

2016 SEP 15 P 3:54

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

PUBLIC UTILITIES
COMMISSION

Dear Commissioners:

Subject: Docket No. 2011-0206

Reliability Standards Working Group Monthly Report

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies' monthly report for August 2016 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

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

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

Sincerely,

Daniel G. Brown

Manager

Regulatory Non-Rate Proceedings

Enclosure

c: Service List

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

SERVICE LIST (Docket No. 2011-0206)

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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 August 31, 2016):

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 August 31, 2016):

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

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

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

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

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

Hawaiian Electric's demand response activations for system events is provided in Attachment 5. 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.

- (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.

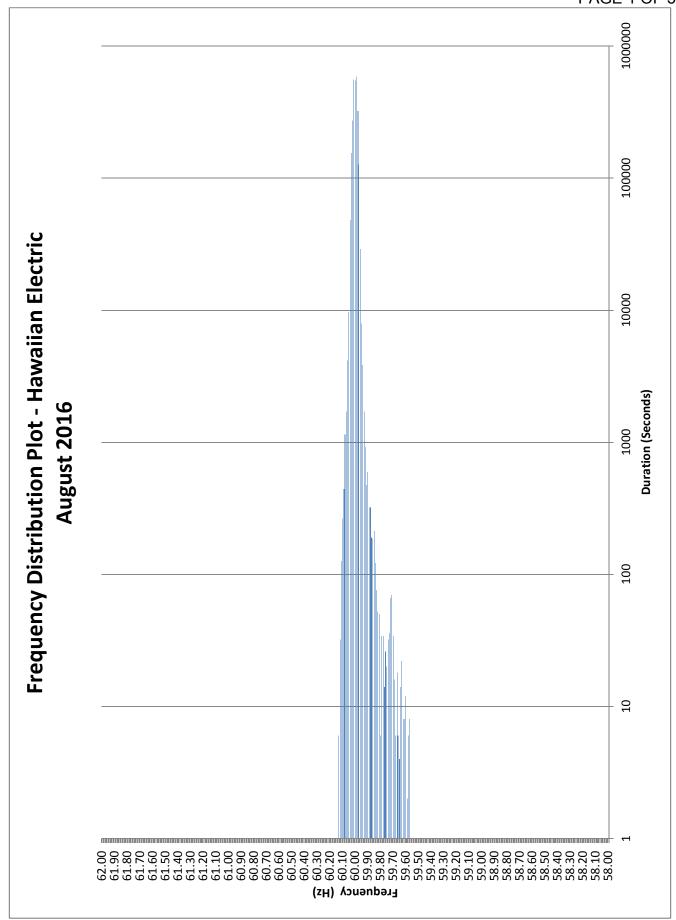
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending August 31, 2016):

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

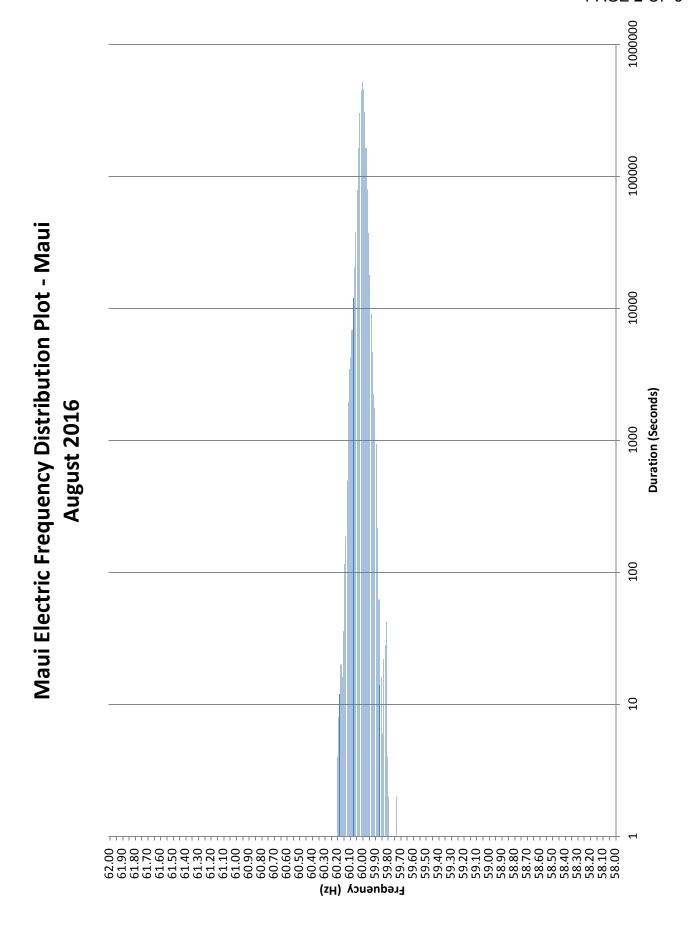
The tabulation of each curtailment event for each resource is provided in Attachment 6.

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

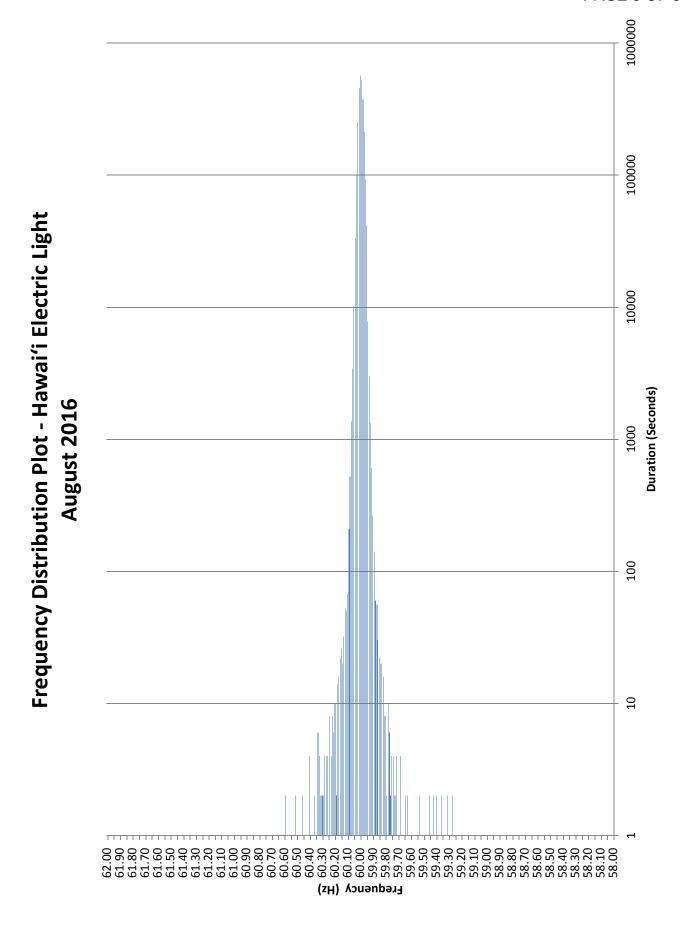
Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. The Hawaiian Electric Companies do not make any representations as to the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



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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 Excursion Statistics | | | | | | | | |
|--|-----------|-----------|--|--|--|--|--|--|
| August 2016 | | | | | | | | |
| Data Rounded to the nearest | <59.95 Hz | >60.05 Hz | | | | | | |
| Number of Excursions | 616 | 663 | | | | | | |
| Maximum Duration (sec) | 866 | 884 | | | | | | |
| Maximum Deviation (Hz) | 59.567 | 60.13 | | | | | | |
| Total Duration of Excursions (sec) | 12238 | 10826 | | | | | | |

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| Maui Electric Frequency Excursion Statistics August 2016 | | | | | | | |
|--|-----------|-----------|--|--|--|--|--|
| | <59.95 Hz | >60.05 Hz | | | | | |
| Number of Excursions | 8895 | 8755 | | | | | |
| Maximum Duration (sec) | 506 | 538 | | | | | |
| Maximum Deviation (Hz) | 59.7344 | 60.197 | | | | | |
| Total Duration of Excursions (sec) | 51940 | 65412 | | | | | |

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| Hawai'i Electric Light Frequency Excursion Statistics | | | | | | | |
|---|-----------|-----------|--|--|--|--|--|
| August 2016 | | | | | | | |
| | <59.95 Hz | >60.05 Hz | | | | | |
| Number of Excursions | 6852 | 2205 | | | | | |
| Maximum Duration (sec) | 116 | 142 | | | | | |
| Maximum Deviation (Hz) | 59.266 | 60.590 | | | | | |
| Total Duration of Excursions (sec) | 33830 | 9734 | | | | | |

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HAWAIIAN ELECTRIC COMPANY, INC. CONTINGENCY RESERVE ACTIVATION EVENTS AUGUST 2016

| | | F | requency (H | (z) | | | |
|---------|----------------|-------------------|-------------|-------------|--|---------------------|---|
| Event # | Date & Time | Prior to Event | Nadir | Trigger | Spinning Reserve Shortfall (MW) | Duration (HH:MM) | Description |
| 1 | 08/04/16 17:52 | 60.06 | 59.69 | NA | -82.00 | 0:15 | AES decreased output from ~192 MW to 7 MW. |
| 2 | 08/17/16 00:08 | 59.99 | 59.57 | NA | -53.00 | 0:07 | K5 tripped offline while generating ~12 MW. |
| 3 | 08/21/16 16:37 | 60.02 | 59.76 | NA | -13.00 | 0:07 | HPOWER TG2 tripped offline while generating ~32 MW. W10 called online for spinning reserve. |
| 4 | 08/22/16 12:14 | 59.98 | 59.88 | NA | -30.00 | 0:03 | W9 tripped offline while generating ~17 MW. |
| 5 | 08/26/16 09:17 | 60.01 | 59.82 | NA | -3.00 | 0:05 | W5 tripped offline while generating ~30 MW. |
| | | | | | | | |

