



January 25, 2021

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
Kekuanao'a Building, First Floor  
465 South King Street  
Honolulu, Hawai'i 96813

Dear Commissioners:

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

In accordance with Ordering Paragraph 3 of Order No. 30371, filed May 4, 2012 in the subject proceeding, enclosed as Exhibit A is Hawaiian Electric's<sup>1</sup> monthly report for December 2020 on: (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

Any party to this proceeding may obtain an electronic copy of this report by emailing Marisa Chun at [marisa.chun@hawaiianelectric.com](mailto:marisa.chun@hawaiianelectric.com).

Sincerely,

/s/ Kevin M. Katsura

Kevin M. Katsura  
Director, Regulatory Non-Rate Proceedings

Enclosures

c: Service List

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<sup>1</sup> Hawaiian Electric Company, Inc., Maui Electric Company, Limited, and Hawai'i Electric Light Company, Inc. are each doing business as "Hawaiian Electric" and have jointly registered "Hawaiian Electric" as a trade name with the State of Hawai'i Department of Commerce and Consumer Affairs, as evidenced by Certificate of Registration No. 4235929, dated December 20, 2019.

**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 December 31, 2020):

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

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

Tabulation of the number, magnitude and duration of frequency excursions outside of the frequency range of 59.95 Hz to 60.05 Hz for Hawaiian Electric Company, Inc., Maui Electric Company, Limited (Maui Division) and Hawai'i Electric Light Company, Inc 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 December 31, 2020):

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

Hawaiian Electric Company, Inc.'s contingency reserve activations are provided in Attachment 3. Maui Electric Company, Limited and Hawai'i Electric Light Company, Inc. 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:**

Hawaiian Electric Company, Inc.'s and Hawai'i Electric Light Company, Inc.'s frequency load shed activations are provided in Attachment 4. Maui Electric Company, Limited did not have any under frequency load shed activations in the month of December.

**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 Company, Inc.'s demand response activations for system events are provided in Attachment 5. Hawai'i Electric Light Company, Inc. currently does not have a demand response program. Maui Electric Company, Limited has implemented the Fast Demand Response pilot program on a limited basis. Hawai'i Electric Light Company, Inc. plans to use the findings of Maui Electric Company, Limited's pilot program to help in the evaluation and development of future demand response programs. Maui Electric Company, Limited 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 December 31, 2020):

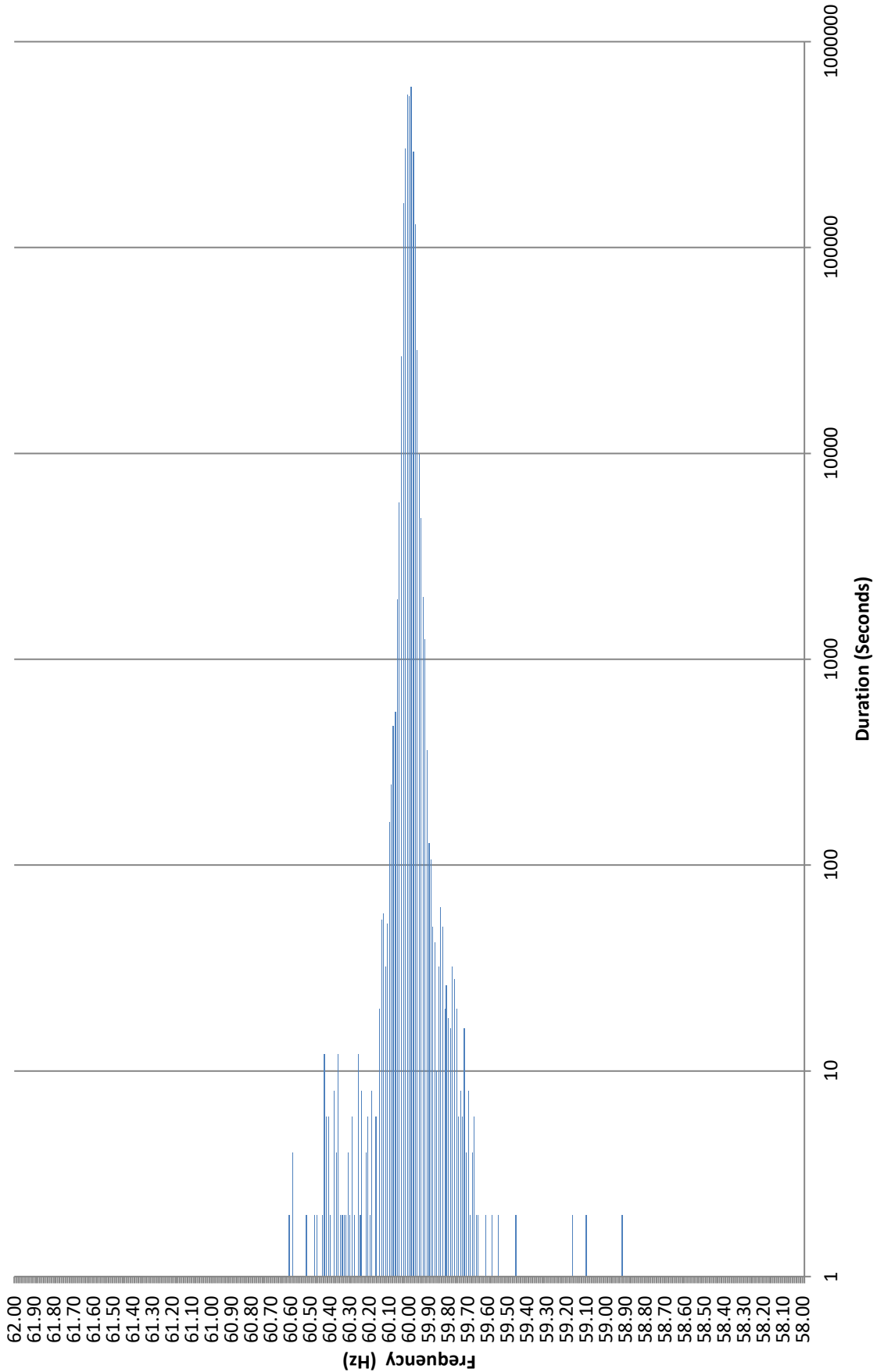
**3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:**

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

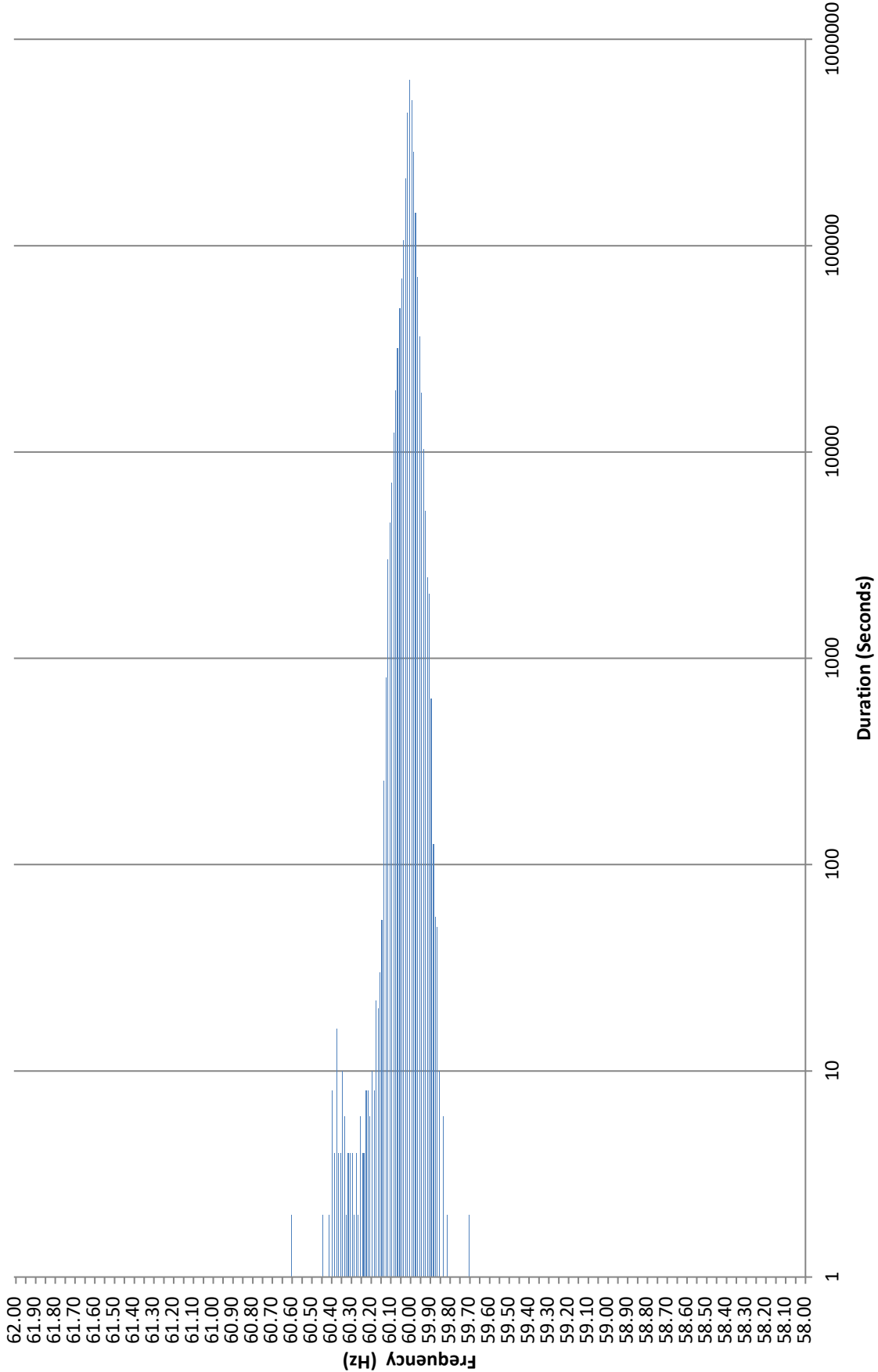
**3b) Total MWh of non-dispatchable renewable resources curtailed for the month:**

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 Company does not make any representations as to the accuracy of the curtailed MWh. The estimated MWh of non-dispatchable resources curtailed for the month are provided in Attachment 6, corresponding to each curtailment event.

