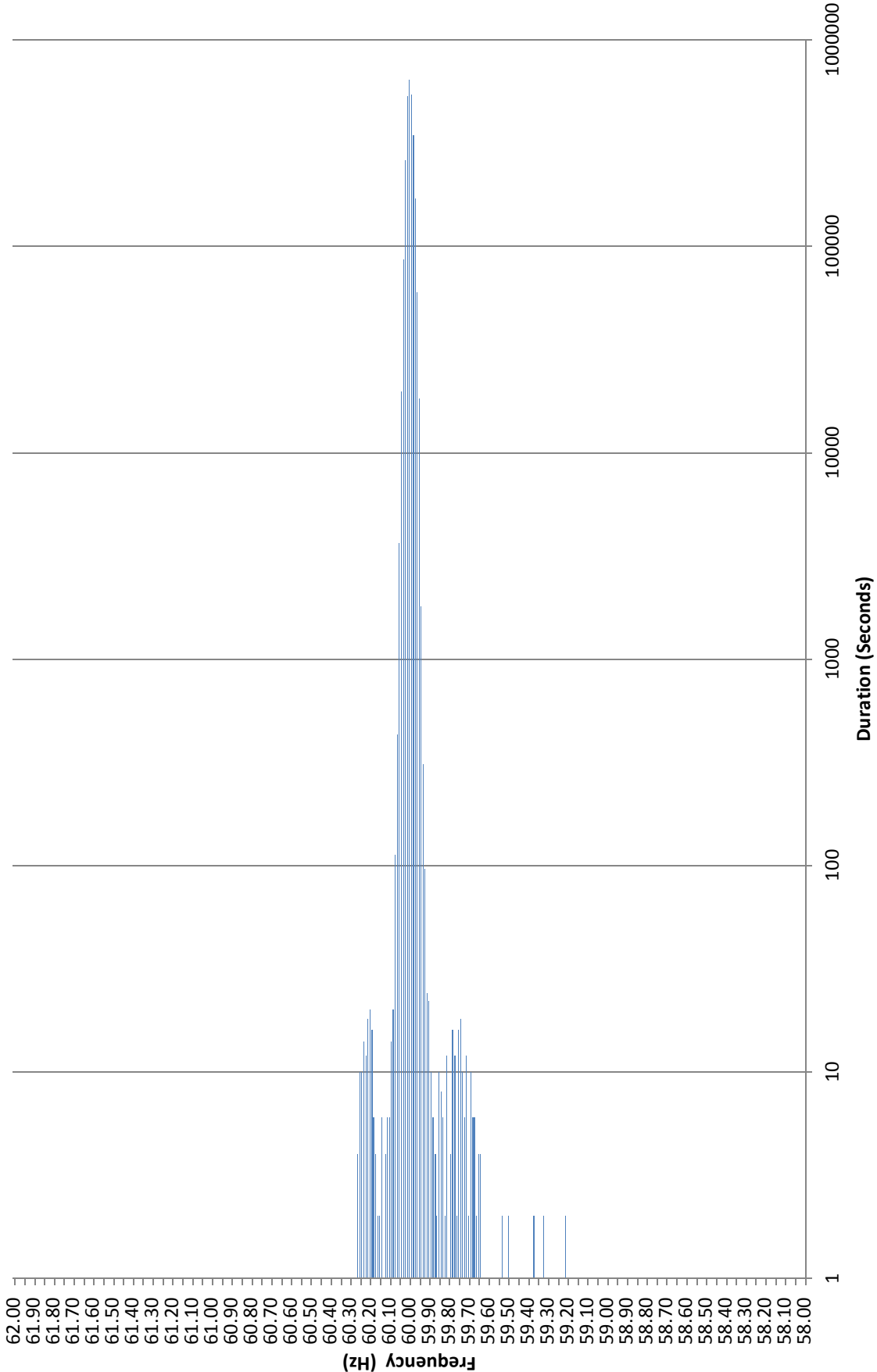
Frequency Distribution Plot - Hawaiian Electric July 2018



Frequency Distribution Plot - Maui Electric July 2018



Frequency Distribution Plot - Hawai'i Electric Light July 2018



Hawaiian Electric Frequency Excursion Statistics July 2018		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	512	301
Maximum Duration (sec)	642	54
Maximum Deviation (Hz)	59.162	60.104
Total Duration of Excursions (sec)	6562	2448

Maui Electric Frequency Excursion Statistics July 2018		
	<59.95 Hz	>60.05 Hz
Number of Excursions	4225	2493
Maximum Duration (sec)	196	312
Maximum Deviation (Hz)	59.562	60.279
Total Duration of Excursions (sec)	18136	14198

Hawai'i Electric Light Frequency Excursion Statistics July 2018		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2416	485
Maximum Duration (sec)	126	148
Maximum Deviation (Hz)	59.208	60.265
Total Duration of Excursions (sec)	9990	1864

HAWAIIAN ELECTRIC COMPANY, INC.
CONTINGENCY RESERVE ACTIVATION EVENTS
July 2018

Event #	Date & Time	Frequency (Hz)			Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	7/7/18 21:12	60.00	59.16	NA	-80	0:49	Kahe 5 tripped offline while generating ~114 MW.

HAWAIIAN ELECTRIC COMPANY, INC.
 DEMAND RESPONSE EVENTS
 July 2018

Event #	Date & Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	7/7/18 21:12	60.00	59.16	59.70	NA	0:09	Kahe 5 tripped offline while generating ~114 MW. RDLC/CIDLC activated.

Hawaiian Electric Curtailment Report July 2018

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
07/11/18 05:44	0.0	13.00	07/11/18 07:04	0	*	KWF	System Constraints
07/11/18 05:47	0.0	0.00	07/11/18 07:00	0	*	Makai	System Constraints
07/11/18 05:47	0.0	0.00	07/11/18 16:54	0	*	Mauka	System Constraints
07/11/18 05:58	0.0	0.00	07/11/18 15:27	0	*	KLS2	System Constraints
07/11/18 05:59	0.0	0.00	07/11/18 07:40	0	*	KREP	System Constraints
07/11/18 13:51	0.0	1.90	07/11/18 15:26	0	*	KREP	System Constraints
07/11/18 16:00	0.0	19.00	07/11/18 16:56	0	*	KWF	System Constraints
07/11/18 16:03	0.0	6.00	07/11/18 16:55	0	*	Makai	System Constraints
07/12/18 10:50	0.0	5.30	07/12/18 13:04	0	*	KWF	System Constraints
07/12/18 10:54	0.0	7.00	07/12/18 13:07	0	*	Makai	System Constraints
07/12/18 10:54	0.0	15.20	07/12/18 13:08	0	*	Mauka	System Constraints
07/13/18 05:46	0.0	6.30	07/13/18 08:44	0	*	KWF	System Constraints
07/13/18 05:52	0.0	0.00	07/13/18 08:49	0	*	Makai	System Constraints
07/13/18 05:54	0.0	4.50	07/13/18 08:50	0	*	Mauka	System Constraints
07/16/18 06:31	0.0	0.10	07/16/18 06:38	0	*	Waianae	System Constraints
07/16/18 13:06	5.0	17.90	07/16/18 16:46	0	*	KWF	Facility Requested
07/16/18 14:16	0.0	0.80	07/16/18 15:52	0	*	Waianae	System Constraints
07/17/18 07:16	0.0	0.50	07/17/18 10:20	0	*	KREP	System Constraints
07/17/18 14:19	0.0	2.10	07/17/18 15:03	0	*	KREP	System Constraints
07/25/18 08:17	0.0	16.00	07/25/18 09:10	0	*	KWF	System Constraints
07/25/18 08:19	0.0	5.00	07/25/18 09:18	0	*	Makai	System Constraints
07/25/18 14:53	0.0	9.00	07/25/18 16:09	0	*	KWF	System Constraints
07/25/18 15:02	0.0	8.10	07/25/18 16:13	0	*	Makai	System Constraints
07/27/18 06:51	0.0	15.60	07/27/18 08:03	0	*	KWF	System Constraints
07/27/18 06:55	0.0	3.50	07/27/18 14:56	0	*	Mauka	System Constraints
07/27/18 06:55	0.0	0.40	07/27/18 08:13	0	*	Makai	System Constraints
07/27/18 14:13	0.0	19.50	07/27/18 15:02	0	*	KWF	System Constraints
07/27/18 14:18	0.0	11.60	07/27/18 14:55	0	*	Makai	System Constraints
07/28/18 06:41	0.0	0.30	07/28/18 08:20	0	*	KLS2	System Constraints
07/28/18 15:15	0.0	3.00	07/28/18 16:20	0	*	KLS2	System Constraints
07/29/18 06:29	0.0	0.00	07/29/18 08:06	0	*	KLS2	System Constraints
07/29/18 15:10	0.0	4.50	07/29/18 16:45	0	*	KLS2	System Constraints

