



2015 OCT 26 P 4: 09

PUT LIP INTILITIES

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

Dear Commissioners:

Subject: Docket No. 2011-0206

Reliability Standards Working Group

Monthly Report

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies' monthly report for September 2015 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 Company is providing a compact disc ("CD") containing the electronic files to both the Commission and the Consumer Advocate. Copies of the CD will be available to any Party to this proceeding. Interested Parties should email Marisa Chun at <a href="mailto:marisa.chun@heco.com">marisa.chun@heco.com</a> to request a copy.

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

Sincerely,

Daniel G. Brown

Manager

Regulatory Non-Rate Proceedings

Enclosure

cc: Service List

<sup>&</sup>lt;sup>1</sup> Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc., and Maui Electric Company, Limited are collectively referred to as the "Hawaiian Electric Companies" or "Companies".

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

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

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending September 30, 2015):

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

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

# <u>1b)</u> 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 September 30, 2015):

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

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

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

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

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

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

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

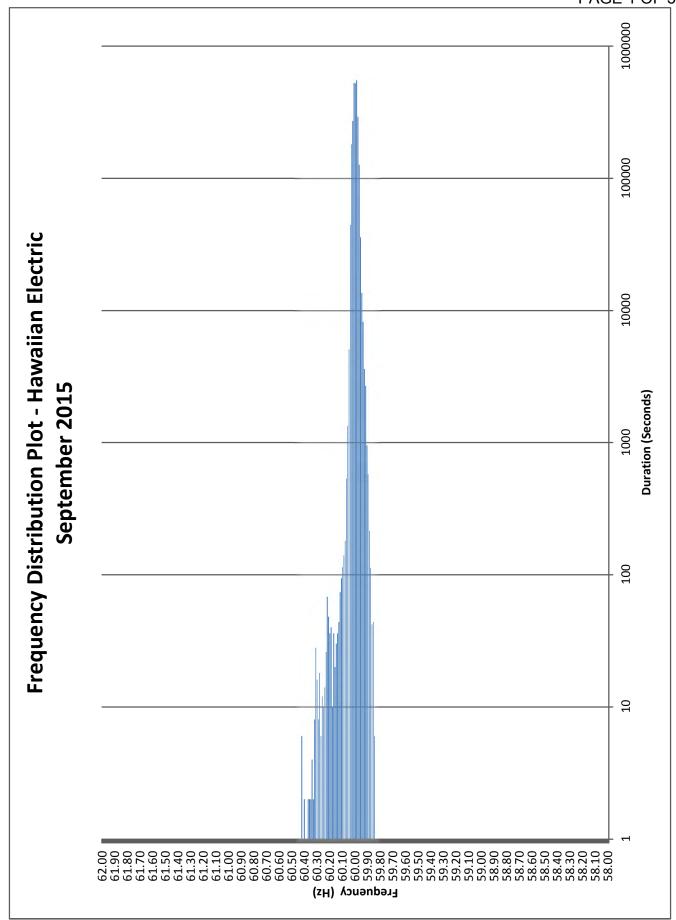
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending September 30, 2015):

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

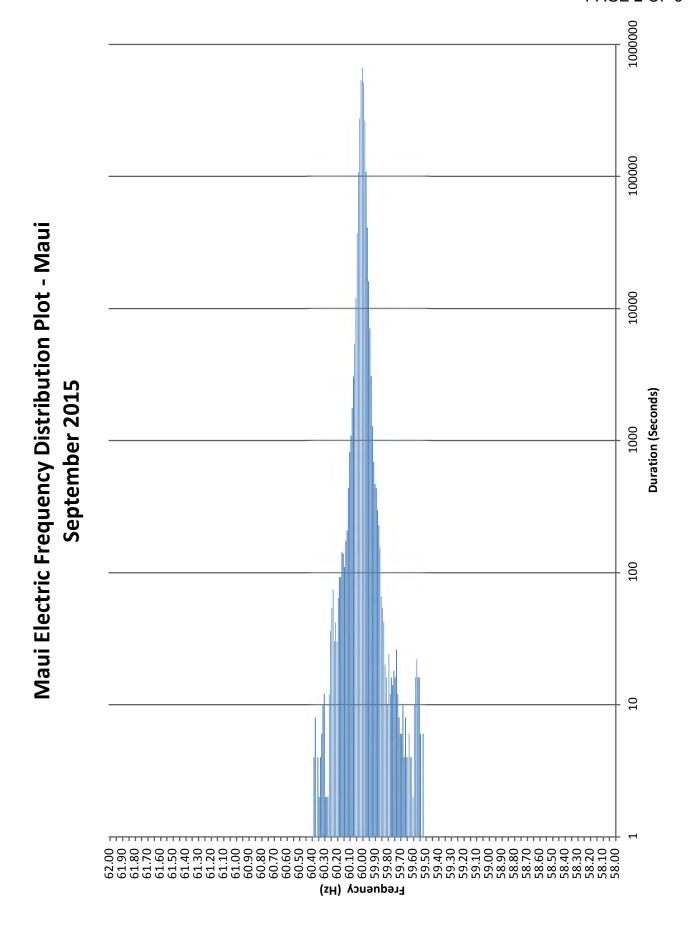
The tabulation of each curtailment event for each resource is provided in Attachment 6.

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

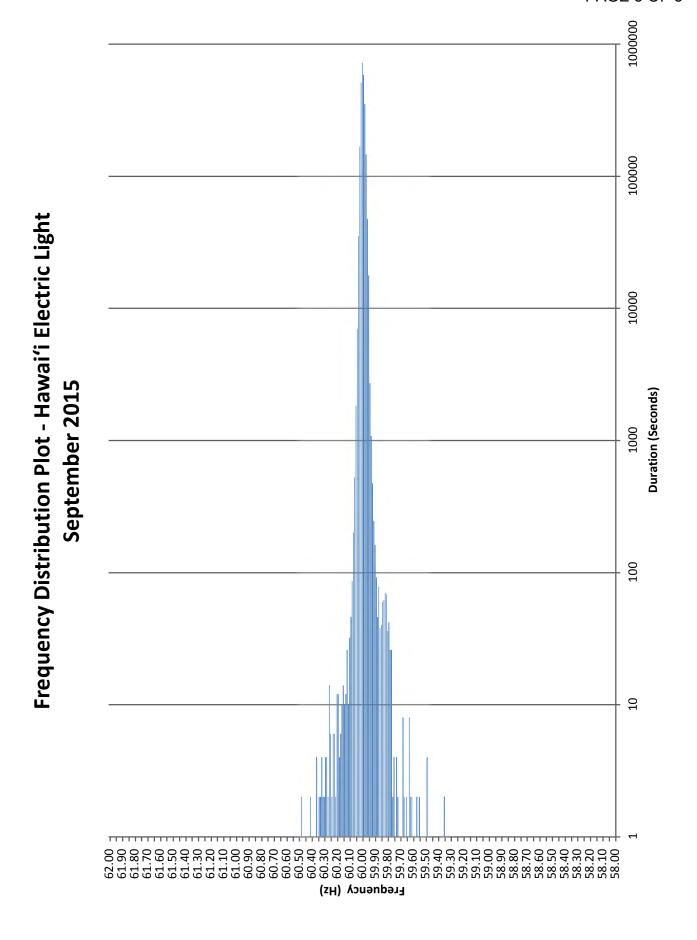
Hawai'i Electric Light did not curtail any non-dispatchable renewable resources in the month of August. Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided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



DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) ATTACHMENT 1 PAGE 2 OF 3



DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) ATTACHMENT 1 PAGE 3 OF 3



DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 1 OF 3

Hawaiian Electric Frequency Exc	ursion Stat	istics
September 2015	;	
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	1091	294
Maximum Duration (sec)	762	488
Maximum Deviation (Hz)	59.853	60.424
Total Duration of Excursions (sec)	21424	4336

DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 2 OF 3

Maui Electric Frequency Excu	rsion Statist	ics
September 2015	5	
	<59.95 Hz	>60.05 Hz
Number of Excursions	3609	2426
Maximum Duration (sec)	822	740
Maximum Deviation (Hz)	59.5179	60.3792
Total Duration of Excursions (sec)	20224	18322

DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 3 OF 3

Hawaiʻi Electric Light Frequency E	xcursion Sta	atistics
September 2015	5	
	<59.95 Hz	>60.05 Hz
Number of Excursions	2373	395
Maximum Duration (sec)	268	78
Maximum Deviation (Hz)	59.349	60.482
Total Duration of Excursions (sec)	13832	1718

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(a) ATTACHMENT 3 PAGE 1 OF 1

### HAWAIIAN ELECTRIC COMPANY, INC. CONTINGENCY RESERVE ACTIVATION EVENTS SEPTEMBER 2015

		F	requency (H	z)			
Event #	Date & Time	Prior to Event	Nadir	Trigger	Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
1	09/07/15 14:50	60.025	59.853	NA	-5.00	0:13	K1 tripped offline while generating ~48 MW. W9 called online for spinning reserve.
2	09/22/15 16:11	59.980	59.946	NA	-61.00	0:14	K5 blocked at 75 MW. W9 called online for spinning reserve.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(B) ATTACHMENT 4 PAGE 1 OF 1

# MAUI ELECTRIC COMPANY, LIMITED UNDERFREQUENCY LOADSHEDDING EVENTS September 2015

					requency (Hz	:)			
				Prior to		Levels UFLS	Load Shed	Duration	
Event #	IR#	Island	Date & Time	Event	Nadir	Occurred	(MW)	(HH:MM)	Description
			1						
			5/14/2015			58.65, 58.5,			A system frequency depression of 55.39 Hz occurred
1	828	Lāna'i	1:12 AM	59.96	55.39	58, 57.5, 57	0.85	0:56	due to loss of Generator #8 at Miki Basin Power Plant.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(c) ATTACHMENT 5 PAGE 1 OF 1

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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 1 OF 14