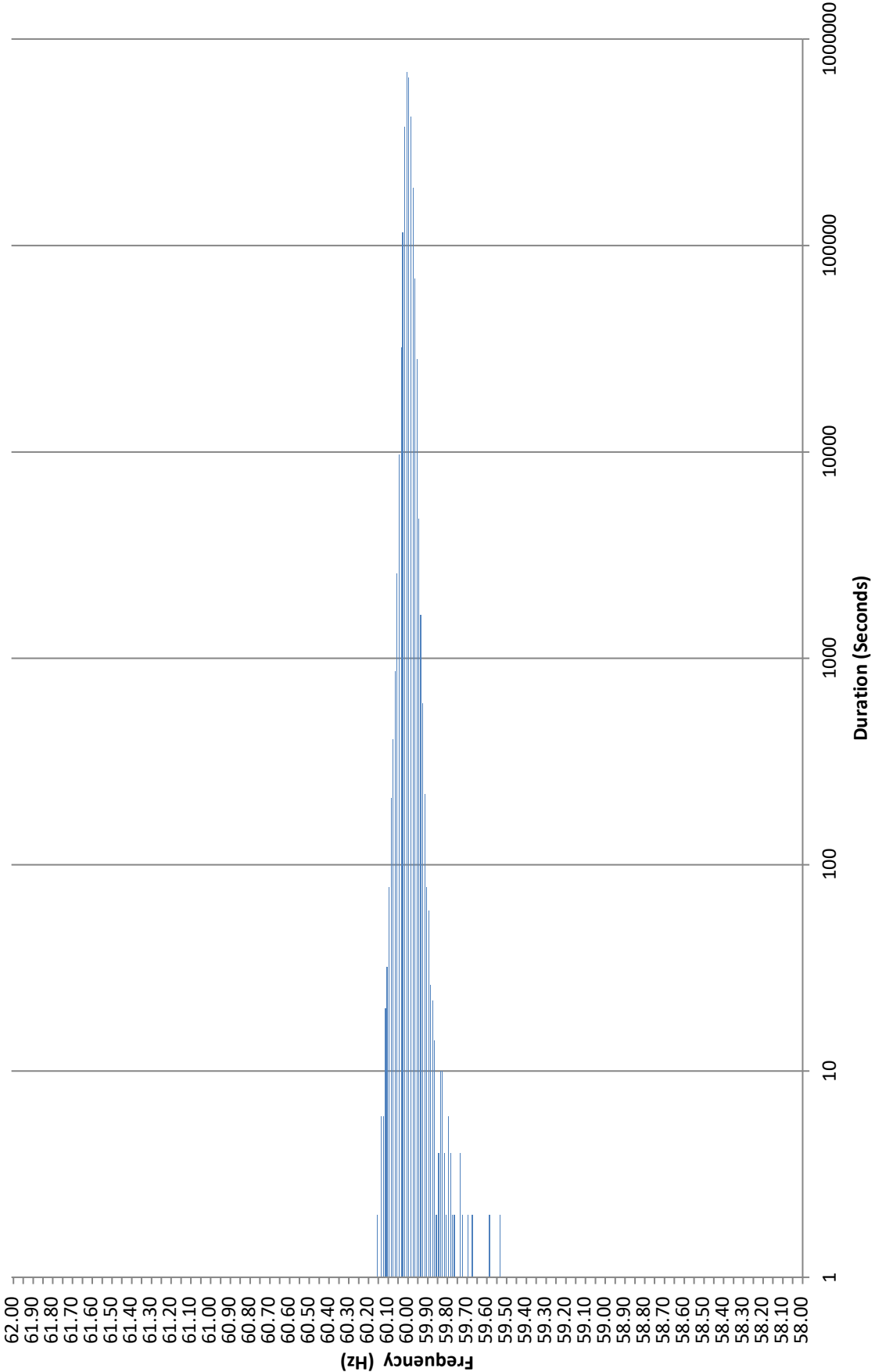
**Frequency Distribution Plot - Hawaiian Electric Company Inc.  
December 2020**



**Frequency Distribution Plot - Maui Electric Company, Ltd  
December 2020**



**Frequency Distribution Plot - Hawai'i Electric Light Company, Inc.  
December 2020**



| Hawaiian Electric Company, Inc.<br>Frequency Excursion Statistics<br>December 2020 |           |           |
|--|-----------|-----------|
| Data Rounded to the nearest  | <59.95 Hz | >60.05 Hz |
| Number of Excursions   | 961       | 394       |
| Maximum Duration (sec)   | 298       | 438       |
| Maximum Deviation (Hz)   | 58.917    | 60.608    |
| Total Duration of Excursions (sec)   | 12550     | 5228      |

| Maui Electric Company, Ltd<br>Frequency Excursion Statistics<br>December 2020 |           |           |
|---|-----------|-----------|
|   | <59.95 Hz | >60.05 Hz |
| Number of Excursions  | 7751      | 10081     |
| Maximum Duration (sec)  | 624       | 1062      |
| Maximum Deviation (Hz)  | 59.701    | 60.600    |
| Total Duration of Excursions (sec)  | 55490     | 101392    |

| Hawai'i Electric Light Company, Inc.<br>Frequency Excursion Statistics<br>December 2020 |           |           |
|---|-----------|-----------|
|   | <59.95 Hz | >60.05 Hz |
| Number of Excursions  | 4102      | 389       |
| Maximum Duration (sec)  | 144       | 168       |
| Maximum Deviation (Hz)  | 59.525    | 60.145    |
| Total Duration of Excursions (sec)  | 20950     | 2534      |

HAWAIIAN ELECTRIC COMPANY, INC.  
CONTINGENCY RESERVE ACTIVATION EVENTS  
December 2020

| Event # | Date & Time      | Frequency (Hz) |       |         | Spinning Reserve Shortfall (MW) | Duration (HH:MM) | Description                                      |
|---------|------------------|----------------|-------|---------|---------------------------------|------------------|--|
|         |                  | Prior to Event | Nadir | Trigger |                                 |                  |  |
| 1       | 12/11/2020 06:48 | 60.000         | 59.70 | NA      | 0.00                            | 0:00             | KPLP ST tripped offline while generating 6.22MW. |
| 2       | 12/17/2020 14:00 | 60.03          | 59.58 | NA      | -89.00                          | 0:55             | Kahe 2 tripped offline while generating ~10MW.   |
| 3       | 12/28/2020 17:55 | 60.00          | 58.92 | NA      | -69                             | 2:00             | Kahe 5 tripped offline while generating ~123MW.  |

HAWAIIAN ELECTRIC COMPANY, INC.  
UNDERFREQUENCY LOAD SHEDDING EVENTS  
December 2020

| Event # | Date & Time      | Frequency (Hz) |       |         | Load Shed (MW) | Duration (HH:MM) | Description  |
|---------|------------------|----------------|-------|---------|----------------|------------------|--|
|         |                  | Prior to Event | Nadir | Trigger |                |                  |  |
| 1       | 12/28/2020 17:55 | 60.00          | 58.88 | 58.90   | NA             | 0:10             | Kahe 5 tripped offline while generating ~123MW. Block 1 activated. |



HAWAIIAN ELECTRIC COMPANY, INC.  
DEMAND RESPONSE EVENTS  
December 2020

| Event # | Date & Time      | Frequency (Hz) |       |         | Load Shed (MW) | Duration (HH:MM) | Description   |
|---------|------------------|----------------|-------|---------|----------------|------------------|---|
|         |                  | Prior to Event | Nadir | Trigger |                |                  |   |
| 1       | 12/11/2020 06:48 | 60.000         | 59.70 | 59.70   | NA             | 0:00             | KPLP ST tripped offline while generating 6.22MW. RDLC activated.      |
| 2       | 12/17/2020 14:00 | 60.03          | 59.58 | 59.70   | NA             | 0:01             | Kahe 2 tripped offline while generating ~10MW. RDLC activated.        |
| 3       | 12/28/2020 17:55 | 60.00          | 58.92 | 59.70   | NA             | 0:04             | Kahe 5 tripped offline while generating ~123MW. RDLC/CIDLC activated. |