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HAWAII ELECTRIC LIGHT COMPANY, INC. UNDERFREQUENCY LOAD SHEDDING EVENTS AUGUST 2016

| | | | Frequency (Hz) | | | | | |
|---------|-----------|---------|----------------|-------|------------|-----------|----------|------------------------------|
| | | | Prior to | | Level UFLS | Load Shed | Duration | |
| Event # | Date | Time | Event | Nadir | Occurred | (MW) | (HH:MM) | Description |
| 1 | 8/16/2016 | 5:21 AM | 59.98 | 59.24 | 59.50 | 4.58 | 00:03 | Keahole CT-5 tripped offline |
| | | | | | | | | |
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HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS AUGUST 2016

| | | Fr | Frequency (Hz) | | | | |
|---------|----------------|-------------------|----------------|---------|----------------------|---------------------|---|
| Event # | Date & Time | Prior to Event | Nadir | Trigger | Load Shed (MW) | Duration (HH:MM) | Description |
| 1 | 08/04/16 17:59 | 60.06 | 59.69 | 59.7 | NA | 0:05 | AES decreased output from ~192 MW to 7 MW. RDLC activated. |
| 2 | 08/17/16 00:08 | 59.99 | 59.57 | 59.7 | NA | 0:05 | K5 tripped offline while generating ~12 MW. RDLC activated. |
| | | | • | | | | |

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Hawaiian Electric Curtailment Report August 2016

| | | MW output | | MW output after | Estimated MWh of curtailed | | |
|-----------------|-------------|----------------|----------------|--------------------|----------------------------------|-------|------------------------|
| | Curtailment | prior to start | | curtailment | energy during | | |
| Start Date/Time | Set Point | of curtailment | End Date/Time | released | event (1) | IPP | Reason for Curtailment |
| 08/05/16 06:44 | 0.0 | 17.60 | 08/05/16 08:00 | 0 | * | KWF | System constraints |
| 08/05/16 06:48 | 0.0 | 3.20 | 08/05/16 08:02 | 0 | * | Makai | System constraints |
| 08/05/16 17:47 | 0.0 | 16.60 | 08/05/16 18:59 | 0 | * | KWF | System constraints |
| 08/05/16 17:51 | 0.0 | 2.00 | 08/05/16 19:00 | 0 | * | Makai | System constraints |
| 08/12/16 07:18 | 0.0 | 1.00 | 08/13/16 10:30 | 0 | * | KREP | 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

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

^{*} Data has not been provided by IPP.



| Start Date and Time D | Ouration | IPP Curtailed | Estimated Curtailed MWH F | eak MW Curtailed | Reasons for Curtailment |
|---|--|--|---|--|---|
| 8/1/2016 4:04 | 0:01 | AWE | 0.011 | 19.040 | Oversupply |
| 8/1/2016 4:09 | 0:02 | AWE | 0.005 | 19.220 | Oversupply |
| 8/1/2016 4:12 | 0:03 | AWE | 0.030 | 20.173 | Oversupply |
| 8/1/2016 4:22 8/1/2016 9:47 | 0:07 | AWE KWPII | 0.042 0.015 | | Oversupply Oversupply |
| 8/1/2016 10:55 | 0:44 | KWPII | 5.638 | | Oversupply |
| 8/1/2016 11:05 | 0:06 | AWE | 0.158 | | Oversupply |
| 8/1/2016 11:14 | 0:01 | AWE | 0.000 | 20.993 | Oversupply |
| 8/1/2016 11:16 | 0:12 | AWE | 0.182 | | Oversupply |
| 8/1/2016 11:29 | 0:04 | AWE | 0.014 | | Oversupply |
| 8/1/2016 11:41 | 0:02 | KWPII | 0.070 0.799 | | Oversupply |
| 8/1/2016 11:45 8/1/2016 11:53 | 0:07 0:04 | KWPII | 0.799 | | Oversupply Oversupply |
| 8/1/2016 11:58 | 0:05 | KWPII | 0.209 | | Oversupply |
| 8/1/2016 12:08 | 0:01 | KWPII | 0.015 | | Oversupply |
| 8/1/2016 12:21 | 0:01 | KWPII | 0.006 | | Oversupply |
| 8/1/2016 12:51 | 0:02 | KWPII | 0.036 | 11.773 | Oversupply |
| 8/1/2016 14:32 | 0:05 | KWPII | 0.231 | | Oversupply |
| 8/1/2016 14:33 | 0:01 | AWE | 0.015 | | Oversupply |
| 8/1/2016 14:38 | 0:04 | KWPII | 0.202 | | Oversupply |
| 8/1/2016 14:45 | 0:13 | KWPII | 0.495 | | Oversupply |
| 8/1/2016 15:15 8/1/2016 15:20 | 0:04 | KWPII | 0.245 4.508 | | Oversupply Oversupply |
| 8/1/2016 15:26 | 0:01 | AWE | 0.001 | 20.960 | Oversupply |
| 8/1/2016 15:52 | 0:22 | KWPII | 1.831 | | Oversupply |
| 8/1/2016 22:23 | 0:03 | KWPII | 0.143 | | Oversupply |
| 8/1/2016 22:28 | 0:10 | KWPII | 0.752 | | Oversupply |
| 8/2/2016 3:38 | 0:03 | AWE | 0.067 | 17.300 | Oversupply |
| 8/2/2016 3:38 | 0:04 | KWPII | 0.014 | | Oversupply |
| 8/2/2016 3:50 | 0:02 | KWPII | 0.014 | | Oversupply |
| 8/2/2016 3:50 8/2/2016 3:53 | 0:07 | AWE KWPII | 0.175 | | Oversupply |
| 8/2/2016 3:53 8/2/2016 3:58 | 0:04 | AWE | 0.043 0.952 | 0.705 20.200 | Oversupply Oversupply |
| 8/2/2016 3:58 | 1:18 | KWPII | 11.017 | | Oversupply |
| 8/2/2016 4:22 | 0:01 | AWE | 0.008 | | Oversupply |
| 8/2/2016 4:26 | 0:04 | AWE | 0.074 | 20.397 | Oversupply |
| 8/2/2016 4:31 | 0:09 | AWE | 0.217 | 20.940 | Oversupply |
| 8/2/2016 4:41 | 0:22 | AWE | 1.303 | 20.813 | Oversupply |
| 8/2/2016 5:04 | 0:02 | AWE | 0.041 | | Oversupply |
| 8/2/2016 5:19 | 0:14 | KWPII | 1.072 | 14.348 | Oversupply |
| 8/2/2016 5:47 8/2/2016 6:26 | 0:01 | KWPII | 0.002 | | Oversupply Oversupply |
| 8/2/2016 6:42 | 1:34 | KWPII | 0.333 9.659 | | Oversupply |
| 8/2/2016 8:27 | 0:03 | KWPII | 0.008 | | Oversupply |
| 8/2/2016 8:34 | 0:11 | KWPII | 0.241 | | Oversupply |
| 8/2/2016 8:48 | 0:35 | KWPII | 2.400 | | Oversupply |
| 8/2/2016 9:24 | 1:59 | KWPII | 11.823 | | Oversupply |
| 8/2/2016 11:24 | 0:01 | KWPII | 0.043 | | Oversupply |
| 8/2/2016 12:28 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/2/2016 12:33 | 0:04 | KWPII | 0.103 | | Oversupply |
| 8/2/2016 12:55 8/2/2016 13:04 | 0:01 0:04 | KWPII | 0.008 0.105 | | Oversupply Oversupply |
| 8/2/2016 13:10 | 0:40 | KWPII | 3.610 | | Oversupply |
| 8/2/2016 14:03 | 0:02 | KWPII | 0.031 | | Oversupply |
| 8/2/2016 14:21 | 0:05 | KWPII | 0.073 | 20.558 | Oversupply |
| 8/2/2016 14:28 | 0:03 | KWPII | 0.039 | | Oversupply |
| 8/2/2016 14:47 | 0:01 | KWPII | 0.003 | | Oversupply |
| 8/3/2016 2:18 | 1:10 | KWPII | 8.660 | | Oversupply |
| 8/3/2016 3:41 | 1:46 | KWPII | 7.437 | | Oversupply |
| 8/3/2016 5:28 | 0:04 | KWPII | 0.069 | | Oversupply |
| 8/3/2016 5:51 8/3/2016 7:42 | 0:01 0:04 | KWPII | 0.004 0.045 | | Oversupply Oversupply |
| 8/3/2016 7:50 | 0:01 | KWPII | 0.008 | | Oversupply |
| 8/3/2016 8:07 | 0:20 | KWPII | 0.918 | | Oversupply |
| 8/3/2016 10:54 | 0:01 | KWPII | 0.009 | | Oversupply |
| 8/3/2016 10:57 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/3/2016 13:05 | 0:02 | KWPII | 0.093 | | Oversupply |
| 8/3/2016 13:10 | 1:10 | KWPII | 5.858 | | Oversupply |
| 8/3/2016 22:22 | 0:03 | KWPII | 0.031 | | Oversupply |
| 8/3/2016 22:48 8/3/2016 23:44 | 0:02 | KWPII | 0.018 0.019 | | Oversupply Oversupply |
| 8/3/2016 23:49 | 3:00 | KWPII | 23.076 | | Oversupply |
| 8/4/2016 4:51 | 0:10 | KWPII | 0.398 | | Oversupply |
| 8/4/2016 5:04 | 1:15 | KWPII | 7.638 | 20.708 | Oversupply |
| 8/4/2016 7:52 | 0:08 | KWPII | 0.112 | 20.703 | Oversupply |
| 8/4/2016 8:07 | 0:01 | KWPII | 0.003 | 20.706 | Oversupply |
| 8/4/2016 10:26 8/4/2016 10:33 | 0:02 | KWPII | 0.007 | | Oversupply |
| 8/4/2016 10:33 8/4/2016 10:36 | 0:02 | KWPII | 0.011 0.012 | | Oversupply Oversupply |
| 8/4/2016 10:43 | 0:01 | KWPII | 0.742 | | Oversupply |
| 8/4/2016 11:05 | 0:20 | KWPII | 0.006 | | Oversupply |
| 8/4/2016 14:16 | 0:01 | KWPII | 0.001 | 20.346 | Oversupply |
| 8/4/2016 15:51 | 0:10 | KWPII | 0.280 | 20.665 | Oversupply |
| 8/4/2016 16:13 | 0:01 | KWPII | 0.004 | 20.698 | Oversupply |
| 8/5/2016 0:21 | 0:04 | KWPII | 0.071 | | Oversupply |
| 8/5/2016 0:45 | 0:10 | KWPII | 0.404 | | Oversupply |
| 8/5/2016 1:50 8/5/2016 3:06 | 0:34 | KWPII | 2.063 0.031 | | Oversupply Oversupply |
| 8/5/2016 3:06 | 0:03 | AWE | 0.000 | | Oversupply |
| 8/5/2016 10:15 | 0:12 | KWPII | 0.428 | | Oversupply |
| 8/5/2016 10:40 | 1:20 | KWPII | 9.782 | 20.707 | Oversupply |
| 8/5/2016 12:01 | 0:43 | KWPII | 2.785 | 20.708 | Oversupply |
| 8/5/2016 12:50 | 0:29 | KWPII | 1.237 | 20.706 | Oversupply |
| | 0:16 | KWPII | 0.458 | | Oversupply |
| 8/5/2016 22:58 | 0:01 | AWE | 0.000 | | Oversupply |
| 8/6/2016 14:35 | | AWE | 0.000 | | Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 | 0:01 | | | 0.000 | Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 | 0:01 | KWPII | 0.000 | 15 050 | |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 | 0:01 0:06 | KWPII KWPII | 0.284 | 15.859 17.629 | |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 8/8/2016 8:35 | 0:01 0:06 0:07 | KWPII KWPII | 0.284 0.224 | 17.629 | Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 | 0:01 0:06 | KWPII KWPII | 0.284 | 17.629 18.142 | Oversupply Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 8/8/2016 8:35 8/8/2016 8:43 8/9/2016 3:38 8/9/2016 3:41 | 0:01 0:06 0:07 0:01 0:01 0:01 | KWPII KWPII KWPII KWPII KWPII | 0.284 0.224 0.039 0.004 0.002 | 17.629 18.142 17.974 19.580 | Oversupply Oversupply Oversupply Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 8/8/2016 8:35 8/8/2016 8:43 8/9/2016 3:38 8/9/2016 3:41 8/9/2016 7:54 | 0:01 0:06 0:07 0:01 0:01 0:01 0:01 | KWPII KWPII KWPII KWPII KWPII KWPII | 0.284 0.224 0.039 0.004 0.002 0.025 | 17.629 18.142 17.974 19.580 18.611 | Oversupply Oversupply Oversupply Oversupply Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 8/8/2016 8:25 8/8/2016 8:43 8/9/2016 3:41 8/9/2016 7:54 8/9/2016 3:41 | 0:01 0:06 0:07 0:01 0:01 0:01 0:01 0:01 | KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII | 0.284 0.224 0.039 0.004 0.002 0.025 0.508 | 17.629 18.142 17.974 19.580 18.611 19.157 | Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply |
| 8/6/2016 14:35 8/6/2016 14:37 8/7/2016 6:13 8/8/2016 8:28 8/8/2016 8:35 8/8/2016 8:43 8/9/2016 3:38 8/9/2016 3:41 8/9/2016 7:54 | 0:01 0:06 0:07 0:01 0:01 0:01 0:01 | KWPII KWPII KWPII KWPII KWPII KWPII | 0.284 0.224 0.039 0.004 0.002 0.025 | 17.629 18.142 17.974 19.580 18.611 19.157 20.283 | Oversupply Oversupply Oversupply Oversupply Oversupply |