Aloha1 = Aloha Solar 1 PV Farm
KLS2 = Kalaeloa Solar 2 PV Farm
KREP = Kalaeloa Renewable Energy Park
KWF = Kahuku Wind Farm
Makai = Kawaiiloa Makai Wind Farm
Mauka = Kawaiiloa 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 Kawaiiloa Wind Farm, and Hawaiian Electric 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
7/1/2018 7:23	0:01	SMRR	0.001	0.587	Oversupply
7/1/2018 7:29	0:01	SMRR	0.001	0.850	Oversupply
7/1/2018 7:29	0:01	SMRR	0.000	0.857	Oversupply
7/1/2018 7:33	0:01	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 7:33	0:01	SMRR	0.001	0.056	Oversupply
7/1/2018 8:18	0:01	SMRR	0.002	0.744	Oversupply
7/1/2018 8:18	0:01	SMRR	0.002	1.222	Oversupply
7/1/2018 8:28	0:01	SMRR	0.002	0.346	Oversupply
7/1/2018 8:29	0:01	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 8:30	0:01	SMRR	0.004	0.882	Oversupply
7/1/2018 8:34	0:03	SMRR	0.017	1.052	Oversupply
7/1/2018 8:35	0:02	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 8:36	0:01	KWPPII	0.006	16.730	Oversupply
7/1/2018 8:55	1:19	SMRR	2.554	0.018	Oversupply
7/1/2018 8:56	1:19	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 8:56	1:19	KWPPII	10.510	18.895	Oversupply
7/1/2018 10:14	0:01	SMRR	0.028	0.604	Oversupply
7/1/2018 10:15	0:01	SMRR	0.029	0.549	Oversupply
7/1/2018 10:16	2:28	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 10:16	2:27	SMRR	5.798	0.000	Oversupply
7/1/2018 10:17	2:28	KWPPII	18.256	18.945	Oversupply
7/1/2018 11:15	0:01	AWE	0.017	20.200	Oversupply
7/1/2018 11:38	0:02	AWE	0.008	20.300	Oversupply
7/1/2018 12:43	0:01	SMRR	0.028	0.260	Oversupply
7/1/2018 12:44	0:01	SMRR	0.028	0.216	Oversupply
7/1/2018 12:45	0:01	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 12:45	0:01	SMRR	0.021	0.009	Oversupply
7/1/2018 12:46	0:01	SMRR	0.021	0.139	Oversupply
7/1/2018 12:46	0:01	SMRR	0.020	0.905	Oversupply
7/1/2018 12:48	0:01	SMRR	0.021	1.443	Oversupply
7/1/2018 12:49	0:01	SMRR	0.021	0.410	Oversupply
7/1/2018 12:49	0:01	SMRR	0.021	1.162	Oversupply
7/1/2018 12:50	0:05	SMRR	0.127	0.012	Oversupply
7/1/2018 12:51	0:04	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 12:51	0:04	KWPPII	0.046	17.972	Oversupply
7/1/2018 12:55	0:01	SMRR	0.021	0.138	Oversupply
7/1/2018 12:56	0:08	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 12:56	1:18	KWPPII	9.518	18.841	Oversupply
7/1/2018 12:56	1:17	SMRR	3.136	-0.005	Oversupply
7/1/2018 13:05	1:09	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 14:13	0:01	SMRR	0.032	0.012	Oversupply
7/1/2018 14:17	0:01	SMRR	0.008	1.593	Oversupply
7/1/2018 14:17	0:02	SMRR	0.024	1.138	Oversupply
7/1/2018 14:18	0:01	BS250	Data is not available	Data is not available	Oversupply
7/1/2018 14:19	0:01	KWPPII	0.018	16.679	Oversupply
7/1/2018 14:20	0:01	SMRR	0.008	0.821	Oversupply
7/1/2018 14:32	0:01	SMRR	0.005	1.868	Oversupply
7/1/2018 14:33	0:01	SMRR	0.005	2.001	Oversupply
7/1/2018 14:33	0:01	SMRR	0.005	1.026	Oversupply
7/1/2018 14:34	0:01	SMRR	0.005	0.058	Oversupply
7/1/2018 14:35	0:01	SMRR	0.005	0.508	Oversupply
7/2/2018 0:38	0:01	AWE	0.002	0.100	Oversupply
7/2/2018 2:56	0:02	KWPPII	0.020	13.755	Oversupply
7/2/2018 2:59	0:01	KWPPII	0.002	14.794	Oversupply
7/2/2018 3:02	0:01	KWPPII	0.007	12.750	Oversupply
7/2/2018 3:04	0:01	KWPPII	0.004	13.075	Oversupply
7/2/2018 3:06	0:02	KWPPII	0.015	14.894	Oversupply
7/2/2018 7:51	0:01	SMRR	0.001	0.269	Oversupply
7/2/2018 7:52	0:01	SMRR	0.001	0.851	Oversupply
7/2/2018 7:58	0:01	SMRR	0.001	0.971	Oversupply
7/2/2018 7:59	0:01	SMRR	0.003	0.970	Oversupply
7/2/2018 8:00	0:01	SMRR	0.006	0.487	Oversupply
7/2/2018 8:01	0:01	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 8:01	0:01	KWPPII	0.000	17.371	Oversupply
7/2/2018 8:01	0:01	SMRR	0.006	0.008	Oversupply
7/2/2018 8:03	0:01	SMRR	0.006	0.342	Oversupply
7/2/2018 8:04	0:01	SMRR	0.006	0.186	Oversupply
7/2/2018 8:05	0:01	SMRR	0.006	0.702	Oversupply
7/2/2018 8:05	0:01	SMRR	0.006	0.276	Oversupply
7/2/2018 8:06	0:01	SMRR	0.006	0.131	Oversupply
7/2/2018 8:07	0:02	KWPPII	0.002	18.146	Oversupply
7/2/2018 8:07	0:01	SMRR	0.006	0.126	Oversupply
7/2/2018 8:12	0:01	SMRR	0.006	0.631	Oversupply
7/2/2018 8:12	0:01	SMRR	0.006	0.041	Oversupply
7/2/2018 8:13	0:01	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 8:13	0:01	KWPPII	0.014	16.592	Oversupply
7/2/2018 8:13	0:01	SMRR	0.006	0.425	Oversupply
7/2/2018 8:14	0:01	SMRR	0.006	0.862	Oversupply
7/2/2018 8:15	0:01	SMRR	0.006	0.689	Oversupply
7/2/2018 8:15	0:01	SMRR	0.006	0.957	Oversupply
7/2/2018 8:16	0:01	SMRR	0.006	0.390	Oversupply
7/2/2018 8:17	0:01	KWPPII	0.000	17.918	Oversupply
7/2/2018 8:17	0:01	SMRR	0.006	0.613	Oversupply
7/2/2018 8:18	0:01	SMRR	0.006	0.784	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/2/2018 8:19	0:01	SMRR	0.006	1.090	Oversupply
7/2/2018 8:25	0:01	SMRR	0.006	0.997	Oversupply
7/2/2018 8:26	0:28	SMRR	0.595	0.022	Oversupply
7/2/2018 8:27	0:27	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 8:27	0:28	KWPPII	1.187	18.373	Oversupply
7/2/2018 8:54	0:01	SMRR	0.018	-0.002	Oversupply
7/2/2018 10:34	0:01	SMRR	0.013	1.348	Oversupply
7/2/2018 10:35	0:02	SMRR	0.024	0.061	Oversupply
7/2/2018 10:36	0:02	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 10:36	0:02	KWPPII	0.048	13.978	Oversupply
7/2/2018 10:37	0:01	SMRR	0.012	-0.004	Oversupply
7/2/2018 10:38	0:01	SMRR	0.012	-0.004	Oversupply
7/2/2018 10:38	0:01	SMRR	0.012	-0.003	Oversupply
7/2/2018 10:39	0:01	SMRR	0.012	-0.003	Oversupply
7/2/2018 10:40	0:01	SMRR	0.012	-0.003	Oversupply
7/2/2018 10:41	0:01	SMRR	0.012	-0.003	Oversupply
7/2/2018 10:41	0:01	SMRR	0.012	0.105	Oversupply
7/2/2018 10:42	0:01	KWPPII	0.003	14.677	Oversupply
7/2/2018 10:42	0:05	SMRR	0.081	0.372	Oversupply
7/2/2018 10:43	0:05	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 10:44	0:04	KWPPII	0.142	15.736	Oversupply
7/2/2018 10:47	0:01	SMRR	0.018	-0.003	Oversupply
7/2/2018 10:48	0:01	SMRR	0.018	-0.003	Oversupply
7/2/2018 10:48	0:02	SMRR	0.035	-0.003	Oversupply
7/2/2018 10:49	0:02	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 10:49	0:01	KWPPII	0.011	12.922	Oversupply
7/2/2018 10:50	0:01	SMRR	0.018	0.205	Oversupply
7/2/2018 10:51	0:01	KWPPII	0.006	13.037	Oversupply
7/2/2018 10:51	0:01	SMRR	0.018	0.541	Oversupply
7/2/2018 10:51	0:01	SMRR	0.018	0.903	Oversupply
7/2/2018 10:52	0:01	SMRR	0.017	1.524	Oversupply
7/2/2018 10:57	0:01	SMRR	0.018	1.632	Oversupply
7/2/2018 10:57	0:01	SMRR	0.018	0.829	Oversupply
7/2/2018 10:58	0:01	SMRR	0.018	1.409	Oversupply
7/2/2018 10:59	0:18	SMRR	0.567	0.594	Oversupply
7/2/2018 11:00	0:08	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 11:01	0:17	KWPPII	0.377	16.557	Oversupply
7/2/2018 11:09	0:08	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 11:17	0:01	SMRR	0.028	-0.003	Oversupply
7/2/2018 11:19	0:01	SMRR	0.029	-0.003	Oversupply
7/2/2018 11:20	0:01	SMRR	0.028	0.215	Oversupply
7/2/2018 11:20	0:02	SMRR	0.087	0.682	Oversupply
7/2/2018 11:21	0:02	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 11:22	0:01	KWPPII	0.022	15.645	Oversupply
7/2/2018 11:23	0:01	SMRR	0.028	-0.004	Oversupply
7/2/2018 11:23	0:01	SMRR	0.029	-0.004	Oversupply
7/2/2018 11:24	0:01	SMRR	0.029	-0.004	Oversupply
7/2/2018 11:25	0:01	SMRR	0.029	-0.003	Oversupply
7/2/2018 11:26	0:01	SMRR	0.029	-0.003	Oversupply
7/2/2018 11:26	0:01	SMRR	0.029	-0.003	Oversupply
7/2/2018 11:42	0:01	SMRR	-0.005	2.269	Oversupply
7/2/2018 11:43	0:01	SMRR	-0.005	1.808	Oversupply
7/2/2018 11:44	0:01	SMRR	0.001	0.793	Oversupply
7/2/2018 11:45	0:01	SMRR	0.013	0.594	Oversupply
7/2/2018 11:50	0:01	SMRR	0.012	1.853	Oversupply
7/2/2018 11:51	0:01	SMRR	0.013	1.224	Oversupply
7/2/2018 11:53	0:01	SMRR	0.012	1.869	Oversupply
7/2/2018 11:54	0:26	SMRR	0.935	0.783	Oversupply
7/2/2018 11:55	0:26	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 11:55	0:26	KWPPII	3.270	18.691	Oversupply
7/2/2018 12:20	0:01	SMRR	0.027	-0.003	Oversupply
7/2/2018 12:21	0:01	SMRR	0.026	-0.004	Oversupply
7/2/2018 12:21	0:01	SMRR	0.027	-0.004	Oversupply
7/2/2018 12:22	0:01	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 12:22	0:02	KWPPII	0.010	14.886	Oversupply
7/2/2018 12:22	0:01	SMRR	0.027	-0.004	Oversupply
7/2/2018 12:23	0:01	SMRR	0.027	-0.004	Oversupply
7/2/2018 12:34	0:01	SMRR	0.005	1.178	Oversupply
7/2/2018 12:34	0:01	SMRR	0.005	1.212	Oversupply
7/2/2018 12:35	0:01	SMRR	0.005	0.190	Oversupply
7/2/2018 12:37	0:01	SMRR	0.005	1.205	Oversupply
7/2/2018 12:37	0:03	SMRR	0.022	0.243	Oversupply
7/2/2018 12:38	0:03	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 12:38	0:03	KWPPII	0.054	15.089	Oversupply
7/2/2018 12:45	0:38	SMRR	0.367	0.627	Oversupply
7/2/2018 12:46	0:38	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 12:46	0:39	KWPPII	2.859	17.969	Oversupply
7/2/2018 13:23	0:01	SMRR	0.006	0.038	Oversupply
7/2/2018 13:23	0:01	SMRR	0.006	0.015	Oversupply
7/2/2018 16:37	0:01	SMRR	0.001	1.529	Oversupply
7/2/2018 16:38	0:01	SMRR	0.001	0.778	Oversupply
7/2/2018 16:39	0:01	SMRR	0.001	0.787	Oversupply
7/2/2018 16:40	0:01	SMRR	0.001	0.223	Oversupply
7/2/2018 16:53	0:04	SMRR	0.032	0.781	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/2/2018 16:54	0:04	BS250	Data is not available	Data is not available	Oversupply
7/2/2018 16:55	0:02	KWPPII	0.019	20.705	System constraint
7/2/2018 16:56	0:02	AWE	0.062	14.000	System constraint
7/2/2018 16:57	0:01	SMRR		0.006	-0.003 Oversupply
7/2/2018 16:57	0:01	SMRR		0.006	-0.003 Oversupply
7/2/2018 16:58	0:01	SMRR		0.006	-0.003 Oversupply
7/2/2018 23:33	0:01	KWPPII	0.007	20.674	Oversupply
7/2/2018 23:46	1:58	KWPPII	9.615	20.708	Oversupply
7/3/2018 2:03	3:17	KWPPII	33.469	20.683	Oversupply
7/3/2018 5:21	0:13	KWPPII	0.559	20.414	Oversupply
7/3/2018 5:35	0:01	KWPPII	0.002	20.167	Oversupply
7/3/2018 5:39	0:03	KWPPII	0.017	20.557	Oversupply
7/3/2018 5:43	0:03	KWPPII	0.021	20.595	Oversupply
7/3/2018 5:48	0:12	KWPPII	0.289	20.687	Oversupply
7/3/2018 5:49	0:11	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 6:07	0:05	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 6:08	0:05	KWPPII	0.091	20.634	Oversupply
7/3/2018 6:16	0:02	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 6:16	0:02	KWPPII	0.003	20.516	Oversupply
7/3/2018 6:33	0:06	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 6:33	0:05	SMRR		0.015	0.001 Oversupply
7/3/2018 6:34	0:04	KWPPII	0.057	20.586	Oversupply
7/3/2018 6:39	0:10	KWPPII	0.208	20.449	Oversupply
7/3/2018 6:39	0:24	SMRR		0.094	-0.001 Oversupply
7/3/2018 6:40	0:23	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 6:50	0:14	KWPPII	0.346	20.615	Oversupply
7/3/2018 7:05	5:26	SMRR		10.168	-0.003 Oversupply
7/3/2018 7:06	6:09	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 7:07	6:08	KWPPII	79.033	20.708	Oversupply
7/3/2018 10:51	0:03	AWE	0.054	20.200	Oversupply
7/3/2018 10:58	0:02	AWE	0.019	20.500	Oversupply
7/3/2018 11:01	0:03	AWE	0.015	20.500	Oversupply
7/3/2018 11:07	0:01	AWE	0.014	20.700	Oversupply
7/3/2018 11:15	0:01	AWE	0.005	20.000	Oversupply
7/3/2018 11:20	0:02	AWE	0.017	19.600	Oversupply
7/3/2018 11:23	0:50	AWE	2.045	20.800	Oversupply
7/3/2018 12:16	0:01	AWE	0.025	20.500	Oversupply
7/3/2018 12:19	0:05	AWE	0.062	20.200	Oversupply
7/3/2018 12:31	0:01	SMRR		0.036	0.021 Oversupply
7/3/2018 12:32	0:42	SMRR		1.966	0.006 Oversupply
7/3/2018 13:14	0:01	SMRR		0.031	0.472 Oversupply
7/3/2018 13:15	0:01	SMRR		0.024	1.778 Oversupply
7/3/2018 13:17	0:01	SMRR		0.024	1.955 Oversupply
7/3/2018 13:18	0:01	SMRR		0.024	1.084 Oversupply
7/3/2018 13:19	0:01	SMRR		0.024	0.968 Oversupply
7/3/2018 13:19	0:01	SMRR		0.024	0.528 Oversupply
7/3/2018 13:20	0:01	SMRR		0.024	1.002 Oversupply
7/3/2018 13:21	0:01	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 13:21	0:01	SMRR		0.024	0.032 Oversupply
7/3/2018 13:22	0:01	SMRR		0.024	0.376 Oversupply
7/3/2018 13:22	0:02	SMRR		0.048	0.156 Oversupply
7/3/2018 13:23	0:02	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 13:23	0:02	KWPPII	0.028	20.418	Oversupply
7/3/2018 13:24	0:01	SMRR		0.024	0.169 Oversupply
7/3/2018 13:25	0:01	SMRR		0.024	0.838 Oversupply
7/3/2018 13:26	0:01	SMRR		0.025	1.766 Oversupply
7/3/2018 13:26	0:02	SMRR		0.048	0.904 Oversupply
7/3/2018 13:27	0:01	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 13:28	0:01	KWPPII	0.005	20.610	Oversupply
7/3/2018 13:28	0:01	SMRR		0.024	0.672 Oversupply
7/3/2018 13:35	0:01	SMRR		0.000	0.800 Oversupply
7/3/2018 13:36	0:01	SMRR		0.000	0.757 Oversupply
7/3/2018 13:37	0:02	KWPPII	0.014	20.256	Oversupply
7/3/2018 13:37	0:02	SMRR		0.001	0.081 Oversupply
7/3/2018 13:38	0:01	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 13:39	0:01	SMRR		0.000	0.029 Oversupply
7/3/2018 13:58	0:01	SMRR		0.001	1.724 Oversupply
7/3/2018 14:08	0:01	SMRR		0.004	0.835 Oversupply
7/3/2018 14:08	0:01	SMRR		0.004	0.835 Oversupply
7/3/2018 14:09	0:13	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 14:09	0:15	SMRR		0.128	0.827 Oversupply
7/3/2018 14:10	0:10	KWPPII	0.371	20.668	Oversupply
7/3/2018 14:21	0:03	KWPPII	0.070	20.532	Oversupply
7/3/2018 14:23	0:01	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 14:24	0:01	SMRR		0.008	0.827 Oversupply
7/3/2018 14:25	0:01	SMRR		0.008	0.692 Oversupply
7/3/2018 14:26	0:16	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 14:26	0:01	SMRR		0.009	0.378 Oversupply
7/3/2018 14:27	0:16	KWPPII	0.661	20.303	Oversupply
7/3/2018 14:27	0:15	SMRR		0.200	0.009 Oversupply
7/3/2018 14:43	0:01	SMRR		0.010	0.454 Oversupply
7/3/2018 14:48	0:01	SMRR		0.005	1.289 Oversupply
7/3/2018 14:50	0:01	SMRR		0.005	1.058 Oversupply
7/3/2018 14:50	0:03	SMRR		0.019	0.076 Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/3/2018 14:51	0:03	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 14:51	0:03	KWP/II	0.067	20.590	Oversupply
7/3/2018 14:55	0:01	SMRR	0.005	0.743	Oversupply
7/3/2018 14:56	0:02	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 14:56	0:02	SMRR	0.010	0.010	Oversupply
7/3/2018 14:57	0:01	KWP/II	0.007	20.203	Oversupply
7/3/2018 15:02	0:02	SMRR	0.005	0.306	Oversupply
7/3/2018 15:03	0:01	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 15:03	0:02	KWP/II	0.016	19.878	Oversupply
7/3/2018 15:07	0:01	SMRR	0.002	0.573	Oversupply
7/3/2018 15:09	0:01	SMRR	0.002	0.607	Oversupply
7/3/2018 15:10	0:01	SMRR	0.002	1.602	Oversupply
7/3/2018 15:13	0:01	SMRR	0.002	2.476	Oversupply
7/3/2018 15:32	0:01	SMRR	0.004	0.946	Oversupply
7/3/2018 15:33	0:07	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 15:33	0:07	SMRR	0.032	0.934	Oversupply
7/3/2018 15:34	0:07	KWP/II	0.195	20.580	Oversupply
7/3/2018 15:55	0:02	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 15:55	0:02	SMRR	0.004	0.670	Oversupply
7/3/2018 15:56	0:01	KWP/II	0.026	19.635	Oversupply
7/3/2018 15:58	0:03	BS250	Data is not available	Data is not available	Oversupply
7/3/2018 15:58	0:02	SMRR	0.006	0.175	Oversupply
7/3/2018 15:59	0:02	KWP/II	0.041	20.614	Oversupply
7/3/2018 16:00	0:01	SMRR	0.001	0.050	Oversupply
7/4/2018 0:41	0:12	KWP/II	0.452	20.701	Oversupply
7/4/2018 3:24	2:29	KWP/II	22.191	20.708	Oversupply
7/4/2018 5:49	0:04	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 5:55	0:20	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 5:55	0:21	KWP/II	0.558	20.706	Oversupply
7/4/2018 6:43	3:09	SMRR	3.791	0.128	Oversupply
7/4/2018 6:44	3:08	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 6:45	3:07	KWP/II	16.041	20.689	Oversupply
7/4/2018 9:56	0:01	SMRR	0.022	1.163	Oversupply
7/4/2018 9:57	0:04	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 9:57	0:03	SMRR	0.088	0.122	Oversupply
7/4/2018 9:58	0:03	KWP/II	0.096	15.621	Oversupply
7/4/2018 10:00	0:01	SMRR	0.023	-0.004	Oversupply
7/4/2018 10:01	0:01	SMRR	0.023	-0.003	Oversupply
7/4/2018 10:07	0:01	SMRR	0.023	1.750	Oversupply
7/4/2018 10:08	0:01	SMRR	0.023	1.088	Oversupply
7/4/2018 10:09	0:08	SMRR	0.255	0.226	Oversupply
7/4/2018 10:10	0:08	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 10:10	0:08	KWP/II	0.174	12.302	Oversupply
7/4/2018 10:17	0:01	SMRR	0.025	-0.003	Oversupply
7/4/2018 10:19	0:01	SMRR	0.025	-0.003	Oversupply
7/4/2018 10:20	0:03	SMRR	0.098	-0.003	Oversupply
7/4/2018 10:21	0:02	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 10:21	0:03	KWP/II	0.040	11.021	Oversupply
7/4/2018 10:23	0:01	SMRR	0.025	0.653	Oversupply
7/4/2018 10:24	0:01	SMRR	0.024	0.861	Oversupply
7/4/2018 10:24	0:01	SMRR	0.025	0.000	Oversupply
7/4/2018 10:25	0:02	KWP/II	0.014	10.423	Oversupply
7/4/2018 10:25	0:01	SMRR	0.025	0.359	Oversupply
7/4/2018 10:26	0:01	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 10:26	0:01	SMRR	0.025	0.011	Oversupply
7/4/2018 10:27	0:01	SMRR	0.024	0.962	Oversupply
7/4/2018 10:38	0:01	SMRR	0.002	2.595	Oversupply
7/4/2018 10:39	0:01	SMRR	0.002	1.328	Oversupply
7/4/2018 10:40	0:01	SMRR	0.002	1.023	Oversupply
7/4/2018 10:50	0:01	SMRR	0.010	2.526	Oversupply
7/4/2018 10:50	0:01	SMRR	0.010	1.704	Oversupply
7/4/2018 10:51	0:01	SMRR	0.010	1.426	Oversupply
7/4/2018 10:52	0:01	SMRR	0.010	2.084	Oversupply
7/4/2018 10:53	0:01	SMRR	0.010	2.097	Oversupply
7/4/2018 10:53	0:01	SMRR	0.010	0.961	Oversupply
7/4/2018 10:54	0:01	SMRR	0.010	1.618	Oversupply
7/4/2018 10:55	0:01	SMRR	0.010	1.502	Oversupply
7/4/2018 10:56	0:01	SMRR	0.010	1.063	Oversupply
7/4/2018 10:56	0:01	SMRR	0.010	1.464	Oversupply
7/4/2018 10:57	0:01	SMRR	0.010	1.518	Oversupply
7/4/2018 10:58	0:04	SMRR	0.115	0.512	Oversupply
7/4/2018 10:59	0:05	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 10:59	0:06	KWP/II	0.074	8.472	Oversupply
7/4/2018 11:02	0:02	SMRR	0.098	-0.004	Oversupply
7/4/2018 11:04	0:01	SMRR	0.032	-0.004	Oversupply
7/4/2018 11:05	0:01	SMRR	0.033	0.307	Oversupply
7/4/2018 11:06	0:51	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 11:06	0:50	SMRR	2.271	0.638	Oversupply
7/4/2018 11:07	0:50	KWP/II	4.582	15.182	Oversupply
7/4/2018 11:56	0:01	SMRR	0.035	0.000	Oversupply
7/4/2018 11:57	0:01	SMRR	0.035	0.216	Oversupply
7/4/2018 11:58	0:17	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 11:58	0:14	KWP/II	0.979	13.980	Oversupply
7/4/2018 11:58	0:17	SMRR	0.779	0.003	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/4/2018 12:13	0:02	KWP/II	0.034	10.449	Oversupply
7/4/2018 12:14	0:01	SMRR		0.028	Oversupply
7/4/2018 12:20	0:01	SMRR		0.027	2.721 Oversupply
7/4/2018 12:21	0:01	SMRR		0.026	1.635 Oversupply
7/4/2018 12:22	0:01	SMRR		0.027	0.794 Oversupply
7/4/2018 12:23	0:01	SMRR		0.027	0.409 Oversupply
7/4/2018 12:23	0:01	SMRR		0.027	0.159 Oversupply
7/4/2018 12:24	0:02	KWP/II	0.004	10.164	Oversupply
7/4/2018 12:24	0:01	SMRR		0.026	0.150 Oversupply
7/4/2018 12:25	0:08	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 12:25	0:01	SMRR		0.027	0.026 Oversupply
7/4/2018 12:26	0:07	SMRR		0.215	0.014 Oversupply
7/4/2018 12:27	0:06	KWP/II	0.132	9.160	Oversupply
7/4/2018 12:33	0:01	SMRR		0.021	0.308 Oversupply
7/4/2018 12:33	0:01	SMRR		0.021	1.409 Oversupply
7/4/2018 12:37	0:01	SMRR		0.021	2.110 Oversupply
7/4/2018 12:38	0:01	SMRR		0.021	1.244 Oversupply
7/4/2018 12:39	0:01	SMRR		0.021	2.201 Oversupply
7/4/2018 12:40	0:01	SMRR		0.021	2.617 Oversupply
7/4/2018 12:40	0:01	SMRR		0.021	2.201 Oversupply
7/4/2018 12:41	0:01	SMRR		0.021	0.910 Oversupply
7/4/2018 12:42	0:04	BS250	Data is not available	Data is not available	Oversupply
7/4/2018 12:42	0:03	SMRR		0.085	0.244 Oversupply
7/4/2018 12:43	0:03	KWP/II	0.048	6.866	Oversupply
7/4/2018 12:45	0:01	SMRR		0.024	-0.004 Oversupply
7/4/2018 12:46	0:01	SMRR		0.024	-0.004 Oversupply
7/4/2018 12:46	0:01	SMRR		0.023	-0.004 Oversupply
7/4/2018 12:47	0:01	SMRR		0.024	-0.004 Oversupply
7/4/2018 12:52	0:01	SMRR		0.024	2.881 Oversupply
7/4/2018 12:53	0:01	SMRR		0.024	1.912 Oversupply
7/4/2018 12:54	0:01	SMRR		0.024	0.869 Oversupply
7/4/2018 12:55	0:01	SMRR		0.024	0.598 Oversupply
7/4/2018 12:56	0:01	SMRR		0.023	0.512 Oversupply
7/4/2018 12:56	0:01	SMRR		0.024	1.789 Oversupply
7/4/2018 12:57	0:01	SMRR		0.023	1.978 Oversupply
7/4/2018 12:58	0:01	SMRR		0.024	1.085 Oversupply
7/4/2018 12:59	0:01	SMRR		0.024	1.827 Oversupply
7/4/2018 12:59	0:01	SMRR		0.005	1.531 Oversupply
7/4/2018 13:00	0:01	SMRR		0.001	0.758 Oversupply
7/4/2018 13:01	0:01	SMRR		0.001	1.734 Oversupply
7/4/2018 18:59	0:11	SMRR		0.029	0.029 Oversupply
7/5/2018 0:10	0:05	KWP/II	0.168	13.617	Oversupply
7/5/2018 1:20	0:05	KWP/II	0.116	17.627	Oversupply
7/5/2018 1:47	0:03	KWP/II	0.038	12.378	Oversupply
7/5/2018 1:52	0:26	KWP/II	1.160	13.933	Oversupply
7/5/2018 2:21	0:48	KWP/II	5.044	18.170	Oversupply
7/5/2018 3:19	0:12	KWP/II	0.637	18.841	Oversupply
7/5/2018 3:41	1:51	KWP/II	11.270	20.005	Oversupply
7/5/2018 5:37	0:02	KWP/II	0.029	18.608	Oversupply
7/5/2018 5:41	1:24	KWP/II	5.869	20.706	System constraint
7/5/2018 5:49	1:15	BS250	Data is not available	Data is not available	System constraint
7/5/2018 5:49	1:15	SMRR		0.193	0.000 Oversupply
7/5/2018 7:22	0:01	SMRR		0.005	0.006 Oversupply
7/5/2018 7:23	2:25	SMRR		0.000	-0.004 System Constraint
7/5/2018 7:24	2:25	BS250	Data is not available	Data is not available	System constraint
7/5/2018 7:25	2:24	KWP/II	36.471	20.708	System constraint
7/5/2018 8:39	0:01	AWE	0.003	18.600	System constraint
7/5/2018 8:41	0:01	AWE	0.001	18.200	System constraint
7/5/2018 8:43	0:03	AWE	0.092	19.200	System constraint
7/5/2018 8:47	0:13	AWE	0.218	20.300	System constraint
7/5/2018 9:01	0:06	AWE	0.055	20.100	System constraint
7/5/2018 9:08	0:03	AWE	0.027	19.100	System constraint
7/5/2018 9:12	0:01	AWE	0.008	18.600	System constraint
7/5/2018 9:15	0:26	AWE	1.186	19.800	System constraint
7/5/2018 9:49	0:51	SMRR		0.000	0.413 System Constraint
7/5/2018 9:50	0:51	BS250	Data is not available	Data is not available	System constraint
7/5/2018 9:50	0:51	KWP/II	13.613	20.678	System constraint
7/5/2018 10:25	0:09	AWE	0.117	19.400	System constraint
7/5/2018 10:42	2:37	SMRR		0.000	1.142 System Constraint
7/5/2018 10:43	2:36	BS250	Data is not available	Data is not available	System constraint
7/5/2018 10:43	2:36	KWP/II	31.546	20.680	System constraint
7/5/2018 13:21	0:01	SMRR		0.000	1.869 System Constraint
7/5/2018 13:22	0:01	SMRR		0.000	2.095 System Constraint
7/5/2018 13:23	0:01	SMRR		0.000	1.796 System Constraint
7/5/2018 13:23	0:02	SMRR		0.000	1.478 System Constraint
7/5/2018 13:24	0:02	KWP/II	0.004	20.311	System constraint
7/5/2018 13:25	0:01	BS250	Data is not available	Data is not available	System constraint
7/5/2018 13:25	0:01	SMRR		0.000	0.033 System Constraint
7/5/2018 13:26	0:01	SMRR		0.000	0.387 System Constraint
7/5/2018 13:26	0:01	SMRR		0.000	0.021 System Constraint
7/5/2018 13:27	1:15	KWP/II	5.798	20.311	System constraint
7/5/2018 13:27	0:01	SMRR		0.000	0.213 System Constraint
7/5/2018 13:28	1:14	BS250	Data is not available	Data is not available	System constraint
7/5/2018 13:28	1:13	SMRR		0.000	0.011 System Constraint