Hawaiian Electric Company, Inc. Curtailment Report December 2020

| Start Date/Time | Curtailment Set Point | MW output prior to start of curtailment | End Date/Time  | MW output after curtailment released | Estimated MWh of curtailed energy during event (1) | IPP/Facility | Reason for Curtailment |
|-----------------|-----------------------|---|----------------|--------------------------------------|--|--------------|------------------------|
| 12/01/20 05:55  | 0.0                   | 0.00                                    | 12/01/20 06:25 | 0                                    | *  | KREP         | System Constraints     |
| 12/01/20 05:56  | 0.0                   | 0.00                                    | 12/01/20 06:27 | 0                                    | *  | WestL        | System Constraints     |
| 12/01/20 07:08  | 0.0                   | 0.00                                    | 12/01/20 16:19 | 0                                    | *  | MFO          | System Constraints     |
| 12/01/20 07:15  | 0.0                   | 0.00                                    | 12/01/20 08:27 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/01/20 07:15  | 0.0                   | 1.4                                     | 12/01/20 16:10 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/01/20 07:16  | 0.0                   | 0.2                                     | 12/01/20 16:05 | 0                                    | *  | KWF          | System Constraints     |
| 12/01/20 07:23  | 0.0                   | 0.5                                     | 12/01/20 16:12 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/01/20 07:23  | 0.0                   | 0.7                                     | 12/01/20 08:25 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/01/20 14:45  | 0.0                   | 2.7                                     | 12/01/20 15:13 | 0                                    | *  | KREP         | System Constraints     |
| 12/01/20 14:47  | 0.0                   | 15.9                                    | 12/01/20 15:14 | 0                                    | *  | WestL        | System Constraints     |
| 12/01/20 15:27  | 0.0                   | 1.50                                    | 12/01/20 16:10 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/01/20 15:28  | 0.0                   | 21.00                                   | 12/01/20 16:15 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/01/20 19:32  | 0.0                   | 0.00                                    | 12/01/20 20:11 | 0                                    | *  | WestL        | System Constraints     |
| 12/02/20 08:18  | 0.0                   | 1.07                                    | 12/02/20 15:51 | 0                                    | *  | MFO          | System Constraints     |
| 12/02/20 08:29  | 0.0                   | 0.63                                    | 12/02/20 16:04 | 0                                    | *  | KWF          | System Constraints     |
| 12/02/20 08:31  | 0.0                   | 0.12                                    | 12/02/20 15:49 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/02/20 08:38  | 0.0                   | -9.19                                   | 12/02/20 16:00 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/02/20 08:39  | 0.0                   | -14.84                                  | 12/02/20 09:19 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/02/20 08:46  | 0.0                   | 0.00                                    | 12/02/20 09:23 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/02/20 10:45  | 0.0                   | 9.64                                    | 12/02/20 11:04 | 0                                    | *  | Lani         | System Constraints     |
| 12/02/20 15:38  | 0.0                   | 0.45                                    | 12/02/20 15:49 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/02/20 15:40  | 0.0                   | -18.24                                  | 12/02/20 15:51 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/04/20 06:43  | 0.0                   | 0.00                                    | 12/04/20 16:23 | 0                                    | *  | Waianae      | System Constraints     |
| 12/04/20 06:47  | 0.0                   | 0.00                                    | 12/04/20 08:29 | 0                                    | *  | Aloha1       | System Constraints     |
| 12/04/20 15:43  | 0.0                   | 2.70                                    | 12/04/20 16:21 | 0                                    | *  | Aloha1       | System Constraints     |
| 12/04/20 16:43  | 0.0                   | -7.50                                   | 12/04/20 17:16 | 0                                    | *  | KSMakai      | Facility Requested     |
| 12/08/20 05:51  | 0.0                   | 0.00                                    | 12/08/20 06:21 | 0                                    | *  | North        | System Constraints     |
| 12/08/20 05:52  | 0.0                   | 0.00                                    | 12/08/20 06:21 | 0                                    | *  | South        | System Constraints     |
| 12/08/20 11:34  | 0.0                   | 1.40                                    | 12/08/20 12:41 | 0                                    | *  | North        | System Constraints     |
| 12/08/20 11:35  | 0.0                   | 1.00                                    | 12/08/20 12:42 | 0                                    | *  | South        | System Constraints     |
| 12/08/20 11:30  | 0.0                   | 1.30                                    | 12/08/20 12:39 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/08/20 11:32  | 0.0                   | 13.80                                   | 12/08/20 12:40 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/14/20 07:53  | 0.0                   | 0.40                                    | 12/14/20 08:05 | 0                                    | *  | North        | System Constraints     |
| 12/14/20 07:55  | 0.0                   | 0.10                                    | 12/14/20 08:05 | 0                                    | *  | South        | System Constraints     |
| 12/14/20 15:19  | 0.0                   | 0.70                                    | 12/14/20 16:07 | 0                                    | *  | North        | System Constraints     |
| 12/14/20 15:20  | 0.0                   | 0.20                                    | 12/14/20 16:08 | 0                                    | *  | South        | System Constraints     |
| 12/14/20 15:05  | 0.0                   | 5.50                                    | 12/14/20 16:03 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/14/20 15:09  | 0.0                   | 23.80                                   | 12/14/20 16:05 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/15/20 06:38  | 0.0                   | 0.00                                    | 12/15/20 09:09 | 0                                    | *  | MFO          | System Constraints     |
| 12/15/20 06:43  | 0.0                   | 0.00                                    | 12/15/20 09:01 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/15/20 06:45  | 0.0                   | 0.00                                    | 12/15/20 09:03 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/15/20 06:50  | 0.0                   | 7.20                                    | 12/15/20 17:15 | 0                                    | *  | NPM          | System Constraints     |
| 12/15/20 07:07  | 0.0                   | 2.60                                    | 12/15/20 09:20 | 0                                    | *  | KWF          | System Constraints     |
| 12/15/20 08:04  | 0.0                   | 0.40                                    | 12/15/20 08:52 | 0                                    | *  | North        | System Constraints     |
| 12/15/20 08:05  | 0.0                   | 0.10                                    | 12/15/20 08:52 | 0                                    | *  | South        | System Constraints     |
| 12/15/20 11:29  | 0.0                   | 22.10                                   | 12/15/20 12:13 | 0                                    | *  | KSMauka      | System Constraints     |
| 12/15/20 11:32  | 0.0                   | 6.20                                    | 12/15/20 12:15 | 0                                    | *  | KWMauka      | System Constraints     |
| 12/15/20 11:36  | 0.0                   | 4.00                                    | 12/15/20 12:10 | 0                                    | *  | North        | System Constraints     |
| 12/15/20 11:37  | 0.0                   | 1.30                                    | 12/15/20 12:10 | 0                                    | *  | South        | System Constraints     |
| 12/15/20 16:46  | 0.0                   | 0.60                                    | 12/15/20 17:14 | 0                                    | *  | MFO          | System Constraints     |
| 12/15/20 16:50  | 0.0                   | 4.80                                    | 12/15/20 17:54 | 0                                    | *  | KWF          | System Constraints     |
| 12/15/20 16:49  | 0.0                   | 5.00                                    | 12/15/20 17:20 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/15/20 16:51  | 0.0                   | 7.20                                    | 12/15/20 17:24 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/16/20 06:29  | 0.0                   | 0.00                                    | 12/16/20 07:52 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/16/20 06:30  | 0.0                   | 0.00                                    | 12/16/20 07:57 | 0                                    | *  | MFO          | System Constraints     |
| 12/16/20 06:35  | 0.0                   | 0.00                                    | 12/16/20 07:54 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/16/20 06:37  | 0.0                   | 5.00                                    | 12/16/20 08:12 | 0                                    | *  | KWF          | System Constraints     |
| 12/16/20 07:04  | 0.0                   | 9.20                                    | 12/16/20 16:16 | 0                                    | *  | NPM          | System Constraints     |
| 12/16/20 16:16  | 3.5                   | 0.21                                    | 12/16/20 16:26 | -3.45                                | *  | NPM          | System Constraints     |
| 12/16/20 07:32  | 0.0                   | 0.00                                    | 12/16/20 08:30 | 0                                    | *  | KREP         | System Constraints     |
| 12/16/20 07:32  | 0.0                   | 0.00                                    | 12/16/20 08:31 | 0                                    | *  | Aloha2       | System Constraints     |