Hawaiian Electric Curtailment Report September 2015

					neme mepore be		
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
09/02/15 18:00	0.0	0.30	09/02/15 18:34	0	*	Makai	System Constraints
09/02/15 18:01	0.0	2.40	09/02/15 18:09	0	*	Mauka	System Constraints
09/02/15 18:10	0.0	0.00	09/02/15 18:35	0	*	KWF	System Constraints
09/08/15 06:55	0.0	0.00	09/08/15 08:00	0	*	KWF	System Constraints
09/08/15 15:27	0.0	0.00	09/08/15 16:34	0	*	KWF	System Constraints
09/09/15 06:25	0.0	0.00	09/09/15 07:53	0	*	KWF	System Constraints
09/09/15 15:01	0.0	5.00	09/09/15 17:38	0	*	KWF	System Constraints
09/10/15 05:43	0.0	0.00	09/10/15 08:04	0	*	KWF	System Constraints
09/10/15 14:24	0.0	0.00	09/10/15 15:29	0	*	KWF	System Constraints
09/10/15 16:48	0.0	1.10	09/10/15 17:32	0	*	KWF	System Constraints
09/16/15 06:50	0.0	10.10	09/16/15 17:22	0	*	KWF	System Constraints
09/16/15 06:50	0.0	6.60	09/16/15 08:33	0	*	Makai	System Constraints
09/16/15 14:47	0.0	2.40	09/16/15 17:22	0	*	Makai	System Constraints
09/17/15 07:08	0.0	3.80	09/17/15 07:51	0	*	Makai	System Constraints
09/17/15 07:14	0.0	7.50	09/17/15 07:51	0	*	KWF	System Constraints
09/17/15 15:09	0.0	13.70	09/17/15 15:28	0	*	Makai	System Constraints
09/17/15 15:08	0.0	8.70	09/17/15 15:28	0	*	KWF	System Constraints
09/18/15 10:01	0.0	17.90	09/18/15 10:56	0	*	KWF	System Constraints
09/18/15 10:01	0.0	14.80	09/18/15 10:57	0	*	Makai	System Constraints

KLS2 = Kalaeloa Solar 2 PV Farm

KREP = Kalaeloa Renewable Energy Park

KWF = Kahuku Wind Farm

Makai = Kawailoa Makai Wind Farm

Mauka = Kawailoa Mauka Wind Farm

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

 $<sup>\</sup>ensuremath{^{*}}$  Data has not been provided by IPP.

### DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 2 OF 14

ATATA	Maul
	Electric

Maui Electric	1				PAGE 2 OF
Start Date and Time 9/1/2015 2:01	Duration 0:06	IPP Curtailed KWPII	Estimated Curtailed MWH 0.168	Peak MW Curtailed 7 424	Reasons for Curtailment Oversupply
9/1/2015 2:14	0:05	KWPII	0.151		Oversupply
9/1/2015 23:39	0:01 0:02		0.003 0.092		Oversupply
9/1/2015 23:47 9/1/2015 23:52	0:02	KWPII	0.092	13.751	Oversupply Oversupply
9/1/2015 23:59	0:03	KWPII	0.095	13.300	Oversupply
9/2/2015 0:06 9/2/2015 0:34	0:02 0:01	KWPII	0.072 0.015	14.046	Oversupply Oversupply
9/2/2015 3:14	0:02	KWPII	0.045	13.241	Oversupply
9/2/2015 3:18	0:02		0.075	14.693	Oversupply
9/2/2015 3:47 9/2/2015 3:49	0:01 0:03	KWPII KWPII	0.027	14.799 14.854	Oversupply Oversupply
9/2/2015 3:54	0:01	KWPII	0.016	12.778	Oversupply
9/2/2015 5:08	0:01	KWPII	0.017		Oversupply
9/9/2015 10:13 9/9/2015 10:24	0:07 0:08	AWE AWE	0.012 0.011	0.233	Oversupply Oversupply
9/9/2015 10:39	0:04	AWE	0.012	0.300	Oversupply
9/9/2015 10:06 9/9/2015 10:06	0:38 0:38	5A BS	Data is not available  Data is not available	Data is not available Data is not available	System constraints System constraints
9/9/2015 10:06	0:01	AWE	0.000		Oversupply
9/9/2015 14:29	0:01	KWP	0.000	0.002	Oversupply
9/13/2015 13:31 9/13/2015 20:59	3:37 0:51	KWPII KWPII	26.609 4.054	20.707	Oversupply Oversupply
9/13/2015 22:25	0:19	KWPII	0.526	20.430	Oversupply
9/13/2015 22:46	1:40	KWPII	21.107	20.677	Oversupply
9/14/2015 0:13 9/14/2015 0:27	0:07 0:44	AWE KWPII	0.104 10.092		Oversupply Oversupply
9/14/2015 1:01	0:44	AWE	0.026		Oversupply
9/14/2015 1:12	0:34	KWPII	9.895	20.455	Oversupply
9/14/2015 1:15 9/14/2015 1:32	0:13 0:09	AWE AWE	0.439 0.258	17.247	Oversupply Oversupply
9/14/2015 1:32	2:08	KWPII	31.800		Oversupply
9/14/2015 3:37	0:03	AWE	0.048	11.223	Oversupply
9/14/2015 3:45 9/14/2015 3:56	0:02 1:02	AWE KWPII	0.032 15.652	10.207	Oversupply Oversupply
9/14/2015 4:20	0:09	AWE	0.490	18.367	Oversupply
9/14/2015 4:40	0:11	AWE	0.497	17.193	Oversupply
9/14/2015 4:59 9/14/2015 9:05	0:24 0:28	KWPII	2.853 1.151		Oversupply Oversupply
9/14/2015 10:47	2:29	KWPII	18.989	20.708	Oversupply
9/14/2015 13:20	0:04	KWPII	0.160	20.505	Oversupply
9/14/2015 13:54 9/15/2015 6:25	0:09 0:06	KWPII KWPII	0.481 0.243		Oversupply Oversupply
9/15/2015 6:33	0:35	KWPII	1.802	17.634	Oversupply
9/15/2015 9:30	0:27	AWE	1.056		Oversupply
9/15/2015 10:28 9/15/2015 12:54	1:54 0:31	AWE AWE	8.498 1.427		Oversupply Oversupply
9/15/2015 15:44	0:11	AWE	0.164	21.000	Oversupply
9/15/2015 22:07	0:21	AWE	0.694	21.000	Oversupply
9/15/2015 22:33 9/15/2015 22:40	0:03 0:02	AWE AWE	0.004 0.002		Oversupply Oversupply
9/15/2015 22:44	0:25	AWE	0.817		Oversupply
9/15/2015 23:12	0:01	AWE	0.001	20.953	Oversupply
9/15/2015 23:14 9/15/2015 23:17	0:01 0:01	AWE AWE	0.000	21.000	Oversupply Oversupply
9/15/2015 23:20	0:03	AWE	0.048		Oversupply
9/15/2015 23:24	0:05	AWE	0.092		Oversupply
9/15/2015 23:30 9/16/2015 3:08	3:36 0:49	AWE AWE	20.404 3.404		Oversupply Oversupply
9/16/2015 3:58	0:13	AWE	0.398	10.897	Oversupply
9/16/2015 4:13	0:03	AWE	0.054	9.803	Oversupply
9/16/2015 4:22 9/16/2015 5:28	0:02 0:05	AWE AWE	0.059 0.098		Oversupply Oversupply
9/16/2015 5:58	0:05	AWE	0.079		Oversupply
9/16/2015 8:30	0:04	AWE	0.087	18.500	Oversupply
9/16/2015 8:40 9/16/2015 8:45	0:04 0:05	AWE AWE	0.093 0.137		Oversupply Oversupply
9/16/2015 8:53	0:04	AWE	0.037	20.763	Oversupply
9/16/2015 8:58	0:03	AWE	0.004		Oversupply
9/16/2015 9:28 9/16/2015 9:40	0:02 0:02	AWE AWE	0.017 0.021		Oversupply Oversupply
9/16/2015 10:21	0:07	AWE	0.286	21.000	Oversupply
9/16/2015 10:31	0:11 0:05	AWE AWE	0.302 0.224	20.953	Oversupply Oversupply
9/16/2015 10:43 9/16/2015 10:49	0:05		0.224	20.963	Oversupply
9/16/2015 10:56	0:04	AWE	0.116	19.910	Oversupply
9/16/2015 11:03 9/16/2015 11:05	0:01 0:03	AWE AWE	0.008 0.041	19.727	Oversupply Oversupply
9/16/2015 11:09	0:05	AWE	0.159	19.767	Oversupply
9/16/2015 11:16	0:03	AWE	0.069	19.277	Oversupply
9/16/2015 11:25 9/16/2015 11:35	0:08 0:02	AWE AWE	0.237 0.016		Oversupply Oversupply
9/16/2015 11:42	0:05	AWE	0.125	20.827	Oversupply
9/16/2015 11:48	0:14	AWE	0.638	21.000	Oversupply
9/16/2015 12:04 9/16/2015 12:12	0:07 0:09	AWE AWE	0.140 0.162		Oversupply Oversupply
9/16/2015 12:26	0:01	AWE	0.001	21.000	Oversuppry
9/16/2015 12:30 9/16/2015 21:25	0:04 0:01	AWE KWPII	0.067		Oversupply
9/16/2015 21:25	0:01	KWPII	0.004 0.647		Oversuppiy Oversuppiy
9/16/2015 22:03	0:06	KWPII	0.151	18.952	Oversupply
9/16/2015 22:10 9/16/2015 22:28	0:01 0:02	KWPII KWPII	0.002 0.025	19.015	Oversupply Oversupply
9/16/2015 22:28	0:02	KWPII	6.268	18,933	Oversupply
9/16/2015 23:41	1:52	KWPII	9.980	18.917	Oversupply
9/17/2015 1:39 9/17/2015 4:35	2:49 0:02	KWPII	20.805 0.028		Oversupply Oversupply
9/17/2015 4:35	0:02	KWPII	0.028	15.375	Oversupply
9/17/2015 4:44	0:03	KWPII	0.033	16.343	Oversupply
9/17/2015 4:48 9/17/2015 4:53	0:03	KWPII	0.061 0.267	16.868	Oversuppiy Oversuppiy
9/17/2015 4:53	0:07	KWPII	0.267	16.254	Oversupply
9/17/2015 5:19	0:03	KWPII	0.057	16.588	Oversupply
9/17/2015 5:25	0:01	KWPII	0.006 4.439	17.261 18.771	Oversuppiy Oversuppiy
9/17/2015 6:44 9/17/2015 7:25	0:39	KWPII	4.439 1.317	18.771 19.040	
9/17/2015 7:42	0:55	KWPII	10.064	19.120	Oversupply
9/17/2015 8:35	0:01	AWE	0.000	18.987	Oversupply
	3:36	KWPII	62.305	19.193	Oversuppiy Oversuppiy
9/17/2015 8:38 9/17/2015 8:40	0:02	AWE	0.060	19.853	
9/17/2015 8:38 9/17/2015 8:40 9/17/2015 8:43	0:07	AWE	0.195	20.210	Oversupply
9/17/2015 8:38 9/17/2015 8:40				20.210 17.493	

## DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 3 OF 14

• • •	Maul Electric

Start Date and Time		IPP Curtailed		Peak MW Curtailed	Reasons for Curtailment
9/17/2015 10:23 9/17/2015 10:26	0:02 0:12		0.003 0.132		Oversupply Oversupply
9/17/2015 10:40	0:57	AWE	3.674	21.000	Oversupply
9/17/2015 11:38 9/17/2015 12:01	0:22 0:01		0.872 0.001	21.000 21.000	Oversupply Oversupply
9/17/2015 12:04	0:04	AWE	0.009	21.000	Oversupply
9/17/2015 12:10 9/17/2015 12:17	0:01 3:21	AWE KWPII	0.000 32.135	21.000	Oversupply Oversupply
9/17/2015 15:39	0:01	KWPII	0.001	18.342	Oversupply
9/17/2015 17:46 9/17/2015 20:58	0:04 0:07		0.020 0.152	20.491 18.132	Oversupply Oversupply
9/17/2015 21:38	0:01	KWPII	0.009	14.416	Oversupply
9/17/2015 21:40	8:05 0:05		128.022		Oversupply
9/17/2015 22:21 9/18/2015 0:07	2:48		0.003 14.285	21.000	Oversupply Oversupply
9/18/2015 2:56	2:23	AWE	17.192	21.000	Oversupply
9/18/2015 5:20 9/18/2015 5:47	0:17 1:07	AWE KWPII	0.463 7.635	21.000	Oversupply Oversupply
9/18/2015 6:59	0:01	KWPII	0.002	20.666	Oversupply
9/18/2015 7:04 9/18/2015 7:09	0:03		0.047 0.055	20.620	Oversupply Oversupply
9/18/2015 7:16	0:05	KWPII	0.016	20.542	Oversupply
9/18/2015 7:22 9/18/2015 7:41	0:03 0:04		0.011 0.044	20.298	Oversupply Oversupply
9/18/2015 7:54	0:09	KWPII	0.377		Oversupply
9/18/2015 8:54 9/18/2015 10:13	1:16 0:28		12.574 2.799		Oversupply
9/18/2015 10:15	5:42		42.660	20.708	Oversupply Oversupply
9/18/2015 18:07	0:02	KWPII	0.009	20.470	Oversupply
9/18/2015 18:10 9/18/2015 22:24	0:03 0:01	KWPII KWPII	0.005 0.002	20.698	Oversupply Oversupply
9/18/2015 22:27	1:23	KWPII	7.774	20.661	Oversupply
9/18/2015 23:52 9/19/2015 0:29	0:56	KWPII AWE	8.389 0.050		Oversupply Oversupply
9/19/2015 0:36	0:02	AWE	0.037	16.470	Oversupply
9/19/2015 0:39 9/19/2015 0:50	0:05	AWE KWPII	0.114 0.483	15.603	Oversupply Oversupply
9/19/2015 3:26	0:02	AWE	0.053	20.600	Oversupply
9/19/2015 3:29	0:03 0:14	AWE	0.053 0.405	20.370	Oversupply
9/19/2015 3:33 9/19/2015 4:38	0:14	KWPII	0.405 1.062	5.072	Oversupply Oversupply
9/19/2015 4:38	0:25	AWE	1.142	17.493	Oversupply
9/19/2015 5:04 9/19/2015 5:10	0:01 0:01	KWPII	0.022 0.000		Oversupply Oversupply
9/19/2015 5:24	0:01	AWE	0.005	21.000	Oversupply
9/19/2015 5:27 9/19/2015 5:36	0:03 0:01	AWE AWE	0.010 0.001	21.000	Oversupply Oversupply
9/19/2015 5:39	0:01	AWE	0.004	20.937	Oversupply
9/19/2015 5:43	0:11		0.228 0.229		Oversupply
9/19/2015 5:44 9/19/2015 5:52	0:07 0:06		0.229		Oversupply Oversupply
9/19/2015 5:55	0:10	AWE	0.148	21.000	Oversupply
9/19/2015 6:00 9/19/2015 6:03	0:01 0:02		0.089 0.147	5.322 4.949	Oversupply Oversupply
9/19/2015 10:08	0:01	KWPII	0.006	5.674	Oversupply
9/19/2015 10:18 9/19/2015 10:28	0:09	KWPII KWPII	0.877 0.296		Oversupply Oversupply
9/19/2015 10:33	0:01	AWE	0.001	21.000	Oversupply
9/19/2015 10:33 9/19/2015 10:36	0:02 0:01	KWPII AWE	0.211 0.002	11.099	Oversupply Oversupply
9/19/2015 10:36	0:11	KWPII	1.731	12.682	Oversupply
9/19/2015 10:44	0:03 0:02		0.027		Oversupply
9/19/2015 10:48 9/19/2015 10:48	0:02		0.358 0.011	21.000	Oversupply Oversupply
9/19/2015 10:56	0:02	AWE	0.010	21.000	Oversupply
9/19/2015 10:56 9/19/2015 11:49	0:50	KWPII KWPII	11.874 0.499	20.249	Oversupply Oversupply
9/19/2015 12:23	0:01	KWPII	0.026	13.073	Oversupply
9/19/2015 12:47 9/19/2015 12:54	0:19 0:01	KWPII AWE	2.824 0.000		Oversupply Oversupply
9/19/2015 13:07	0:21	KWPII	2.926	19.876	Oversupply
9/19/2015 13:29 9/19/2015 13:37	0:04	KWPII KWPII	0.129 0.027	17.224	Oversupply Oversupply
9/19/2015 13:44	0:26	KWPII	2.518	19.475	Oversuppiy
9/19/2015 14:12	0:16		1.002		Oversupply
9/19/2015 22:30 9/19/2015 23:23	0:28	KWPII	3.614 0.152	17.990	Oversupply Oversupply
9/19/2015 23:28	0:04	KWPII	0.096	14.531	Oversupply
9/19/2015 23:33 9/20/2015 0:06	0:26	KWPII	2.325 7.097	70.394	Oversupply Oversupply
9/20/2015 0:24	0:09	AWE	0.200	20.320	Oversupply
9/20/2015 0:41 9/20/2015 0:58	0:38	KWPII AWE	8.921 0.590		Oversupply Oversupply
9/20/2015 1:22	0:52	KWPII	5.679	16.363	Oversupply
9/20/2015 2:15 9/20/2015 2:26	0:01 0:12	KWPII	0.003 0.494	6.148 0 KK7	Oversupply Oversupply
9/20/2015 3:01	11:46	KWPII	155.487	20.708	Oversupply
9/20/2015 3:03 9/20/2015 3:08	0:02 0:21	AWE AWE	0.029 1.048		Oversupply Oversupply
9/20/2015 3:30	2:00	AWE	11.167	18.957	Oversupply
9/20/2015 5:31 9/20/2015 5:41	0:05	AWE AWE	0.127 0.086	19.633	Oversupply Oversupply
9/20/2015 14:50	0:05	KWPII	0.002	20.708	Oversupply
9/20/2015 17:26	0:02		0.002		Oversupply
9/20/2015 17:29 9/20/2015 17:43	0:11 0:12	KWPII	0.097 0.087	20.708	Oversupply Oversupply
9/20/2015 21:56	7:28	KWPII	127.157	20.708	Oversupply
9/21/2015 0:04 9/21/2015 0:07	0:01 5:10	AWE	0.001 38.768	21.000 21.000	Oversupply Oversupply
9/21/2015 5:25	1:18	KWPII	11.170	20.491	Oversupply
9/21/2015 8:41 9/21/2015 8:47	0:04 0:16	KWPII KWPII	0.075 0.825	18.749	Oversupply Oversupply
9/21/2015 9:13	0:16	KWPII	0.841	20.465	Oversupply
9/21/2015 10:02	0:22		0.824	20.705	Oversuppry
9/21/2015 10:25	0:38	KWPII KWPII	1.177 0.005		Oversupply Oversupply
9/21/2015 11:24	3:06	KWPII	17.407	20.707	Oversupply
9/21/2015 11:24 9/21/2015 11:26	(1)(1)	KWPII	0.001		Oversupply Oversupply
9/21/2015 11:26 9/21/2015 14:34	0:01	KMbii	U aru		
9/21/2015 11:26 9/21/2015 14:34 9/21/2015 21:57 9/21/2015 22:14	0:18 0:01	KWPII KWPII	0.369 0.006	20.505	Oversuppiy
9/21/2015 11:26 9/21/2015 14:34 9/21/2015 21:57 9/21/2015 22:14 9/21/2015 22:16	0:15 0:01 0:33	KWPII KWPII	0.006 2.014	20.505 20.642	Oversupply Oversupply
9/21/2015 11:26 9/21/2015 14:34 9/21/2015 21:57 9/21/2015 22:14	0:18 0:01	KWPII KWPII	0.006	20.505 20.642 20.700	Oversuppiy

## DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 4 OF 14

ATATA	Maui
	Electric

					PAGE 4 OF
Start Date and Time		IPP Curtailed	Estimated Curtailed MWH		Reasons for Curtailment
9/22/2015 1:01 9/22/2015 1:07	0:05 0:13	AWE AWE	0.089 0.402		Oversupply Oversupply
9/22/2015 1:07	0:15	AWE	0.402		Oversupply
9/22/2015 1:29	3:33	AWE	26.982	20.737	Oversupply
9/22/2015 5:09	1:17	KWPII	15.788	20.682	Oversupply
9/22/2015 6:11	12:33	BS250	Data is not available		Oversupply
9/22/2015 6:31 9/22/2015 7:27	0:18 0:02	KWPII KWPII	0.928 0.014		Oversupply
9/22/2015 7:30	0:02	KWPII	0.032		Oversupply Oversupply
9/22/2015 7:33	0:02	KWPII	0.462	20.495	Oversupply
9/22/2015 7:54	1:23	KWPII	7.275	20.692	Oversupply
9/22/2015 9:24	1:43	KWPII	6.808		Oversupply
9/22/2015 11:08	0:15	KWPII	0.454		Oversupply
9/22/2015 11:27	0:19	KWPII	0.657		Oversupply
9/22/2015 11:48 9/22/2015 12:43	0:54 0:04	KWPII	5.279 0.104	20.046	Oversupply Oversupply
9/22/2015 12:51	0:06	KWPII	0.031	20.662	Oversupply
9/22/2015 13:03	0:01	KWPII	0.006	20.636	Oversupply
9/22/2015 13:05	0:01	KWPII	0.001		Oversupply
9/22/2015 14:30	0:06	KWPII	0.100		Oversupply
9/22/2015 16:04 9/22/2015 16:24	0:01 0:18	KWPII KWPII	0.002 0.517	20.578	Oversupply Oversupply
9/22/2015 10:24	0:10	KWPII	2.263	12.333	Oversupply
9/22/2015 23:17	0:01	AWE	0.006	19.947	Oversupply
9/22/2015 23:24	0:02	AWE	0.032	20.043	Oversupply
9/22/2015 23:37	0:01	KWPII	0.037	8.696	Oversupply
9/23/2015 0:38		KWPII	3.035		Oversupply
9/23/2015 0:42 9/23/2015 0:52	0:05 0:25	AWE AWE	0.150 2.365	17.993	Oversupply Oversupply
9/23/2015 1:21	0:25	AWE	0.056		Oversupply
9/23/2015 1:29	0:06	AWE	0.018		Oversupply
9/23/2015 1:36	0:02	AWE	0.003	21.000	Oversupply
9/23/2015 1:40	0:02	AWE	0.002		Oversupply
9/23/2015 2:21	0:01	AWE	0.002	14.927	Oversupply
9/23/2015 2:25 9/23/2015 2:39	0:08 0:01	AWE AWE	0.307 0.000	16,247	Oversupply Oversupply
9/23/2015 2:50	0:46	KWPII	2.183	6.326	Oversupply
9/23/2015 2:54	0:02	AWE	0.053	16.087	Oversupply
9/23/2015 2:57	0:35	AWE	4.368	20.987	Oversupply
9/23/2015 3:34	0:01	AWE	0.005		Oversupply
9/23/2015 5:28	0:01	AWE	0.000		Oversupply
9/23/2015 5:49 9/23/2015 5:57	0:15 0:01	KWPII AWE	0.550 0.001		Oversupply Oversupply
9/23/2015 5:59	0:01	AWE	0.006		Oversupply Oversupply
9/23/2015 6:02	0:01	AWE	0.013		Oversupply
9/23/2015 6:05	0:01	AWE	0.005		Oversupply
9/23/2015 6:05	0:03	KWPII	0.056		Oversupply
9/23/2015 6:07	0:01	AWE KWPII	0.001 0.169	20.950	Oversupply Oversupply
9/23/2015 6:10 9/23/2015 6:10	0:05 0:05	AWE	0.033	21 000	Oversupply
9/23/2015 6:11	4:05	BS250	Data is not available		Oversupply
9/23/2015 6:16	0:03	AWE	0.010		Oversupply
9/23/2015 6:21	0:44	AWE	3.248	21.000	Oversupply
9/23/2015 6:23	0:42	KWPII	3.535		Oversupply
9/23/2015 18:14 9/23/2015 20:05	0:29 0:01	BS250 AWE	Data is not available 0.000		Oversupply
9/23/2015 20:05	0:07	KWPII	0.160		Oversupply Oversupply
9/23/2015 23:14	4:25	KWPII	25.357		Oversupply Oversupply
9/24/2015 3:42	0:22	KWPII	0.618	19.799	Oversupply
9/24/2015 4:21	0:01	KWPII	0.006	20.223	Oversupply
9/24/2015 4:27	0:02 0:04	KWPII KWPII	0.036 0.115	19.434	Oversupply Oversupply
9/24/2015 5:28	0:04	KVVPII			
0/2//2015 5:38	0.03	KW/PII		10 //10	Oversupply
9/24/2015 5:38 9/24/2015 5:52	0:03 0:15	KWPII	0.068 0.912		Oversupply Oversupply
9/24/2015 5:38 9/24/2015 5:52 9/24/2015 9:15	0:03 0:15 0:03	KWPII KWPII BS250	0.068 0.912 Data is not available	20.200	Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15	0:15 0:03 0:03	KWPII BS250 KWPII	0.912 Data is not available 0.040	20.200 Data is not available 20.344	Oversupply Oversupply Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00	0:15 0:03 0:03 3:40	KWPII BS250 KWPII BS250	0.912 Data is not available 0.040 Data is not available	20.200 Data is not available 20.344 Data is not available	Oversupply Oversupply Oversupply Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00	0:15 0:03 0:03 3:40 3:04	KWPII BS250 KWPII BS250 KWPII	0.912 Data is not available 0.040 Data is not available 14.036	20.200 Data is not available 20.344 Data is not available 20.662	Oversupply Oversupply Oversupply Oversupply Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17	0:15 0:03 0:03 3:40 3:04 1:26	KWPII BS250 KWPII BS250 KWPII BS250	Data is not available 0.040 Data is not available 14.036 Data is not available	20.200 Data is not available 20.344 Data is not available 20.662 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17 9/24/2015 21:58	0:15 0:03 0:03 3:40 3:04 1:26 0:08	KWPII BS250 KWPII BS250 KWPII BS250 KWPII	0.912 Data is not available 0.040 Data is not available 14.036 Data is not available 0.102	20.200 Data is not available 20.344 Data is not available 20.662 Data is not available 20.697	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17 9/24/2015 21:58 9/24/2015 22:47	0:15 0:03 0:03 3:40 3:04 1:26 0:08 0:06	KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII	0.912 Data is not available  0.040 Data is not available  14.036 Data is not available  0.102 0.059 0.031	20.200 Data is not available 20.344 Data is not available 20.662 Data is not available 20.697 20.505 20.586	Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 21:75 9/24/2015 22:40 9/24/2015 22:40 9/24/2015 22:47 9/24/2015 22:47	0:15 0:03 0:03 3:40 3:04 1:26 0:08 0:06 0:03	KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII KWPII	0.912 Data is not available  Data is not available  14.036 Data is not available 0.102 0.059 0.031 0.023	20.200 Data is not available 20.344 Data is not available 20.662 Data is not available 20.697 20.505 20.586 20.586	Oversupply
9/24/2015 5:52 9/24/2015 9:15 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17 9/24/2015 22:53 9/24/2015 22:47 9/24/2015 22:47 9/24/2015 22:51 9/24/2015 22:51	0:15 0:03 0:03 3:40 3:04 1:26 0:08 0:06 0:03 0:04	KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII KWPII	0.912 Data is not available 0.040 Data is not available 14.036 Data is not available 0.102 0.059 0.031 0.023 0.001	20,200 Data is not available 20,344 Data is not available 20,662 Data is not available 20,662 20,565 20,556 20,556 20,656	Oversupply
9/24/2015 5:52 9/24/2015 5:55 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17 9/24/2015 17:17 9/24/2015 22:40 9/24/2015 22:40 9/24/2015 22:51 9/24/2015 23:03 9/24/2015 23:03	0:15 0:03 0:03 3:40 3:04 1:26 0:08 0:06 0:03 0:04 0:02	KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII KWPII KWPII KWPII	0.912 Data is not available  Data is not available  14.036 Data is not available  0.009 0.039 0.031 0.023 0.001	20,200 Data is not available 20,344 Data is not available 20,662 Data is not available 20,662 20,505 20,586 20,652 20,6521	Oversupply
9/24/2015 5:25 9/24/2015 9:15 9/24/2015 9:05 9/24/2015 9:05 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 12:36 9/24/2015 22:31 9/24/2015 22:31 9/24/2015 22:31 9/24/2015 23:15	0:15 0:03 0:03 3:40 3:04 1:26 0:08 0:06 0:03 0:04 0:02 0:02	KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII KWPII	0.912 Data is not available 0.040 Data is not available 14.036 Data is not available 0.102 0.059 0.031 0.023 0.001	20.200 Data is not available 20.344 Data is not available 20.682 Data is not available 20.697 20.505 20.505 20.586 20.627 20.625 20.627 20.625	Oversupply
9/24/2015 5:52 9/24/2015 5:55 9/24/2015 9:15 9/24/2015 10:00 9/24/2015 10:00 9/24/2015 17:17 9/24/2015 17:17 9/24/2015 22:40 9/24/2015 22:40 9/24/2015 22:51 9/24/2015 23:03 9/24/2015 23:03	0:15 0:03 0:03 3:40 1:26 0:08 0:06 0:03 0:04 0:02 0:10 0:02 0:10 0:35 0:01	KWPII BS250 KWPII BS250 KWPII BS250 KWPII	0.912 Data is not available  14.036 Data is not available  0.102 0.059 0.031 0.023 0.001 0.013 0.241 95.194 0.005	20.200 Data is not available 20.344 Data is not available 20.682 Data is not available 20.682 20.595 20.595 20.595 20.697 20.505 20.697 20.708	Oversupply
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## DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 5 OF 14