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/5/2018 14:41	0:01	SMRR	0.000	0.313	System Constraint
7/5/2018 14:46	0:01	SMRR	0.000	1.927	System Constraint
7/5/2018 14:47	0:01	SMRR	0.000	1.956	System Constraint
7/5/2018 14:48	0:01	BS250	Data is not available	Data is not available	System constraint
7/5/2018 14:48	0:01	SMRR	0.000	1.280	System Constraint
7/5/2018 16:50	0:01	SMRR	0.000	0.452	System Constraint
7/5/2018 16:53	0:01	SMRR	0.000	1.147	System Constraint
7/5/2018 16:54	0:01	SMRR	0.000	1.212	System Constraint
7/5/2018 16:55	0:01	BS250	Data is not available	Data is not available	System constraint
7/5/2018 16:55	0:01	SMRR	0.000	0.377	System Constraint
7/5/2018 17:03	0:01	SMRR	0.000	1.174	System Constraint
7/5/2018 17:08	0:01	BS250	Data is not available	Data is not available	System constraint
7/5/2018 17:08	0:01	SMRR	0.000	0.174	System Constraint
7/6/2018 1:31	0:03	KWPPII	0.023	20.708	Oversupply
7/6/2018 3:44	0:44	KWPPII	3.262	20.708	Oversupply
7/6/2018 7:59	0:01	SMRR	0.000	0.997	System Constraint
7/6/2018 8:01	0:02	AWE	0.036	13.600	System constraint
7/6/2018 8:05	4:26	BS250	Data is not available	Data is not available	System constraint
7/6/2018 8:05	4:26	SMRR	0.000	0.094	System Constraint
7/6/2018 8:07	0:18	KWPPII	2.625	20.708	System constraint
7/6/2018 8:26	4:06	KWPPII	73.079	20.708	System constraint
7/6/2018 10:05	2:07	AWE	8.490	20.300	System constraint
7/6/2018 12:14	0:06	AWE	0.036	20.000	System constraint
7/6/2018 12:21	0:07	AWE	0.059	20.100	System constraint
7/6/2018 12:33	1:22	BS250	Data is not available	Data is not available	System constraint
7/6/2018 12:33	1:32	SMRR	0.000	1.531	System Constraint
7/6/2018 12:34	1:32	KWPPII	13.013	20.708	System constraint
7/6/2018 13:56	0:09	BS250	Data is not available	Data is not available	System constraint
7/6/2018 14:22	0:01	SMRR	0.000	2.697	System Constraint
7/6/2018 14:23	0:02	SMRR	0.000	1.402	System Constraint
7/6/2018 14:24	0:01	BS250	Data is not available	Data is not available	System constraint
7/6/2018 14:24	0:01	KWPPII	0.003	20.655	System constraint
7/6/2018 14:25	0:01	SMRR	0.000	0.478	System Constraint
7/6/2018 14:25	0:01	SMRR	0.000	0.832	System Constraint
7/6/2018 14:26	0:02	BS250	Data is not available	Data is not available	System constraint
7/6/2018 14:26	0:02	SMRR	0.000	0.023	System Constraint
7/6/2018 14:27	0:01	KWPPII	0.009	20.562	System constraint
7/6/2018 14:28	0:01	SMRR	0.000	0.423	System Constraint
7/6/2018 14:51	0:01	SMRR	0.000	2.444	System Constraint
7/6/2018 14:52	0:01	BS250	Data is not available	Data is not available	System constraint
7/6/2018 14:52	0:01	SMRR	0.000	1.553	System Constraint
7/6/2018 14:53	0:01	SMRR	0.000	1.732	System Constraint
7/6/2018 22:14	0:22	KWPPII	1.119	20.708	Oversupply
7/6/2018 23:16	0:05	KWPPII	0.170	20.708	Oversupply
7/6/2018 23:24	0:10	KWPPII	0.139	20.708	Oversupply
7/7/2018 0:48	0:15	KWPPII	0.315	20.708	Oversupply
7/7/2018 2:49	1:41	KWPPII	17.893	20.708	Oversupply
7/7/2018 3:43	0:03	AWE	0.006	18.500	Oversupply
7/7/2018 8:22	0:01	SMRR	0.004	0.792	Oversupply
7/7/2018 8:25	0:01	SMRR	0.004	0.962	Oversupply
7/7/2018 8:25	0:18	SMRR	0.200	-0.003	Oversupply
7/7/2018 8:26	0:18	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 8:26	0:19	KWPPII	0.821	20.704	Oversupply
7/7/2018 8:43	0:01	SMRR	0.010	0.128	Oversupply
7/7/2018 8:44	0:01	SMRR	0.010	0.213	Oversupply
7/7/2018 8:52	0:01	SMRR	0.004	1.169	Oversupply
7/7/2018 8:53	0:01	SMRR	0.004	0.828	Oversupply
7/7/2018 8:54	0:01	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 8:54	0:01	SMRR	0.004	0.813	Oversupply
7/7/2018 8:54	0:01	SMRR	0.004	0.051	Oversupply
7/7/2018 8:55	0:01	SMRR	0.004	0.295	Oversupply
7/7/2018 8:56	0:01	SMRR	0.004	0.611	Oversupply
7/7/2018 8:57	0:01	SMRR	0.004	0.509	Oversupply
7/7/2018 8:57	0:01	SMRR	0.004	0.285	Oversupply
7/7/2018 9:31	0:01	SMRR	0.012	1.081	Oversupply
7/7/2018 9:32	0:04	SMRR	0.059	0.532	Oversupply
7/7/2018 9:33	0:03	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 9:34	0:02	KWPPII	0.011	20.708	Oversupply
7/7/2018 9:36	0:01	SMRR	0.012	0.085	Oversupply
7/7/2018 9:37	0:01	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 9:37	0:02	SMRR	0.023	0.016	Oversupply
7/7/2018 9:38	0:02	KWPPII	0.004	20.707	Oversupply
7/7/2018 9:38	0:01	SMRR	0.012	0.047	Oversupply
7/7/2018 9:39	0:08	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 9:39	0:01	SMRR	0.012	0.018	Oversupply
7/7/2018 9:40	0:01	SMRR	0.012	0.004	Oversupply
7/7/2018 9:40	0:01	SMRR	0.012	0.070	Oversupply
7/7/2018 9:41	0:05	SMRR	0.076	0.008	Oversupply
7/7/2018 9:43	0:06	KWPPII	0.058	19.208	Oversupply
7/7/2018 9:47	0:01	SMRR	0.009	0.488	Oversupply
7/7/2018 9:53	0:24	SMRR	0.435	1.350	Oversupply
7/7/2018 9:54	0:25	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 9:56	0:22	KWPPII	0.606	20.708	Oversupply
7/7/2018 10:17	0:01	SMRR	0.016	0.108	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/7/2018 10:18	0:01	SMRR	0.015	0.012	Oversupply
7/7/2018 10:19	0:01	SMRR	0.016	0.457	Oversupply
7/7/2018 10:19	0:01	SMRR	0.016	0.513	Oversupply
7/7/2018 10:20	0:01	SMRR	0.016	0.476	Oversupply
7/7/2018 10:21	0:24	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 10:21	0:24	SMRR	0.579	0.022	Oversupply
7/7/2018 10:23	0:22	KWPPII	1.088	20.708	Oversupply
7/7/2018 10:45	0:01	SMRR	0.003	0.475	Oversupply
7/7/2018 11:24	0:01	SMRR	0.005	1.770	Oversupply
7/7/2018 11:25	0:06	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 11:25	0:06	SMRR	0.036	0.552	Oversupply
7/7/2018 11:26	0:06	KWPPII	0.067	20.688	Oversupply
7/7/2018 13:00	0:01	SMRR	0.026	1.483	Oversupply
7/7/2018 13:01	1:56	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 13:01	1:56	SMRR	4.450	0.230	Oversupply
7/7/2018 13:03	1:58	KWPPII	11.343	20.708	Oversupply
7/7/2018 14:58	0:02	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 14:58	0:02	SMRR	0.089	0.026	Oversupply
7/7/2018 15:00	0:01	SMRR	0.011	0.164	Oversupply
7/7/2018 15:02	0:01	SMRR	0.011	1.213	Oversupply
7/7/2018 15:03	0:01	SMRR	0.011	1.465	Oversupply
7/7/2018 15:04	0:01	SMRR	0.011	1.012	Oversupply
7/7/2018 15:06	0:01	SMRR	0.012	1.729	Oversupply
7/7/2018 15:07	0:01	SMRR	0.011	1.034	Oversupply
7/7/2018 15:08	0:01	SMRR	0.011	0.757	Oversupply
7/7/2018 15:12	0:05	SMRR	0.068	0.738	Oversupply
7/7/2018 15:13	0:04	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 15:14	0:02	KWPPII	0.012	20.708	Oversupply
7/7/2018 15:17	0:01	SMRR	0.013	0.278	Oversupply
7/7/2018 15:17	0:01	SMRR	0.013	0.495	Oversupply
7/7/2018 15:18	0:01	SMRR	0.013	0.775	Oversupply
7/7/2018 15:24	0:01	SMRR	0.013	2.252	Oversupply
7/7/2018 15:25	0:01	SMRR	0.013	2.346	Oversupply
7/7/2018 15:27	0:01	SMRR	0.013	2.043	Oversupply
7/7/2018 15:34	0:01	SMRR	0.006	1.696	Oversupply
7/7/2018 15:35	0:02	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 15:35	0:02	SMRR	0.011	1.139	Oversupply
7/7/2018 15:40	0:08	SMRR	0.099	0.299	Oversupply
7/7/2018 15:41	0:07	BS250	Data is not available	Data is not available	Oversupply
7/7/2018 15:43	0:06	KWPPII	0.111	20.708	Oversupply
7/7/2018 22:25	0:35	KWPPII	1.238	20.703	Oversupply
7/7/2018 23:19	0:14	KWPPII	0.713	20.700	Oversupply
7/8/2018 8:08	0:01	SMRR	0.002	1.135	Oversupply
7/8/2018 8:09	0:01	AWE	0.002	12.400	Oversupply
7/8/2018 8:11	0:01	SMRR	0.002	0.766	Oversupply
7/8/2018 8:13	0:02	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 8:13	0:02	SMRR	0.008	0.688	Oversupply
7/8/2018 8:14	0:02	KWPPII	0.020	20.248	Oversupply
7/8/2018 10:22	0:01	SMRR	0.011	2.496	Oversupply
7/8/2018 10:23	0:01	SMRR	0.012	2.333	Oversupply
7/8/2018 10:24	0:26	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 10:24	0:01	SMRR	0.012	1.617	Oversupply
7/8/2018 10:24	0:21	SMRR	0.793	0.440	Oversupply
7/8/2018 10:25	0:21	KWPPII	0.883	20.593	Oversupply
7/8/2018 10:45	0:01	SMRR	0.021	0.124	Oversupply
7/8/2018 10:46	0:04	SMRR	0.105	0.026	Oversupply
7/8/2018 10:47	0:03	KWPPII	0.060	20.174	Oversupply
7/8/2018 10:49	0:01	SMRR	0.021	0.269	Oversupply
7/8/2018 10:50	0:01	SMRR	0.021	0.744	Oversupply
7/8/2018 10:52	0:01	SMRR	0.021	2.525	Oversupply
7/8/2018 10:53	0:01	SMRR	0.021	2.333	Oversupply
7/8/2018 10:53	0:01	SMRR	0.021	1.050	Oversupply
7/8/2018 10:54	0:01	SMRR	0.021	0.901	Oversupply
7/8/2018 10:55	0:01	SMRR	0.021	1.369	Oversupply
7/8/2018 10:56	0:01	SMRR	0.021	2.235	Oversupply
7/8/2018 10:58	0:01	SMRR	0.021	2.144	Oversupply
7/8/2018 10:59	0:01	SMRR	0.021	1.726	Oversupply
7/8/2018 11:00	0:01	SMRR	0.020	2.860	Oversupply
7/8/2018 11:05	0:01	SMRR	0.020	2.162	Oversupply
7/8/2018 11:06	0:08	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 11:06	0:05	SMRR	0.118	0.910	Oversupply
7/8/2018 11:07	0:08	KWPPII	0.117	20.149	Oversupply
7/8/2018 11:11	0:01	SMRR	0.019	0.009	Oversupply
7/8/2018 11:12	0:02	SMRR	0.059	0.019	Oversupply
7/8/2018 11:14	0:01	SMRR	0.019	0.252	Oversupply
7/8/2018 11:15	0:01	SMRR	0.019	0.983	Oversupply
7/8/2018 11:15	0:01	SMRR	0.019	1.642	Oversupply
7/8/2018 11:22	0:01	SMRR	0.019	2.103	Oversupply
7/8/2018 11:22	0:01	SMRR	0.019	1.621	Oversupply
7/8/2018 11:23	0:02	SMRR	0.038	0.586	Oversupply
7/8/2018 11:24	0:02	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 11:24	0:02	KWPPII	0.012	20.145	Oversupply
7/8/2018 11:25	0:01	SMRR	0.019	0.028	Oversupply
7/8/2018 11:25	0:01	SMRR	0.019	0.029	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/8/2018 11:26	0:01	SMRR	0.019	0.165	Oversupply
7/8/2018 11:27	0:01	SMRR	0.019	0.378	Oversupply
7/8/2018 11:28	0:01	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 11:28	0:15	SMRR	0.628	0.293	Oversupply
7/8/2018 11:29	0:14	KWPPII	0.319	20.486	Oversupply
7/8/2018 11:30	0:12	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 11:42	0:01	SMRR	0.035	0.257	Oversupply
7/8/2018 11:43	0:01	SMRR	0.035	1.108	Oversupply
7/8/2018 11:44	0:01	SMRR	0.035	1.259	Oversupply
7/8/2018 11:44	0:01	SMRR	0.014	1.432	Oversupply
7/8/2018 11:45	0:01	SMRR	0.013	1.532	Oversupply
7/8/2018 11:46	0:01	SMRR	0.013	2.126	Oversupply
7/8/2018 11:48	0:01	SMRR	0.013	1.103	Oversupply
7/8/2018 11:48	0:01	SMRR	0.013	0.649	Oversupply
7/8/2018 11:49	0:01	SMRR	0.012	0.343	Oversupply
7/8/2018 11:50	0:01	KWPPII	0.002	19.385	Oversupply
7/8/2018 11:50	0:01	SMRR	0.013	0.562	Oversupply
7/8/2018 11:51	0:01	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 11:51	0:01	SMRR	0.013	0.644	Oversupply
7/8/2018 11:51	0:01	SMRR	0.013	0.844	Oversupply
7/8/2018 11:54	0:01	SMRR	0.013	2.712	Oversupply
7/8/2018 11:54	0:01	SMRR	0.013	2.824	Oversupply
7/8/2018 11:55	0:01	SMRR	0.013	2.281	Oversupply
7/8/2018 12:04	0:01	SMRR	0.008	1.671	Oversupply
7/8/2018 12:07	0:01	SMRR	0.008	1.526	Oversupply
7/8/2018 12:29	0:01	SMRR	0.001	2.900	Oversupply
7/8/2018 13:43	0:01	SMRR	-0.002	2.804	Oversupply
7/8/2018 13:44	0:01	SMRR	-0.002	2.478	Oversupply
7/8/2018 13:45	0:03	SMRR	0.139	1.440	Oversupply
7/8/2018 13:45	0:03	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 13:45	1:10	KWPPII	6.783	19.837	Oversupply
7/8/2018 13:48	0:01	SMRR	0.037	0.014	Oversupply
7/8/2018 13:48	1:06	SMRR	2.869	0.018	Oversupply
7/8/2018 13:49	1:06	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 14:54	0:01	SMRR	0.031	0.045	Oversupply
7/8/2018 14:55	0:01	SMRR	0.032	0.452	Oversupply
7/8/2018 14:58	0:01	SMRR	0.031	1.076	Oversupply
7/8/2018 14:59	0:02	SMRR	0.008	1.516	Oversupply
7/8/2018 15:01	0:01	SMRR	0.002	2.156	Oversupply
7/8/2018 15:03	0:01	SMRR	0.003	1.452	Oversupply
7/8/2018 15:07	0:01	SMRR	0.003	2.860	Oversupply
7/8/2018 15:08	0:01	SMRR	0.002	2.429	Oversupply
7/8/2018 15:09	0:01	SMRR	0.003	2.847	Oversupply
7/8/2018 15:12	0:01	SMRR	0.002	2.626	Oversupply
7/8/2018 15:12	0:01	SMRR	0.003	2.720	Oversupply
7/8/2018 15:14	0:01	SMRR	0.008	2.713	Oversupply
7/8/2018 15:15	0:01	SMRR	0.014	1.422	Oversupply
7/8/2018 15:15	0:01	SMRR	0.014	1.027	Oversupply
7/8/2018 15:16	0:01	SMRR	0.014	0.875	Oversupply
7/8/2018 15:17	0:01	SMRR	0.014	1.215	Oversupply
7/8/2018 15:18	0:01	SMRR	0.014	1.474	Oversupply
7/8/2018 15:19	0:01	SMRR	0.014	2.127	Oversupply
7/8/2018 15:19	0:01	SMRR	0.014	1.327	Oversupply
7/8/2018 15:20	0:01	SMRR	0.014	0.699	Oversupply
7/8/2018 15:21	0:01	SMRR	0.014	0.802	Oversupply
7/8/2018 15:22	0:01	BS250	Data is not available	Data is not available	Oversupply
7/8/2018 15:22	0:01	SMRR	0.014	0.685	Oversupply
7/8/2018 15:22	0:01	SMRR	0.014	0.024	Oversupply
7/8/2018 15:23	0:01	KWPPII	0.024	19.075	Oversupply
7/8/2018 15:23	0:01	SMRR	0.014	0.420	Oversupply
7/8/2018 15:24	0:01	SMRR	0.014	0.975	Oversupply
7/8/2018 22:17	1:26	KWPPII	4.740	20.698	Oversupply
7/8/2018 23:46	0:05	KWPPII	0.358	16.857	Oversupply
7/8/2018 23:53	0:08	KWPPII	0.575	17.289	Oversupply
7/9/2018 0:03	0:02	KWPPII	0.069	10.580	Oversupply
7/9/2018 3:29	0:17	KWPPII	1.326	14.420	Oversupply
7/9/2018 3:47	0:01	KWPPII	0.007	9.836	Oversupply
7/9/2018 6:02	0:01	BS250	Data is not available	Data is not available	Oversupply
7/9/2018 18:20	0:01	KWPPII	0.001	0.036	Oversupply
7/10/2018 9:07	0:01	KWPPII	0.000	0.004	Oversupply
7/10/2018 14:06	0:01	SMRR	0.015	2.192	Oversupply
7/10/2018 14:07	0:07	BS250	Data is not available	Data is not available	Oversupply
7/10/2018 14:07	0:07	KWPPII	0.109	15.398	Oversupply
7/10/2018 14:07	0:07	SMRR	0.140	0.872	Oversupply
7/10/2018 14:13	0:01	SMRR	0.016	0.307	Oversupply
7/10/2018 14:14	0:01	SMRR	0.009	0.733	Oversupply
7/10/2018 14:15	0:01	SMRR	0.003	1.338	Oversupply
7/10/2018 14:16	0:02	SMRR	0.005	1.462	Oversupply
7/10/2018 14:17	0:01	BS250	Data is not available	Data is not available	Oversupply
7/10/2018 14:17	0:01	SMRR	0.003	0.875	Oversupply
7/10/2018 14:39	0:01	SMRR	0.003	2.496	Oversupply
7/10/2018 14:39	0:01	SMRR	0.003	1.229	Oversupply
7/10/2018 14:40	0:01	BS250	Data is not available	Data is not available	Oversupply
7/10/2018 14:40	0:01	SMRR	0.003	0.196	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/10/2018 14:41	0:01	KWP/II	0.011	19.875	Oversupply
7/10/2018 14:43	0:01	SMRR	0.003	1.363	Oversupply
7/10/2018 14:43	0:17	SMRR	0.444	0.536	Oversupply
7/10/2018 14:44	0:17	BS250	Data is not available	Data is not available	Oversupply
7/10/2018 14:45	0:16	KWP/II	0.765	20.393	Oversupply
7/10/2018 15:00	0:01	SMRR	0.003	0.121	Oversupply
7/10/2018 21:14	0:02	AWE	0.029	17.200	System constraint
7/10/2018 21:16	0:08	KWP/II	0.104	19.209	Oversupply
7/10/2018 22:38	1:02	KWP/II	5.150	19.211	Oversupply
7/10/2018 23:43	6:04	KWP/II	60.171	19.211	Oversupply
7/11/2018 3:49	0:05	AWE	0.021	17.300	Oversupply
7/11/2018 4:15	0:01	AWE	0.017	15.000	System constraint
7/11/2018 4:24	0:01	AWE	0.006	16.600	Oversupply
7/11/2018 5:59	0:06	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 6:02	0:04	KWP/II	0.051	19.206	Oversupply
7/11/2018 7:49	0:01	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 7:49	0:01	SMRR	0.005	0.881	Oversupply
7/11/2018 7:50	0:03	SMRR	0.020	0.551	Oversupply
7/11/2018 7:51	0:03	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 7:51	0:03	KWP/II	0.036	20.399	Oversupply
7/11/2018 7:55	0:02	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 7:55	0:02	SMRR	0.015	0.198	Oversupply
7/11/2018 7:56	0:02	KWP/II	0.018	20.399	Oversupply
7/11/2018 8:00	1:01	SMRR	1.380	0.380	Oversupply
7/11/2018 8:01	1:01	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 8:03	0:59	KWP/II	4.370	20.708	Oversupply
7/11/2018 9:01	0:01	SMRR	0.004	0.094	Oversupply
7/11/2018 9:03	0:01	SMRR	0.004	1.152	Oversupply
7/11/2018 9:04	0:01	SMRR	0.004	1.696	Oversupply
7/11/2018 9:23	0:01	SMRR	0.002	1.249	Oversupply
7/11/2018 9:24	0:01	SMRR	0.002	0.529	Oversupply
7/11/2018 9:25	0:01	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 9:25	0:01	SMRR	0.002	0.476	Oversupply
7/11/2018 9:26	0:01	SMRR	0.002	0.982	Oversupply
7/11/2018 9:30	0:01	SMRR	0.021	1.267	Oversupply
7/11/2018 9:31	0:33	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 9:31	0:33	SMRR	1.106	0.165	Oversupply
7/11/2018 9:33	0:32	KWP/II	5.124	19.211	Oversupply
7/11/2018 9:57	0:02	AWE	0.004	20.500	Oversupply
7/11/2018 10:00	0:01	AWE	0.008	20.000	Oversupply
7/11/2018 10:06	2:04	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 10:06	2:03	SMRR	4.403	1.723	Oversupply
7/11/2018 10:07	2:03	KWP/II	27.614	19.211	Oversupply
7/11/2018 10:58	0:02	AWE	0.014	20.200	Oversupply
7/11/2018 11:11	0:01	AWE	0.001	19.900	Oversupply
7/11/2018 11:13	0:02	AWE	0.011	19.100	Oversupply
7/11/2018 11:41	0:02	AWE	0.030	19.600	Oversupply
7/11/2018 11:48	0:01	AWE	0.004	20.000	Oversupply
7/11/2018 11:53	0:02	AWE	0.013	18.900	Oversupply
7/11/2018 12:09	0:01	SMRR	0.031	0.022	Oversupply
7/11/2018 12:11	2:54	SMRR	6.335	1.455	Oversupply
7/11/2018 12:12	2:54	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 12:12	2:55	KWP/II	25.312	20.708	Oversupply
7/11/2018 12:39	0:04	AWE	0.075	20.600	Oversupply
7/11/2018 15:06	0:01	SMRR	0.014	0.106	Oversupply
7/11/2018 15:06	0:01	SMRR	0.014	0.916	Oversupply
7/11/2018 15:07	0:15	SMRR	0.198	0.334	Oversupply
7/11/2018 15:08	0:14	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 15:08	0:15	KWP/II	0.523	20.707	Oversupply
7/11/2018 15:22	0:01	SMRR	0.007	0.274	Oversupply
7/11/2018 15:35	0:01	SMRR	0.004	0.895	Oversupply
7/11/2018 15:36	0:01	SMRR	0.004	0.737	Oversupply
7/11/2018 15:37	0:01	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 15:37	0:01	SMRR	0.004	0.002	Oversupply
7/11/2018 15:38	0:01	KWP/II	0.000	20.666	Oversupply
7/11/2018 15:39	0:03	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 15:39	0:03	SMRR	0.016	0.319	Oversupply
7/11/2018 15:40	0:02	KWP/II	0.017	20.701	Oversupply
7/11/2018 15:45	0:01	BS250	Data is not available	Data is not available	Oversupply
7/11/2018 15:45	0:01	SMRR	0.001	0.583	Oversupply
7/11/2018 15:45	0:01	SMRR	0.001	0.305	Oversupply
7/12/2018 8:27	0:01	SMRR	0.002	1.495	Oversupply
7/12/2018 8:28	0:01	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 8:28	0:02	SMRR	0.005	0.261	Oversupply
7/12/2018 8:52	0:01	SMRR	0.001	1.944	Oversupply
7/12/2018 8:57	0:01	SMRR	0.001	1.866	Oversupply
7/12/2018 8:58	0:04	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 8:58	0:02	SMRR	0.007	0.563	Oversupply
7/12/2018 9:00	0:01	SMRR	0.007	0.022	Oversupply
7/12/2018 9:00	0:01	SMRR	0.007	0.005	Oversupply
7/12/2018 9:01	0:01	KWP/II	0.008	20.703	Oversupply
7/12/2018 9:01	0:01	SMRR	0.007	0.225	Oversupply
7/12/2018 9:04	0:07	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 9:04	0:07	SMRR	0.066	0.252	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/12/2018 9:06	0:05	KWP/II	0.051	20.708	Oversupply
7/12/2018 9:19	0:01	SMRR	0.012	0.662	Oversupply
7/12/2018 9:21	1:58	SMRR	4.454	0.131	Oversupply
7/12/2018 9:22	1:57	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 9:23	1:57	KWP/II	20.304	20.708	Oversupply
7/12/2018 10:37	0:01	AWE	0.002	19.100	Oversupply
7/12/2018 11:19	0:01	SMRR	0.027	0.616	Oversupply
7/12/2018 11:20	0:01	SMRR	0.026	0.575	Oversupply
7/12/2018 11:21	0:01	SMRR	0.027	0.742	Oversupply
7/12/2018 11:22	0:01	SMRR	0.027	0.927	Oversupply
7/12/2018 11:23	0:01	SMRR	0.027	1.392	Oversupply
7/12/2018 11:23	0:01	SMRR	0.026	1.579	Oversupply
7/12/2018 11:24	0:01	SMRR	0.027	0.838	Oversupply
7/12/2018 11:25	0:01	SMRR	0.027	0.814	Oversupply
7/12/2018 11:26	0:01	SMRR	0.027	1.416	Oversupply
7/12/2018 11:26	0:01	SMRR	0.027	1.296	Oversupply
7/12/2018 11:27	0:01	SMRR	0.026	0.833	Oversupply
7/12/2018 11:28	0:01	SMRR	0.027	1.516	Oversupply
7/12/2018 11:29	0:01	SMRR	0.027	2.040	Oversupply
7/12/2018 11:29	0:01	SMRR	0.016	1.088	Oversupply
7/12/2018 11:30	0:01	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 11:30	0:01	SMRR	0.016	0.280	Oversupply
7/12/2018 11:31	0:01	SMRR	0.016	0.539	Oversupply
7/12/2018 11:32	0:01	KWP/II	0.006	18.047	Oversupply
7/12/2018 11:32	0:01	SMRR	0.016	0.564	Oversupply
7/12/2018 11:32	0:01	SMRR	0.016	1.728	Oversupply
7/12/2018 11:33	0:01	SMRR	0.016	1.776	Oversupply
7/12/2018 11:34	0:01	SMRR	0.016	1.591	Oversupply
7/12/2018 11:35	0:01	SMRR	0.016	1.416	Oversupply
7/12/2018 11:36	0:02	BS250	Data is not available	Data is not available	Oversupply
7/12/2018 11:36	0:01	SMRR	0.016	1.021	Oversupply
7/12/2018 11:36	0:01	SMRR	0.016	0.044	Oversupply
7/12/2018 11:37	0:01	SMRR	0.016	0.574	Oversupply
7/12/2018 11:38	0:01	SMRR	0.016	1.076	Oversupply
7/12/2018 11:39	0:01	SMRR	0.016	1.342	Oversupply
7/12/2018 15:50	0:01	SMRR	0.000	1.460	Oversupply
7/12/2018 15:51	0:01	SMRR	0.000	1.751	Oversupply
7/12/2018 16:00	0:01	SMRR	0.000	1.669	Oversupply
7/13/2018 0:30	0:26	KWP/II	0.693	20.683	Oversupply
7/13/2018 1:21	0:01	KWP/II	0.005	20.037	Oversupply
7/13/2018 1:23	0:35	KWP/II	1.367	20.598	Oversupply
7/13/2018 2:09	0:02	KWP/II	0.031	19.161	Oversupply
7/13/2018 2:21	0:01	KWP/II	0.015	19.925	Oversupply
7/13/2018 2:23	3:02	KWP/II	26.849	20.708	Oversupply
7/13/2018 5:28	0:01	KWP/II	0.010	20.708	Oversupply
7/13/2018 5:39	0:11	KWP/II	0.248	20.708	Oversupply
7/13/2018 5:49	0:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 6:15	0:17	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 6:15	0:18	SMRR	0.024	0.043	Oversupply
7/13/2018 6:17	0:16	KWP/II	0.657	20.708	Oversupply
7/13/2018 6:33	0:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 6:42	0:26	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 6:42	0:02	SMRR	0.005	0.003	Oversupply
7/13/2018 6:43	0:26	KWP/II	0.904	20.704	Oversupply