Hawaiian Electric Company, Inc. Curtailment Report December 2020

| Start Date/Time | Curtailment Set Point | MW output prior to start of curtailment | End Date/Time  | MW output after curtailment released | Estimated MWh of curtailed energy during event (1) | IPP/Facility | Reason for Curtailment |
|-----------------|-----------------------|---|----------------|--------------------------------------|--|--------------|------------------------|
| 12/16/20 07:35  | 0.0                   | 0.90                                    | 12/16/20 08:43 | 0                                    | *  | WestL        | System Constraints     |
| 12/16/20 14:19  | 0.0                   | 4.70                                    | 12/16/20 16:10 | 0                                    | *  | KWF          | System Constraints     |
| 12/16/20 14:21  | 0.0                   | 1.00                                    | 12/16/20 16:13 | 0                                    | *  | MFO          | System Constraints     |
| 12/16/20 14:26  | 0.0                   | 5.70                                    | 12/16/20 16:27 | 0                                    | *  | KWMakai      | System Constraints     |
| 12/16/20 14:28  | 0.0                   | 14.80                                   | 12/16/20 16:24 | 0                                    | *  | KSMakai      | System Constraints     |
| 12/16/20 16:13  | 0.0                   | 1.20                                    | 12/16/20 16:28 | 0                                    | *  | Aloha2       | System Constraints     |
| 12/16/20 16:13  | 0.0                   | 0.40                                    | 12/16/20 16:28 | 0                                    | *  | KREP         | System Constraints     |
| 12/16/20 16:15  | 0.0                   | 5.90                                    | 12/16/20 16:28 | 0                                    | *  | WestL        | System Constraints     |
| 12/17/20 06:51  | 0.0                   | 0.00                                    | 12/17/20 07:27 | 0                                    | *  | KREP         | System Constraints     |
| 12/17/20 06:53  | 0.0                   | 0.00                                    | 12/17/20 18:04 | 0                                    | *  | Aloha2       | System Constraints     |
| 12/17/20 06:55  | 0.0                   | 5.90                                    | 12/17/20 07:28 | 0                                    | *  | WestL        | System Constraints     |
| 12/17/20 17:37  | 0.0                   | 0.10                                    | 12/17/20 18:04 | 0                                    | *  | KREP         | System Constraints     |
| 12/17/20 17:39  | 0.0                   | 1.20                                    | 12/17/20 18:04 | 0                                    | *  | WestL        | System Constraints     |
| 12/18/20 10:37  | Various               | 9.36                                    | 12/18/20 12:11 | 4.53                                 | *  | Lani         | System Constraints     |
| 12/18/20 18:53  | 0.0                   | 0.00                                    | 12/18/20 20:15 | 0                                    | *  | WestL        | Facility Requested     |
| 12/21/20 10:07  | Various               | 10.01                                   | 12/21/20 11:33 | 5.09                                 | *  | Lani         | System Constraints     |
| 12/27/20 10:53  | 0.0                   | 7.00                                    | 12/27/20 13:54 | 0                                    | *  | KSMauka      | Oversupply             |
| 12/27/20 10:54  | 0.0                   | 8.30                                    | 12/27/20 13:54 | 0                                    | *  | KSMakai      | Oversupply             |
| 12/27/20 10:57  | 0.0                   | 3.50                                    | 12/27/20 14:09 | 0                                    | *  | Aloha2       | Oversupply             |
| 12/27/20 11:01  | 0.0                   | 1.30                                    | 12/27/20 14:11 | 0                                    | *  | MFO          | Oversupply             |
| 12/27/20 11:04  | 0.0                   | 20.50                                   | 12/27/20 14:14 | 0                                    | *  | NPM          | Oversupply             |
| 12/30/20 10:55  | 0.0                   | 20.30                                   | 12/30/20 13:07 | 0                                    | *  | KSMauka      | Oversupply             |
| 12/30/20 10:55  | 0.0                   | 15.50                                   | 12/30/20 13:07 | 0                                    | *  | KSMakai      | Oversupply             |
| 12/30/20 11:15  | 0.0                   | 3.10                                    | 12/30/20 12:42 | 0                                    | *  | Aloha2       | Oversupply             |
| 12/30/20 11:16  | 0.0                   | 1.30                                    | 12/30/20 12:41 | 0                                    | *  | MFO          | Oversupply             |
| 12/30/20 11:17  | 0.0                   | 14.50                                   | 12/30/20 12:39 | 0                                    | *  | NPM          | Oversupply             |
| 12/30/20 11:22  | 5.7                   | 8.14                                    | 12/30/20 12:22 | 5.7                                  | *  | Lani         | Oversupply             |
| 12/30/20 11:22  | 24.3                  | 34.12                                   | 12/30/20 12:22 | 13.25                                | *  | Waipio       | Oversupply             |
| 12/30/20 12:22  | 9.0                   | 5.7                                     | 12/30/20 12:37 | 9.07                                 | *  | Lani         | Oversupply             |
| 12/30/20 12:22  | 21.0                  | 13.25                                   | 12/30/20 12:37 | 10.67                                | *  | Waipio       | Oversupply             |

Aloha1 = Aloha Solar Energy Fund I  
Aloha2 = Aloha Solar Energy Fund II  
KLS2 = Kalaeloa Solar Two  
KREP = Kalaeloa Renewable Energy Partners  
KWF = Kahuku Wind Power  
Lani = Lanikuhana Solar  
MFO = Mauka FIT One Solar  
NPM = Na Pua Makani Power Partners  
KSMakai = Kawaioloa Solar Makai  
KSMauka = Kawaioloa Solar Mauka  
KWMakai = Kawaioloa Wind Makai  
KWMauka = Kawaioloa Wind Mauka  
North = Waihonu North  
South = Waihonu South  
Waianae = EE Waianae Solar Project  
Waipio = Waipio PV  
WestL = West Loch PV

(1) The estimated MWh of energy curtailed during the event is supplied by IPP, and HECO does not make any representations as to its accuracy.  
\* Data has not been provided by IPP.



Lanai Curtailment Report

December 2020

| Start Date and Time | Duration (h:mm) | IPP Curtailed | Estimated MWh Curtailed | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|-----------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/1/2020 7:14      | 2:20            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 10:03    | 0:07            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 10:12    | 0:58            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 11:12    | 1:40            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 10:04    | 0:36            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 10:41    | 0:09            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 10:52    | 0:06            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 10:59    | 0:12            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 9:35     | 0:07            | LSR           | Data is not available   | Data is not available | Oversupply              |
| 12/31/2020 8:32     | 0:10            | LSR           | Data is not available   | Data is not available | Oversupply              |

Notes:

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

LSR possible output data is not available. Therefore, Maui Electric assumes LSR is curtailed if the LSR curtailment set point is less than 1,200 kW and LSR's output is within 70 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.