YAY	Maul
	Electric

Electric					I AGE 3 OI
Start Date and Time		IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/26/2015 7:43	0:06	KWPII	0.066	20.708	Oversupply
9/26/2015 7:51		KWPII	0.000		Oversupply
9/26/2015 8:05	0:14	KWPII	0.374	20.708	Oversupply
9/26/2015 8:25	1:35	KWPII	11.835	20.708	Oversupply
9/26/2015 10:03		KWPII	1.303	20.708	Oversupply
9/26/2015 10:36		KWPII	0.156		Oversupply
9/26/2015 10:45		KWPII	7.630		Oversupply
9/26/2015 12:20	1:02	KWPII	11.543		Oversupply
9/26/2015 13:07		AWE	0.397	21.000	Oversupply
9/26/2015 13:23		KWPII	23.181	20.708	Oversupply
9/26/2015 20:56	9:12	KWPII	146.006	20.708	Oversupply
9/27/2015 1:10		AWE	32.747		Oversupply
9/27/2015 5:24		AWE	0.585		Oversupply
9/27/2015 5:45	0:10	AWE	0.120		Oversupply
9/27/2015 5:57	0:01	AWE	0.012	19.617	Oversupply
9/27/2015 6:00	0:01	AWE	0.001	19.143	Oversupply
9/27/2015 6:10	4:34	KWPII	60.564	20.708	Oversupply
9/27/2015 6:11	8:24	BS250	Data is not available	Data is not available	Oversupply
9/27/2015 10:47	2:08	KWPII	14.202	20.708	Oversupply
9/27/2015 12:56	0:04	KWPII	0.017	20.708	Oversupply
9/27/2015 20:55		KWPII	0.092	20.708	Oversupply
9/27/2015 21:01	0:04	KWPII	0.033	20.708	Oversupply
9/27/2015 21:33	0:01	KWPII	0.002	20.708	Oversupply
9/27/2015 21:35	9:27	KWPII	147.578		Oversupply
9/27/2015 23:36	6:11	AWE	72.309	21.000	Oversupply
9/28/2015 5:48	0:01	AWE	0.001		
9/28/2015 6:11	12:33	BS250	Data is not available	Data is not available	Oversupply
9/28/2015 7:26		KWPII	87.053		Oversupply
9/28/2015 9:32		AWE	0.334	20.800	Oversupply
9/28/2015 9:42	2:32	AWE	14.577	21.000	Oversupply
9/28/2015 12:16		AWE	1.171	20,977	Oversupply
9/28/2015 12:40		AWE	0.346	19.863	Oversupply
9/28/2015 12:49		AWE	0.261	19.577	Oversupply
9/28/2015 13:01	0:03	AWE	0.040	19.513	Oversupply
9/28/2015 13:05		AWE	0.542	20.350	Oversupply Oversupply
9/28/2015 13:36		KWPII	11.034	20.690	Oversupply
9/28/2015 14:48		KWPII	1.663		Oversupply
9/28/2015 15:19		KWPII	0.011		Oversupply Section 1997
9/28/2015 15:22	0:01	KWPII	0.004	20.618	Oversupply
9/28/2015 15:24	0:55	KWPII	2.531	20.694	Oversupply
9/28/2015 16:27	0:09	KWPII	0.102	20.708	Oversupply
9/28/2015 16:37		KWPII	0.020	20,698	Oversupply
9/28/2015 17:06		KWPII	2.956		Oversupply Oversupply
9/28/2015 17:51	0:04	KWPII	0.054		Oversupply
9/28/2015 17:56		KWPII	0.115		Oversupply
9/28/2015 18:08		KWPII	0.485		Oversupply
9/28/2015 18:56		KWPII	0.002	20.697	Oversupply
9/28/2015 18:59	0:02	KWPII	0.002	20.698	Oversupply
9/28/2015 19:03	0:01	KWPII	0.002		Oversupply Oversupply
9/28/2015 19:09		KWPII	0.017		Oversupply
		KWPII			Oversupply
9/28/2015 19:21	0:10 0:40	KWPII	0.261		
9/28/2015 19:49			1.581	20.700	Oversupply
9/28/2015 20:48	0:03 1:59	KWPII KWPII	0.032	20.696	Oversupply
9/28/2015 20:52 9/28/2015 22:54	0:01	KWPII	11.626 0.000	20.708	Oversupply Oversupply
	0:03	KWPII	0.031		
9/28/2015 22:56					Oversupply
9/28/2015 23:02	5:27	KWPII	89.394		Oversupply
9/29/2015 1:07	0:03	AWE	0.060	10.743	Oversupply
9/29/2015 1:14		AWE	1.002	12.400	Oversupply
9/29/2015 1:34		AWE	5.082	11.980	Oversupply
9/29/2015 2:58		AWE	4.795		Oversupply
9/29/2015 4:08		AWE	0.017		Oversupply
9/29/2015 4:15		AWE	0.008		Oversupply
9/29/2015 4:31	1:42	KWPII	17.474	20.708	Oversupply
9/29/2015 7:23	0:04	KWPII	0.041	20.707	Oversupply
9/29/2015 8:04	5:04	KWPII	92.535		Oversupply
9/29/2015 9:35		AWE	1.077	17.180	Oversupply
9/29/2015 10:02		AWE	0.019		Oversupply
9/29/2015 10:06		AWE	0.001		Oversupply
9/29/2015 10:08		AWE	0.396	17.690	Oversupply
9/29/2015 10:19	0:07	AWE	0.194	17.420	Oversupply
9/29/2015 10:28	2:25	AWE	15.325	20.940	Oversupply
9/29/2015 12:55	0:06	AWE	0.126		Oversupply
9/29/2015 13:02	0:01	AWE	0.017		Oversupply
9/29/2015 13:10	2:10	KWPII	34.433		Oversupply
9/29/2015 13:43	0:02	AWE	0.007	19.783	Oversupply
9/29/2015 13:46	0:01	AWE	0.005	18.770	Oversuppiy
9/29/2015 13:49	0:09	AWE	0.073	20.923	Oversupply
9/29/2015 14:01	0:04	AWE	0.033	20.927	Oversupply
9/29/2015 14:08		AWE	0.456		Oversupply
9/29/2015 14:26		AWE	0.002		Oversupply
9/29/2015 14:28	0:01	AWE	0.012		Oversupply
9/29/2015 14:33	0:01	AWE	0.004		Oversupply
9/29/2015 14:37	0:01	AWE	0.000		Oversupply
9/29/2015 14:40	0:01	AWE	0.003		Oversupply
9/29/2015 14:42		AWE	0.002		Oversupply
9/29/2015 14:44		AWE	0.225		Oversupply
9/29/2015 14:56	0:01	AWE	0.002		Oversupply
9/29/2015 15:03	0:02	AWE	0.019		Oversupply
9/29/2015 15:11	0:01	AWE	0.003		Oversupply
9/29/2015 15:22					
	0:59	KWPII	10.277		Oversupply
9/29/2015 16:27	0:05	KWPII	0.044	20.640	Oversupply
9/29/2015 16:33	0:05 0:02	KWPII KWPII	0.044 0.004	20.640 20.692	Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36	0:05 0:02 1:56	KWPII KWPII	0.044 0.004 10.758	20.640 20.692 20.708	Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39	0:05 0:02 1:56 0:30	KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551	20.640 20.692 20.708 20.708	Oversupply Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36	0:05 0:02 1:56	KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551 154.992	20.640 20.692 20.708 20.708	Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39	0:05 0:02 1:56 0:30	KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551	20.640 20.692 20.708 20.708 20.708	Oversupply Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23	0:05 0:02 1:56 0:30 9:15	KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551 154.992	20.640 20.692 20.708 20.708 20.708 21.000	Oversupply Oversupply Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 23:31	0:05 0:02 1:56 0:30 9:15 5:25	KWPII KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551 154.992 63.086	20.640 20.692 20.708 20.708 20.708 21.000 14.233	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 23:31 9/30/2015 4:57 9/30/2015 5:04	0:05 0:02 1:56 0:30 9:15 5:25 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE	0.044 0.004 10.758 1.551 154.992 63.086 0.020	20.640 20.692 20.708 20.708 20.708 21.000 14.233 20.360	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 20:31 9/30/2015 4:57 9/30/2015 5:32	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009	20.640 20.692 20.708 20.708 20.708 21.000 14.233 20.500 19.570	Oversupply
9/29/2015 16:36 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 20:35 9/30/2015 5:04 9/30/2015 5:32 9/30/2015 5:32	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27 0:01 0:39	KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053	20.640 20.708 20.708 20.708 20.708 21.000 14.233 20.560 19.570 20.708	Oversupply
9/29/2015 16:36 9/29/2015 16:36 9/29/2015 09:39 9/29/2015 20:23 9/29/2015 20:31 9/30/2015 5:04 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32	0:05 0:02 1:56 0:30 9:115 5:25 0:01 0:27 0:01 0:39	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053	20.640 20.692 20.708 20.708 21.000 14.233 20.500 19.570 20.708	Oversupply
9/29/2015 16:36 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 23:31 9/30/2015 5:04 9/30/2015 5:30 9/30/2015 6:20 9/30/2015 6:20	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27 0:01 0:39	KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053	20,640 20,692 20,708 20,708 21,700 11,233 20,560 19,570 20,708 19,211	Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 20:23 9/30/2015 20:31 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27 0:01 0:39 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE KWPII KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551 154.952 63.086 0.020 1.373 0.009 7.033 0.005 1.34.868	20.842 20.708 20.708 20.708 20.708 21.000 14.233 20.560 19.577 20.708 19.211 19.211	Oversupply
9/29/2015 16:35 9/29/2015 16:36 9/29/2015 16:36 9/29/2015 19:39 9/29/2015 20:25 9/30/2015 6:57 9/30/2015 5:45 9/30/2015 5:40 9/30/2015 6:22 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:43	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27 0:01 0:03 0:01 7:05 0:01	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII KWPII KWPII KWPII	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053 0.009 1.34.888	20.842 20.892 20.708 20.708 21.700 21.900 14.233 20.500 19.570 20.708 19.211 19.211 20.708	Oversupply
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9/29/2015 16:33 9/29/2015 16:36 9/29/2015 16:36 9/29/2015 20:33 9/29/2015 20:33 9/29/2015 20:31 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:32 9/30/2015 6:33 9/30/2015 6:33 9/30/2015 6:33 9/30/2015 6:33 9/30/2015 6:33	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:27 0:01 0:39 0:01 0:04 7:05 0:01 0:00 0:03 0:01 0:00 0:00 0:00	KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE AWE AWE AWE	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053 0.005 0.059 134.888 0.001 0.0076 0.0056	20.640 20.708 20.708 20.708 21.700 21.700 14.233 20.560 19.570 20.708 19.211 19.211 20.708 18.230 19.780 20.073 19.373	Oversupply
9/29/2015 16:33 9/29/2015 16:35 9/29/2015 19:39 9/29/2015 20:23 9/29/2015 20:23 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23	0:05 0:02 1:56 0:30 9:15 5:25 0:01 0:07 0:07 0:04 7:05 0:04 7:05 0:03 0:03 0:03	KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII AWE	0.044 0.004 10.788 1.581 1.581 154.992 63.086 0.020 1.373 0.009 7.053 0.009 1.34.888 0.007 0.007 0.005 0.008	20.849 20.892 20.708 20.708 20.708 21.000 14.233 20.580 19.570 20.708 19.211 20.708 18.230 19.730 19.231 19.231 19.231	Oversupply
9/29/2015 16:33 9/29/2015 16:36 9/29/2015 16:36 9/29/2015 20:36 9/29/2015 20:33 9/29/2015 20:33 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23 9/30/2015 6:23	0.05 0.02 0.02 0.03 0.03 0.03 0.00 0.01 0.027 0.01 0.039 0.01 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.05	KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE AWE AWE	0.044 0.004 10.758 1.551 154.992 63.086 0.020 1.373 0.009 7.053 0.005 134.888 0.005 0.0076 0.009	20.842 20.708 20.708 20.708 21.708 21.900 14.233 20.500 19.570 20.708 19.211 19.211 20.708 18.23 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30	Oversupply
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9/29/2015 10:33 9/29/2015 10:35 9/29/2015 19:39 9/29/2015 19:39 9/29/2015 20:23 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:22 9/30/2015 6:23 9/30/2015 8:29 9/30/2015 8:29 9/30/2015 8:29 9/30/2015 8:35 9/30/2015 10:03 9/30/2015 10:03	0.05 0.02 1:365 0:30 0:30 0:151 0:27 0:01 0:01 0:04 0:05 0:05 0:05 0:05 0:05 0:05 0:05	KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE AWE KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII AWE	0.044 0.004 10.758 1.551 15.952 63.086 0.020 1.373 0.009 7.053 0.009 13.43.888 0.001 0.001 0.006 0.005 0.008 0.001 0.006 0.005 0.008 0.001 0.006 0.005 0.008 0.001	20.84/2 20.892 20.708 20.708 20.708 21.000 14.233 20.500 19.577 20.708 19.217 19.217 20.708 18.230 19.783 19.237 19.373 19.277 20.420 20.070 19.883	Oversupply
9/29/2015 16:33 9/29/2015 16:35 9/29/2015 19:39 9/29/2015 19:39 9/29/2015 20:23 9/30/2015 20:31 9/30/2015 5:32 9/30/2015 5:32 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:20 9/30/2015 6:33 9/30/2015 6:33 9/30/2015 6:33 9/30/2015 8:35 9/30/2015 8:35 9/30/2015 8:35	0.05 0.02 1:365 0:30 0:30 0:151 0:27 0:01 0:01 0:04 0:05 0:05 0:05 0:05 0:05 0:05 0:05	KWPII KWPII KWPII KWPII KWPII KWPII AWE AWE AWE AWE AWE AWPII KWPII KWPII AWE	U.044 U.004 10.758 1.551 154.992 63.086 U.020 1.373 U.009 7.033 U.005 134.868 U.0076 U.005	20.84/2 20.708 20.708 20.708 20.708 21.700 21.700 21.700 20.708 21.900 19.570 20.708 19.211 19.211 20.708 18.230 19.373 19.373 19.277 20.420 20.070 19.893 20.070	Oversupply

### DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6** PAGE 6 OF 14

#### Maui Curtailment Report September 2015

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/30/2015 14:05	0:02	AWE	0.004	20.980	Oversupply
9/30/2015 14:09	0:01	AWE	0.002		Oversupply
9/30/2015 14:17		KWPII	0.354		Oversupply
9/30/2015 14:20	2:49	KWPII	25.767		Oversupply
9/30/2015 16:40	0:01				System constraints
9/30/2015 17:54	0:01	KWPII	0.007		Oversupply
9/30/2015 18:05	0:01	KWPII	0.005		Oversupply
9/30/2015 18:11	0:01	KWPII	0.002		Oversupply
9/30/2015 21:28		KWPII	0.102		Oversupply
9/30/2015 21:50		KWPII	0.471		Oversupply
9/30/2015 22:08	0:20	KWPII	0.550		Oversupply
9/30/2015 22:29	1:31		20.044		Oversupply
9/30/2015 23:46	0:07	AWE	0.138	18.863	Oversupply

Notes:

- Curtaliment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAA Rent-A-Space Maui Electric operator-entered curtaliment limit. The AGC curtaliment control automatically calculates the amount of Maximum Allowable Variable Generation ("MAVG") that Maui Electric san accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down requirement ("RRDR"), and available regulating reserve down experiments ("ARCD"). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR less (RRDR less (RRDR less (RRDR less (RRDR less (RRDR less (RRDR) less (RRDR))). The AGC MAVG - calculated and AGC MAVG - calculated is equal to CAVG less (RRDR less (RRDR)). The AGC MAVG - calculated (and AGC MAVG - calculated is experiment ("RRDR"), and available regulating reserve down ("ARRD"). Thus, the AGC Licitation and AGC MAVG - calculated the AGC MAVG - calculated the AGC MAVG - calculated with and Pack MW Curtailed are calculated with information provided by ARC MAVG - calculated with and Peak MW Curtailed is not provided by 5A, BS, BS 250 or MH.

- 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.



Start Date	e/Time Duration (h:	mm) IDI	P Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
	015 7:12	0:12	LSR	Data is not available	Data is not available	Oversupply
	015 7:59	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 11:03	0:04	LSR	Data is not available	Data is not available	Oversupply
	15 11:08	2:31	LSR	Data is not available	Data is not available	Oversupply
	15 13:40 15 17:50	3:56 0:18	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	015 8:09	0:01	LSR	Data is not available	Data is not available	Oversupply
	015 8:34	0:01	LSR	Data is not available	Data is not available	Oversupply
	015 9:33	0:02	LSR	Data is not available	Data is not available	Oversupply
	015 9:36 015 9:50	0:01	LSR LSR	Data is not available  Data is not available	Data is not available Data is not available	Oversupply Oversupply
	015 9:58	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 10:04	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 10:15	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 10:25	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 10:36 15 10:41	0:02	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 11:15	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 11:20	0:04	LSR	Data is not available	Data is not available	Oversupply
	15 11:27	0:05	LSR	Data is not available	Data is not available	Oversupply
	15 11:34	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 11:37 15 11:48	0:06 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 11:52	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 11:59	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 12:02	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 12:11	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 12:15 15 12:22	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 12:26	0:02	LSR	Data is not available	Data is not available  Data is not available	Oversupply
9/2/20	15 12:29	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 12:33	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 12:46	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 12:51	0:02	LSR	Data is not available	Data is not available  Data is not available	Oversupply
	15 12:55 15 13:03	0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 13:14	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 13:18	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 13:22	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 13:25 15 13:33	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 13:35	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 13:40	0:01	LSR	Data is not available	Data is not available	Oversupply
9/2/20	15 13:44	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 13:50	0:07	LSR	Data is not available	Data is not available	Oversupply
	15 13:59	0:01	LSR LSR	Data is not available	Data is not available	Oversupply
	15 14:10 15 14:14	0:03	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 14:37	0:02	LSR	Data is not available	Data is not available	Oversupply
9/2/20	15 14:41	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 14:56	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 14:59	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 15:01 15 15:11	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 15:18	0:02	LSR	Data is not available	Data is not available	Oversupply
9/2/20	15 15:23	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 15:26	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 15:35 15 15:43	0:02 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 15:47	0:04	LSR	Data is not available	Data is not available	Oversupply
	15 15:54	0:03	LSR	Data is not available	Data is not available	Oversupply
	015 8:05	0:02	LSR	Data is not available	Data is not available	Oversupply
	015 8:13	0:02	LSR	Data is not available	Data is not available	Oversupply
	015 9:04 015 9:28	0:07 0:01	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	015 9:26	0:05	LSR	Data is not available	Data is not available	Oversupply
	015 9:52	0:06	LSR	Data is not available	Data is not available	Oversupply
9/3/20	15 10:06	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 10:25	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 10:28 15 10:39	0:02 0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 10:45	0:06	LSR	Data is not available	Data is not available	Oversupply
9/3/20	15 17:54	0:06	LSR	Data is not available	Data is not available	Oversupply
	015 7:01	0:15	LSR	Data is not available	Data is not available	Oversupply
	015 7:17	0:30	LSR	Data is not available	Data is not available	Oversupply
	015 7:49 015 7:57	0:01 0:05	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	015 8:08	0:06	LSR	Data is not available	Data is not available	Oversupply
9/4/2	015 8:16	0:02	LSR	Data is not available	Data is not available	Oversupply
	015 8:22	0:03	LSR	Data is not available	Data is not available	Oversupply
	015 8:27	0:06	LSR	Data is not available	Data is not available	Oversupply
	015 8:34 015 8:54	0:02 1:54	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 10:51	0:21	LSR	Data is not available	Data is not available	Oversupply
9/4/20	15 11:14	0:24	LSR	Data is not available	Data is not available	Oversupply
	15 11:43	0:03	LSR	Data is not available	Data is not available	Oversupply
	15 11:47	0:02	LSR	Data is not available	Data is not available	Oversupply
	15 12:28 15 12:38	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
	15 12:52	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/20	15 14:05	0:12	LSR	Data is not available	Data is not available	Oversupply
	15 14:22	0:01	LSR	Data is not available	Data is not available	Oversupply
	15 14:41	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/20			100			
9/4/20 9/4/20	15 14:51	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/20 9/4/20 9/4/20	15 14:51 15 14:53	0:01 0:02	LSR	Data is not available	Data is not available	Oversupply
9/4/20 9/4/20 9/4/20 9/4/20 9/4/20	15 14:51	0:01				