| | Duration | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed | Reasons for Curtailment |
|------------------------------------|--------------|----------------|-------------------------|-------------------|-------------------------|
| 8/9/2016 22:29 | 0:03 | KWPII | 0.047 | | Oversupply |
| 8/9/2016 22:44 8/9/2016 23:22 | 0:10 0:05 | KWPII | 0.293 0.095 | | Oversupply Oversupply |
| 8/10/2016 0:19 | 0:19 | KWPII | 0.855 | | Oversupply |
| 8/10/2016 0:46 | 1:49 | KWPII | 20.282 | | Oversupply |
| 8/10/2016 1:48 | 0:01 | AWE | 0.001 | | Oversupply |
| 8/10/2016 2:41 | 0:01 | KWPII | 0.010 | | Oversupply |
| 8/10/2016 2:43 8/10/2016 2:53 | 0:09 1:13 | KWPII | 0.206 7.911 | | Oversupply Oversupply |
| 8/10/2016 4:47 | 0:22 | KWPII | 1.865 | | Oversupply |
| 8/10/2016 8:22 | 0:15 | KWPII | 0.744 | 20.707 | Oversupply |
| 8/10/2016 8:52 | 0:04 | KWPII | 0.034 | | Oversupply |
| 8/10/2016 8:57 | 0:14 | KWPII | 0.220 0.002 | | Oversupply |
| 8/10/2016 9:12 8/10/2016 9:14 | 0:01 0:15 | KWPII | 0.566 | | Oversupply . Oversupply |
| 8/10/2016 9:31 | 0:02 | KWPII | 0.015 | | Oversupply |
| 8/10/2016 9:34 | 0:04 | KWPII | 0.029 | 20.658 | Oversupply |
| 8/10/2016 9:39 | 0:06 | KWPII | 0.069 | | Oversupply |
| 8/10/2016 9:46 8/10/2016 9:50 | 0:03 1:56 | KWPII | 0.006 17.963 | | Oversupply Oversupply |
| 8/10/2016 11:47 | 0:01 | KWPII | 0.013 | | Oversupply |
| 8/10/2016 11:51 | 0:01 | KWPII | 0.044 | | Oversupply |
| 8/10/2016 11:57 | 0:04 | KWPII | 0.041 | 20.391 | Oversupply |
| 8/10/2016 12:09 | 0:36 | KWPII | 3.887 | | Oversupply |
| 8/10/2016 12:48 | 0:01 | KWPII | 0.007 | | Oversupply |
| 8/10/2016 12:58 8/10/2016 13:28 | 0:01 0:45 | KWPII | 0.003 1.664 | | Oversupply Oversupply |
| 8/10/2016 22:22 | 0:05 | KWPII | 0.153 | | Oversupply |
| 8/10/2016 22:32 | 0:05 | KWPII | 0.082 | 20.708 | Oversupply |
| 8/11/2016 2:43 | 0:02 | KWPII | 0.006 | 20.708 | Oversupply |
| 8/11/2016 2:49 | 1:10 0:29 | KWPII | 3.729 | | Oversupply |
| 8/11/2016 4:00 8/11/2016 4:54 | 0:29 | KWPII | 0.885 0.007 | | Oversupply Oversupply |
| 8/11/2016 8:04 | 0:04 | KWPII | 0.039 | | Oversupply |
| 8/11/2016 8:22 | 0:01 | KWPII | 0.002 | 20.707 | Oversupply |
| 8/11/2016 8:25 | 0:05 | KWPII | 0.081 | | Oversupply |
| 8/11/2016 8:40 8/11/2016 8:43 | 0:01 2:08 | KWPII | 0.001 | | Oversupply |
| 8/11/2016 8:43 8/11/2016 10:53 | 0:03 | KWPII | 14.580 0.078 | | Oversupply Oversupply |
| 8/11/2016 10:58 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/11/2016 11:00 | 0:19 | KWPII | 1.138 | 20.594 | Oversupply |
| 8/11/2016 11:25 | 0:01 | KWPII | 0.001 | | Oversupply |
| 8/11/2016 11:48 8/11/2016 14:03 | 1:01 0:32 | KWPII | 7.026 1.250 | | Oversupply Oversupply |
| 8/11/2016 22:52 | 0:32 | KWPII | 0.300 | | Oversupply |
| 8/11/2016 23:26 | 0:25 | KWPII | 0.842 | | Oversupply |
| 8/11/2016 23:56 | 0:06 | KWPII | 0.079 | 20.708 | Oversupply |
| 8/12/2016 0:14 | 0:20 | KWPII | 1.146 | | Oversupply |
| 8/12/2016 0:47 8/12/2016 3:34 | 5:15 0:05 | KWPII AWE | 62.974 0.099 | | Oversupply Oversupply |
| 8/12/2016 3:46 | 0:03 | AWE | 0.841 | | Oversupply |
| 8/12/2016 4:16 | 0:01 | AWE | 0.000 | | Oversupply |
| 8/12/2016 4:22 | 0:04 | AWE | 0.050 | | Oversupply |
| 8/12/2016 4:29 | 0:01 | AWE | 0.004 | | Oversupply |
| 8/12/2016 4:32 8/12/2016 4:36 | 0:02 | AWE AWE | 0.004 0.019 | | Oversupply Oversupply |
| 8/12/2016 4:46 | 0:01 | AWE | 0.001 | | Oversupply |
| 8/12/2016 6:03 | 0:01 | KWPII | 0.001 | 19.974 | Oversupply |
| 8/12/2016 6:05 | 0:05 | KWPII | 0.036 | | Oversupply |
| 8/12/2016 6:11 8/12/2016 6:15 | 0:02 0:01 | KWPII | 0.008 0.001 | | Oversupply Oversupply |
| 8/12/2016 6:18 | 0:16 | KWPII | 0.352 | | Oversupply |
| 8/12/2016 7:35 | 0:01 | KWPII | 0.000 | | Oversupply |
| 8/12/2016 7:38 | 6:45 | KWPII | 90.754 | 20.708 | Oversupply |
| 8/12/2016 11:03 | 0:02 | AWE | 0.001 | | Oversupply |
| 8/12/2016 11:07 8/12/2016 11:34 | 0:02 0:01 | AWE | 0.005 0.001 | | Oversupply Oversupply |
| 8/12/2016 11:38 | 0:10 | AWE | 0.014 | | Oversupply |
| 8/12/2016 12:25 | 0:03 | AWE | 0.003 | 21.000 | Oversupply |
| 8/12/2016 12:41 | 0:02 | AWE | 0.004 | 21.000 | Oversupply |
| 8/12/2016 12:44 | 0:07 | AWE | 0.040 | | Oversupply |
| 8/12/2016 13:18 8/12/2016 13:24 | 0:02 0:05 | AWE | 0.007 0.015 | | Oversupply Oversupply |
| 8/12/2016 13:47 | 0:02 | AWE | 0.002 | | Oversupply |
| 8/12/2016 14:24 | 0:06 | KWPII | 0.101 | 20.681 | Oversupply |
| 8/13/2016 2:33 | 0:02 | KWPII | 0.006 | | Oversupply |
| 8/13/2016 2:43 8/13/2016 4:15 | 0:05 1:23 | KWPII | 0.062 10.222 | | Oversupply Oversupply |
| 8/13/2016 4:15 | 0:01 | KWPII | 0.020 | | Oversupply |
| 8/13/2016 7:44 | 0:02 | KWPII | 0.011 | 20.665 | Oversupply |
| 8/13/2016 8:09 | 0:07 | KWPII | 0.128 | 20.688 | Oversupply |
| 8/13/2016 8:36 | 0:53 | KWPII | 3.087 | | Oversupply |
| 8/13/2016 9:30 8/13/2016 14:00 | 0:02 0:01 | KWPII | 0.020 0.005 | | Oversupply Oversupply |
| 8/13/2016 14:04 | 1:08 | KWPII | 4.760 | | Oversupply |
| 8/13/2016 15:14 | 0:03 | KWPII | 0.027 | 19.955 | Oversupply |
| 8/13/2016 15:29 | 0:36 | KWPII | 1.251 | 20.581 | Oversupply |
| 8/14/2016 0:28 8/14/2016 2:05 | 0:01 0:19 | KWPII | 0.001 1.508 | | Oversupply |
| 8/14/2016 2:05 8/14/2016 2:37 | 0:19 | KWPII | 1.508 2.244 | | Oversupply Oversupply |
| 8/14/2016 3:32 | 1:44 | KWPII | 13.584 | | Oversupply |
| 8/14/2016 7:51 | 0:01 | KWPII | 0.008 | 19.547 | Oversupply |
| 8/14/2016 8:28 | 0:01 | KWPII | 0.008 | 18.764 | Oversupply |
| 8/14/2016 8:31 | 2:53 0:05 | KWPII KWPII | 25.002 | | Oversupply |
| 8/14/2016 11:26 8/14/2016 12:15 | 0:05 | KWPII | 0.057 0.502 | | Oversupply Oversupply |
| 8/14/2016 23:18 | 0:04 | KWPII | 0.038 | | Oversupply |
| 8/14/2016 23:39 | 0:26 | KWPII | 1.808 | 20.682 | Oversupply |
| 8/15/2016 0:06 | 0:05 | KWPII | 0.059 | | Oversupply |
| 8/15/2016 0:12 8/15/2016 3:41 | 3:59 0:14 | KWPII AWE | 53.197 0.444 | | Oversupply Oversupply |
| 8/15/2016 4:12 | 1:12 | KWPII | 14.509 | | Oversupply |
| 8/15/2016 8:44 | 0:06 | KWPII | 0.061 | | Oversupply |
| 8/15/2016 9:48 | 0:01 | KWPII | 0.003 | 19.900 | Oversupply |
| 8/15/2016 10:01 | 0:04 | KWPII | 0.060 | | Oversupply |
| 8/15/2016 10:19 | 0:31 | KWPII | 1.197 | 20.680 | Oversupply |
| | | | | | |