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/1/2020 6:49      | 10:56              | SSA2          | 18.3870                 | 2.87000               | System Constraint       |
| 12/1/2020 7:52      | 4:40               | KWP           | Data is not available   | Data is not available | System Constraint       |
| 12/1/2020 14:18     | 0:01               | KWP/II        | 0.0005                  | 0.02994               | Oversupply              |
| 12/1/2020 18:36     | 0:01               | KWP           | 0.0018                  | 1.34505               | System Constraint       |
| 12/1/2020 20:44     | 0:01               | KWP           | 0.0009                  | 10.57582              | System Constraint       |
| 12/2/2020 2:50      | 0:01               | KWP/II        | 0.0058                  | 0.34928               | Oversupply              |
| 12/2/2020 6:49      | 10:57              | SSA2          | 18.5952                 | 2.87000               | System Constraint       |
| 12/2/2020 6:55      | 6:32               | KWP           | Data is not available   | Data is not available | System Constraint       |
| 12/2/2020 9:42      | 0:01               | 17-2          | 0.0041                  | 0.70000               | Oversupply              |
| 12/2/2020 9:43      | 0:02               | SSA3          | 0.0125                  | 2.04900               | Oversupply              |
| 12/2/2020 9:44      | 3:05               | 17-2          | 1.7048                  | 0.75000               | Oversupply              |
| 12/2/2020 9:45      | 0:02               | SSA3          | 0.0643                  | 0.06800               | Oversupply              |
| 12/2/2020 9:47      | 0:02               | SSA3          | 0.0648                  | 0.60100               | Oversupply              |
| 12/2/2020 9:49      | 0:04               | SSA3          | 0.1286                  | 0.02000               | Oversupply              |
| 12/2/2020 9:52      | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/2/2020 9:53      | 0:01               | KWP/II        | 0.0057                  | 3.04776               | Oversupply              |
| 12/2/2020 9:53      | 0:02               | SSA3          | 0.0648                  | 0.02000               | Oversupply              |
| 12/2/2020 9:54      | 0:38               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/2/2020 9:55      | 0:15               | KWP/II        | 0.2531                  | 2.94896               | Oversupply              |
| 12/2/2020 9:55      | 0:36               | SSA3          | 1.3397                  | -0.00100              | Oversupply              |
| 12/2/2020 10:03     | 0:07               | AWE           | 0.1417                  | 18.70000              | Oversupply              |
| 12/2/2020 10:11     | 0:22               | AWE           | 0.4916                  | 18.40000              | Oversupply              |
| 12/2/2020 10:12     | 0:08               | KWP/II        | 0.0160                  | 0.26645               | Oversupply              |
| 12/2/2020 10:31     | 0:02               | SSA3          | 0.0813                  | -0.00100              | Oversupply              |
| 12/2/2020 10:33     | 1:49               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/2/2020 10:33     | 0:48               | SSA3          | 2.0446                  | 0.00600               | Oversupply              |
| 12/2/2020 10:34     | 1:46               | AWE           | 4.4864                  | 16.70000              | Oversupply              |
| 12/2/2020 11:22     | 0:02               | SSA3          | 0.0899                  | 0.04000               | Oversupply              |
| 12/2/2020 11:24     | 0:59               | SSA3          | 2.5359                  | 0.00400               | Oversupply              |
| 12/2/2020 11:38     | 0:44               | KWP/II        | 0.6246                  | 2.07176               | Oversupply              |
| 12/2/2020 12:22     | 0:02               | SSA3          | 0.0705                  | 1.15300               | Oversupply              |
| 12/2/2020 12:24     | 0:02               | SSA3          | 0.0700                  | 1.61200               | Oversupply              |
| 12/2/2020 12:26     | 0:02               | SSA3          | 0.0700                  | 0.69900               | Oversupply              |
| 12/2/2020 12:28     | 0:02               | SSA3          | 0.0525                  | 0.59500               | Oversupply              |
| 12/2/2020 12:30     | 0:02               | SSA3          | 0.0300                  | 1.76700               | Oversupply              |
| 12/2/2020 12:33     | 0:02               | SSA3          | 0.0295                  | 1.87100               | Oversupply              |
| 12/2/2020 12:35     | 0:02               | SSA3          | 0.0298                  | 1.68300               | Oversupply              |
| 12/2/2020 12:37     | 0:02               | SSA3          | 0.0295                  | 1.45400               | Oversupply              |
| 12/2/2020 12:39     | 0:02               | SSA3          | 0.0298                  | 1.69000               | Oversupply              |
| 12/2/2020 12:41     | 0:02               | SSA3          | 0.0298                  | 1.95500               | Oversupply              |
| 12/2/2020 12:43     | 0:02               | SSA3          | 0.0273                  | 2.15900               | Oversupply              |
| 12/2/2020 12:45     | 0:02               | SSA3          | 0.0026                  | 2.14700               | Oversupply              |
| 12/2/2020 23:00     | 0:01               | KWP/II        | 0.0010                  | 0.05988               | Oversupply              |
| 12/3/2020 6:50      | 10:56              | SSA2          | 18.3348                 | 2.87000               | System Constraint       |
| 12/4/2020 1:54      | 0:12               | KWP/II        | 0.0945                  | Data is not available | Oversupply              |
| 12/4/2020 2:49      | 0:10               | KWP/II        | 0.0942                  | Data is not available | Oversupply              |
| 12/4/2020 3:09      | 1:36               | KWP/II        | 4.0914                  | Data is not available | Oversupply              |
| 12/4/2020 6:47      | 7:07               | 17-2          | Data is not available   | Data is not available | Oversupply              |
| 12/4/2020 6:50      | 11:01              | SSA2          | 16.2392                 | 2.87000               | System Constraint       |
| 12/4/2020 8:39      | 5:57               | KWP/II        | 102.3658                | Data is not available | Oversupply              |
| 12/4/2020 8:39      | 5:13               | SSA3          | 11.7323                 | 0.01200               | Oversupply              |
| 12/4/2020 8:40      | 5:12               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/4/2020 9:57      | 0:15               | AWE           | 0.2126                  | 21.00000              | Oversupply              |
| 12/4/2020 10:15     | 2:12               | AWE           | 7.1522                  | 21.00000              | Oversupply              |
| 12/4/2020 12:37     | 0:05               | AWE           | 0.0854                  | 21.00000              | Oversupply              |
| 12/4/2020 12:44     | 0:05               | AWE           | 0.1031                  | 21.00000              | Oversupply              |
| 12/4/2020 12:53     | 0:10               | AWE           | 0.1077                  | 21.00000              | Oversupply              |
| 12/4/2020 13:05     | 0:01               | AWE           | 0.0019                  | 21.00000              | Oversupply              |
| 12/4/2020 13:18     | 0:01               | AWE           | 0.0016                  | 21.00000              | Oversupply              |
| 12/4/2020 13:21     | 0:01               | AWE           | 0.0004                  | 21.00000              | Oversupply              |
| 12/4/2020 13:29     | 0:01               | AWE           | 0.0019                  | 21.00000              | Oversupply              |
| 12/4/2020 13:52     | 0:04               | SSA3          | 0.1339                  | 0.25300               | Oversupply              |
| 12/4/2020 13:55     | 0:41               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/4/2020 13:55     | 1:02               | 17-2          | 0.5849                  | 0.75000               | Oversupply              |
| 12/4/2020 13:56     | 0:40               | SSA3          | 1.4679                  | 0.02100               | Oversupply              |
| 12/4/2020 14:37     | 0:02               | SSA3          | 0.0650                  | 0.55600               | Oversupply              |
| 12/4/2020 14:39     | 0:02               | SSA3          | 0.0650                  | 0.16300               | Oversupply              |
| 12/4/2020 14:41     | 0:02               | SSA3          | 0.0644                  | 0.19400               | Oversupply              |
| 12/4/2020 14:43     | 0:02               | SSA3          | 0.0599                  | 0.54000               | Oversupply              |
| 12/4/2020 14:45     | 0:02               | SSA3          | 0.0275                  | 0.40800               | Oversupply              |
| 12/4/2020 14:47     | 0:02               | SSA3          | 0.0275                  | 0.08200               | Oversupply              |
| 12/4/2020 14:49     | 0:02               | SSA3          | 0.0277                  | 0.12900               | Oversupply              |
| 12/4/2020 14:51     | 0:02               | SSA3          | 0.0277                  | 0.42700               | Oversupply              |
| 12/4/2020 14:53     | 0:02               | SSA3          | 0.0275                  | 0.94800               | Oversupply              |
| 12/5/2020 3:49      | 0:23               | AWE           | 0.6921                  | 21.00000              | Oversupply              |
| 12/5/2020 4:04      | 0:05               | KWP/II        | 0.0045                  | 0.14969               | Oversupply              |
| 12/5/2020 4:10      | 0:02               | KWP/II        | 0.0041                  | 0.26346               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/5/2020 4:13      | 0:55               | AWE           | 2.3504                  | 21.0000               | Oversupply              |
| 12/5/2020 4:13      | 1:05               | KWPPII        | 8.6394                  | 13.82966              | Oversupply              |
| 12/5/2020 5:11      | 0:01               | AWE           | 0.0081                  | 21.0000               | Oversupply              |
| 12/5/2020 5:13      | 0:01               | AWE           | 0.0007                  | 21.0000               | Oversupply              |
| 12/5/2020 5:20      | 0:05               | KWPPII        | 0.1366                  | 7.89482               | Oversupply              |
| 12/5/2020 6:51      | 10:56              | SSA2          | 18.2931                 | 2.8700                | System Constraint       |
| 12/6/2020 6:52      | 10:50              | SSA2          | 14.0417                 | 2.8700                | System Constraint       |
| 12/7/2020 6:52      | 10:53              | SSA2          | 17.3789                 | 2.8700                | System Constraint       |