7/13/2018 6:44	0:24	SMRR	0.114	0.004	Oversupply
7/13/2018 7:10	0:01	SMRR	0.003	0.161	Oversupply
7/13/2018 7:11	0:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 8:01	0:02	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 8:01	0:01	SMRR	0.002	0.390	Oversupply
7/13/2018 8:02	0:01	SMRR	0.002	0.023	Oversupply
7/13/2018 8:03	0:01	SMRR	0.002	0.263	Oversupply
7/13/2018 8:14	0:01	SMRR	0.001	0.567	Oversupply
7/13/2018 8:15	0:02	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 8:15	0:02	SMRR	0.012	0.012	Oversupply
7/13/2018 8:16	0:01	KWP/II	0.006	20.693	Oversupply
7/13/2018 8:16	0:01	SMRR	0.006	0.210	Oversupply
7/13/2018 8:22	0:01	SMRR	0.006	1.070	Oversupply
7/13/2018 8:23	0:01	SMRR	0.006	0.624	Oversupply
7/13/2018 8:26	0:01	SMRR	0.006	0.969	Oversupply
7/13/2018 8:27	0:01	SMRR	0.006	0.749	Oversupply
7/13/2018 8:28	0:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 8:28	0:01	SMRR	0.006	0.046	Oversupply
7/13/2018 8:29	0:01	SMRR	0.006	0.395	Oversupply
7/13/2018 8:29	0:01	SMRR	-0.001	0.402	Oversupply
7/13/2018 8:30	0:01	SMRR	0.002	0.861	Oversupply
7/13/2018 8:32	0:01	SMRR	0.002	1.115	Oversupply
7/13/2018 8:32	0:01	SMRR	0.002	1.092	Oversupply
7/13/2018 9:03	0:35	SMRR	0.931	1.553	Oversupply
7/13/2018 9:04	0:34	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 9:05	0:34	KWP/II	2.414	20.706	Oversupply
7/13/2018 9:42	0:02	SMRR	0.030	1.342	Oversupply
7/13/2018 9:44	0:01	SMRR	0.015	0.464	Oversupply
7/13/2018 9:44	0:01	SMRR	0.004	0.764	Oversupply
7/13/2018 10:02	0:01	SMRR	0.014	2.465	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/13/2018 10:03	0:02	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 10:03	0:01	SMRR	0.014	1.656	Oversupply
7/13/2018 10:03	0:03	SMRR	0.055	0.340	Oversupply
7/13/2018 10:05	0:02	KWPPII	0.015	20.702	Oversupply
7/13/2018 10:06	0:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 10:06	0:01	SMRR	0.014	0.308	Oversupply
7/13/2018 10:11	0:01	SMRR	0.013	1.505	Oversupply
7/13/2018 10:12	1:01	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 10:12	1:01	SMRR	2.524	1.225	Oversupply
7/13/2018 10:13	1:00	KWPPII	5.704	20.678	Oversupply
7/13/2018 11:13	0:01	SMRR	0.034	0.675	Oversupply
7/13/2018 11:14	0:01	SMRR	0.034	1.494	Oversupply
7/13/2018 11:14	0:01	SMRR	0.017	1.427	Oversupply
7/13/2018 11:15	0:01	SMRR	0.006	1.254	Oversupply
7/13/2018 11:24	0:01	SMRR	0.005	1.696	Oversupply
7/13/2018 11:25	0:01	SMRR	0.005	1.719	Oversupply
7/13/2018 11:26	0:06	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 11:26	0:01	KWPPII	0.006	20.609	Oversupply
7/13/2018 11:26	0:06	SMRR	0.090	0.303	Oversupply
7/13/2018 11:28	0:05	KWPPII	0.088	20.647	Oversupply
7/13/2018 11:37	0:01	SMRR	0.021	2.865	Oversupply
7/13/2018 11:37	0:01	SMRR	0.021	1.848	Oversupply
7/13/2018 11:38	0:04	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 11:38	0:03	SMRR	0.083	0.594	Oversupply
7/13/2018 11:39	0:03	KWPPII	0.050	20.418	Oversupply
7/13/2018 11:41	0:01	SMRR	0.021	0.198	Oversupply
7/13/2018 11:43	0:01	SMRR	0.021	0.880	Oversupply
7/13/2018 11:43	0:01	SMRR	0.021	1.064	Oversupply
7/13/2018 11:44	0:01	SMRR	0.013	1.819	Oversupply
7/13/2018 11:45	0:01	SMRR	0.007	2.001	Oversupply
7/13/2018 11:46	0:01	SMRR	0.008	2.070	Oversupply
7/13/2018 11:47	0:01	SMRR	0.007	2.157	Oversupply
7/13/2018 11:47	0:01	SMRR	0.007	0.970	Oversupply
7/13/2018 11:48	0:01	SMRR	0.007	0.563	Oversupply
7/13/2018 11:49	0:01	SMRR	0.007	1.852	Oversupply
7/13/2018 12:29	0:01	SMRR	0.008	1.482	Oversupply
7/13/2018 12:30	0:36	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 12:30	0:36	SMRR	1.517	1.503	Oversupply
7/13/2018 12:31	0:35	KWPPII	3.235	20.696	Oversupply
7/13/2018 13:06	0:01	SMRR	0.020	0.807	Oversupply
7/13/2018 13:07	0:01	SMRR	0.020	1.497	Oversupply
7/13/2018 13:08	0:01	SMRR	0.020	1.967	Oversupply
7/13/2018 13:56	0:01	SMRR	0.001	1.632	Oversupply
7/13/2018 14:02	0:01	SMRR	0.001	2.906	Oversupply
7/13/2018 14:16	0:01	SMRR	0.016	2.164	Oversupply
7/13/2018 14:17	0:09	BS250	Data is not available	Data is not available	Oversupply
7/13/2018 14:17	0:08	SMRR	0.182	1.836	Oversupply
7/13/2018 14:19	0:07	KWPPII	0.256	20.700	Oversupply
7/13/2018 14:25	0:01	SMRR	0.016	0.501	Oversupply
7/14/2018 0:53	0:36	KWPPII	2.461	20.680	System constraint
7/14/2018 4:18	0:01	KWPPII	0.006	0.341	Oversupply
7/14/2018 9:32	0:01	KWPPII	0.000	0.012	Oversupply
7/15/2018 5:19	0:05	KWPPII	0.034	10.019	Oversupply
7/15/2018 5:25	0:14	KWPPII	0.384	9.780	System constraint
7/15/2018 5:40	0:06	KWPPII	0.222	12.157	Oversupply
7/16/2018 9:59	0:15	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 9:59	0:01	SMRR	0.000	1.647	Oversupply
7/16/2018 9:59	0:15	SMRR	0.529	0.575	Oversupply
7/16/2018 10:02	0:12	KWPPII	0.647	11.298	Oversupply
7/16/2018 10:14	0:01	SMRR	0.027	-0.003	Oversupply
7/16/2018 10:15	0:01	SMRR	0.020	-0.003	Oversupply
7/16/2018 10:15	0:02	SMRR	0.040	-0.003	Oversupply
7/16/2018 10:16	0:01	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 10:17	0:02	KWPPII	0.016	8.733	Oversupply
7/16/2018 10:17	0:01	SMRR	0.020	-0.003	Oversupply
7/16/2018 10:18	0:02	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 10:18	0:02	SMRR	0.060	-0.003	Oversupply
7/16/2018 10:20	0:01	KWPPII	0.008	8.990	Oversupply
7/16/2018 10:20	0:01	SMRR	0.020	0.086	Oversupply
7/16/2018 10:21	0:01	SMRR	0.020	0.794	Oversupply
7/16/2018 10:21	0:01	SMRR	0.020	1.007	Oversupply
7/16/2018 10:23	0:01	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 10:23	0:01	SMRR	0.020	1.130	Oversupply
7/16/2018 10:24	0:01	SMRR	0.020	0.049	Oversupply
7/16/2018 10:25	0:01	SMRR	0.020	0.619	Oversupply
7/16/2018 10:25	0:01	SMRR	0.020	1.040	Oversupply
7/16/2018 10:52	0:01	SMRR	0.012	2.339	Oversupply
7/16/2018 10:53	0:01	SMRR	0.012	2.057	Oversupply
7/16/2018 10:54	0:01	SMRR	0.012	0.873	Oversupply
7/16/2018 10:54	0:01	SMRR	0.012	0.180	Oversupply
7/16/2018 10:55	0:01	SMRR	0.012	0.922	Oversupply
7/16/2018 10:56	0:12	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 10:56	0:12	KWPPII	0.441	13.397	Oversupply
7/16/2018 10:56	0:01	SMRR	0.012	0.046	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/16/2018 10:57	0:13	SMRR	0.395	-0.006	Oversupply
7/16/2018 11:12	0:01	SMRR	0.027	2.756	Oversupply
7/16/2018 11:13	0:01	SMRR	0.027	2.463	Oversupply
7/16/2018 11:14	0:06	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 11:14	0:06	SMRR	0.159	1.180	Oversupply
7/16/2018 11:15	0:06	KWP/II	0.166	12.065	Oversupply
7/16/2018 11:21	0:01	SMRR	0.019	0.139	Oversupply
7/16/2018 11:22	0:01	KWP/II	0.003	12.628	Oversupply
7/16/2018 11:22	0:01	SMRR	0.020	0.516	Oversupply
7/16/2018 11:23	0:01	SMRR	0.020	0.940	Oversupply
7/16/2018 11:28	0:01	SMRR	0.020	2.872	Oversupply
7/16/2018 11:34	0:01	SMRR	-0.001	2.662	Oversupply
7/16/2018 12:00	0:01	SMRR	0.020	2.892	Oversupply
7/16/2018 12:01	0:01	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 12:01	0:01	SMRR	0.021	1.864	Oversupply
7/16/2018 12:02	0:01	KWP/II	0.002	10.133	Oversupply
7/16/2018 12:02	0:01	SMRR	0.021	0.641	Oversupply
7/16/2018 12:02	0:01	SMRR	0.021	0.446	Oversupply
7/16/2018 12:07	0:13	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 12:07	0:01	SMRR	0.020	2.566	Oversupply
7/16/2018 12:08	0:13	KWP/II	0.681	13.343	Oversupply
7/16/2018 12:08	0:11	SMRR	0.407	1.289	Oversupply
7/16/2018 12:19	0:01	SMRR	0.037	-0.004	Oversupply
7/16/2018 12:20	0:01	SMRR	0.036	-0.004	Oversupply
7/16/2018 12:21	1:14	SMRR	3.505	0.028	Oversupply
7/16/2018 12:22	1:13	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 12:22	1:13	KWP/II	8.501	17.922	Oversupply
7/16/2018 13:35	0:01	SMRR	0.035	-0.004	Oversupply
7/16/2018 13:41	0:02	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 13:41	0:02	KWP/II	0.083	9.354	Oversupply
7/16/2018 13:41	0:02	SMRR	0.104	0.544	Oversupply
7/16/2018 13:43	0:01	SMRR	0.034	0.137	Oversupply
7/16/2018 13:45	0:01	SMRR	0.032	2.702	Oversupply
7/16/2018 13:46	0:01	SMRR	0.032	1.414	Oversupply
7/16/2018 13:47	0:12	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 13:47	0:12	SMRR	0.504	0.423	Oversupply
7/16/2018 13:48	0:12	KWP/II	0.738	15.908	Oversupply
7/16/2018 14:04	0:09	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 14:04	0:08	SMRR	0.224	2.138	Oversupply
7/16/2018 14:05	0:09	KWP/II	1.455	18.025	Oversupply
7/16/2018 14:13	0:01	SMRR	0.020	0.013	Oversupply
7/16/2018 14:16	0:01	SMRR	0.021	0.704	Oversupply
7/16/2018 14:17	0:01	SMRR	0.020	0.978	Oversupply
7/16/2018 14:17	0:01	SMRR	0.021	0.966	Oversupply
7/16/2018 14:18	0:01	SMRR	0.021	1.108	Oversupply
7/16/2018 14:19	0:01	SMRR	0.021	1.467	Oversupply
7/16/2018 14:20	0:01	SMRR	0.020	1.723	Oversupply
7/16/2018 14:21	0:01	SMRR	0.021	1.994	Oversupply
7/16/2018 14:22	0:15	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 14:22	0:15	SMRR	0.425	2.718	Oversupply
7/16/2018 14:23	0:15	KWP/II	3.957	19.162	Oversupply
7/16/2018 14:30	0:01	AWE	0.002	19.300	Oversupply
7/16/2018 14:32	0:01	AWE	0.003	19.400	Oversupply
7/16/2018 14:39	0:16	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 14:39	0:16	SMRR	0.566	0.911	Oversupply
7/16/2018 14:40	0:15	KWP/II	1.695	18.897	Oversupply
7/16/2018 14:56	0:02	BS250	Data is not available	Data is not available	Oversupply
7/16/2018 14:56	0:03	KWP/II	0.094	19.611	Oversupply
7/16/2018 14:56	0:02	SMRR	0.090	0.529	Oversupply
7/16/2018 14:58	0:01	SMRR	0.030	0.034	Oversupply
7/16/2018 14:59	0:01	SMRR	0.030	0.147	Oversupply
7/16/2018 14:59	0:01	SMRR	0.013	0.248	Oversupply
7/16/2018 15:00	0:01	SMRR	0.007	0.390	Oversupply
7/16/2018 15:01	0:01	SMRR	0.007	0.783	Oversupply
7/16/2018 15:08	0:01	SMRR	0.007	2.341	Oversupply
7/16/2018 22:28	1:07	KWP/II	4.596	19.211	Oversupply
7/16/2018 23:39	6:13	KWP/II	77.498	19.211	Oversupply
7/17/2018 5:49	0:03	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 8:15	0:36	KWP	0.389	26.798	Facility requested
7/17/2018 8:39	0:01	SMRR	0.005	1.033	Oversupply
7/17/2018 8:40	0:01	SMRR	0.005	1.298	Oversupply
7/17/2018 8:41	0:01	SMRR	0.005	0.590	Oversupply
7/17/2018 8:42	0:01	SMRR	0.005	0.980	Oversupply
7/17/2018 8:43	0:10	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 8:43	0:11	SMRR	0.199	0.675	Oversupply
7/17/2018 8:46	0:08	KWP/II	0.084	19.211	Oversupply
7/17/2018 8:52	0:12	KWP	0.138	26.798	Facility requested
7/17/2018 8:53	0:01	SMRR	0.016	0.204	Oversupply
7/17/2018 8:55	0:01	SMRR	0.016	1.075	Oversupply
7/17/2018 8:57	0:01	SMRR	0.016	1.329	Oversupply
7/17/2018 8:57	0:01	SMRR	0.016	0.974	Oversupply
7/17/2018 8:58	0:01	SMRR	0.016	0.542	Oversupply
7/17/2018 9:02	0:17	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 9:02	0:17	SMRR	0.417	0.673	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/17/2018 9:05	0:14	KWP/II	0.419	19.211	Oversupply
7/17/2018 9:19	0:01	SMRR	0.021	0.199	Oversupply
7/17/2018 9:19	0:01	SMRR	0.020	0.838	Oversupply
7/17/2018 9:20	0:01	SMRR	0.021	0.735	Oversupply
7/17/2018 9:21	0:03	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 9:21	0:03	SMRR	0.082	0.188	Oversupply
7/17/2018 9:23	0:02	KWP/II	0.009	19.211	Oversupply
7/17/2018 9:24	0:01	SMRR	0.021	0.113	Oversupply
7/17/2018 9:26	0:01	SMRR	0.021	0.532	Oversupply
7/17/2018 9:27	0:16	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 9:27	0:17	KWP/II	0.546	19.211	Oversupply
7/17/2018 9:27	0:16	SMRR	0.519	0.224	Oversupply
7/17/2018 9:55	0:01	SMRR	0.004	1.700	Oversupply
7/17/2018 9:55	0:01	SMRR	0.004	1.318	Oversupply
7/17/2018 9:56	0:01	SMRR	0.004	1.075	Oversupply
7/17/2018 10:43	0:11	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 10:43	0:11	KWP/II	0.513	19.019	Oversupply
7/17/2018 10:43	0:11	SMRR	0.266	2.448	Oversupply
7/17/2018 10:53	0:01	SMRR	0.022	0.160	Oversupply
7/17/2018 10:54	0:01	SMRR	0.023	0.602	Oversupply
7/17/2018 15:56	0:01	SMRR	0.001	1.193	Oversupply
7/17/2018 15:57	0:01	SMRR	0.001	1.278	Oversupply
7/17/2018 15:58	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2018 15:58	0:18	KWP/II	1.903	18.777	System constraint
7/17/2018 15:58	0:01	SMRR	0.001	0.322	Oversupply
7/17/2018 16:11	0:02	KWP	0.008	18.454	System constraint
7/17/2018 22:20	7:06	KWP/II	65.850	20.708	Oversupply
7/18/2018 7:03	0:01	SMRR	0.001	0.304	Oversupply
7/18/2018 7:04	0:17	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 7:04	0:16	KWP/II	0.635	19.707	Oversupply
7/18/2018 7:20	0:01	SMRR	0.001	0.492	Oversupply
7/18/2018 7:23	0:12	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 7:23	0:01	SMRR	0.001	0.531	Oversupply
7/18/2018 7:24	0:01	SMRR	0.001	0.535	Oversupply
7/18/2018 7:25	0:10	KWP/II	0.199	20.203	Oversupply
7/18/2018 7:39	0:01	SMRR	0.001	0.705	Oversupply
7/18/2018 7:42	0:02	SMRR	0.002	0.754	Oversupply
7/18/2018 7:43	0:31	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 7:44	0:01	SMRR	0.000	0.777	Oversupply
7/18/2018 7:45	0:29	KWP/II	1.052	19.257	Oversupply
7/18/2018 8:18	0:02	KWP/II	0.009	20.320	Oversupply
7/18/2018 8:22	0:12	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 8:22	0:12	KWP/II	0.756	20.648	Oversupply
7/18/2018 8:41	0:01	SMRR	0.003	1.524	Oversupply
7/18/2018 9:30	0:01	SMRR	0.016	1.849	Oversupply
7/18/2018 9:31	0:01	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 9:31	0:01	SMRR	0.016	0.884	Oversupply
7/18/2018 9:32	0:05	KWP/II	0.068	19.329	Oversupply
7/18/2018 9:32	0:05	SMRR	0.094	0.009	Oversupply
7/18/2018 9:33	0:03	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 9:37	0:01	SMRR	0.016	-0.003	Oversupply
7/18/2018 9:38	0:01	SMRR	0.016	0.097	Oversupply
7/18/2018 9:40	0:01	SMRR	0.016	1.250	Oversupply
7/18/2018 9:41	0:02	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 9:41	0:02	KWP/II	0.026	18.345	Oversupply
7/18/2018 9:41	0:02	SMRR	0.047	0.660	Oversupply
7/18/2018 9:43	0:01	SMRR	0.016	-0.003	Oversupply
7/18/2018 9:44	3:42	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 9:44	0:01	SMRR	0.017	-0.003	Oversupply
7/18/2018 9:45	3:41	KWP/II	35.383	20.704	Oversupply
7/18/2018 9:45	3:41	SMRR	9.088	-0.004	Oversupply
7/18/2018 13:25	0:01	SMRR	0.022	0.082	Oversupply
7/18/2018 13:26	0:01	SMRR	0.022	0.382	Oversupply
7/18/2018 13:27	0:01	SMRR	0.022	0.705	Oversupply
7/18/2018 13:28	0:01	SMRR	0.022	1.009	Oversupply
7/18/2018 13:29	0:01	SMRR	0.023	1.301	Oversupply
7/18/2018 13:30	0:13	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 13:30	0:14	SMRR	0.363	0.262	Oversupply
7/18/2018 13:31	0:13	KWP/II	0.296	20.703	Oversupply
7/18/2018 13:44	0:01	SMRR	0.020	0.108	Oversupply
7/18/2018 13:44	0:01	SMRR	0.008	0.420	Oversupply
7/18/2018 14:56	0:01	SMRR	0.001	1.039	Oversupply
7/18/2018 14:57	0:02	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 14:57	0:01	SMRR	0.001	0.856	Oversupply
7/18/2018 14:58	0:01	SMRR	0.001	0.022	Oversupply
7/18/2018 14:59	0:01	SMRR	0.001	-0.003	Oversupply
7/18/2018 14:59	0:01	SMRR	0.007	-0.003	Oversupply
7/18/2018 15:00	0:01	SMRR	0.008	-0.003	Oversupply
7/18/2018 15:01	0:01	SMRR	0.009	-0.003	Oversupply
7/18/2018 15:02	0:01	SMRR	0.009	-0.003	Oversupply
7/18/2018 15:02	0:01	SMRR	0.009	-0.003	Oversupply
7/18/2018 15:03	0:01	SMRR	0.008	-0.003	Oversupply
7/18/2018 15:04	0:02	BS250	Data is not available	Data is not available	Oversupply
7/18/2018 15:04	0:01	SMRR	0.009	0.243	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/18/2018 15:05	0:01	SMRR	0.009	0.000	Oversupply
7/18/2018 15:05	0:01	SMRR	0.009	0.007	Oversupply
7/18/2018 15:31	0:01	SMRR	0.000	1.354	Oversupply
7/18/2018 22:19	4:43	KWPPII	61.347	20.708	Oversupply
7/19/2018 7:22	0:01	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 7:22	0:01	AWE	0.010	16.000	Oversupply
7/19/2018 7:22	0:01	KWPPII	0.056	14.901	Oversupply
7/19/2018 7:22	0:01	SMRR	0.001	0.003	Oversupply
7/19/2018 7:25	0:01	AWE	0.008	17.600	Oversupply
7/19/2018 7:26	0:03	KWPPII	0.130	13.795	System constraint
7/19/2018 7:32	0:05	AWE	0.140	19.300	System constraint
7/19/2018 7:33	0:02	KWP	0.062	17.142	System constraint
7/19/2018 7:39	0:11	KWPPII	0.233	12.584	System constraint
7/19/2018 7:41	0:02	AWE	0.007	18.300	System constraint
7/19/2018 7:45	0:01	AWE	0.008	19.500	System constraint
7/19/2018 7:47	0:01	KWP	0.000	19.002	System constraint
7/19/2018 8:11	0:01	KWPPII	0.001	16.908	Oversupply
7/19/2018 8:11	0:01	SMRR	0.002	0.456	Oversupply
7/19/2018 8:12	0:01	SMRR	0.002	0.494	Oversupply
7/19/2018 8:13	0:01	SMRR	0.002	0.481	Oversupply
7/19/2018 8:13	0:01	SMRR	0.002	0.008	Oversupply
7/19/2018 8:14	0:01	KWPPII	0.019	16.093	Oversupply
7/19/2018 8:19	0:06	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 8:19	0:05	SMRR	0.063	0.215	Oversupply
7/19/2018 8:20	0:05	KWPPII	0.412	18.638	Oversupply
7/19/2018 8:28	1:56	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 8:29	1:55	SMRR	3.636	0.315	Oversupply
7/19/2018 8:29	1:55	KWPPII	12.353	19.689	Oversupply
7/19/2018 10:24	0:01	SMRR	0.025	0.368	Oversupply
7/19/2018 10:25	0:01	SMRR	0.025	0.930	Oversupply
7/19/2018 10:28	0:21	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 10:28	0:01	SMRR	0.025	2.106	Oversupply
7/19/2018 10:28	0:21	SMRR	0.848	1.006	Oversupply
7/19/2018 10:29	0:25	KWPPII	0.932	13.366	Oversupply
7/19/2018 10:50	0:03	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 10:50	0:02	SMRR	0.079	0.032	Oversupply
7/19/2018 10:52	0:02	SMRR	0.053	0.012	Oversupply
7/19/2018 10:54	0:01	SMRR	0.026	0.368	Oversupply
7/19/2018 10:55	0:01	SMRR	0.027	1.300	Oversupply
7/19/2018 10:56	0:01	SMRR	0.027	1.516	Oversupply
7/19/2018 10:57	0:01	SMRR	0.027	1.743	Oversupply
7/19/2018 10:57	0:01	SMRR	0.027	1.675	Oversupply
7/19/2018 10:59	0:01	SMRR	0.024	1.396	Oversupply
7/19/2018 11:00	0:01	SMRR	0.014	1.092	Oversupply
7/19/2018 11:04	0:01	SMRR	0.014	1.943	Oversupply
7/19/2018 11:05	0:02	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 11:05	0:02	KWPPII	0.021	10.732	Oversupply
7/19/2018 11:05	0:02	SMRR	0.027	0.659	Oversupply
7/19/2018 11:07	0:01	SMRR	0.014	0.296	Oversupply
7/19/2018 11:07	0:01	SMRR	0.014	0.668	Oversupply
7/19/2018 11:09	0:01	SMRR	0.013	1.560	Oversupply
7/19/2018 11:10	0:01	SMRR	0.014	1.328	Oversupply
7/19/2018 11:12	0:01	SMRR	0.013	1.679	Oversupply
7/19/2018 11:13	0:14	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 11:13	3:38	SMRR	9.690	1.034	Oversupply
7/19/2018 11:14	3:37	KWPPII	32.648	20.412	Oversupply
7/19/2018 11:33	0:17	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 11:40	0:02	AWE	0.018	19.600	Oversupply
7/19/2018 11:44	0:03	AWE	0.040	19.200	Oversupply
7/19/2018 11:48	0:41	AWE	4.160	20.600	Oversupply
7/19/2018 12:01	2:50	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 12:32	0:01	AWE	0.002	18.000	Oversupply
7/19/2018 14:51	0:01	SMRR	0.025	0.406	Oversupply
7/19/2018 14:52	0:01	SMRR	0.025	0.946	Oversupply
7/19/2018 14:53	0:01	SMRR	0.024	1.296	Oversupply
7/19/2018 14:53	0:01	SMRR	0.025	1.156	Oversupply
7/19/2018 14:54	0:01	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 14:54	0:02	SMRR	0.050	0.155	Oversupply
7/19/2018 14:56	0:01	SMRR	0.024	0.412	Oversupply
7/19/2018 14:56	0:01	SMRR	0.025	1.062	Oversupply
7/19/2018 14:57	0:01	SMRR	0.025	1.578	Oversupply
7/19/2018 14:58	0:01	SMRR	0.025	1.640	Oversupply
7/19/2018 14:59	0:03	BS250	Data is not available	Data is not available	Oversupply
7/19/2018 14:59	0:01	SMRR	0.024	1.380	Oversupply
7/19/2018 14:59	0:02	SMRR	0.034	0.508	Oversupply
7/19/2018 15:00	0:02	KWPPII	0.027	17.723	Oversupply
7/19/2018 15:02	0:01	SMRR	0.011	0.078	Oversupply
7/19/2018 15:03	0:01	KWPPII	0.001	18.304	Oversupply
7/19/2018 15:03	0:01	SMRR	0.011	0.400	Oversupply
7/19/2018 15:03	0:01	SMRR	0.011	0.651	Oversupply
7/19/2018 15:04	0:01	SMRR	0.011	1.454	Oversupply
7/19/2018 15:05	0:01	SMRR	0.010	1.088	Oversupply
7/19/2018 15:06	0:01	SMRR	0.011	1.198	Oversupply
7/19/2018 15:06	0:01	SMRR	0.011	1.379	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/19/2018 20:07	0:34	KWP/II	7.261	20.655	Oversupply
7/19/2018 20:14	0:07	AWE	0.103	16.500	Oversupply
7/19/2018 20:25	0:02	AWE	0.005	15.200	Oversupply
7/19/2018 20:28	0:02	AWE	0.006	14.100	Oversupply
7/19/2018 23:52	1:40	KWP/II	19.690	19.210	Oversupply
7/20/2018 1:37	0:01	KWP/II	0.005	17.180	Oversupply
7/20/2018 1:41	0:03	KWP/II	0.030	15.603	Oversupply
7/20/2018 2:23	0:01	KWP/II	0.002	19.173	Oversupply
7/20/2018 2:29	0:01	KWP/II	0.001	19.205	Oversupply
7/20/2018 2:34	1:19	KWP/II	4.615	19.211	Oversupply
7/20/2018 5:18	0:01	AWE	0.009	13.600	System constraint
7/20/2018 5:18	0:17	KWP/II	0.631	8.264	System constraint
7/20/2018 5:25	0:02	AWE	0.023	14.200	System constraint
7/20/2018 5:28	0:01	AWE	0.002	13.100	System constraint
7/20/2018 5:30	0:02	AWE	0.017	13.600	System constraint
7/20/2018 5:31	0:01	KWP	0.026	18.602	System constraint
7/20/2018 5:33	0:01	AWE	0.013	13.800	System constraint
7/20/2018 5:37	0:04	AWE	0.067	18.600	System constraint
7/20/2018 5:37	0:22	KWP/II	3.004	15.301	Oversupply
7/20/2018 5:38	0:03	KWP	0.079	25.613	System constraint
7/20/2018 5:43	0:03	AWE	0.021	17.500	Oversupply
7/20/2018 5:49	0:10	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 6:17	0:03	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 6:18	0:02	KWP/II	0.028	17.444	Oversupply
7/20/2018 6:23	0:02	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 6:24	0:02	KWP/II	0.013	17.184	Oversupply
7/20/2018 6:24	0:02	SMRR	0.001	0.002	Oversupply