| 19-31-3-51- | | | | | |
|------------------------------------|--------------|----------------|-------------------------|-------------------|-------------------------|
| Start Date and Time | Duration | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed | Reasons for Curtailment |
| 8/15/2016 10:51 | 0:25 | KWPII | 2.684 | | Oversupply |
| 8/15/2016 11:33 8/15/2016 11:43 | 0:01 | KWPII | 0.001 0.032 | | Oversupply Oversupply |
| 8/15/2016 11:53 | 0:36 | KWPII | 1.939 | | Oversupply |
| 8/16/2016 1:05 | 2:55 | KWPII | 20.283 | | Oversupply |
| 8/16/2016 4:58 | 0:03 | KWPII | 0.114 | | Oversupply |
| 8/17/2016 11:04 | 0:01 | KWPII | 0.002 | | Oversupply |
| 8/17/2016 21:58 | 0:11 | KWPII | 0.290 | | Oversupply |
| 8/18/2016 0:58 8/18/2016 1:29 | 0:08 0:04 | KWPII | 0.445 0.100 | | Oversupply Oversupply |
| 8/18/2016 1:38 | 0:10 | KWPII | 0.382 | | Oversupply |
| 8/18/2016 2:29 | 1:29 | KWPII | 6.801 | | Oversupply |
| 8/18/2016 8:43 | 0:01 | KWPII | 0.006 | | Oversupply |
| 8/18/2016 8:45 | 0:02 | KWPII | 0.019 | | Oversupply |
| 8/18/2016 9:01 8/18/2016 9:11 | 0:09 | KWPII | 0.379 0.002 | | Oversupply Oversupply |
| 8/18/2016 11:41 | 2:09 | KWPII | 15.758 | | Oversupply |
| 8/18/2016 23:18 | 0:01 | KWPII | 0.001 | | Oversupply |
| 8/18/2016 23:21 | 0:15 | KWPII | 0.351 | | Oversupply |
| 8/18/2016 23:40 | 0:01 | KWPII | 0.001 | | Oversupply |
| 8/19/2016 0:38 8/19/2016 1:02 | 0:03 0:15 | KWPII | 0.010 0.389 | | Oversupply Oversupply |
| 8/19/2016 4:03 | 0:15 | KWPII | 0.008 | | Oversupply |
| 8/19/2016 8:25 | 0:04 | KWPII | 0.035 | | Oversupply |
| 8/19/2016 9:06 | 0:25 | KWPII | 1.120 | 20.514 | Oversupply |
| 8/19/2016 9:39 | 3:57 | KWPII | 49.441 | | Oversupply |
| 8/19/2016 13:40 | 0:02 | KWPII | 0.009 | | Oversupply |
| 8/19/2016 13:46 8/19/2016 14:54 | 0:57 0:15 | KWPII | 6.817 0.150 | | Oversupply Oversupply |
| 8/19/2016 22:35 | 0:13 | KWPII | 0.037 | | Oversupply |
| 8/19/2016 22:48 | 0:14 | KWPII | 0.975 | | Oversupply |
| 8/19/2016 23:07 | 0:08 | KWPII | 0.244 | 20.494 | Oversupply |
| 8/19/2016 23:16 | 0:04 | KWPII | 0.075 | | Oversupply |
| 8/19/2016 23:30 | 0:05 0:11 | KWPII | 0.050 | | Oversupply |
| 8/19/2016 23:37 8/19/2016 23:49 | 0:11 | KWPII | 0.399 0.066 | | Oversupply Oversupply |
| 8/19/2016 23:59 | 5:36 | KWPII | 73.023 | | Oversupply |
| 8/20/2016 5:39 | 0:05 | KWPII | 0.114 | 20.656 | Oversupply |
| 8/20/2016 6:01 | 0:20 | KWPII | 1.106 | 20.702 | Oversupply |
| 8/20/2016 6:38 | 0:03 | KWPII | 0.059 | | Oversupply |
| 8/20/2016 6:43 8/20/2016 7:11 | 0:23 0:01 | KWPII | 1.745 0.002 | | Oversupply Oversupply |
| 8/20/2016 7:16 | 0:02 | KWPII | 0.020 | | Oversupply |
| 8/20/2016 7:19 | 6:30 | KWPII | 97.192 | | Oversupply |
| 8/20/2016 11:09 | 0:02 | AWE | 0.027 | | Oversupply |
| 8/20/2016 11:14 | 0:06 | AWE | 0.136 | | Oversupply |
| 8/20/2016 11:23 | 0:02 | AWE | 0.028 | | Oversupply |
| 8/20/2016 11:29 8/20/2016 11:36 | 0:01 | AWE | 0.009 0.179 | | Oversupply Oversupply |
| 8/20/2016 11:47 | 0:04 | AWE | 0.064 | | Oversupply |
| 8/20/2016 11:52 | 0:11 | AWE | 0.284 | 20.627 | Oversupply |
| 8/20/2016 12:04 | 0:05 | AWE | 0.095 | | Oversupply |
| 8/20/2016 12:32 | 0:02 | AWE | 0.017 | | Oversupply |
| 8/20/2016 12:54 8/20/2016 12:58 | 0:02 0:03 | AWE | 0.020 0.039 | | Oversupply Oversupply |
| 8/20/2016 13:03 | 0:03 | AWE | 0.009 | | Oversupply |
| 8/20/2016 13:06 | 0:01 | AWE | 0.010 | | Oversupply |
| 8/20/2016 13:20 | 0:02 | AWE | 0.022 | | Oversupply |
| 8/20/2016 13:38 | 0:03 | AWE | 0.026 | | Oversupply |
| 8/20/2016 13:52 8/20/2016 15:18 | 1:22 0:02 | KWPII | 12.287 0.012 | | Oversupply Oversupply |
| 8/21/2016 1:43 | 0:02 | KWPII | 0.012 | | Oversupply |
| 8/21/2016 1:45 | 0:02 | KWPII | 0.030 | | Oversupply |
| 8/21/2016 1:49 | 0:28 | KWPII | 2.140 | | Oversupply |
| 8/21/2016 2:44 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/21/2016 6:29 | 0:01 | AWE | 0.000 | | Oversupply |
| 8/22/2016 12:15 8/23/2016 4:11 | 0:01 0:02 | KWPII | 0.013 0.044 | | Oversupply Oversupply |
| 8/23/2016 4:18 | 0:01 | KWPII | 0.013 | | Oversupply |
| 8/23/2016 4:21 | 0:01 | KWPII | 0.020 | 14.823 | Oversupply |
| 8/24/2016 5:18 | 0:01 | KWP | 0.000 | | Oversupply |
| 8/25/2016 2:52 | 0:01 | KWPII | 0.037 | | Oversupply |
| 8/25/2016 2:54 8/25/2016 6:14 | 2:07 0:07 | KWPII | 19.906 0.219 | | Oversupply Oversupply |
| 8/25/2016 6:24 | 0:19 | KWPII | 0.484 | | Oversupply |
| 8/25/2016 8:43 | 0:01 | KWPII | 0.000 | 20.708 | Oversupply |
| 8/25/2016 8:58 | 0:02 | KWPII | 0.009 | | Oversupply |
| 8/25/2016 9:05 8/25/2016 10:44 | 2:18 0:01 | KWPII AWE | 26.224 0.002 | | Oversupply Oversupply |
| 8/25/2016 10:44 8/25/2016 12:34 | 0:01 | KWPII | 0.002 | | Oversupply |
| 8/26/2016 0:48 | 0:13 | KWPII | 0.776 | | Oversupply |
| 8/26/2016 1:31 | 0:06 | KWPII | 0.129 | 20.379 | Oversupply |
| 8/26/2016 1:42 | 0:01 | KWPII | 0.012 | | Oversupply |
| 8/26/2016 1:49 | 0:01 | KWPII KWPII | 0.001 | | Oversupply |
| 8/26/2016 1:53 8/26/2016 4:27 | 2:13 0:09 | KWPII | 12.337 0.060 | | Oversupply Oversupply |
| 8/26/2016 4:41 | 0:09 | KWPII | 0.050 | | Oversupply |
| 8/26/2016 4:46 | 0:15 | KWPII | 0.935 | 20.708 | Oversupply |
| 8/26/2016 5:04 | 0:23 | KWPII | 0.822 | 20.708 | Oversupply |
| 8/26/2016 6:22 | 0:02 | KWPII | 0.005 | | Oversupply |
| 8/26/2016 6:25 8/26/2016 6:47 | 0:01 0:10 | KWPII | 0.001 | | Oversupply |
| 8/26/2016 6:47 8/26/2016 7:19 | 2:04 | KWPII | 0.263 14.175 | | Oversupply Oversupply |
| 8/26/2016 10:05 | 4:32 | KWPII | 47.408 | | Oversupply |
| 8/26/2016 14:44 | 0:02 | KWPII | 0.006 | 20.633 | Oversupply |
| 8/26/2016 19:03 | 0:02 | KWPII | 0.002 | 20.255 | Oversupply |
| 8/27/2016 3:27 | 0:01 | KWPII | 0.011 | | Oversupply |
| 8/27/2016 3:32 8/27/2016 4:58 | 0:54 0:15 | KWPII | 3.609 0.394 | | Oversupply Oversupply |
| 8/27/2016 13:08 | 0:15 | KWPII | 0.004 | | Oversupply |
| 8/27/2016 13:16 | 0:01 | KWPII | 0.026 | 16.760 | Oversupply |
| 8/27/2016 15:12 | 0:03 | KWPII | 0.221 | 15.627 | Oversupply |
| 8/27/2016 15:19 | 0:11 | KWPII | 0.436 | | Oversupply |
| 8/27/2016 17:51 | 0:18 0:05 | KWPII | 0.749 0.047 | | Oversupply |
| 8/27/2016 18:25 8/27/2016 19:58 | 0:05 | KWPII | 0.047 | | Oversupply Oversupply |
| | | | 0.004 | 20.700 | 1000000 |