| 12/7/2020 8:37      | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 8:37      | 0:04               | 17-2          | 0.0077                  | 0.2290                | Oversupply              |
| 12/7/2020 8:37      | 0:02               | SSA3          | 0.0240                  | 0.02800               | Oversupply              |
| 12/7/2020 8:38      | 0:01               | KWPPII        | 0.0133                  | 15.94533              | Oversupply              |
| 12/7/2020 8:39      | 0:02               | SSA3          | 0.0242                  | -0.00200              | Oversupply              |
| 12/7/2020 8:43      | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 8:43      | 0:03               | 17-2          | 0.0025                  | 0.06500               | Oversupply              |
| 12/7/2020 8:43      | 0:02               | SSA3          | 0.0197                  | 0.09900               | Oversupply              |
| 12/7/2020 9:44      | 0:01               | 17-2          | 0.0004                  | 0.21400               | Oversupply              |
| 12/7/2020 10:00     | 0:17               | 17-2          | 0.1033                  | 0.75000               | Oversupply              |
| 12/7/2020 10:00     | 0:02               | SSA3          | 0.0571                  | 1.31400               | Oversupply              |
| 12/7/2020 10:02     | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 10:02     | 0:02               | KWPPII        | 0.0213                  | 13.59315              | Oversupply              |
| 12/7/2020 10:02     | 0:02               | SSA3          | 0.0571                  | 0.00200               | Oversupply              |
| 12/7/2020 10:04     | 0:02               | SSA3          | 0.0566                  | -0.00300              | Oversupply              |
| 12/7/2020 10:06     | 0:02               | SSA3          | 0.0576                  | -0.00400              | Oversupply              |
| 12/7/2020 10:07     | 0:01               | KWPPII        | 0.0063                  | 10.37474              | Oversupply              |
| 12/7/2020 10:08     | 0:02               | SSA3          | 0.0571                  | 0.45300               | Oversupply              |
| 12/7/2020 10:10     | 0:02               | SSA3          | 0.0571                  | 0.13200               | Oversupply              |
| 12/7/2020 10:12     | 0:02               | SSA3          | 0.0576                  | 0.28000               | Oversupply              |
| 12/7/2020 10:14     | 0:02               | SSA3          | 0.0229                  | 1.65200               | Oversupply              |
| 12/7/2020 10:19     | 0:02               | 17-2          | 0.0018                  | 0.41300               | Oversupply              |
| 12/7/2020 12:23     | 0:02               | SSA3          | 0.0325                  | 2.93400               | Oversupply              |
| 12/7/2020 12:24     | 0:17               | 17-2          | 0.0977                  | 0.75000               | Oversupply              |
| 12/7/2020 12:25     | 0:02               | SSA3          | 0.0322                  | 0.01000               | Oversupply              |
| 12/7/2020 12:27     | 0:02               | SSA3          | 0.0320                  | 0.12800               | Oversupply              |
| 12/7/2020 12:29     | 0:02               | SSA3          | 0.0504                  | 0.11700               | Oversupply              |
| 12/7/2020 12:31     | 0:02               | SSA3          | 0.0345                  | 0.39200               | Oversupply              |
| 12/7/2020 12:33     | 0:02               | SSA3          | 0.0348                  | 1.42100               | Oversupply              |
| 12/7/2020 12:35     | 0:02               | SSA3          | 0.0351                  | 0.38000               | Oversupply              |
| 12/7/2020 12:37     | 0:02               | SSA3          | 0.0345                  | 1.14500               | Oversupply              |
| 12/7/2020 12:39     | 0:02               | SSA3          | 0.0345                  | 0.44800               | Oversupply              |
| 12/7/2020 12:41     | 0:02               | SSA3          | 0.0351                  | 0.77600               | Oversupply              |
| 12/7/2020 12:42     | 2:44               | 17-2          | 1.4623                  | 0.75000               | Oversupply              |
| 12/7/2020 12:43     | 0:02               | SSA3          | 0.0376                  | 0.02100               | Oversupply              |
| 12/7/2020 12:44     | 0:08               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 12:44     | 0:10               | KWPPII        | 0.2441                  | 19.49905              | Oversupply              |
| 12/7/2020 12:45     | 0:10               | SSA3          | 0.3059                  | -0.00400              | Oversupply              |
| 12/7/2020 12:55     | 0:02               | SSA3          | 0.0616                  | 0.39300               | Oversupply              |
| 12/7/2020 12:57     | 0:02               | SSA3          | 0.0611                  | 1.35400               | Oversupply              |
| 12/7/2020 12:59     | 0:02               | SSA3          | 0.0704                  | 2.23700               | Oversupply              |
| 12/7/2020 13:01     | 0:02               | SSA3          | 0.0896                  | 1.44000               | Oversupply              |
| 12/7/2020 13:03     | 0:02               | SSA3          | 0.0896                  | 0.03400               | Oversupply              |
| 12/7/2020 13:04     | 0:07               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 13:05     | 0:06               | KWPPII        | 0.2607                  | 18.87133              | Oversupply              |
| 12/7/2020 13:05     | 0:06               | SSA3          | 0.2695                  | -0.00300              | Oversupply              |
| 12/7/2020 13:11     | 0:02               | SSA3          | 0.0888                  | 0.08600               | Oversupply              |
| 12/7/2020 13:13     | 0:02               | SSA3          | 0.0902                  | 0.11800               | Oversupply              |
| 12/7/2020 13:15     | 0:02               | SSA3          | 0.0470                  | 0.37800               | Oversupply              |
| 12/7/2020 13:17     | 0:02               | SSA3          | 0.0474                  | 1.10600               | Oversupply              |
| 12/7/2020 13:20     | 0:47               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 13:20     | 0:02               | SSA3          | 0.0466                  | 0.08500               | Oversupply              |
| 12/7/2020 13:21     | 0:46               | KWPPII        | 9.1067                  | 19.05396              | Oversupply              |
| 12/7/2020 13:22     | 0:46               | SSA3          | 1.4932                  | -0.00300              | Oversupply              |
| 12/7/2020 13:40     | 0:13               | AWE           | 0.5830                  | 21.00000              | Oversupply              |
| 12/7/2020 13:57     | 0:03               | AWE           | 0.0711                  | 21.00000              | Oversupply              |
| 12/7/2020 14:08     | 0:02               | SSA3          | 0.0695                  | 0.12600               | Oversupply              |
| 12/7/2020 14:09     | 0:17               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 14:10     | 0:17               | KWPPII        | 1.0859                  | 15.13299              | Oversupply              |
| 12/7/2020 14:10     | 0:16               | SSA3          | 0.5871                  | -0.00300              | Oversupply              |
| 12/7/2020 14:26     | 0:02               | SSA3          | 0.0757                  | 0.11100               | Oversupply              |
| 12/7/2020 14:28     | 0:02               | SSA3          | 0.0708                  | 0.12700               | Oversupply              |
| 12/7/2020 14:30     | 0:02               | SSA3          | 0.0489                  | 0.59900               | Oversupply              |
| 12/7/2020 14:32     | 0:02               | SSA3          | 0.0489                  | 0.06200               | Oversupply              |
| 12/7/2020 14:34     | 0:02               | SSA3          | 0.0481                  | 0.79700               | Oversupply              |
| 12/7/2020 14:36     | 0:02               | SSA3          | 0.0485                  | 0.08000               | Oversupply              |
| 12/7/2020 14:38     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 14:38     | 0:02               | SSA3          | 0.0485                  | 0.07600               | Oversupply              |
| 12/7/2020 14:40     | 0:02               | SSA3          | 0.0481                  | 0.11500               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/7/2020 14:42     | 0:02               | SSA3          | 0.0485                  | 0.15600               | Oversupply              |
| 12/7/2020 14:44     | 0:02               | SSA3          | 0.0288                  | 0.90600               | Oversupply              |
| 12/7/2020 14:46     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 14:46     | 0:02               | SSA3          | 0.0355                  | 0.01600               | Oversupply              |
| 12/7/2020 14:47     | 0:01               | KWPPII        | 0.0066                  | 17.65283              | Oversupply              |
| 12/7/2020 14:48     | 0:02               | SSA3          | 0.0355                  | 0.15200               | Oversupply              |
| 12/7/2020 15:08     | 0:02               | SSA3          | 0.0143                  | 2.11400               | Oversupply              |
| 12/7/2020 15:10     | 0:02               | SSA3          | 0.0144                  | 0.36500               | Oversupply              |
| 12/7/2020 15:12     | 0:02               | SSA3          | 0.0145                  | 1.37500               | Oversupply              |
| 12/7/2020 15:17     | 0:02               | SSA3          | 0.0488                  | 0.51500               | Oversupply              |
| 12/7/2020 15:19     | 0:02               | SSA3          | 0.0485                  | 0.65000               | Oversupply              |
| 12/7/2020 15:20     | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 15:21     | 0:11               | KWPPII        | 0.2290                  | 20.52794              | Oversupply              |
| 12/7/2020 15:21     | 0:12               | SSA3          | 0.2266                  | 0.00800               | Oversupply              |
| 12/7/2020 15:24     | 0:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/7/2020 15:32     | 0:03               | 17-2          | 0.0034                  | 0.12700               | Oversupply              |
| 12/7/2020 15:45     | 0:02               | SSA3          | 0.0013                  | 1.67100               | Oversupply              |
| 12/8/2020 1:16      | 0:01               | KWPPII        | 0.0010                  | 0.06088               | Oversupply              |
| 12/8/2020 3:32      | 0:01               | KWPPII        | 0.0001                  | 0.00599               | Oversupply              |
| 12/8/2020 4:38      | 0:01               | KWPPII        | 0.0049                  | 2.23243               | Oversupply              |
| 12/8/2020 4:41      | 0:15               | KWPPII        | 1.2740                  | 19.40324              | Oversupply              |