7/20/2018 7:02	0:02	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 7:03	0:01	KWP/II	0.028	18.278	Oversupply
7/20/2018 7:03	0:02	SMRR	0.005	-0.001	Oversupply
7/20/2018 9:24	0:02	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 9:24	0:01	SMRR	0.003	1.170	Oversupply
7/20/2018 9:25	0:01	KWP/II	0.006	12.707	Oversupply
7/20/2018 9:25	0:01	SMRR	0.003	0.009	Oversupply
7/20/2018 11:00	0:01	SMRR	-0.001	2.662	Oversupply
7/20/2018 11:01	0:01	SMRR	-0.001	2.318	Oversupply
7/20/2018 11:13	0:02	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 11:13	0:04	SMRR	0.088	2.623	Oversupply
7/20/2018 11:14	0:04	KWP/II	0.134	13.569	Oversupply
7/20/2018 11:16	0:01	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 11:18	0:20	SMRR	0.721	2.762	Oversupply
7/20/2018 11:19	0:19	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 11:19	0:20	KWP/II	1.363	15.579	Oversupply
7/20/2018 11:44	0:01	SMRR	0.027	2.734	Oversupply
7/20/2018 11:45	0:01	SMRR	0.017	1.303	Oversupply
7/20/2018 11:50	0:01	SMRR	0.017	2.789	Oversupply
7/20/2018 11:51	0:01	SMRR	0.017	1.974	Oversupply
7/20/2018 11:51	0:01	SMRR	0.017	0.714	Oversupply
7/20/2018 11:52	0:03	BS250	Data is not available	Data is not available	Oversupply
7/20/2018 11:52	0:02	SMRR	0.051	0.277	Oversupply
7/20/2018 11:53	0:02	KWP/II	0.050	14.861	Oversupply
7/20/2018 11:54	0:01	SMRR	0.017	0.020	Oversupply
7/20/2018 14:20	0:01	SMRR	-0.002	2.867	Oversupply
7/20/2018 14:21	0:01	SMRR	-0.002	2.897	Oversupply
7/20/2018 22:03	0:01	AWE	0.002	0.100	Oversupply
7/21/2018 1:02	0:27	KWP/II	0.899	20.707	Oversupply
7/21/2018 1:31	0:19	KWP/II	0.346	20.407	Oversupply
7/21/2018 1:56	0:02	KWP/II	0.006	20.610	Oversupply
7/21/2018 2:12	0:01	KWP/II	0.001	19.990	Oversupply
7/21/2018 2:24	0:03	KWP/II	0.034	20.356	Oversupply
7/21/2018 2:34	2:27	KWP/II	19.572	20.686	Oversupply
7/21/2018 5:05	0:07	KWP/II	0.037	20.603	Oversupply
7/21/2018 5:16	0:38	KWP/II	1.885	20.686	Oversupply
7/21/2018 5:49	0:04	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 6:54	0:01	AWE	0.005	0.300	Oversupply
7/21/2018 7:30	0:11	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 7:30	0:11	SMRR	0.000	0.544	System Constraint
7/21/2018 7:32	0:10	KWP/II	0.268	20.691	Oversupply
7/21/2018 7:33	0:02	AWE	0.005	10.200	System constraint
7/21/2018 7:42	0:01	SMRR	0.000	0.153	System Constraint
7/21/2018 7:53	0:01	SMRR	0.005	0.789	Oversupply
7/21/2018 7:54	0:58	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 7:54	0:58	KWP/II	5.389	20.695	Oversupply
7/21/2018 7:54	0:58	SMRR	1.178	0.001	Oversupply
7/21/2018 8:00	0:02	AWE	0.104	17.700	Oversupply
7/21/2018 8:52	0:01	SMRR	0.016	0.244	Oversupply
7/21/2018 8:53	0:01	SMRR	0.016	0.398	Oversupply
7/21/2018 8:53	0:01	SMRR	0.016	0.280	Oversupply
7/21/2018 8:54	0:06	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 8:54	0:15	SMRR	0.302	0.018	Oversupply
7/21/2018 8:56	0:15	KWP/II	0.269	20.666	Oversupply
7/21/2018 9:01	0:08	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 9:10	0:01	SMRR	0.015	0.060	Oversupply
7/21/2018 9:10	0:01	SMRR	0.015	0.315	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/21/2018 9:11	0:01	SMRR	0.015	0.368	Oversupply
7/21/2018 9:12	0:01	SMRR	0.015	0.482	Oversupply
7/21/2018 9:16	0:02	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 9:16	0:01	SMRR	0.011	0.705	Oversupply
7/21/2018 9:16	0:02	SMRR	0.021	0.083	Oversupply
7/21/2018 9:18	0:01	SMRR	0.011	0.564	Oversupply
7/21/2018 9:22	0:01	SMRR	0.010	0.724	Oversupply
7/21/2018 9:23	0:01	SMRR	0.011	0.217	Oversupply
7/21/2018 9:23	0:33	SMRR	0.968	0.047	Oversupply
7/21/2018 9:24	0:32	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 9:24	0:33	KWPPII	3.416	20.642	Oversupply
7/21/2018 9:35	0:06	AWE	0.145	17.100	System constraint
7/21/2018 10:00	0:10	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 10:00	4:48	KWPPII	80.463	20.708	Oversupply
7/21/2018 10:00	4:48	SMRR	10.447	0.932	Oversupply
7/21/2018 10:11	0:04	AWE	0.119	10.000	System constraint
7/21/2018 10:20	0:02	AWE	0.012	13.200	System constraint
7/21/2018 10:25	0:04	AWE	0.048	14.100	System constraint
7/21/2018 10:32	4:16	BS250	Data is not available	Data is not available	Oversupply
7/21/2018 10:33	0:31	AWE	1.378	18.400	Oversupply
7/21/2018 11:05	1:54	AWE	14.017	19.400	Oversupply
7/21/2018 13:00	0:01	AWE	0.006	19.700	Oversupply
7/21/2018 13:46	0:02	AWE	0.014	19.700	Oversupply
7/21/2018 14:55	0:14	KWPPII	1.193	20.616	Oversupply
7/22/2018 0:54	0:01	AWE	0.002	0.100	Oversupply
7/22/2018 1:29	0:01	KWPPII	0.006	19.109	Oversupply
7/22/2018 1:32	0:27	KWPPII	0.396	19.131	Oversupply
7/22/2018 2:03	0:06	KWPPII	0.020	19.056	Oversupply
7/22/2018 2:10	0:10	KWPPII	0.106	19.167	Oversupply
7/22/2018 2:21	0:10	KWPPII	0.253	19.083	Oversupply
7/22/2018 2:32	2:19	KWPPII	9.093	19.194	Oversupply
7/22/2018 6:59	0:01	SMRR	0.002	0.254	Oversupply
7/22/2018 7:03	0:52	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 7:03	0:01	SMRR	0.005	0.191	Oversupply
7/22/2018 7:04	0:50	SMRR	0.506	0.007	Oversupply
7/22/2018 7:06	0:50	KWPPII	2.756	19.182	Oversupply
7/22/2018 7:08	0:02	AWE	0.067	10.300	System constraint
7/22/2018 7:53	0:02	SMRR	0.029	0.016	Oversupply
7/22/2018 7:55	0:01	SMRR	0.010	0.141	Oversupply
7/22/2018 7:56	0:01	SMRR	0.010	0.616	Oversupply
7/22/2018 9:34	0:01	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 9:34	0:02	SMRR	0.021	0.607	Oversupply
7/22/2018 9:35	0:01	KWPPII	0.014	12.861	Oversupply
7/22/2018 10:11	0:01	SMRR	0.000	2.739	Oversupply
7/22/2018 10:15	0:02	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:15	0:02	SMRR	0.051	1.175	Oversupply
7/22/2018 10:16	0:02	KWPPII	0.045	15.150	Oversupply
7/22/2018 10:20	0:05	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:20	0:05	KWPPII	0.249	17.951	Oversupply
7/22/2018 10:20	0:05	SMRR	0.119	1.517	Oversupply
7/22/2018 10:27	0:03	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:27	0:03	SMRR	0.072	0.335	Oversupply
7/22/2018 10:28	0:03	KWPPII	0.104	13.944	Oversupply
7/22/2018 10:31	0:01	SMRR	0.022	0.699	Oversupply
7/22/2018 10:31	0:01	SMRR	0.022	0.431	Oversupply
7/22/2018 10:34	0:03	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:34	0:02	SMRR	0.065	1.453	Oversupply
7/22/2018 10:35	0:02	KWPPII	0.053	14.283	Oversupply
7/22/2018 10:37	0:01	SMRR	0.022	0.025	Oversupply
7/22/2018 10:37	0:01	SMRR	0.022	0.851	Oversupply
7/22/2018 10:38	0:01	SMRR	0.022	1.029	Oversupply
7/22/2018 10:39	0:01	SMRR	0.022	0.873	Oversupply
7/22/2018 10:40	0:03	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:40	0:02	SMRR	0.065	1.952	Oversupply
7/22/2018 10:41	0:02	KWPPII	0.057	17.385	Oversupply
7/22/2018 10:46	0:01	SMRR	0.001	2.849	Oversupply
7/22/2018 10:51	0:02	SMRR	0.002	0.628	Oversupply
7/22/2018 10:53	0:01	SMRR	0.001	0.651	Oversupply
7/22/2018 10:54	0:01	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 10:54	0:02	KWPPII	0.034	13.416	Oversupply
7/22/2018 10:54	0:01	SMRR	0.001	0.026	Oversupply
7/22/2018 11:08	0:01	SMRR	0.010	0.948	Oversupply
7/22/2018 11:09	0:01	SMRR	0.010	0.269	Oversupply
7/22/2018 11:09	0:01	SMRR	0.010	0.030	Oversupply
7/22/2018 11:10	0:01	SMRR	0.010	0.999	Oversupply
7/22/2018 11:12	0:01	SMRR	0.010	2.380	Oversupply
7/22/2018 11:13	0:02	KWPPII	0.009	8.686	Oversupply
7/22/2018 11:13	0:01	SMRR	0.010	1.142	Oversupply
7/22/2018 11:13	0:01	SMRR	0.010	0.769	Oversupply
7/22/2018 11:14	0:01	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 11:14	0:01	SMRR	0.009	0.015	Oversupply
7/22/2018 11:23	0:01	SMRR	0.015	1.710	Oversupply
7/22/2018 11:24	0:02	BS250	Data is not available	Data is not available	Oversupply
7/22/2018 11:24	0:01	SMRR	0.015	1.272	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/22/2018 11:25	0:01	KWP/II	0.007	7.038	Oversupply
7/22/2018 11:25	0:01	SMRR	0.015	0.307	Oversupply
7/22/2018 11:25	0:01	SMRR	0.015	0.043	Oversupply
7/22/2018 11:28	0:01	SMRR	0.015	2.458	Oversupply
7/22/2018 11:29	0:01	SMRR	0.015	1.926	Oversupply
7/22/2018 11:29	0:01	SMRR	0.002	1.616	Oversupply
7/22/2018 11:46	0:01	SMRR	0.001	2.308	Oversupply
7/22/2018 20:16	0:01	AWE	0.002	0.100	Oversupply
7/23/2018 9:18	0:01	KWP/II	0.000	0.014	Oversupply
7/23/2018 11:08	0:01	KWP/II	0.000	0.011	Oversupply
7/23/2018 20:59	0:01	KWP/II	0.001	0.079	Oversupply
7/24/2018 4:01	0:02	KWP/II	0.033	9.719	Oversupply
7/24/2018 4:21	0:24	KWP/II	1.595	14.477	Oversupply
7/24/2018 4:46	0:13	KWP/II	0.420	12.316	Oversupply
7/24/2018 5:09	0:01	KWP/II	0.004	13.331	Oversupply
7/24/2018 5:42	0:04	KWP/II	0.279	12.932	Oversupply
7/24/2018 6:02	0:01	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 6:02	0:01	KWP/II	0.042	17.548	Oversupply
7/24/2018 6:18	0:01	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 6:27	0:01	SMRR	0.000	0.115	Oversupply
7/24/2018 6:28	0:01	KWP/II	0.003	11.267	Oversupply
7/24/2018 6:32	0:11	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 6:32	0:12	KWP/II	0.563	13.860	Oversupply
7/24/2018 6:32	0:11	SMRR	0.024	0.119	Oversupply
7/24/2018 7:02	0:01	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 7:02	0:01	SMRR	0.003	0.168	Oversupply
7/24/2018 7:07	0:07	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 7:07	2:17	SMRR	0.000	0.027	System Constraint
7/24/2018 7:08	2:16	KWP/II	37.329	20.708	System constraint
7/24/2018 7:11	0:11	AWE	0.490	16.500	System constraint
7/24/2018 7:22	2:02	BS250	Data is not available	Data is not available	System constraint
7/24/2018 7:25	0:01	AWE	0.003	16.100	Oversupply
7/24/2018 7:41	0:03	AWE	0.017	20.800	Oversupply
7/24/2018 7:46	0:04	AWE	0.070	18.700	Oversupply
7/24/2018 8:41	0:02	AWE	0.028	16.500	Oversupply
7/24/2018 8:50	0:01	AWE	0.000	18.500	Oversupply
7/24/2018 8:53	0:01	AWE	0.002	19.100	Oversupply
7/24/2018 8:55	0:05	AWE	0.051	20.100	Oversupply
7/24/2018 9:01	0:07	AWE	0.190	16.300	Oversupply
7/24/2018 9:16	0:04	AWE	0.149	15.000	Oversupply
7/24/2018 9:24	0:01	SMRR	0.022	0.324	Oversupply
7/24/2018 9:27	0:47	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 9:27	0:47	SMRR	1.694	1.172	Oversupply
7/24/2018 9:28	0:47	KWP/II	13.548	20.679	Oversupply
7/24/2018 9:39	0:09	AWE	0.265	18.700	System constraint
7/24/2018 9:42	0:03	KWP	0.072	23.938	System constraint
7/24/2018 9:53	0:13	AWE	0.884	18.000	Oversupply
7/24/2018 10:15	0:01	SMRR	0.027	0.324	Oversupply
7/24/2018 10:15	0:38	SMRR	1.516	0.054	Oversupply
7/24/2018 10:16	0:37	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 10:16	0:38	KWP/II	5.093	20.140	Oversupply
7/24/2018 10:54	1:29	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 10:54	0:10	SMRR	0.418	0.079	Oversupply
7/24/2018 10:55	1:28	KWP/II	19.599	20.655	Oversupply
7/24/2018 11:04	0:01	SMRR	0.035	0.012	Oversupply
7/24/2018 11:05	1:18	SMRR	3.331	0.002	Oversupply
7/24/2018 11:26	0:01	AWE	0.002	17.100	Oversupply
7/24/2018 11:38	0:03	AWE	0.013	15.700	Oversupply
7/24/2018 11:44	0:01	AWE	0.032	17.000	Oversupply
7/24/2018 12:04	0:04	AWE	0.137	15.400	Oversupply
7/24/2018 12:09	0:10	AWE	0.456	16.200	Oversupply
7/24/2018 12:25	0:25	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 12:25	0:26	KWP/II	7.078	20.302	Oversupply
7/24/2018 12:25	0:26	SMRR	1.157	1.243	Oversupply
7/24/2018 12:34	0:11	AWE	0.554	15.600	Oversupply
7/24/2018 12:51	0:10	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 12:51	0:01	SMRR	0.033	0.733	Oversupply
7/24/2018 12:51	0:10	SMRR	0.369	0.629	Oversupply
7/24/2018 12:52	0:09	KWP/II	1.592	20.438	Oversupply
7/24/2018 13:13	0:01	SMRR	0.005	1.368	Oversupply
7/24/2018 13:14	0:01	SMRR	0.008	1.213	Oversupply
7/24/2018 13:15	0:01	SMRR	0.009	0.566	Oversupply
7/24/2018 13:16	0:02	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 13:16	0:03	KWP/II	0.044	15.030	Oversupply
7/24/2018 13:16	0:02	SMRR	0.028	0.016	Oversupply
7/24/2018 13:27	0:03	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 13:27	0:03	SMRR	0.062	0.995	Oversupply
7/24/2018 13:28	0:03	KWP/II	0.175	13.641	Oversupply
7/24/2018 13:32	0:43	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 13:32	0:44	KWP/II	4.302	17.733	Oversupply
7/24/2018 13:32	0:44	SMRR	1.888	0.820	Oversupply
7/24/2018 14:15	0:01	SMRR	0.027	0.287	Oversupply
7/24/2018 14:16	0:01	SMRR	0.028	1.331	Oversupply
7/24/2018 14:17	0:02	BS250	Data is not available	Data is not available	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/24/2018 14:17	0:01	SMRR	0.027	1.174	Oversupply
7/24/2018 14:18	0:01	SMRR	0.027	0.314	Oversupply
7/24/2018 14:18	0:01	SMRR	0.027	0.067	Oversupply
7/24/2018 14:19	0:01	SMRR	0.027	0.278	Oversupply
7/24/2018 14:20	0:01	SMRR	0.027	0.100	Oversupply
7/24/2018 14:21	0:01	SMRR	0.027	1.113	Oversupply
7/24/2018 14:22	0:03	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 14:22	0:01	SMRR	0.027	0.832	Oversupply
7/24/2018 14:22	0:02	SMRR	0.082	0.012	Oversupply
7/24/2018 14:23	0:02	KWP/II	0.010	15.065	Oversupply
7/24/2018 14:25	0:01	SMRR	0.027	0.099	Oversupply
7/24/2018 14:25	0:01	SMRR	0.027	0.816	Oversupply
7/24/2018 14:26	0:01	SMRR	0.027	1.134	Oversupply
7/24/2018 14:27	0:01	SMRR	0.027	1.401	Oversupply
7/24/2018 14:28	0:01	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 14:28	0:08	KWP/II	0.206	15.598	Oversupply
7/24/2018 14:28	0:01	SMRR	0.027	0.945	Oversupply
7/24/2018 14:28	0:08	SMRR	0.230	0.107	Oversupply
7/24/2018 14:30	0:07	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 14:36	0:01	SMRR	0.022	0.226	Oversupply
7/24/2018 14:37	0:01	SMRR	0.022	0.123	Oversupply
7/24/2018 14:38	0:01	SMRR	0.022	0.831	Oversupply
7/24/2018 14:38	0:01	SMRR	0.022	0.862	Oversupply
7/24/2018 14:39	0:01	SMRR	0.022	0.857	Oversupply
7/24/2018 14:40	0:01	SMRR	0.022	1.322	Oversupply
7/24/2018 14:46	0:01	SMRR	0.023	2.807	Oversupply
7/24/2018 14:47	0:01	SMRR	0.022	2.195	Oversupply
7/24/2018 14:47	0:01	SMRR	0.023	1.351	Oversupply
7/24/2018 14:48	0:01	SMRR	0.023	0.442	Oversupply
7/24/2018 14:49	0:09	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 14:49	0:09	KWP/II	0.286	14.061	Oversupply
7/24/2018 14:49	0:09	SMRR	0.272	0.015	Oversupply
7/24/2018 14:58	0:01	SMRR	0.022	0.326	Oversupply
7/24/2018 14:59	0:01	SMRR	0.022	1.464	Oversupply
7/24/2018 15:02	0:05	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 15:02	0:01	SMRR	0.018	1.667	Oversupply
7/24/2018 15:03	0:04	KWP/II	0.080	14.659	Oversupply
7/24/2018 15:03	0:05	SMRR	0.110	1.041	Oversupply
7/24/2018 15:07	0:01	SMRR	0.018	0.801	Oversupply
7/24/2018 15:08	0:01	SMRR	0.018	1.064	Oversupply
7/24/2018 15:09	0:01	SMRR	0.019	0.910	Oversupply
7/24/2018 15:10	0:01	SMRR	0.018	0.958	Oversupply
7/24/2018 15:10	0:01	SMRR	0.018	0.894	Oversupply
7/24/2018 15:11	0:01	SMRR	0.018	1.644	Oversupply
7/24/2018 15:12	0:01	SMRR	0.019	1.221	Oversupply
7/24/2018 15:13	0:06	BS250	Data is not available	Data is not available	Oversupply
7/24/2018 15:13	0:07	KWP/II	0.179	16.383	Oversupply
7/24/2018 15:13	0:07	SMRR	0.120	0.213	Oversupply
7/24/2018 15:20	0:01	SMRR	0.011	0.672	Oversupply
7/24/2018 18:56	0:15	SMRR	0.369	0.014	Oversupply
7/24/2018 22:45	1:32	KWP/II	7.154	20.708	Oversupply
7/25/2018 0:34	1:10	KWP/II	10.454	20.708	Oversupply
7/25/2018 2:04	0:02	KWP/II	0.011	20.055	Oversupply
7/25/2018 2:08	0:01	KWP/II	0.006	19.522	Oversupply
7/25/2018 2:10	0:04	KWP/II	0.086	20.282	Oversupply
7/25/2018 2:16	0:23	KWP/II	1.571	20.643	Oversupply
7/25/2018 2:55	0:12	KWP/II	0.531	19.834	Oversupply
7/25/2018 3:26	9:57	KWP/II	178.899	20.708	Oversupply
7/25/2018 3:34	0:01	KWP	0.003	21.210	Oversupply
7/25/2018 3:37	0:26	AWE	2.163	19.800	Oversupply
7/25/2018 4:06	0:04	AWE	0.055	16.200	Oversupply
7/25/2018 4:15	0:02	AWE	0.026	15.900	Oversupply
7/25/2018 4:30	0:01	AWE	0.000	9.800	Oversupply
7/25/2018 4:36	0:08	AWE	0.097	13.100	Oversupply
7/25/2018 4:45	0:02	AWE	0.041	14.700	Oversupply
7/25/2018 5:12	1:36	AWE	11.838	18.600	Oversupply
7/25/2018 5:49	7:34	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 5:49	7:34	SMRR	11.412	0.000	Oversupply
7/25/2018 7:04	0:10	AWE	0.312	18.900	Oversupply
7/25/2018 7:15	0:06	AWE	0.125	18.500	Oversupply
7/25/2018 7:23	0:05	AWE	0.038	18.000	Oversupply
7/25/2018 7:29	2:12	AWE	11.686	20.000	Oversupply
7/25/2018 9:43	0:17	AWE	0.788	20.400	Oversupply
7/25/2018 10:01	0:02	AWE	0.029	19.200	Oversupply
7/25/2018 10:04	0:32	AWE	1.410	20.600	Oversupply
7/25/2018 10:38	0:01	AWE	0.003	20.800	Oversupply
7/25/2018 10:55	0:11	AWE	0.208	20.200	Oversupply
7/25/2018 11:09	0:01	AWE	0.004	19.700	Oversupply
7/25/2018 11:12	0:16	AWE	0.506	19.900	Oversupply
7/25/2018 11:29	0:03	AWE	0.030	19.500	Oversupply
7/25/2018 11:33	0:01	AWE	0.009	19.500	Oversupply
7/25/2018 11:35	0:01	AWE	0.000	20.000	Oversupply
7/25/2018 12:06	0:01	AWE	0.006	20.100	Oversupply
7/25/2018 12:08	0:01	AWE	0.003	19.400	Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/25/2018 12:16	0:02	AWE		0.007	20.300 Oversupply
7/25/2018 12:24	0:02	AWE		0.019	20.100 Oversupply
7/25/2018 12:29	0:07	AWE	0.223	19.900	Oversupply
7/25/2018 12:38	0:03	AWE	0.020	19.000	Oversupply
7/25/2018 12:44	0:02	AWE		0.007	19.700 Oversupply
7/25/2018 12:52	0:27	AWE		1.964	19.200 Oversupply
7/25/2018 13:25	0:26	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 13:25	0:27	KWP/II		3.032	19.446 Oversupply
7/25/2018 13:25	0:26	SMRR		0.591	0.928 Oversupply
7/25/2018 13:51	0:01	SMRR		0.008	0.102 Oversupply
7/25/2018 13:55	0:01	SMRR		0.008	0.541 Oversupply
7/25/2018 13:56	0:01	SMRR		0.008	0.647 Oversupply
7/25/2018 13:57	0:01	SMRR		0.008	0.564 Oversupply
7/25/2018 13:58	0:01	SMRR		0.008	0.665 Oversupply
7/25/2018 13:59	0:05	SMRR		0.062	0.568 Oversupply
7/25/2018 14:00	0:04	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 14:01	0:03	KWP/II		0.032	19.686 Oversupply
7/25/2018 14:06	0:01	SMRR		0.011	1.132 Oversupply
7/25/2018 14:06	0:01	SMRR		0.011	1.133 Oversupply
7/25/2018 14:07	0:04	SMRR		0.057	0.708 Oversupply
7/25/2018 14:08	0:03	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 14:08	0:02	KWP/II		0.040	19.662 Oversupply
7/25/2018 14:11	0:01	SMRR		0.011	0.566 Oversupply
7/25/2018 15:35	0:04	KWP/II		0.077	20.154 Oversupply
7/25/2018 15:35	0:04	SMRR		0.020	0.890 Oversupply
7/25/2018 15:36	0:03	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 15:40	0:01	KWP/II	0.042	19.636	Oversupply
7/25/2018 15:43	0:01	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 15:43	0:01	SMRR		0.004	0.092 Oversupply
7/25/2018 15:44	0:01	KWP/II		0.031	19.563 Oversupply
7/25/2018 15:48	0:06	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 15:48	0:06	KWP/II	0.236	20.289	Oversupply
7/25/2018 15:48	0:06	SMRR		0.070	0.140 Oversupply
7/25/2018 15:55	0:24	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 15:56	0:20	KWP/II	1.205	20.487	Oversupply
7/25/2018 15:56	0:24	SMRR		0.333	0.076 Oversupply
7/25/2018 16:17	0:03	KWP/II		0.061	20.425 Oversupply
7/25/2018 16:25	0:01	SMRR		0.005	0.136 Oversupply
7/25/2018 16:29	0:01	SMRR		0.000	0.701 Oversupply
7/25/2018 16:30	0:01	SMRR		0.000	0.971 Oversupply
7/25/2018 16:36	0:01	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 16:36	0:02	SMRR		0.000	0.982 Oversupply
7/25/2018 16:37	0:01	KWP/II	0.004	19.809	Oversupply
7/25/2018 16:47	0:01	SMRR		0.001	0.805 Oversupply
7/25/2018 16:53	0:01	BS250	Data is not available	Data is not available	Oversupply
7/25/2018 16:53	0:01	SMRR		0.001	0.820 Oversupply
7/25/2018 22:10	0:03	KWP/II	0.022	20.700	Oversupply
7/25/2018 23:42	0:01	KWP/II		0.002	19.437 Oversupply
7/25/2018 23:44	1:50	KWP/II		10.692	20.708 Oversupply
7/26/2018 1:36	0:23	KWP/II		1.128	19.575 Oversupply
7/26/2018 2:08	0:56	KWP/II		4.680	19.292 Oversupply
7/26/2018 5:03	0:02	KWP/II		0.009	10.092 Oversupply
7/26/2018 5:06	0:01	AWE		0.013	13.400 Oversupply
7/26/2018 5:06	1:11	KWP/II		6.026	18.407 Oversupply
7/26/2018 5:07	0:14	KWP		1.468	19.232 Oversupply
7/26/2018 5:27	0:01	AWE		0.003	19.000 Oversupply
7/26/2018 5:49	0:26	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 7:51	0:01	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 7:51	0:01	SMRR		0.007	0.683 Oversupply
7/26/2018 7:52	0:01	KWP/II		0.007	7.977 Oversupply
7/26/2018 7:52	0:01	SMRR		0.007	-0.003 Oversupply
7/26/2018 7:52	0:02	SMRR		0.014	0.255 Oversupply
7/26/2018 7:54	0:27	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 7:54	0:27	KWP/II		1.903	16.280 Oversupply
7/26/2018 7:54	0:27	SMRR		0.411	0.033 Oversupply
7/26/2018 8:21	0:01	SMRR		0.014	-0.003 Oversupply
7/26/2018 8:21	0:01	SMRR		0.014	-0.003 Oversupply
7/26/2018 8:22	0:01	SMRR		0.014	-0.003 Oversupply
7/26/2018 8:25	0:01	SMRR		0.014	0.426 Oversupply
7/26/2018 8:27	0:01	SMRR		0.014	1.126 Oversupply
7/26/2018 8:50	0:01	SMRR		0.000	1.212 Oversupply
7/26/2018 8:51	0:01	SMRR		0.000	1.055 Oversupply
7/26/2018 10:07	0:01	SMRR		0.004	1.867 Oversupply
7/26/2018 10:08	0:01	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 10:08	0:01	SMRR		0.004	0.750 Oversupply
7/26/2018 10:08	0:02	SMRR		0.008	0.318 Oversupply
7/26/2018 10:09	0:01	KWP/II		0.003	15.498 Oversupply
7/26/2018 10:11	1:03	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 10:11	0:01	SMRR		0.004	-0.004 Oversupply
7/26/2018 10:11	0:02	SMRR		0.008	-0.004 Oversupply
7/26/2018 10:12	0:01	KWP/II		0.014	15.789 Oversupply
7/26/2018 10:13	0:01	SMRR		0.004	-0.004 Oversupply
7/26/2018 10:14	0:58	KWP/II		7.315	19.377 Oversupply
7/26/2018 10:14	0:58	SMRR		2.333	-0.003 Oversupply