| Start Date and Time | Duration | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed | Reasons for Curtailment |
|------------------------------------|--------------|----------------|-------------------------|-------------------|-------------------------|
| 8/27/2016 20:09 | 0:05 | KWPII | 0.135 | | Oversupply |
| 8/27/2016 20:17 | 0:15 | KWPII | 0.382 | | Oversupply |
| 8/27/2016 20:33 | 0:05 | KWPII | 0.038 | | Oversupply |
| 8/27/2016 22:06 | 0:09 | KWPII | 0.330 | | Oversupply |
| 8/27/2016 22:17 8/27/2016 23:14 | 0:19 6:20 | KWPII | 0.580 101.012 | | Oversupply Oversupply |
| 8/28/2016 1:39 | 0:26 | AWE | 1.154 | | Oversupply |
| 8/28/2016 2:14 | 2:05 | AWE | 11.839 | | Oversupply |
| 8/28/2016 4:20 | 0:01 | AWE | 0.003 | | Oversupply |
| 8/28/2016 4:22 | 0:03 | AWE | 0.025 | | Oversupply |
| 8/28/2016 4:29 | 1:00 | AWE | 4.109 | | Oversupply |
| 8/28/2016 5:36 | 1:35 | KWPII | 14.467 | | Oversupply |
| 8/28/2016 7:15 | 3:17 | KWPII | 36.044 | | Oversupply |
| 8/28/2016 10:18 | 0:04 | AWE | 0.062 | | Oversupply |
| 8/28/2016 10:34 | 1:10 | KWPII | 22.599 | | Oversupply |
| 8/28/2016 10:43 8/28/2016 11:45 | 0:48 3:03 | KWPII | 4.339 41.445 | | Oversupply Oversupply |
| 8/28/2016 12:32 | 0:27 | AWE | 0.704 | | Oversupply |
| 8/28/2016 13:15 | 0:04 | AWE | 0.004 | | Oversupply |
| 8/28/2016 14:59 | 0:02 | KWPII | 0.018 | | Oversupply |
| 8/28/2016 15:03 | 0:01 | KWPII | 0.005 | | Oversupply |
| 8/28/2016 15:09 | 0:17 | KWPII | 0.260 | | Oversupply |
| 8/28/2016 15:43 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/28/2016 22:58 | 7:16 | KWPII | 119.191 | | Oversupply |
| 8/29/2016 0:24 | 0:01 | AWE | 0.000 | | Oversupply |
| 8/29/2016 0:24 8/29/2016 0:26 | 0:01 0:01 | KWP AWE | 0.000 0.001 | | Oversupply Oversupply |
| 8/29/2016 0:26 | 0:01 | KWP | 0.001 | | Oversupply |
| 8/29/2016 0:28 | 0:07 | AWE | 0.050 | | Oversupply |
| 8/29/2016 0:28 | 0:07 | KWP | 0.050 | | Oversupply |
| 8/29/2016 0:36 | 0:07 | AWE | 0.027 | 21.000 | Oversupply |
| 8/29/2016 0:36 | 0:07 | KWP | 0.027 | 21.000 | Oversupply |
| 8/29/2016 0:44 | 0:01 | AWE | 0.001 | | Oversupply |
| 8/29/2016 0:44 | 0:01 | KWP | 0.001 | | Oversupply |
| 8/29/2016 0:47 | 0:04 | AWE | 0.010 | | Oversupply |
| 8/29/2016 0:47 8/29/2016 0:52 | 0:04 2:48 | KWP AWE | 0.010 18.869 | | Oversupply Oversupply |
| 8/29/2016 0:52 8/29/2016 0:52 | 2:48 | KWP | 18.869 | | Oversupply |
| 8/29/2016 0:32 | 0:26 | AWE | 0.973 | | Oversupply |
| 8/29/2016 3:41 | 0:26 | KWP | 0.973 | | Oversupply |
| 8/29/2016 4:09 | 0:01 | AWE | 0.011 | | Oversupply |
| 8/29/2016 4:09 | 0:01 | KWP | 0.011 | 17.220 | Oversupply |
| 8/29/2016 4:11 | 0:20 | AWE | 0.604 | | Oversupply |
| 8/29/2016 4:11 | 0:20 | KWP | 0.604 | | Oversupply |
| 8/29/2016 4:33 | 0:10 | AWE | 0.415 | | Oversupply |
| 8/29/2016 4:33 | 0:10 | KWP | 0.415 | | Oversupply |
| 8/29/2016 4:44 8/29/2016 4:44 | 0:03 | AWE KWP | 0.040 0.040 | | Oversupply Oversupply |
| 8/29/2016 4:44 | 0:03 | AWE | 0.040 | | Oversupply |
| 8/29/2016 4:55 | 0:01 | KWP | 0.001 | | Oversupply |
| 8/29/2016 4:58 | 0:01 | AWE | 0.000 | | Oversupply |
| 8/29/2016 4:58 | 0:01 | KWP | 0.000 | | Oversupply |
| 8/29/2016 7:09 | 0:11 | KWPII | 0.460 | 20.684 | Oversupply |
| 8/29/2016 7:25 | 0:09 | KWPII | 0.505 | | Oversupply |
| 8/29/2016 7:37 | 0:08 | KWPII | 0.213 | | Oversupply |
| 8/29/2016 7:58 | 0:12 | KWPII | 0.205 | | Oversupply |
| 8/29/2016 8:22 | 0:11 0:01 | KWPII | 0.262 | | Oversupply |
| 8/29/2016 8:40 8/29/2016 8:42 | 0:01 | KWPII | 0.003 0.454 | | Oversupply Oversupply |
| 8/29/2016 8:54 | 5:12 | KWPII | 58.973 | | Oversupply |
| 8/29/2016 14:09 | 1:24 | KWPII | 5.423 | | Oversupply |
| 8/29/2016 23:26 | 0:58 | KWPII | 13.442 | | Oversupply |
| 8/29/2016 23:37 | 0:02 | AWE | 0.025 | 21.000 | Oversupply |
| 8/29/2016 23:37 | 0:02 | KWP | 0.025 | | Oversupply |
| 8/30/2016 0:04 | 0:05 | AWE | 0.094 | | Oversupply |
| 8/30/2016 0:04 | 0:05 | KWP | 0.094 | | Oversupply |
| 8/30/2016 0:11 8/30/2016 0:11 | 0:06 | AWE KWP | 0.194 | | Oversupply |
| 8/30/2016 0:11 | 0:06 0:02 | AWE | 0.194 0.017 | | Oversupply Oversupply |
| 8/30/2016 0:18 | 0:02 | KWP | 0.017 | | Oversupply |
| 8/30/2016 0:26 | 0:57 | KWPII | 12.729 | | Oversupply |
| 8/30/2016 0:55 | 0:02 | AWE | 0.061 | 18.207 | Oversupply |
| 8/30/2016 0:55 | 0:02 | KWP | 0.061 | 18.207 | Oversupply |
| 8/30/2016 1:03 | 0:02 | AWE | 0.035 | | Oversupply |
| 8/30/2016 1:03 | 0:02 | KWP | 0.035 | | Oversupply |
| 8/30/2016 1:26 8/30/2016 2:15 | 1:54 0:01 | KWPII AWE | 15.942 0.009 | | Oversupply |
| 8/30/2016 2:15 | 0:01 | KWP | 0.009 | | Oversupply Oversupply |
| 8/30/2016 3:21 | 0:54 | KWPII | 4.800 | | Oversupply |
| 8/30/2016 4:19 | 0:13 | KWPII | 1.033 | | Oversupply |
| 8/30/2016 5:26 | 0:02 | KWPII | 0.081 | 18.587 | Oversupply |
| 8/30/2016 7:39 | 0:16 | AWE | 0.101 | 0.780 | Oversupply |
| 8/30/2016 7:39 | 0:16 | KWP | 0.101 | 0.780 | Oversupply |
| 8/30/2016 7:57 | 0:05 | AWE | 0.010 | | Oversupply |
| 8/30/2016 7:57 | 0:05 | KWP | 0.010 | | Oversupply |
| 8/30/2016 8:46 8/30/2016 8:46 | 0:04 0:04 | AWE KWP | 0.005 0.005 | | Oversupply Oversupply |
| 8/30/2016 9:02 | 0:04 | AWE | 0.005 | | Oversupply |
| 8/30/2016 9:02 | 0:02 | KWP | 0.001 | | Oversupply |
| 8/30/2016 9:08 | 0:39 | AWE | 0.549 | | Oversupply |
| 8/30/2016 9:08 | 0:39 | KWP | 0.549 | 2.260 | Oversupply |
| 8/30/2016 9:33 | 1:34 | KWPII | 19.535 | 20.662 | Oversupply |
| 8/30/2016 11:08 | 1:05 | KWPII | 9.401 | | Oversupply |
| 8/30/2016 12:41 | 0:42 | KWPII | 3.131 | | Oversupply |
| 8/30/2016 13:42 | 0:04 | KWPII | 0.157 | | Oversupply |
| 8/30/2016 15:17 | 0:43 | KWPII | 3.598 | | Oversupply |
| 8/30/2016 23:59 8/31/2016 1:15 | 0:01 0:01 | KWPII KWPII | 0.000 0.002 | | Oversupply Oversupply |
| 8/31/2016 1:15 | 0:01 | KWPII | 0.002 | | Oversupply |
| 8/31/2016 2:07 | 0:20 | KWPII | 0.624 | | Oversupply |
| 8/31/2016 2:28 | 1:58 | KWPII | 6.953 | | Oversupply |
| 8/31/2016 4:33 | 0:03 | KWPII | 0.017 | | Oversupply |
| 8/31/2016 8:34 | 0:01 | KWPII | 0.006 | | Oversupply |
| 8/31/2016 8:46 | 0:03 | KWPII | 0.046 | | Oversupply |
| 8/31/2016 9:00 | 0:02 | KWPII | 0.029 | | Oversupply |
| 8/31/2016 9:24 | 0:24 | KWPII | 2.651 | 17.714 | Oversupply |
| | | | | | |