| 12/8/2020 4:59      | 0:30               | KWPPII        | 2.7459                  | 20.11579              | Oversupply              |
| 12/8/2020 5:41      | 0:02               | KWPPII        | 0.0320                  | 11.13419              | Oversupply              |
| 12/8/2020 5:44      | 0:01               | KWPPII        | 0.0023                  | 10.01049              | Oversupply              |
| 12/8/2020 5:47      | 0:06               | KWPPII        | 0.1215                  | 11.36671              | Oversupply              |
| 12/8/2020 6:56      | 10:53              | SSA2          | 14.2911                 | 2.87000               | System Constraint       |
| 12/8/2020 9:01      | 0:40               | KWPPII        | 4.4114                  | 17.75662              | System Constraint       |
| 12/8/2020 9:02      | 0:02               | SSA3          | 0.0435                  | 1.15800               | Oversupply              |
| 12/8/2020 9:03      | 0:38               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 9:03      | 0:14               | 17-2          | 0.0256                  | 0.75000               | Oversupply              |
| 12/8/2020 9:04      | 0:36               | SSA3          | 0.9203                  | 0.00600               | Oversupply              |
| 12/8/2020 9:22      | 0:21               | 17-2          | 0.0164                  | 0.15900               | Oversupply              |
| 12/8/2020 9:41      | 0:02               | SSA3          | 0.0502                  | 0.26800               | Oversupply              |
| 12/8/2020 9:48      | 0:10               | 17-2          | 0.0229                  | 0.43000               | Oversupply              |
| 12/8/2020 9:49      | 0:02               | SSA3          | 0.0392                  | 0.13000               | Oversupply              |
| 12/8/2020 9:50      | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 9:50      | 0:01               | KWPPII        | 0.0126                  | 12.33373              | Oversupply              |
| 12/8/2020 9:51      | 0:02               | SSA3          | 0.0392                  | 0.56600               | Oversupply              |
| 12/8/2020 9:53      | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 9:53      | 0:02               | SSA3          | 0.0389                  | 0.19900               | Oversupply              |
| 12/8/2020 9:54      | 0:02               | KWPPII        | 0.0198                  | 13.67099              | Oversupply              |
| 12/8/2020 9:55      | 0:02               | SSA3          | 0.0392                  | 0.12700               | Oversupply              |
| 12/8/2020 10:01     | 0:03               | 17-2          | 0.0051                  | 0.11200               | Oversupply              |
| 12/8/2020 10:01     | 0:02               | SSA3          | 0.0046                  | 0.68500               | Oversupply              |
| 12/8/2020 10:17     | 0:30               | 17-2          | 0.0492                  | 0.26200               | Oversupply              |
| 12/8/2020 10:17     | 0:02               | SSA3          | 0.0600                  | 2.47400               | Oversupply              |
| 12/8/2020 10:19     | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:19     | 0:02               | SSA3          | 0.0600                  | 0.00100               | Oversupply              |
| 12/8/2020 10:20     | 0:01               | KWPPII        | 0.0152                  | 7.45872               | Oversupply              |
| 12/8/2020 10:21     | 0:02               | SSA3          | 0.0605                  | 0.06700               | Oversupply              |
| 12/8/2020 10:23     | 0:02               | SSA3          | 0.0600                  | 0.10800               | Oversupply              |
| 12/8/2020 10:25     | 0:02               | SSA3          | 0.0595                  | 0.34400               | Oversupply              |
| 12/8/2020 10:27     | 0:02               | SSA3          | 0.0605                  | 1.31700               | Oversupply              |
| 12/8/2020 10:29     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:29     | 0:02               | SSA3          | 0.0746                  | 0.00000               | Oversupply              |
| 12/8/2020 10:30     | 0:01               | KWPPII        | 0.0072                  | 9.68316               | Oversupply              |
| 12/8/2020 10:31     | 0:02               | SSA3          | 0.0704                  | 0.05700               | Oversupply              |
| 12/8/2020 10:33     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:33     | 0:04               | KWPPII        | 0.0225                  | 16.41337              | Oversupply              |
| 12/8/2020 10:33     | 0:02               | SSA3          | 0.0716                  | 0.00400               | Oversupply              |
| 12/8/2020 10:35     | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:35     | 0:02               | SSA3          | 0.0716                  | 0.00800               | Oversupply              |
| 12/8/2020 10:37     | 0:02               | SSA3          | 0.0710                  | 0.00500               | Oversupply              |
| 12/8/2020 10:39     | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:39     | 0:02               | SSA3          | 0.0704                  | 0.00200               | Oversupply              |
| 12/8/2020 10:40     | 0:03               | KWPPII        | 0.0369                  | 15.85851              | Oversupply              |
| 12/8/2020 10:41     | 0:02               | SSA3          | 0.0710                  | 0.00200               | Oversupply              |
| 12/8/2020 10:43     | 0:02               | SSA3          | 0.0577                  | 0.50500               | Oversupply              |
| 12/8/2020 10:45     | 0:02               | SSA3          | 0.0358                  | 0.59900               | Oversupply              |
| 12/8/2020 10:50     | 0:01               | 17-2          | 0.0003                  | 0.21700               | Oversupply              |
| 12/8/2020 10:51     | 0:02               | SSA3          | 0.0358                  | 2.79300               | Oversupply              |
| 12/8/2020 10:52     | 0:09               | 17-2          | 0.0400                  | 0.52800               | Oversupply              |
| 12/8/2020 10:53     | 0:02               | SSA3          | 0.0358                  | 0.29900               | Oversupply              |
| 12/8/2020 10:54     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/8/2020 10:55     | 0:01               | KWPPII        | 0.0025                  | 12.67603              | Oversupply              |
| 12/8/2020 10:55     | 0:02               | SSA3          | 0.0361                  | 0.18200               | Oversupply              |
| 12/8/2020 11:44     | 0:04               | 17-2          | 0.0042                  | 0.11800               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/8/2020 11:44     | 0:02               | SSA3          | 0.0046                  | 0.26700               | Oversupply              |
| 12/8/2020 11:46     | 0:02               | SSA3          | 0.0032                  | 2.62000               | Oversupply              |
| 12/9/2020 6:52      | 10:54              | SSA2          | 16.8261                 | 2.87000               | System Constraint       |
| 12/10/2020 6:54     | 10:53              | SSA2          | 17.0973                 | 2.87000               | System Constraint       |
| 12/11/2020 6:56     | 10:51              | SSA2          | 17.2822                 | 2.87000               | System Constraint       |
| 12/11/2020 10:05    | 0:07               | 17-2          | 0.0197                  | 0.75000               | Oversupply              |
| 12/11/2020 10:13    | 0:02               | 17-2          | 0.0037                  | 0.75000               | Oversupply              |
| 12/11/2020 10:26    | 0:02               | 17-2          | 0.0078                  | 0.75000               | Oversupply              |
| 12/11/2020 10:30    | 0:02               | 17-2          | 0.0030                  | 0.75000               | Oversupply              |
| 12/11/2020 10:40    | 0:03               | 17-2          | 0.0087                  | 0.75000               | Oversupply              |
| 12/11/2020 10:44    | 0:11               | 17-2          | 0.0411                  | 0.75000               | Oversupply              |
| 12/11/2020 10:56    | 0:08               | 17-2          | 0.0516                  | 0.75000               | Oversupply              |
| 12/11/2020 11:13    | 0:05               | 17-2          | 0.0361                  | 0.75000               | Oversupply              |
| 12/11/2020 12:27    | 0:06               | 17-2          | 0.0444                  | 0.75000               | Oversupply              |
| 12/11/2020 12:34    | 0:02               | 17-2          | 0.0108                  | 0.41500               | Oversupply              |
| 12/11/2020 12:38    | 0:03               | 17-2          | 0.0192                  | 0.75000               | Oversupply              |
| 12/11/2020 12:43    | 0:10               | 17-2          | 0.0588                  | 0.75000               | Oversupply              |
| 12/11/2020 12:55    | 0:50               | 17-2          | 0.3097                  | 0.75000               | Oversupply              |
| 12/11/2020 13:06    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/11/2020 13:06    | 0:02               | KWP11         | 0.0154                  | 15.10405              | Oversupply              |
| 12/11/2020 13:27    | 0:02               | SSA3          | 0.0548                  | 1.73900               | Oversupply              |
| 12/11/2020 13:29    | 0:02               | SSA3          | 0.0691                  | 1.51200               | Oversupply              |
| 12/11/2020 13:31    | 0:02               | SSA3          | 0.0344                  | 1.03100               | Oversupply              |
| 12/11/2020 13:33    | 0:02               | SSA3          | 0.0342                  | 0.93900               | Oversupply              |
| 12/11/2020 13:35    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/11/2020 13:35    | 0:02               | SSA3          | 0.0339                  | 0.02200               | Oversupply              |
| 12/11/2020 13:37    | 0:02               | SSA3          | 0.0342                  | 0.14100               | Oversupply              |
| 12/11/2020 13:39    | 0:02               | SSA3          | 0.0342                  | 0.14600               | Oversupply              |
| 12/11/2020 13:41    | 0:02               | SSA3          | 0.0342                  | 0.45900               | Oversupply              |
| 12/11/2020 13:43    | 0:02               | SSA3          | 0.0318                  | 0.86900               | Oversupply              |
| 12/11/2020 13:46    | 0:03               | 17-2          | 0.0111                  | 0.28600               | Oversupply              |
| 12/11/2020 13:47    | 0:02               | SSA3          | 0.0070                  | 0.53900               | Oversupply              |
| 12/11/2020 14:16    | 0:01               | 17-2          | 0.0022                  | 0.42000               | Oversupply              |
| 12/11/2020 14:21    | 0:02               | SSA3          | -0.0053                 | 2.54500               | Oversupply              |