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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/26/2018 11:12	0:01	SMRR	0.035	-0.004	Oversupply
7/26/2018 11:13	0:02	SMRR	0.069	-0.004	Oversupply
7/26/2018 11:14	0:01	SMRR	0.032	-0.004	Oversupply
7/26/2018 11:15	0:01	SMRR	0.028	-0.004	Oversupply
7/26/2018 11:16	0:01	SMRR	0.028	0.234	Oversupply
7/26/2018 11:19	0:01	SMRR	0.028	2.136	Oversupply
7/26/2018 11:20	0:02	KWPPI	0.026	14.608	Oversupply
7/26/2018 11:20	0:01	SMRR	0.028	0.882	Oversupply
7/26/2018 11:21	0:03	BS250	Data is not available	Data is not available	Oversupply
7/26/2018 11:21	0:03	SMRR	0.113	0.026	Oversupply
7/26/2018 11:23	0:01	KWPPI	0.010	14.682	Oversupply
7/26/2018 11:24	0:01	SMRR	0.028	-0.004	Oversupply
7/26/2018 11:25	0:01	SMRR	0.028	-0.004	Oversupply
7/26/2018 11:25	0:01	SMRR	0.028	-0.004	Oversupply
7/26/2018 11:26	0:01	SMRR	0.028	-0.004	Oversupply
7/26/2018 11:27	0:01	SMRR	0.028	0.199	Oversupply
7/26/2018 11:28	0:01	SMRR	0.028	0.640	Oversupply
7/26/2018 11:29	0:01	SMRR	0.028	1.138	Oversupply
7/26/2018 11:29	0:01	SMRR	0.013	1.585	Oversupply
7/26/2018 11:30	0:01	SMRR	0.006	1.760	Oversupply
7/27/2018 6:30	0:01	KWPPI	0.001	0.047	Oversupply
7/27/2018 7:20	0:01	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 7:21	0:01	SMRR	0.001	0.531	Oversupply
7/27/2018 8:58	0:01	SMRR	0.001	1.454	Oversupply
7/27/2018 9:00	0:01	SMRR	0.020	0.485	Oversupply
7/27/2018 9:01	0:18	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 9:01	0:01	KWPPI	0.008	6.517	Oversupply
7/27/2018 9:01	0:01	SMRR	0.020	0.130	Oversupply
7/27/2018 9:01	0:01	SMRR	0.020	0.133	Oversupply
7/27/2018 9:02	0:01	SMRR	0.020	0.355	Oversupply
7/27/2018 9:03	0:01	KWPPI	0.010	5.427	Oversupply
7/27/2018 9:03	0:17	SMRR	0.448	0.015	Oversupply
7/27/2018 9:05	0:15	KWPPI	0.211	6.369	Oversupply
7/27/2018 9:20	0:01	SMRR	0.021	0.356	Oversupply
7/27/2018 9:20	0:01	SMRR	0.022	0.696	Oversupply
7/27/2018 9:22	0:04	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 9:22	0:04	SMRR	0.109	1.103	Oversupply
7/27/2018 9:24	0:02	KWPPI	0.031	5.183	Oversupply
7/27/2018 9:26	0:01	SMRR	0.022	0.296	Oversupply
7/27/2018 9:27	0:02	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 9:27	0:01	SMRR	0.021	0.312	Oversupply
7/27/2018 9:27	0:01	SMRR	0.022	0.327	Oversupply
7/27/2018 9:28	0:01	SMRR	0.022	0.155	Oversupply
7/27/2018 9:29	0:01	SMRR	0.018	0.344	Oversupply
7/27/2018 9:41	0:01	SMRR	0.003	1.505	Oversupply
7/27/2018 9:42	0:01	SMRR	0.003	1.427	Oversupply
7/27/2018 9:43	0:01	SMRR	0.003	2.065	Oversupply
7/27/2018 9:43	0:04	SMRR	0.060	1.173	Oversupply
7/27/2018 9:44	0:03	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 9:44	0:03	KWPPI	0.027	2.465	Oversupply
7/27/2018 9:47	0:01	SMRR	0.016	0.244	Oversupply
7/27/2018 9:48	0:03	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 9:48	0:01	SMRR	0.016	0.305	Oversupply
7/27/2018 9:49	0:03	KWPPI	0.029	3.943	Oversupply
7/27/2018 9:49	0:03	SMRR	0.062	0.030	Oversupply
7/27/2018 9:52	0:01	SMRR	0.016	0.284	Oversupply
7/27/2018 9:59	0:01	SMRR	0.017	1.014	Oversupply
7/27/2018 10:00	0:01	SMRR	0.014	0.930	Oversupply
7/27/2018 10:01	0:01	SMRR	0.014	0.656	Oversupply
7/27/2018 10:02	0:01	SMRR	0.014	1.294	Oversupply
7/27/2018 10:03	0:01	SMRR	0.014	0.924	Oversupply
7/27/2018 10:03	0:01	SMRR	0.014	0.904	Oversupply
7/27/2018 10:07	1:52	BS250	Data is not available	Data is not available	Oversupply
7/27/2018 10:07	0:01	SMRR	0.014	0.533	Oversupply
7/27/2018 10:08	0:01	SMRR	0.014	0.266	Oversupply
7/27/2018 10:09	1:50	KWPPI	11.689	12.268	Oversupply
7/27/2018 10:09	1:50	SMRR	4.277	0.029	Oversupply
7/27/2018 10:21	0:19	AWE	0.509	21.000	Oversupply
7/27/2018 11:13	0:02	AWE	0.011	20.800	Oversupply
7/27/2018 11:16	0:28	AWE	1.133	21.000	Oversupply
7/27/2018 11:45	0:12	AWE	0.301	20.900	Oversupply
7/27/2018 11:59	0:01	SMRR	0.036	0.161	Oversupply
7/27/2018 11:59	0:01	SMRR	0.016	0.995	Oversupply
7/27/2018 12:00	0:01	SMRR	0.009	1.103	Oversupply
7/28/2018 1:27	2:52	KWPPI	15.754	20.684	Oversupply
7/28/2018 6:05	0:01	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 6:06	0:01	KWPPI	0.006	19.566	Oversupply
7/28/2018 6:07	0:04	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 6:08	0:03	KWPPI	0.101	20.271	Oversupply
7/28/2018 6:51	0:02	SMRR	0.004	0.287	Oversupply
7/28/2018 6:52	0:01	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 6:52	0:01	KWPPI	0.005	20.580	Oversupply
7/28/2018 6:54	0:04	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 6:54	0:01	SMRR	0.002	0.315	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/28/2018 6:55	0:03	KWP/II	0.031	20.516	Oversupply
7/28/2018 6:55	0:03	SMRR	0.007	0.002	Oversupply
7/28/2018 7:18	0:01	SMRR	0.006	0.248	Oversupply
7/28/2018 7:19	0:31	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 7:19	0:32	SMRR	0.327	0.008	Oversupply
7/28/2018 7:22	0:29	KWP/II	1.708	20.708	Oversupply
7/28/2018 8:33	0:01	SMRR	0.003	1.343	Oversupply
7/28/2018 8:46	0:01	SMRR	0.012	1.206	Oversupply
7/28/2018 8:48	0:01	SMRR	0.012	1.666	Oversupply
7/28/2018 8:49	0:01	SMRR	0.012	1.541	Oversupply
7/28/2018 8:51	0:49	KWP/II	3.626	20.652	Oversupply
7/28/2018 8:51	0:49	SMRR	1.367	0.707	Oversupply
7/28/2018 8:52	0:48	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 9:40	0:01	SMRR	0.023	0.712	Oversupply
7/28/2018 9:41	0:01	SMRR	0.022	0.946	Oversupply
7/28/2018 9:42	0:01	SMRR	0.023	0.825	Oversupply
7/28/2018 9:42	0:01	SMRR	0.023	0.896	Oversupply
7/28/2018 9:43	0:01	SMRR	0.023	0.898	Oversupply
7/28/2018 9:51	0:01	SMRR	0.011	2.256	Oversupply
7/28/2018 9:52	0:01	SMRR	0.011	1.504	Oversupply
7/28/2018 9:53	0:01	SMRR	0.011	1.978	Oversupply
7/28/2018 9:54	0:03	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 9:54	0:01	SMRR	0.011	1.223	Oversupply
7/28/2018 9:55	0:02	KWP/II	0.032	20.000	Oversupply
7/28/2018 9:55	0:03	SMRR	0.044	0.531	Oversupply
7/28/2018 9:58	0:01	SMRR	0.011	0.708	Oversupply
7/28/2018 9:58	0:01	SMRR	0.011	0.804	Oversupply
7/28/2018 9:59	0:22	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 9:59	0:04	SMRR	0.137	0.556	Oversupply
7/28/2018 10:00	0:03	KWP/II	0.065	19.858	Oversupply
7/28/2018 10:03	0:01	SMRR	0.030	0.022	Oversupply
7/28/2018 10:04	0:18	KWP/II	0.649	20.533	Oversupply
7/28/2018 10:04	0:18	SMRR	0.639	0.014	Oversupply
7/28/2018 10:21	0:01	SMRR	0.025	0.070	Oversupply
7/28/2018 10:22	0:01	SMRR	0.025	0.856	Oversupply
7/28/2018 10:23	0:01	SMRR	0.025	1.003	Oversupply
7/28/2018 10:24	0:01	SMRR	0.025	0.793	Oversupply
7/28/2018 10:24	0:01	SMRR	0.024	0.686	Oversupply
7/28/2018 10:25	0:01	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 10:25	0:01	SMRR	0.025	0.868	Oversupply
7/28/2018 10:26	0:01	SMRR	0.025	0.606	Oversupply
7/28/2018 10:27	0:01	SMRR	0.025	1.390	Oversupply
7/28/2018 10:27	0:01	SMRR	0.024	1.244	Oversupply
7/28/2018 10:28	0:49	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 10:28	0:01	SMRR	0.025	0.505	Oversupply
7/28/2018 10:29	0:48	KWP/II	2.218	20.566	Oversupply
7/28/2018 10:29	0:48	SMRR	1.714	0.022	Oversupply
7/28/2018 11:17	0:01	SMRR	0.033	0.671	Oversupply
7/28/2018 11:18	0:01	SMRR	0.033	1.205	Oversupply
7/28/2018 11:19	2:50	BS250	Data is not available	Data is not available	Oversupply
7/28/2018 11:19	0:08	KWP/II	0.169	19.620	Oversupply
7/28/2018 11:19	0:07	SMRR	0.296	0.893	Oversupply
7/28/2018 11:25	0:01	SMRR	0.032	0.066	Oversupply
7/28/2018 11:26	0:01	SMRR	0.033	0.271	Oversupply
7/28/2018 11:27	0:01	SMRR	0.033	0.057	Oversupply
7/28/2018 11:28	0:01	SMRR	0.033	0.004	Oversupply
7/28/2018 11:29	2:39	SMRR	6.901	0.013	Oversupply
7/28/2018 11:29	2:38	KWP/II	14.975	20.699	Oversupply
7/28/2018 14:07	0:01	SMRR	0.028	0.048	Oversupply
7/28/2018 14:08	0:01	SMRR	0.028	0.037	Oversupply
7/28/2018 14:09	0:01	SMRR	0.028	0.225	Oversupply
7/28/2018 14:10	0:01	SMRR	0.028	1.121	Oversupply
7/28/2018 14:11	0:01	SMRR	0.028	1.433	Oversupply
7/28/2018 14:12	0:01	SMRR	0.028	0.709	Oversupply
7/28/2018 14:13	0:01	SMRR	0.028	1.532	Oversupply
7/28/2018 15:09	0:01	SMRR	0.002	2.302	Oversupply
7/29/2018 1:09	0:13	KWP/II	0.326	20.708	Oversupply
7/29/2018 2:14	0:07	KWP/II	0.078	20.708	Oversupply
7/29/2018 2:41	1:59	KWP/II	12.428	20.708	Oversupply
7/29/2018 4:42	0:21	KWP/II	0.933	20.708	Oversupply
7/29/2018 5:28	0:03	KWP/II	0.036	20.708	Oversupply
7/29/2018 5:32	0:03	KWP/II	0.014	20.703	Oversupply
7/29/2018 7:42	1:17	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 7:42	1:16	SMRR	1.524	0.735	Oversupply
7/29/2018 7:43	1:15	KWP/II	10.359	20.708	Oversupply
7/29/2018 9:02	0:01	SMRR	0.012	0.923	Oversupply
7/29/2018 9:06	0:01	SMRR	0.012	0.629	Oversupply
7/29/2018 9:07	0:13	SMRR	0.269	0.016	Oversupply
7/29/2018 9:08	0:13	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 9:08	0:15	KWP/II	0.664	20.244	Oversupply
7/29/2018 9:20	0:01	SMRR	0.022	0.078	Oversupply
7/29/2018 9:21	0:02	SMRR	0.064	0.058	Oversupply
7/29/2018 9:22	0:03	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 9:23	0:01	SMRR	0.022	0.306	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/29/2018 9:24	0:01	SMRR	0.021	0.106	Oversupply
7/29/2018 9:25	0:01	SMRR	0.022	0.298	Oversupply
7/29/2018 9:27	1:32	SMRR	3.214	0.618	Oversupply
7/29/2018 9:28	1:32	KWPPI	7.445	20.708	Oversupply
7/29/2018 9:29	1:30	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 10:59	0:01	SMRR	0.032	0.264	Oversupply
7/29/2018 10:59	0:01	SMRR	0.011	0.724	Oversupply
7/29/2018 11:01	0:01	SMRR	0.008	2.300	Oversupply
7/29/2018 11:02	0:01	SMRR	0.008	2.210	Oversupply
7/29/2018 11:05	0:01	SMRR	0.008	2.751	Oversupply
7/29/2018 11:06	0:01	SMRR	0.008	2.267	Oversupply
7/29/2018 11:07	0:01	SMRR	0.008	2.243	Oversupply
7/29/2018 11:08	0:01	SMRR	0.008	2.008	Oversupply
7/29/2018 11:09	0:01	SMRR	0.008	1.942	Oversupply
7/29/2018 11:09	0:01	SMRR	0.008	2.245	Oversupply
7/29/2018 11:10	0:01	SMRR	0.008	2.282	Oversupply
7/29/2018 11:11	0:01	SMRR	0.008	1.697	Oversupply
7/29/2018 11:12	0:01	SMRR	0.008	1.203	Oversupply
7/29/2018 11:12	0:01	SMRR	0.008	1.655	Oversupply
7/29/2018 11:13	0:01	SMRR	0.008	1.128	Oversupply
7/29/2018 11:14	0:01	SMRR	0.012	1.606	Oversupply
7/29/2018 11:15	0:01	SMRR	0.019	1.386	Oversupply
7/29/2018 11:17	0:01	SMRR	0.019	1.162	Oversupply
7/29/2018 11:19	0:01	SMRR	0.019	0.364	Oversupply
7/29/2018 11:19	0:01	SMRR	0.018	0.064	Oversupply
7/29/2018 11:20	0:01	KWPPI	0.004	20.627	Oversupply
7/29/2018 11:20	0:01	SMRR	0.019	0.378	Oversupply
7/29/2018 11:21	0:01	SMRR	0.019	0.294	Oversupply
7/29/2018 11:22	0:01	SMRR	0.019	0.720	Oversupply
7/29/2018 11:22	0:01	SMRR	0.018	0.449	Oversupply
7/29/2018 11:23	0:01	SMRR	0.019	0.050	Oversupply
7/29/2018 11:24	0:01	SMRR	0.019	1.128	Oversupply
7/29/2018 11:25	0:01	SMRR	0.019	0.495	Oversupply
7/29/2018 11:25	0:01	SMRR	0.019	1.026	Oversupply
7/29/2018 11:26	0:01	SMRR	0.018	1.040	Oversupply
7/29/2018 11:27	0:02	SMRR	0.037	0.056	Oversupply
7/29/2018 11:28	0:04	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 11:28	0:02	SMRR	0.046	0.071	Oversupply
7/29/2018 11:31	0:01	KWPPI	0.003	20.698	Oversupply
7/29/2018 11:31	0:01	SMRR	0.010	0.020	Oversupply
7/29/2018 11:31	0:01	SMRR	0.010	0.335	Oversupply
7/29/2018 11:51	0:01	SMRR	-0.003	1.988	Oversupply
7/29/2018 12:00	0:01	SMRR	0.017	1.549	Oversupply
7/29/2018 12:01	1:15	SMRR	3.104	0.630	Oversupply
7/29/2018 12:02	1:15	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 12:04	1:14	KWPPI	6.634	20.703	Oversupply
7/29/2018 13:16	0:01	SMRR	0.027	0.060	Oversupply
7/29/2018 13:17	0:01	SMRR	0.027	0.594	Oversupply
7/29/2018 13:18	0:01	SMRR	0.027	0.970	Oversupply
7/29/2018 13:18	0:01	SMRR	0.026	0.946	Oversupply
7/29/2018 13:19	0:01	SMRR	0.027	0.985	Oversupply
7/29/2018 13:20	0:01	SMRR	0.027	0.737	Oversupply
7/29/2018 13:21	0:03	BS250	Data is not available	Data is not available	Oversupply
7/29/2018 13:21	0:02	KWPPI	0.018	20.041	Oversupply
7/29/2018 13:21	0:02	SMRR	0.053	0.069	Oversupply
7/29/2018 13:22	0:01	SMRR	0.027	0.396	Oversupply
7/29/2018 13:23	0:01	SMRR	0.027	0.498	Oversupply
7/29/2018 13:24	0:01	SMRR	0.027	0.657	Oversupply
7/29/2018 13:24	0:02	SMRR	0.055	0.629	Oversupply
7/29/2018 13:26	0:01	KWPPI	0.009	20.511	Oversupply
7/29/2018 13:26	0:01	SMRR	0.027	0.724	Oversupply
7/29/2018 13:27	0:01	SMRR	0.027	1.620	Oversupply
7/29/2018 13:34	0:01	SMRR	0.002	2.464	Oversupply
7/29/2018 13:41	0:01	SMRR	0.002	2.594	Oversupply
7/29/2018 13:41	0:01	SMRR	0.002	2.440	Oversupply
7/30/2018 5:34	0:01	KWPPI	0.005	17.505	Oversupply
7/31/2018 0:11	0:01	KWPPI	0.000	0.007	Oversupply
7/31/2018 10:43	0:01	SMRR	0.001	2.471	Oversupply
7/31/2018 11:12	0:01	SMRR	0.003	1.899	Oversupply
7/31/2018 11:13	0:01	SMRR	0.003	1.774	Oversupply
7/31/2018 11:13	0:01	SMRR	0.002	0.624	Oversupply
7/31/2018 11:14	0:02	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 11:14	0:01	SMRR	0.011	0.034	Oversupply
7/31/2018 11:15	0:01	SMRR	0.025	0.287	Oversupply
7/31/2018 11:16	0:01	SMRR	0.025	1.152	Oversupply
7/31/2018 11:16	0:01	SMRR	0.025	0.095	Oversupply
7/31/2018 11:17	0:02	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 11:17	0:01	SMRR	0.025	0.162	Oversupply
7/31/2018 11:18	0:01	SMRR	0.025	0.026	Oversupply
7/31/2018 11:19	0:01	KWPPI	0.004	10.404	Oversupply
7/31/2018 11:19	0:01	SMRR	0.025	0.372	Oversupply
7/31/2018 11:19	0:01	SMRR	0.026	0.830	Oversupply
7/31/2018 11:20	0:01	SMRR	0.025	1.203	Oversupply
7/31/2018 11:21	0:01	SMRR	0.025	1.176	Oversupply