Otant Data /Time	Duration (homes)	I IDD Ot-il- d	Fetiment d MANUL Constalled	Deels MM Ossatelle d	December 6 - Ourteiller out
Start Date/Time 9/4/2015 15:3	Duration (h:mm) 0:02	IPP Curtailed LSR	Estimated MWH Curtailed Data is not available	Peak MW Curtailed Data is not available	Reasons for Curtailment Oversupply
9/4/2015 15:34		LSR	Data is not available	Data is not available	Oversupply
9/4/2015 16:17			Data is not available	Data is not available	Oversupply
9/4/2015 16:25		LSR	Data is not available	Data is not available	Oversupply
9/4/2015 16:3		LSR	Data is not available	Data is not available	Oversupply
9/4/2015 16:34			Data is not available	Data is not available	Oversupply
9/4/2015 17:36		LSR	Data is not available	Data is not available	Oversupply
9/5/2015 7:04			Data is not available	Data is not available	Oversupply
9/5/2015 8:0			Data is not available	Data is not available	Oversupply
9/5/2015 9:00			Data is not available	Data is not available	Oversupply
9/5/2015 9:08		LSR	Data is not available	Data is not available	Oversupply
9/5/2015 9:10			Data is not available	Data is not available	Oversupply
9/5/2015 9:3	0:13		Data is not available	Data is not available	Oversupply
9/5/2015 9:52	0:02	LSR	Data is not available	Data is not available	Oversupply
9/5/2015 9:55		LSR LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/5/2015 10:1 9/5/2015 10:24	0:02		Data is not available  Data is not available	Data is not available	Oversupply
9/5/2015 10:24		LSR LSR	Data is not available	Data is not available  Data is not available	Oversupply
9/5/2015 10:46		LSR	Data is not available	Data is not available	Oversupply Oversupply
9/5/2015 12:08			Data is not available	Data is not available	Oversupply
9/5/2015 12:15			Data is not available	Data is not available	Oversupply
9/5/2015 12:23		LSR	Data is not available	Data is not available	Oversupply
9/5/2015 12:30		LSR	Data is not available	Data is not available	Oversupply
9/5/2015 12:35	0:02	LSR	Data is not available	Data is not available	Oversupply
9/5/2015 12:42	0:01	LSR	Data is not available	Data is not available	Oversupply
9/5/2015 12:47	0:07	LSR	Data is not available	Data is not available	Oversupply
9/5/2015 13:0	0:13		Data is not available	Data is not available	Oversupply
9/5/2015 13:3	0:04		Data is not available	Data is not available	Oversupply
9/5/2015 14:14			Data is not available	Data is not available	Oversupply
9/5/2015 14:25			Data is not available	Data is not available	Oversupply
9/5/2015 15:02			Data is not available	Data is not available	Oversupply
9/5/2015 15:50			Data is not available	Data is not available	Oversupply
9/5/2015 16:03			Data is not available	Data is not available	Oversupply
9/5/2015 16:49			Data is not available	Data is not available	Oversupply
9/6/2015 6:52 9/6/2015 8:30			Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/6/2015 9:09			Data is not available		
9/6/2015 14:18			Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/6/2015 14:25		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 14:3	0:02		Data is not available	Data is not available	Oversupply
9/6/2015 14:35		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 14:40			Data is not available	Data is not available	Oversupply
9/6/2015 14:48		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 14:55	0:07	LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:0		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:2	0:09	LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:32	0:08	LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:42	0:01	LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:46		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 15:54		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 16:04		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 16:36		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 17:24		LSR	Data is not available	Data is not available	Oversupply
9/6/2015 17:32 9/7/2015 7:40	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/7/2015 7:55			Data is not available	Data is not available	Oversupply Oversupply
9/7/2015 8:00			Data is not available	Data is not available	Oversupply
9/7/2015 9:16		LSR	Data is not available	Data is not available	Oversupply
9/7/2015 10:04			Data is not available	Data is not available	Oversupply
9/7/2015 13:15		LSR	Data is not available	Data is not available	Oversupply
9/7/2015 13:20			Data is not available	Data is not available	Oversupply
9/7/2015 13:37	0:09		Data is not available	Data is not available	Oversupply
9/7/2015 13:47	0:02	LSR	Data is not available	Data is not available	Oversupply
9/7/2015 13:5	0:07	LSR	Data is not available	Data is not available	Oversupply
9/7/2015 15:53	0:06		Data is not available	Data is not available	Oversupply
9/7/2015 16:08		LSR	Data is not available	Data is not available	Oversupply
9/7/2015 16:14			Data is not available	Data is not available	Oversupply
9/7/2015 16:49			Data is not available	Data is not available	Oversupply
9/7/2015 17:14			Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/8/2015 7:0			Data is not available  Data is not available	Data is not available	Oversupply Oversupply
9/8/2015 7:40			Data is not available	Data is not available	Oversupply
9/8/2015 7:45			Data is not available	Data is not available	Oversupply
9/8/2015 9:4			Data is not available	Data is not available	Oversupply
9/8/2015 9:5			Data is not available	Data is not available	Oversupply
9/8/2015 10:00	0:04	LSR	Data is not available	Data is not available	Oversupply
9/8/2015 10:07			Data is not available	Data is not available	Oversupply
9/8/2015 10:10			Data is not available	Data is not available	Oversupply
9/8/2015 10:29		LSR	Data is not available	Data is not available	Oversupply
9/8/2015 10:34			Data is not available	Data is not available	Oversupply
9/8/2015 10:54			Data is not available	Data is not available	Oversupply
9/8/2015 11:05			Data is not available	Data is not available	Oversupply
9/8/2015 11:1 <sup>-</sup> 9/8/2015 11:1 <sup>-</sup>			Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
				Data is not available	
9/8/2015 12:20 9/8/2015 12:5		LSR LSR	Data is not available  Data is not available	Data is not available	Oversupply Oversupply
9/8/2015 13:5	0:04		Data is not available	Data is not available	Oversupply
9/8/2015 14:03			Data is not available	Data is not available	Oversupply
9/8/2015 14:0		LSR	Data is not available	Data is not available	Oversupply
9/8/2015 14:29		LSR	Data is not available	Data is not available	Oversupply
9/8/2015 17:2		LSR	Data is not available	Data is not available	Oversupply
9/8/2015 17:52			Data is not available	Data is not available	Oversupply
			Data is not available	Data is not available	Oversupply
9/9/2015 6:48				Data is not available	Oversupply
9/9/2015 6:53			Data is not available		
9/9/2015 6:53 9/9/2015 7:0	0:28	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 6:53 9/9/2015 7:05 9/9/2015 7:40	0:28 0:04	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/9/2015 6:53 9/9/2015 7:0	0:28 0:04 0:10	LSR LSR LSR	Data is not available	Data is not available	Oversupply



		PP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/9/2015 8:47 9/9/2015 9:01	0:09 1:05	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/9/2015 10:18	0:06	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 11:24	0:05	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 11:51	0:34	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 12:36 9/9/2015 12:43	0:02 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/9/2015 12:43	0:19	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 13:52	0:17	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 14:11	0:03	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 14:19	0:07	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 14:28	0:07	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 14:38 9/9/2015 14:40	0:01	LSR	Data is not available	Data is not available  Data is not available	Oversupply
9/9/2015 14:47	0:06 0:38	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/9/2015 15:29	0:01	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 15:34	0:03	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 15:39	0:26	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 16:07	0:07	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 16:17	0:01	LSR	Data is not available	Data is not available	Oversupply
9/9/2015 16:27 9/9/2015 16:53	0:02 0:01	LSR LSR	Data is not available	Data is not available	Oversupply
9/9/2015 17:00	0:25	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/10/2015 7:14	0:04	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 7:38	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 7:44	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 8:07	0:04	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 8:12	0:15	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 8:30	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 8:33 9/10/2015 8:38	0:02 0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/10/2015 8:47	0:04	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/10/2015 8:52	0:04	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 8:55	0:15	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 9:13	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 9:18	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 9:33	0:05	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 9:39 9/10/2015 9:41	0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/10/2015 9:41	0:13 0:01	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/10/2015 10:01	0:04	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:06	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:10	0:12	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:23	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:26	0:07	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:41	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 10:47 9/10/2015 10:53	0:01 0:11	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/10/2015 11:07	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:09	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:11	0:07	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:21	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:25	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:29 9/10/2015 11:45	0:12 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/10/2015 11:51	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:57	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 11:59	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2015 12:02	0:01	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 11:38	0:06	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 11:48	0:03	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 12:01 9/11/2015 12:17	0:03 0:04	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/11/2015 12:17	0:16	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/11/2015 12:56	0:15	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 13:27	0:10	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 13:39	0:03	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 13:43	0:08	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 14:07	0:03	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/11/2015 15:40 9/11/2015 16:34	0:02 0:18	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/11/2015 16:34	1:04	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/11/2015 18:09	0:03	LSR	Data is not available	Data is not available	Oversupply
9/11/2015 18:14	0:01	LSR	Data is not available	Data is not available	Oversupply
9/13/2015 9:03	0:01	LSR	Data is not available	Data is not available	Oversupply
9/13/2015 9:06	0:02	LSR	Data is not available	Data is not available	Oversupply
9/13/2015 9:24 9/13/2015 9:36	0:02 0:05	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/13/2015 9:43	0:03	LSR	Data is not available	Data is not available	Oversupply
9/13/2015 9:48	0:03	LSR	Data is not available	Data is not available	Oversupply
9/13/2015 10:01	0:03	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 6:57	0:50	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 7:48	0:58	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 8:47	0:01	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 8:52 9/14/2015 13:39	4:46 0:03	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/14/2015 13:39	0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/14/2015 13:55	0:08	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 14:04	0:24	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 14:30	0:02	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 14:37	0:01	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 14:52	0:03	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 15:00	0:18	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 15:20 9/14/2015 15:35	0:06 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/14/2015 15:38	0:12	LSR	Data is not available	Data is not available	Oversupply
	0:03	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 15:54					



Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/14/2015 16:03	0:01	LSR	Data is not available	Data is not available	Oversupply
9/14/2015 16:14	0:10		Data is not available	Data is not available	Oversupply
9/14/2015 16:30 9/14/2015 16:51	0:03 0:13	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/14/2015 10:51	0:13	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 7:18	1:10	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 8:33	0:01	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 8:51	0:16	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 9:10	0:18	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 10:19 9/15/2015 10:37	0:16 0:02	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/15/2015 10:37	0:02	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 11:02	0:01	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 11:09	0:01	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 11:17	0:09	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 11:27 9/15/2015 13:36	2:08 0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/15/2015 13:36	0:06	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 16:17	0:41	LSR	Data is not available	Data is not available	Oversupply
9/15/2015 17:02	0:04	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 6:59	0:16	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 7:16	0:13	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 7:41 9/16/2015 8:11	0:18 0:40	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/16/2015 8:53	0:07	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 9:10	0:02	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 9:13	0:05	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 10:11	0:01	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 10:23 9/16/2015 10:32	0:03 0:37	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 10:32	0:37	LSR LSR	Data is not available  Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/16/2015 11:33	0:02	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 11:37	0:02	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 11:45	0:04	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 11:52	0:07	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 12:04 9/16/2015 12:53	0:45 0:14	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/16/2015 12:55	0:14	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 14:04	0:03	LSR	Data is not available	Data is not available	Oversupply
9/16/2015 16:07	1:11	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 6:55	0:13	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 7:09	4:45	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 12:07 9/17/2015 12:31	0:01 0:08	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/17/2015 12:31	0:00	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 13:43	0:12	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 13:56	2:26	LSR	Data is not available	Data is not available	Oversupply
9/17/2015 16:56	0:48	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 6:57 9/18/2015 7:12	0:11 0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/18/2015 7:12	0:20	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 7:50	0:20	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 8:19	1:02	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 10:10	0:01	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 10:29 9/18/2015 10:40	0:04 0:21	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
9/18/2015 10:40	0:02	LSR	Data is not available	Data is not available	Oversupply Oversupply
9/18/2015 11:06	0:03	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 11:22	0:08	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 11:37	0:05	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 12:05	1:08	LSR	Data is not available	Data is not available  Data is not available	Oversupply
9/18/2015 13:43 9/18/2015 16:19	1:37 0:03	LSR LSR	Data is not available  Data is not available	Data is not available	Oversupply Oversupply
9/18/2015 16:32	0:58	LSR	Data is not available	Data is not available	Oversupply
9/18/2015 17:38	0:04	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 6:47	0:05	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 7:00	0:21	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 7:28	0:22 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/19/2015 7:51 9/19/2015 7:55	1:09	LSR	Data is not available  Data is not available	Data is not available	Oversupply Oversupply
9/19/2015 9:06	0:26	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 9:33	0:13	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 9:49	0:21	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 10:15	0:12	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 10:33 9/19/2015 10:49	0:13 0:23	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/19/2015 10:49	0:02	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 11:24	0:35	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 12:10	0:23	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 12:34	0:03	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 12:40 9/19/2015 13:11	0:20	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/19/2015 13:11	0:01 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/19/2015 13:25	0:02	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 13:32	0:21	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 15:43	0:02	LSR	Data is not available	Data is not available	Oversupply
9/19/2015 16:14	0:03	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 6:49	0:03 0:08	LSR	Data is not available	Data is not available  Data is not available	Oversupply
9/20/2015 6:55 9/20/2015 7:09	0:08	LSR LSR	Data is not available Data is not available	Data is not available	Oversupply Oversupply
9/20/2015 7:03	0:02	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 8:44	0:15	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 9:08	0:05	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 9:14	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 9:16 9/20/2015 9:28	0:04 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 9:28	0:01	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/20/2015 9:36	0:03	LSR	Data is not available	Data is not available	Oversupply
					***



Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/20/2015 10:28	0:25	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 10:57 9/20/2015 11:16	0:02 0:10	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 11:49	0:14	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 12:39	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 12:59 9/20/2015 13:04	0:04	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 13:08	0:02	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 13:16	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 13:20	0:04	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 13:25 9/20/2015 13:51	0:24 0:02	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 14:20	0:12	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 14:33	0:03	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 14:46 9/20/2015 16:22	0:09 0:19	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 16:43	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 16:47	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2015 16:50	0:02	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/20/2015 17:27 9/20/2015 17:34	0:04 0:12	LSR LSR	Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/20/2015 17:47	0:02	LSR	Data is not available	Data is not available	Oversupply
9/21/2015 7:11	0:03	LSR	Data is not available	Data is not available	Oversupply
9/21/2015 7:27 9/21/2015 8:41	0:03 7:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/21/2015 15:44	0:04	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 6:57	0:11	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 7:16	0:21	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 7:41 9/22/2015 8:30	0:48 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/22/2015 8:34	0:01	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 8:36	4:18	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 13:06 9/22/2015 14:59	0:41 0:34	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/22/2015 14:59	0:34	LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/22/2015 15:55	0:05	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 16:05	0:01	LSR	Data is not available	Data is not available	Oversupply
9/22/2015 16:08 9/22/2015 16:19	0:01 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/22/2015 16:27	0:02	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 7:03	0:19	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 7:31 9/23/2015 7:53	0:15 0:02	LSR LSR	Data is not available	Data is not available	Oversupply Oversupply
9/23/2015 7.53	0:02	LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply
9/23/2015 8:06	0:06	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 9:11	0:07	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 9:29 9/23/2015 9:31	0:01 0:16	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/23/2015 10:11	0:10	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 10:19	0:04	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 10:25	0:06	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 10:41 9/23/2015 11:17	0:10	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/23/2015 11:48	0:08	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 11:57	0:10	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 12:08 9/23/2015 14:02	0:03 0:07	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/23/2015 14:10	0:07	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 14:22	0:28	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 14:51	0:25	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 15:24 9/23/2015 15:39	0:14 0:08	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/23/2015 15:55	0:04	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 16:01	0:03	LSR	Data is not available	Data is not available	Oversupply
9/23/2015 16:19 9/23/2015 16:56	0:10 0:49	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/24/2015 7:26	0:49	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 7:31	0:06	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 7:53 9/24/2015 8:14	0:18 1:05	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
9/24/2015 8:14	0:06	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/24/2015 11:32	0:05	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 11:50	0:01	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 11:55 9/24/2015 11:59	0:01 0:11	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/24/2015 11:59	0:02	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 13:02	0:01	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 13:27	0:01	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 13:34 9/24/2015 14:35	0:05 0:03	LSR LSR	Data is not available  Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/24/2015 14:35	0:03	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 15:36	0:01	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 16:03 9/24/2015 16:10	0:02 0:03	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/24/2015 16:10	0:03	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 16:28	0:08	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 16:37	0:06	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 16:44 9/24/2015 16:48	0:02 0:04	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/24/2015 16:57	0:02	LSR	Data is not available	Data is not available	Oversupply
9/24/2015 17:01	0:40	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 7:51	0:01	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 7:56 9/25/2015 7:59	0:01 0:08	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/25/2015 8:16	0:19	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 8:42	0:16	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 9:00 9/25/2015 9:28	0:27 0:23	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
5/25/2015 3.20	0.23	LOIN	Data to not available	Satu to Hot available	отогоарріу



Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/25/2015 9:55	0:03	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 10:00 9/25/2015 10:05	0:03 0:02	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/25/2015 10:13	0:01	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 10:39	0:42	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 11:22 9/25/2015 11:31	0:08	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/25/2015 11:52	0:03	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 11:56	0:01	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 12:02	0:06	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 12:17 9/25/2015 13:22	0:06 0:03	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/25/2015 13:26	0:03	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 13:45	0:10	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 14:39 9/25/2015 14:41	0:01 0:11	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/25/2015 14:41	0:01	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 15:13	0:02	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 15:27	0:08	LSR	Data is not available	Data is not available	Oversupply
9/25/2015 15:44 9/25/2015 16:42	0:29 0:16	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 7:00	0:05	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 7:09	0:08	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 7:19	0:01	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 8:19 9/26/2015 8:33	0:03	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 8:58	0:03	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 9:20	0:01	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 9:23 9/26/2015 9:46	0:16 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 9:46	0:01	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/26/2015 9:55	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 10:02	0:07	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 10:18 9/26/2015 10:22	0:02 0:01	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 10:26	0:01	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 10:31	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 11:43	0:09	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 11:54 9/26/2015 12:00	0:05 0:08	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 12:10	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 12:13	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 12:17 9/26/2015 12:25	0:06 0:06	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/26/2015 12:25	0:00	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 13:39	0:05	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 13:45	0:27	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 14:13 9/26/2015 14:46	0:31 1:14	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/26/2015 16:02	0:01	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 16:08	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2015 16:12 9/26/2015 16:32	0:01 0:27	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply
9/26/2015 16:32	0:02	LSR	Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/27/2015 8:11	0:02	LSR	Data is not available	Data is not available	Oversupply
9/27/2015 8:22	0:01	LSR	Data is not available	Data is not available	Oversupply
9/27/2015 8:31 9/27/2015 8:44	0:01 0:13	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/27/2015 10:14	0:17	LSR	Data is not available	Data is not available	Oversupply
9/27/2015 10:33	0:05	LSR	Data is not available	Data is not available	Oversupply
9/27/2015 10:43 9/27/2015 10:47	0:02 0:07	LSR LSR	Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/28/2015 10.47	0:16	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/28/2015 7:18	0:04	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 7:40	0:10	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 7:58 9/28/2015 8:22	0:15 0:18	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/28/2015 8:22	0:18	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/28/2015 9:06	0:14	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 9:24	0:02	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 9:31 9/28/2015 9:44	0:07 0:44	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/28/2015 10:29	0:21	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 10:52	2:23	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 13:18 9/28/2015 13:26	0:05 0:04	LSR LSR	Data is not available  Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/28/2015 13:26	0:04	LSR	Data is not available  Data is not available	Data is not available	Oversupply
9/28/2015 14:18	2:07	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 16:34	0:03	LSR	Data is not available	Data is not available	Oversupply
9/28/2015 16:41 9/28/2015 16:57	0:02 0:03	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/28/2015 17:35	0:03	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 7:50	0:17	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 8:14	0:24	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 8:39 9/29/2015 8:48	0:08 0:04	LSR LSR	Data is not available Data is not available	Data is not available  Data is not available	Oversupply Oversupply
9/29/2015 8:55	0:04	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 9:11	0:08	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 9:26	0:13	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 9:40 9/29/2015 10:24	0:43 0:01	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/29/2015 11:01	0:03	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 11:13	4:22	LSR	Data is not available	Data is not available	Oversupply
9/29/2015 15:37 9/29/2015 15:58	0:18 0:01	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
9/29/2015 15:58	1:45	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 6:58	0:14	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 7:13	1:27	LSR	Data is not available	Data is not available	Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 13 OF 14



Lanai Curtailment Report August 2015

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/30/2015 8:41	0:19	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 9:03	0:24	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 9:28	0:08	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 9:49	0:35	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 10:25	3:16	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 13:42	0:19	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 14:02	1:50	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 15:53	0:08	LSR	Data is not available	Data is not available	Oversupply
9/30/2015 16:50	0:15	LSR	Data is not available	Data is not available	Oversupply
NI /					

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.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 14 OF 14

#### Hawai'i Electric Light Company Curtailment Report September 2015

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released <sup>1</sup>	IPP	Reason for Curtailment
09/08/15 08:11	0.0 MW	09/08/15 15:19	0.0 MW	Tawhiri	Facility requested
09/26/15 17:13	16.4 MW	09/26/15 19:00	15.0 MW	Tawhiri	Facility requested

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