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Maui Curtailment Report

August 2016

| Start Date and Time | Duration | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed | Reasons for Curtailment |
|---------------------|----------|---------------|-------------------------|-------------------|-------------------------|
| 8/31/2016 10:09 | 0:07 | KWPII | 0.169 | 17.714 | Oversupply |
| 8/31/2016 10:17 | 0:30 | KWPII | 2.751 | 17.714 | Oversupply |
| 8/31/2016 10:53 | 0:39 | KWPII | 6.462 | 17.714 | Oversupply |
| 8/31/2016 11:07 | 0:04 | AWE | 0.041 | | Oversupply |
| 8/31/2016 11:07 | 0:04 | KWP | 0.041 | | Oversupply |
| 8/31/2016 11:12 | 0:01 | AWE | 0.001 | | Oversupply |
| 8/31/2016 11:12 | 0:01 | KWP | 0.001 | | Oversupply |
| 8/31/2016 11:43 | 0:03 | KWPII | 0.094 | | Oversupply |
| 8/31/2016 11:57 | 0:02 | KWPII | 0.039 | | Oversupply |
| 8/31/2016 12:09 | 0:01 | KWPII | 0.020 | | Oversupply |
| 8/31/2016 12:58 | 0:01 | KWPII | 0.004 | | Oversupply |
| 8/31/2016 13:07 | 0:01 | KWPII | 0.000 | | Oversupply |
| 8/31/2016 13:13 | 0:01 | KWPII | 0.003 | 16.217 | Oversupply |
| Votes: | * | | | | |

Notes:

- Curtailment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAA Rent-A-Space Maui LTD ("5A"), Bioreal Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), Kaheawa Wind Power II ("KWPII") Bioreal Solar 250, LLC ("BS25") may now be controlled by Maui Electric's Automatic Generation Control System ("AGC") or a Maui Electric operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ("MAVG") that Maui Electric can accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down ("ARRD). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR). Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control lallows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment dournalled MWH and Peak MW Curtailed are calculated with information provided by SA, BS, BS 250 or MH.

- The Estimated Curtailed MWH and Peak MW Curtailed is not provided by SA, BS, BS 250 or MH.

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

- The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.

- The Bioreal Solar 250, LLC circuit breaker failed on May 5, 2016. Bioreal Solar 250, LLC plan to replace the circuit breaker and resume production.

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Lanai Curtailment Report

| ## 1500 15 | Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|--|---------------------|----------|---------------|-------------------------|-----------------------|-------------------------|
| ## 100 | 8/1/2016 8:03 | 0:01 | LSR | Data is not available | | Oversupply |
| B 12016 6-00 | | | | | | |
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| B 1907 15 10 10 10 10 10 10 10 | | | | | | |
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| BY 1971 1 2-22 DOT 1.58 DOT 1.58 DOT 1.59 DOT 1. | | | | | | |
| RECORD 12-26 OSF 15-80 Date not accelerate. Such as controlled. Su | 8/1/2016 12:27 | | LSR | Data is not available | Data is not available | Oversupply |
| B | | | | | | |
| Betto 1972 (1974) 0.007 LSR Date not available. Date not available to 1972 (1974) 0.007 LSR Date not available to 1974 (1974) 0.007 LSR Date not available | | | | | | |
| ## 07/2016 16-20 001 LSR Data in roll available Data in roll availab | 8/1/2016 12:58 | 0:01 | LSR | | Data is not available | Oversupply |
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| a 10,016 (10.66) | 8/1/2016 16:20 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
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| B22001 12-46 0-01 LSR Data is not available Dereupply | | | | | | |
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| 8/3/2016 16:44 | 8/3/2016 14:22 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
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| 8/4/2016 14:14 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 14:27 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 14:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:09 0:02 LSR Data is not available Data is not available Oversupply 8/4/2016 15:32 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 16:52 0:02 LSR Data is not available Data is not available Oversupply 8/4/2016 17:03 0:04 LSR Data is not available Data is not available Oversupply 8/4/2016 17:01 0:11 LSR Data is not available Data is not available Oversupply 8/5/2016 7:15 0:42 LSR Data is not available Data is not available Oversupply 8/5/2016 10:49 | | | | | | |
| 8/4/2016 14:27 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 14:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:09 0:02 LSR Data is not available Data is not available Oversupply 8/4/2016 15:32 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:52 0:02 LSR Data is not available Data is not available Oversupply 8/4/2016 17:03 0:04 LSR Data is not available Data is not available Oversupply 8/4/2016 17:21 0:11 LSR Data is not available Data is not available Oversupply 8/5/2016 0:16 0:04 LSR Data is not available Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 11:12 | | | | | | |
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| 8/4/2016 15:32 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 15:52 0:02 LSR Data is not available Data is not available Oversupply 8/4/2016 17:03 0:04 LSR Data is not available Data is not available Oversupply 8/4/2016 17:15 0:42 LSR Data is not available Data is not available Oversupply 8/5/2016 8:16 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 11:12 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 | | | | | | |
| 8/4/2016 15:45 0:01 LSR Data is not available Data is not available Oversupply 8/4/2016 17:03 0:04 LSR Data is not available Data is not available Oversupply 8/4/2016 17:03 0:04 LSR Data is not available Oversupply 8/4/2016 17:21 0:11 LSR Data is not available Oversupply 8/5/2016 7:15 0:42 LSR Data is not available Oversupply 8/5/2016 8:16 0:01 LSR Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Oversupply 8/5/2016 11:12 0:01 LSR Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
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| 8/4/2016 17:21 0:11 LSR Data is not available Data is not available Oversupply 8/5/2016 7:15 0:42 LSR Data is not available Data is not available Oversupply 8/5/2016 8:16 0:01 LSR Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Oversupply 8/5/2016 11:12 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/5/2016 7:15 0:42 LSR Data is not available Data is not available Oversupply 8/5/2016 8:16 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 11:12 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/5/2016 8:16 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 10:49 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 11:12 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | 8/5/2016 7:15 | 0:42 | LSR | Data is not available | Data is not available | |
| 8/5/2016 11:12 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/5/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/5/2016 12:07 0:01 LSR Data is not available Data is not available Oversupply 8/5/2016 12:12 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/5/2016 12:15 0:02 LSR Data is not available Data is not available Oversupply 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | 8/5/2016 12:07 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/5/2016 12:25 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
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Lanai Curtailment Report

| Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|----------------------------------|--------------|---------------|--|--|-------------------------|
| 8/5/2016 12:47 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/5/2016 12:59 8/5/2016 13:48 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/5/2016 13:53 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/5/2016 14:07 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/5/2016 14:09 8/5/2016 15:36 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/5/2016 16:45 | 0:38 | LSR | Data is not available | Data is not available Data is not available | Oversupply |
| 8/5/2016 17:24 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/5/2016 17:32 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 8:49 8/6/2016 9:09 | 0:01 0:06 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/6/2016 11:08 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 12:18 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 13:20 8/6/2016 13:24 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/6/2016 13:53 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 14:02 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 14:08 8/6/2016 14:33 | 0:01 0:02 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/6/2016 14:40 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 14:49 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 14:53 8/6/2016 15:15 | 0:01 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 15:15 | 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/6/2016 15:30 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 15:35 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 17:00 8/6/2016 17:07 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/6/2016 17:12 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 17:16 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/6/2016 17:49 8/7/2016 7:08 | 0:02 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 7:34 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 8:05 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 8:27 8/7/2016 9:27 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 9:53 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 9:57 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 10:28 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 10:32 8/7/2016 10:39 | 0:01 0:02 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 10:47 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 10:50 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 10:58 8/7/2016 11:13 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 11:17 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 11:24 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 11:44 8/7/2016 11:59 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 12:26 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 13:08 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 13:11 8/7/2016 13:32 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 13:42 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 13:44 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 13:49 8/7/2016 13:58 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 14:01 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 14:05 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 14:21 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 14:27 8/7/2016 14:40 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 14:52 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 16:27 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 16:38 8/7/2016 16:44 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 16:51 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 16:53 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/7/2016 17:14 8/7/2016 17:16 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/7/2016 17:16 | 0:04 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 8:13 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 8:16 8/8/2016 8:38 | 0:03 0:08 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 8:57 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 9:06 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 9:16 8/8/2016 9:27 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/8/2016 9:27 | 0:01 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 9:48 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 10:04 | 0:01 0:01 | LSR LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 10:10 8/8/2016 10:37 | 0:01 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 10:50 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 10:53 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 11:18 8/8/2016 11:24 | 0:01 0:02 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 11:32 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 11:44 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 11:53 8/8/2016 11:58 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/8/2016 11:58 8/8/2016 13:21 | 0:01 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 13:42 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 13:51 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/8/2016 13:55 | 0:03 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/8/2016 14:11 | 0:01 | | | | |

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Lanai Curtailment Report

| Start Date and Time Duration IPP Curtailed Estimated MWh Curtailed Reas MW Curtailed 8/8/2016 15:17 0.01 LSR Data is not available D | |
|--|-------------|
| Bis | |
| 8/8/2016 16:31 | |
| 8/9/2016 9:46 0.01 | |
| 8/9/2016 11:18 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 11:52 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 12:26 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 12:29 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 15:49 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 15:56 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 15:56 0:01 LSR Data is not available Data is not available Oversupply 8/9/2016 15:59 1:13 LSR Data is not available Data is not available Oversupply 8/10/2016 9:31 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 9:38 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 10:34 | |
| 8/9/2016 11:45 | |
| 8/9/2016 12:26 | |
| 8/9/2016 15:29 0:01 LSR Data is not available Oversupply 8/9/2016 15:49 0:01 LSR Data is not available Outs is not available Oversupply 8/9/2016 15:56 0:01 LSR Data is not available Oversupply 8/9/2016 15:56 1:13 LSR Data is not available Oversupply 8/10/2016 15:59 1:13 LSR Data is not available Oversupply 8/10/2016 9:31 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 9:38 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 9:38 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 10:04 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 10:11 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:14 0:02 LSR Data is not available Data is not available Oversupply </td <td></td> | |
| 8/9/2016 15:49 | |
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| 8/10/2016 7:51 0:22 | |
| 8/10/2016 9:31 0:01 LSR Data is not available Oversupply 8/10/2016 9:38 0:01 LSR Data is not available Outra is not available Oversupply 8/10/2016 9:50 0:01 LSR Data is not available Outra vailable Oversupply 8/10/2016 10:04 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 10:14 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:04 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 11:14 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 11:34 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:34 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:59 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 12:79 0:01 LSR <td></td> | |
| 8/10/2016 9:50 0:01 LSR Data is not available Oversupply 8/10/2016 10:04 0:01 LSR Data is not available Out as is not available Oversupply 8/10/2016 10:11 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 10:24 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:04 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 11:14 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 11:34 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:44 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:51 0:03 LSR Data is not available Data is not available Oversupply 8/10/2016 12:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 12:47 0:01 | |
| 8/10/2016 10:04 | |
| 8/10/2016 10:11 | |
| 8/10/2016 11:04 0:02 LSR Data is not available Oversupply 8/10/2016 11:34 0:02 LSR Data is not available Outs in on available Oversupply 8/10/2016 11:34 0:01 LSR Data is not available Outs in on available Oversupply 8/10/2016 11:34 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 11:51 0:03 LSR Data is not available Oversupply Oversupply 8/10/2016 11:59 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 12:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 12:47 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 12:54 0:03 LSR Data is not available Data is not available Oversupply 8/10/2016 13:16 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:19 0:01 LSR | |
| 8/10/2016 11:14 | |
| 8/10/2016 11:34 | |
| 8/10/2016 11:51 0:03 | |
| 8/10/2016 11:59 0:01 LSR Data is not available Oversupply 8/10/2016 12:19 0:01 LSR Data is not available Outs is not available Oversupply 8/10/2016 12:47 0:01 LSR Data is not available Obata is not available Oversupply 8/10/2016 12:54 0:03 LSR Data is not available Data is not available Oversupply 8/10/2016 13:16 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 13:37 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:42 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 14:452 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 12:19 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 12:54 0:03 LSR Data is not available Oversupply 8/10/2016 13:16 0:01 LSR Data is not available Oversupply 8/10/2016 13:37 0:01 LSR Data is not available Obata is not available Oversupply 8/10/2016 14:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:42 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 14:52 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 13:16 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 13:37 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:42 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 14:52 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 13:37 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:42 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 14:52 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 14:19 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 14:42 0:02 LSR Data is not available Data is not available Oversupply 8/10/2016 14:52 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 14:52 0:01 LSR Data is not available Data is not available Oversupply | |
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| 8/10/2016 14:59 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 15:02 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 15:12 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 15:20 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 15:22 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 15:25 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:20 0:01 LSR Data is not available Data is not available Oversupply 8/10/2016 16:26 0:04 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:35 0:06 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:42 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:46 0:06 LSR Data is not available Data is not available Oversupply 8/10/2016 16:54 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:57 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 16:59 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/10/2016 17:03 0:05 LSR Data is not available Data is not available Oversupply 8/11/2016 7:23 0:24 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 9:10 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 9:15 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 9:23 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 9:35 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 9:46 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 9:46 0:01 LSR Data is not available Oversupply | |
| 8/11/2016 9:51 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 11:42 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 11:54 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 12:01 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 12:06 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 12:34 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 12:59 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 12:59 0:02 LSR Data is not available Data is not available Oversupply 8/11/2016 13:06 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 13:12 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 13:14 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 13:27 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 14:32 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 14:47 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/11/2016 14:55 0:01 LSR Data is not available Data is not available Oversupply 8/11/2016 16:04 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 8:07 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 8:16 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 8:19 0:01 LSR Data is not available Data is not available Oversupply 8/12/2016 8:29 0:04 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 9:36 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 9:47 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 10:11 0:01 LSR Data is not available Data is not available Oversupply 8/12/2016 11:03 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 11:21 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 11:33 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 12:17 0:01 LSR Data is not available Data is not available Oversupply 8/12/2016 12:23 0:08 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 12:33 0:11 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 12:46 0:11 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 12:59 0:10 LSR Data is not available Data is not available Oversupply 8/12/2016 13:10 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 13:13 0:03 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 13:17 0:13 LSR Data is not available Data is not available Oversupply 8/12/2016 13:31 0:02 LSP Data is not available Oversupply 1. Data is not available Oversupply | |
| 8/12/2016 13:31 0:02 LSR Data is not available Data is not available Oversupply 8/12/2016 13:34 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 13:39 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 13:43 0:01 LSR Data is not available Data is not available Oversupply 8/12/2016 13:46 0:02 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 13:46 0:02 LSR Data is not available Data is not available Oversupply 8/12/2016 13:51 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 14:03 0:01 LSR Data is not available Data is not available Oversupply | |
| 8/12/2016 14:15 0:02 LSR Data is not available Data is not available Oversupply | |