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/31/2018 11:22	0:01	SMRR	0.025	1.800	Oversupply
7/31/2018 11:23	0:01	SMRR	0.025	1.162	Oversupply
7/31/2018 11:24	0:01	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 11:24	0:01	SMRR	0.025	0.578	Oversupply
7/31/2018 11:25	0:01	SMRR	0.025	0.278	Oversupply
7/31/2018 11:26	0:01	SMRR	0.025	0.094	Oversupply
7/31/2018 11:26	0:01	SMRR	0.025	0.084	Oversupply
7/31/2018 11:27	0:01	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 11:27	0:01	SMRR	0.025	0.032	Oversupply
7/31/2018 11:28	0:01	SMRR	0.025	1.249	Oversupply
7/31/2018 11:29	0:10	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 11:29	0:10	SMRR	0.353	0.328	Oversupply
7/31/2018 11:30	0:09	KWP/II	0.213	11.007	Oversupply
7/31/2018 11:38	0:01	SMRR	0.027	0.250	Oversupply
7/31/2018 11:41	0:01	SMRR	0.028	1.802	Oversupply
7/31/2018 11:42	0:01	SMRR	0.028	1.475	Oversupply
7/31/2018 11:42	0:01	SMRR	0.028	1.505	Oversupply
7/31/2018 12:52	0:01	SMRR	0.012	1.517	Oversupply
7/31/2018 12:53	1:33	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 12:53	0:01	SMRR	0.012	1.537	Oversupply
7/31/2018 12:53	1:33	SMRR	2.707	0.397	Oversupply
7/31/2018 12:54	1:33	KWP/II	13.629	20.402	Oversupply
7/31/2018 14:27	0:01	SMRR	0.026	0.791	Oversupply
7/31/2018 14:27	0:01	SMRR	0.026	1.475	Oversupply
7/31/2018 14:28	0:01	SMRR	0.026	1.488	Oversupply
7/31/2018 14:29	0:01	SMRR	0.025	0.446	Oversupply
7/31/2018 14:30	0:01	SMRR	0.015	1.345	Oversupply
7/31/2018 14:31	0:05	SMRR	0.089	0.090	Oversupply
7/31/2018 14:32	0:04	BS250	Data is not available	Data is not available	Oversupply
7/31/2018 14:32	0:03	KWP/II	0.028	20.272	Oversupply
7/31/2018 14:36	0:01	KWP/II	0.007	19.680	Oversupply
7/31/2018 14:36	0:01	SMRR	0.015	0.554	Oversupply
7/31/2018 14:36	0:01	SMRR	0.015	0.768	Oversupply
7/31/2018 14:37	0:01	SMRR	0.015	0.632	Oversupply
7/31/2018 14:38	0:01	SMRR	0.015	0.872	Oversupply
7/31/2018 14:39	0:01	SMRR	0.015	1.042	Oversupply
7/31/2018 14:40	0:01	SMRR	0.015	1.657	Oversupply
7/31/2018 16:08	0:01	SMRR	0.001	0.802	Oversupply
7/31/2018 16:10	0:06	KWP/II	0.245	18.478	System constraint
7/31/2018 16:11	0:01	KWP	0.027	19.706	System constraint
Total Estimated Curtailed MWh			1,838.134		

Notes:

Bioreal Solar 250, LLC ("BS250"), Extra Spaces A ("ESA"), Extra Spaces B ("ESB"), and South Maui Renewable Resources ("SMRR") 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.

- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information provided by AWE, KWP, KWP/II, and SMRR. Maui Electric does not make any representation as to its accuracy.
- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, BS, BS 250, ESA, ESB, and MH.
- The ESA and ESB facilities were offline for the entire month of July and, therefore, do not appear in this month's curtailment report.
- Curtailment signals sent to 5A, BS, BS250, ESA, ESB, or SMRR 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.



Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
7/3/2018 8:30	0:03	LSR	Data is not available	Data is not available	Oversupply
7/3/2018 9:28	0:28	LSR	Data is not available	Data is not available	Oversupply
7/3/2018 12:01	0:09	LSR	Data is not available	Data is not available	Oversupply
7/9/2018 6:27	0:10	LSR	Data is not available	Data is not available	Oversupply
7/9/2018 9:04	0:30	LSR	Data is not available	Data is not available	Oversupply
7/9/2018 12:41	0:19	LSR	Data is not available	Data is not available	Oversupply
7/10/2018 12:20	0:01	LSR	Data is not available	Data is not available	Oversupply
7/10/2018 16:23	2:27	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 6:15	0:15	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 7:52	0:11	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 11:43	0:03	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 11:52	0:02	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 11:55	0:04	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:00	0:03	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:11	0:02	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:15	0:05	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:22	0:04	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:31	0:15	LSR	Data is not available	Data is not available	Oversupply
7/11/2018 12:51	0:11	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 7:38	0:03	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 7:43	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 7:46	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 7:48	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 7:52	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:01	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:04	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:06	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:11	0:05	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:23	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:26	0:04	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:31	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:34	0:05	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:46	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:49	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:51	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:53	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 8:57	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 9:06	0:04	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 9:12	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 9:16	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 9:26	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 10:44	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 10:56	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2018 15:21	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2018 7:34	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2018 7:57	0:11	LSR	Data is not available	Data is not available	Oversupply
7/13/2018 8:34	5:34	LSR	Data is not available	Data is not available	Oversupply
7/13/2018 15:33	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 July 2018

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released ¹	IPP	Reason for Curtailment
07/26/18 08:38	5.5 MW	07/26/18 13:51	4.1 MW	Hawi Renewable Develop	System constraint
07/31/18 07:09	19.9 MW	07/31/18 08:22	19.1 MW	Pakini Nui Windfarm	System constraint
07/31/18 14:17	19.3 MW	07/31/18 14:50	19.0 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.

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