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Lanai Curtailment Report

| Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|------------------------------------|--------------|---------------|--|--|-------------------------|
| 8/12/2016 14:24 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 14:27 8/12/2016 14:37 | 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/12/2016 14:41 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 14:48 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 14:59 8/12/2016 15:03 | 0:02 0:04 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/12/2016 15:11 | 0:04 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 15:20 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 15:24 | 0:10 | LSR | Data is not available | Data is not available | Oversupply |
| 8/12/2016 15:36 8/12/2016 15:55 | 0:09 0:16 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/12/2016 16:16 | 0:56 | LSR | Data is not available | Data is not available | Oversupply |
| 8/13/2016 8:44 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/13/2016 8:54 8/13/2016 8:56 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/13/2016 9:16 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/13/2016 9:31 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/13/2016 9:34 8/13/2016 9:53 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/13/2016 10:34 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/13/2016 13:49 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 8:01 8/14/2016 8:12 | 0:07 0:11 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 8:24 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 8:28 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 8:43 8/14/2016 9:04 | 0:03 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 9:06 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 9:08 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 9:10 8/14/2016 9:22 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 10:01 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 10:13 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 10:17 8/14/2016 10:19 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 10:19 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 10:49 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 10:58 8/14/2016 11:11 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 11:24 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 11:31 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 11:36 8/14/2016 11:55 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/14/2016 11:55 | 0:01 | LSR | Data is not available Data is not available | Data is not available | Oversupply Oversupply |
| 8/14/2016 14:05 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 14:11 8/14/2016 16:04 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/14/2016 16:27 | 0:01 | LSR | Data is not available | Data is not available | Oversupply Oversupply |
| 8/14/2016 16:29 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 16:34 8/14/2016 17:20 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/14/2016 17:25 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 17:29 | 0:14 | LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 17:46 | 0:01 0:01 | LSR LSR | Data is not available | Data is not available | Oversupply |
| 8/14/2016 17:50 8/15/2016 6:54 | 0:07 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 7:14 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 7:37 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 8:41 8/15/2016 8:49 | 0:02 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 8:51 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 8:53 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 8:59 8/15/2016 9:05 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 9:24 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 9:33 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 10:30 8/15/2016 11:00 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 11:02 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 11:08 | 0:01 0:01 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/15/2016 11:14 8/15/2016 11:27 | 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 12:03 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 12:08 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 14:36 8/15/2016 15:07 | 0:03 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 15:09 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 15:14 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 15:27 8/15/2016 16:00 | 0:01 0:04 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 16:08 | 0:03 | LSR | Data is not available | Data is not available | Oversupply |
| 8/15/2016 16:22 8/15/2016 16:42 | 0:01 0:01 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply |
| 8/15/2016 16:42 | 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/15/2016 17:58 | 0:05 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 6:54 | 0:02 0:03 | LSR LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 7:00 8/16/2016 7:05 | 0:03 | LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 8:22 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 8:46 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 8:55 8/16/2016 8:57 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 9:06 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 9:22 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 10:19 8/16/2016 10:42 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| J. 10/2010 10.72 | 0.01 | 20.1 | | | |

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Lanai Curtailment Report

| Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|------------------------------------|--------------|---------------|--|--|-------------------------|
| 8/16/2016 11:19 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 11:23 8/16/2016 12:01 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 12:08 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 14:06 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 14:29 8/16/2016 14:38 | 0:03 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 14:47 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 14:52 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 15:00 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 16:28 8/16/2016 16:31 | 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 16:35 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 16:37 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 16:39 8/16/2016 16:46 | 0:03 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/16/2016 17:00 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 17:05 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 17:16 | 0:02 | LSR | Data is not available | Data is not available | Oversupply |
| 8/16/2016 17:20 8/17/2016 7:53 | 0:02 0:31 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
| 8/17/2016 9:23 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/17/2016 10:43 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/17/2016 13:29 8/17/2016 13:32 | 0:01 0:01 | LSR LSR | Data is not available Data is not available | Data is not available Data is not available | Oversupply Oversupply |
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| 8/21/2016 16:37 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 12 OF 14



Lanai Curtailment Report

| Decision First Control Contr | Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|--|---------------------|----------|---------------|-------------------------|-----------------------|-------------------------|
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| 8/26/2016 7:49 0:43 LSR Data is not available Data is not available Oversupply 8/26/2016 8:33 0:13 LSR Data is not available Data is not available Oversupply | | | | | | |
| | 8/26/2016 7:49 | 0:43 | LSR | Data is not available | Data is not available | |
| | | | | | | |
| 8/26/2016 10:22 0:01 LSR Data is not available Data is not available Oversupply | 8/26/2016 10:22 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/26/2016 10:37 0:01 LSR Data is not available Data is not available Oversupply 8/26/2016 10:39 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/26/2016 10:41 0:02 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/26/2016 12:03 0:01 LSR Data is not available Data is not available Oversupply | 8/26/2016 12:03 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/26/2016 12:19 0:01 LSR Data is not available Data is not available Oversupply 8/26/2016 12:45 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/26/2016 12:52 0:01 LSR Data is not available Data is not available Oversupply | 8/26/2016 12:52 | 0:01 | LSR | Data is not available | Data is not available | |
| 8/26/2016 14:43 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/26/2016 15:37 0:01 LSR Data is not available Data is not available Oversupply 8/26/2016 16:43 0:29 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/27/2016 7:47 0:27 LSR Data is not available Data is not available Oversupply | 8/27/2016 7:47 | 0:27 | LSR | Data is not available | Data is not available | Oversupply |
| 8/27/2016 8:35 0:01 LSR Data is not available Data is not available Oversupply 8/27/2016 10:45 0:01 LSR Data is not available Data is not available Oversupply | | | | | | |
| 8/27/2016 11:16 0:01 LSR Data is not available Data is not available Oversupply | 8/27/2016 11:16 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/27/2016 12:04 0:01 LSR Data is not available Data is not available Oversupply | 8/27/2016 12:04 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |

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Lanai Curtailment Report

August 2016

| Start Date and Time | Duration | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed | Reasons for Curtailment |
|------------------------------------|--------------|---------------|-------------------------|--|-------------------------|
| 8/27/2016 12:13 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/27/2016 13:01 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/27/2016 13:08 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/27/2016 13:22 8/27/2016 13:47 | 0:01 0:02 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/27/2016 13:53 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/27/2016 13:56 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/27/2016 14:06 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/27/2016 14:22 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/27/2016 16:38 | 0:31 | LSR | | Data is not available | Oversupply |
| 8/27/2016 17:10 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/28/2016 7:45 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/28/2016 7:47 8/28/2016 7:57 | 0:02 0:02 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/28/2016 9:30 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/28/2016 11:35 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/28/2016 11:37 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/28/2016 12:01 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/28/2016 16:11 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 7:39 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/29/2016 7:45 8/29/2016 7:52 | 0:02 0:22 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/29/2016 7:52 | 0:22 | LSR | Data is not available | Data is not available | Oversupply |
| 8/29/2016 8:57 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 8:59 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 9:03 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/29/2016 9:12 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 9:27 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 9:29 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 9:56 8/29/2016 9:59 | 0:01 0:01 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/29/2016 11:17 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 11:21 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 11:43 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/29/2016 11:46 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/29/2016 11:55 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 12:58 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 13:10 8/29/2016 13:15 | 0:01 0:02 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/29/2016 13:18 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/29/2016 13:42 | 0:05 | LSR | | Data is not available | Oversupply |
| 8/29/2016 13:48 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/29/2016 13:51 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/29/2016 14:01 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 14:04 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/29/2016 16:37 | 0:06 | LSR | | Data is not available | Oversupply |
| 8/29/2016 16:44 8/30/2016 7:47 | 0:03 0:32 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/30/2016 9:41 | 0:32 | LSR | | Data is not available | Oversupply |
| 8/30/2016 9:57 | 0:12 | LSR | | Data is not available | Oversupply |
| 8/30/2016 10:10 | 1:22 | LSR | Data is not available | Data is not available | Oversupply |
| 8/30/2016 11:33 | 0:04 | LSR | | Data is not available | Oversupply |
| 8/30/2016 11:38 | 0:21 | LSR | | Data is not available | Oversupply |
| 8/30/2016 12:02 | 1:02 0:01 | LSR LSR | | Data is not available | Oversupply |
| 8/30/2016 13:13 8/30/2016 17:08 | 0:01 | LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/31/2016 6:40 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/31/2016 6:57 | 0:04 | LSR | | Data is not available | Oversupply |
| 8/31/2016 7:53 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/31/2016 15:02 | 0:03 | LSR | | Data is not available | Oversupply |
| 8/31/2016 15:09 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/31/2016 15:13 8/31/2016 15:24 | 0:05 0:01 | LSR LSR | | Data is not available Data is not available | Oversupply Oversupply |
| 8/31/2016 15:24 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/31/2016 16:02 | 0:01 | LSR | | Data is not available | Oversupply |
| 8/31/2016 16:04 | 0:09 | LSR | | Data is not available | Oversupply |
| 8/31/2016 16:22 | 0:01 | LSR | Data is not available | Data is not available | Oversupply |
| 8/31/2016 16:31 | 0:03 | LSR | | Data is not available | Oversupply |
| 8/31/2016 16:46 | 0:02 | LSR | | Data is not available | Oversupply |
| 8/31/2016 16:55 | 0:14 | LSR | | Data is not available | Oversupply |
| 8/31/2016 17:11 | 0:17 | LSR | Data is not available | Data is not available | Oversupply |

Notes:

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

LSR possible output data is not available. Therefore, Maui Electric assumes LSR is curtailed if the LSR curtailment set point is less than 1,200 kW and LSR's output is within 50 kW of the curtailment set point.

The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.

Hawai'i Electric Light Company Curtailment Report August 2016

| Start Date/Time | MW output prior to start of curtailment | End Date/Time | MW output after curtailment released ¹ | IPP | Reason for Curtailment | |
|-----------------|---|----------------|--|---------|--|--|
| 07/22/16 19:57 | 0.0 MW | 08/20/16 14:53 | 6.4 MW | HRD | System constraint: Limited to 5 MVA spare transformer at Waimea (not-to-exceed 5 MW) until primary 10 MVA 69-34kV transformer is restored after it failed during Tropical Storm Darby. | |
| 08/04/16 15:22 | 19.9 MW | 08/04/16 15:49 | 16.2 MW | Tawhiri | System constraint | |
| 08/26/16 08:35 | 0.3 MW | 08/26/16 13:37 | 0.4 MW | TGUHI1 | Oversupply / appual generator | |
| 08/26/16 09:04 | 0.1 MW | 08/26/16 13:22 | 0.0 MW | WHCC | Oversupply / annual generator emissions test | |
| 08/26/16 08:50 | 19.9 MW | 08/26/16 13:18 | 19.9 MW | Tawhiri | EIIII3310113 1E31 | |
| 08/31/16 12:13 | 18.7 MW | 09/01/16 17:22 | 18.6 MW | Tawhiri | Facility requested | |

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