| 12/11/2020 14:22    | 0:01               | 17-2          | 0.0080                  | 0.75000               | Oversupply              |
| 12/11/2020 14:29    | 0:03               | 17-2          | 0.0151                  | 0.75000               | Oversupply              |
| 12/11/2020 14:33    | 0:01               | 17-2          | 0.0022                  | 0.75000               | Oversupply              |
| 12/11/2020 14:47    | 0:02               | SSA3          | 0.0046                  | 2.38400               | Oversupply              |
| 12/11/2020 14:48    | 0:04               | 17-2          | 0.0358                  | 0.73300               | Oversupply              |
| 12/11/2020 14:49    | 0:02               | SSA3          | 0.0046                  | 0.25700               | Oversupply              |
| 12/11/2020 14:57    | 0:01               | 17-2          | 0.0007                  | 0.68300               | Oversupply              |
| 12/11/2020 14:59    | 0:01               | 17-2          | 0.0021                  | 0.68300               | Oversupply              |
| 12/11/2020 15:12    | 0:04               | 17-2          | 0.0394                  | 0.63600               | Oversupply              |
| 12/11/2020 15:12    | 0:02               | SSA3          | 0.0130                  | 2.05700               | Oversupply              |
| 12/11/2020 15:14    | 0:02               | SSA3          | 0.0087                  | 0.51100               | Oversupply              |
| 12/11/2020 15:19    | 0:01               | 17-2          | 0.0025                  | 0.59800               | Oversupply              |
| 12/11/2020 15:24    | 0:01               | 17-2          | 0.0013                  | 0.58600               | Oversupply              |
| 12/11/2020 15:26    | 0:03               | 17-2          | 0.0062                  | 0.58600               | Oversupply              |
| 12/12/2020 0:21     | 1:07               | KWP11         | 4.0071                  | 19.21064              | Oversupply              |
| 12/12/2020 3:32     | 0:02               | KWP11         | 0.0105                  | 19.21064              | Oversupply              |
| 12/12/2020 4:55     | 1:25               | KWP11         | 9.6849                  | 19.21064              | Oversupply              |
| 12/12/2020 6:23     | 0:05               | KWP11         | 0.1572                  | 17.71371              | Oversupply              |
| 12/12/2020 6:29     | 0:02               | KWP11         | 0.0098                  | 17.71271              | Oversupply              |
| 12/12/2020 6:48     | 0:07               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 6:49     | 0:07               | KWP11         | 0.2128                  | 17.71371              | Oversupply              |
| 12/12/2020 6:57     | 10:52              | SSA2          | 17.8202                 | 2.87000               | System Constraint       |
| 12/12/2020 7:42     | 0:01               | 17-2          | 0.0002                  | 0.04300               | Oversupply              |
| 12/12/2020 7:44     | 5:43               | 17-2          | 2.0157                  | 0.75000               | Oversupply              |
| 12/12/2020 7:44     | 0:06               | SSA3          | 0.0458                  | 0.14600               | Oversupply              |
| 12/12/2020 7:45     | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 7:46     | 0:02               | KWP11         | 0.0163                  | 17.70872              | Oversupply              |
| 12/12/2020 7:49     | 0:01               | KWP11         | 0.0001                  | 17.70572              | Oversupply              |
| 12/12/2020 7:50     | 0:02               | SSA3          | 0.0193                  | 0.11400               | Oversupply              |
| 12/12/2020 7:51     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 7:52     | 0:08               | SSA3          | 0.0773                  | 0.01200               | Oversupply              |
| 12/12/2020 7:53     | 0:07               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 7:55     | 0:06               | KWP11         | 0.1327                  | 17.71371              | Oversupply              |
| 12/12/2020 8:01     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 8:01     | 0:02               | SSA3          | 0.0262                  | 0.00500               | Oversupply              |
| 12/12/2020 8:03     | 0:11               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 8:03     | 0:07               | KWP11         | 0.0350                  | 17.71371              | Oversupply              |
| 12/12/2020 8:03     | 5:23               | SSA3          | 11.5568                 | 0.00400               | Oversupply              |
| 12/12/2020 8:11     | 0:02               | KWP11         | 0.0125                  | 17.71371              | Oversupply              |
| 12/12/2020 8:16     | 5:09               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 8:17     | 5:09               | KWP11         | 77.0261                 | 19.14677              | Oversupply              |
| 12/12/2020 10:00    | 0:10               | AWE           | 0.3483                  | 21.00000              | Oversupply              |
| 12/12/2020 10:12    | 3:06               | AWE           | 17.3297                 | 21.00000              | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/12/2020 13:28    | 0:36               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 13:28    | 0:37               | KWP11         | 2.2674                  | 18.89828              | Oversupply              |
| 12/12/2020 13:28    | 1:53               | 17-2          | 0.9756                  | 0.75000               | Oversupply              |
| 12/12/2020 13:28    | 0:36               | SSA3          | 1.0164                  | 0.86800               | Oversupply              |
| 12/12/2020 14:04    | 0:02               | SSA3          | 0.0929                  | 0.12800               | Oversupply              |
| 12/12/2020 14:05    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 14:06    | 1:03               | KWP11         | 5.0630                  | 18.83341              | Oversupply              |
| 12/12/2020 14:06    | 1:02               | SSA3          | 2.0903                  | 0.00900               | Oversupply              |
| 12/12/2020 14:07    | 1:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/12/2020 15:08    | 0:02               | SSA3          | 0.0501                  | 0.35000               | Oversupply              |
| 12/12/2020 15:10    | 0:02               | SSA3          | 0.0505                  | 0.93100               | Oversupply              |
| 12/12/2020 15:12    | 0:02               | SSA3          | 0.0505                  | 0.25800               | Oversupply              |
| 12/12/2020 15:14    | 0:02               | SSA3          | 0.0107                  | 0.98400               | Oversupply              |
| 12/12/2020 15:16    | 0:02               | SSA3          | 0.0009                  | 1.17600               | Oversupply              |
| 12/12/2020 15:18    | 0:02               | SSA3          | 0.0009                  | 1.80300               | Oversupply              |
| 12/12/2020 15:20    | 0:02               | SSA3          | 0.0009                  | 1.79300               | Oversupply              |
| 12/13/2020 6:57     | 10:52              | SSA2          | 15.4306                 | 2.87000               | System Constraint       |
| 12/14/2020 6:57     | 10:50              | SSA2          | 16.8152                 | 2.87000               | System Constraint       |
| 12/14/2020 8:36     | 0:01               | KWP11         | 0.0011                  | 0.06786               | Oversupply              |
| 12/15/2020 7:01     | 10:48              | SSA2          | 14.1959                 | 2.87000               | System Constraint       |
| 12/15/2020 10:16    | 0:01               | KWP11         | 0.0002                  | 0.05988               | Oversupply              |
| 12/15/2020 10:50    | 0:04               | 17-2          | 0.0149                  | 0.28800               | Oversupply              |
| 12/15/2020 11:23    | 0:31               | 17-2          | 0.0296                  | 0.75000               | Oversupply              |
| 12/15/2020 11:23    | 0:02               | SSA3          | 0.0025                  | 2.55600               | Oversupply              |
| 12/15/2020 11:31    | 0:02               | SSA3          | 0.0291                  | 2.55900               | Oversupply              |
| 12/15/2020 11:33    | 0:02               | SSA3          | 0.0289                  | 2.57700               | Oversupply              |
| 12/15/2020 11:37    | 0:02               | SSA3          | 0.0291                  | 1.10100               | Oversupply              |
| 12/15/2020 11:39    | 0:02               | SSA3          | 0.0291                  | 0.59600               | Oversupply              |
| 12/15/2020 11:47    | 0:02               | SSA3          | 0.0264                  | 1.79300               | Oversupply              |
| 12/15/2020 11:49    | 0:02               | SSA3          | 0.0262                  | 1.74700               | Oversupply              |
| 12/15/2020 11:51    | 0:02               | SSA3          | 0.0262                  | 1.82600               | Oversupply              |
| 12/15/2020 11:55    | 0:02               | SSA3          | 0.0260                  | 2.60500               | Oversupply              |
| 12/15/2020 11:56    | 0:36               | 17-2          | 0.2182                  | 0.75000               | Oversupply              |
| 12/15/2020 11:57    | 0:02               | SSA3          | 0.0270                  | 1.02900               | Oversupply              |
| 12/15/2020 11:59    | 0:02               | SSA3          | 0.0630                  | 0.31600               | Oversupply              |
| 12/15/2020 12:01    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 12:01    | 0:08               | SSA3          | 0.3213                  | 0.01800               | Oversupply              |
| 12/15/2020 12:02    | 0:07               | KWP11         | 0.1429                  | 14.81065              | Oversupply              |
| 12/15/2020 12:04    | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 12:09    | 0:02               | SSA3          | 0.0793                  | 0.63500               | Oversupply              |
| 12/15/2020 12:11    | 0:02               | SSA3          | 0.0813                  | 0.14600               | Oversupply              |
| 12/15/2020 12:12    | 0:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 12:13    | 0:05               | KWP11         | 0.1421                  | 11.60422              | Oversupply              |
| 12/15/2020 12:13    | 0:02               | SSA3          | 0.0794                  | -0.00300              | Oversupply              |
| 12/15/2020 12:15    | 0:02               | SSA3          | 0.0456                  | -0.00300              | Oversupply              |
| 12/15/2020 12:17    | 0:02               | SSA3          | 0.0456                  | 0.01200               | Oversupply              |
| 12/15/2020 12:19    | 0:03               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 12:19    | 0:02               | SSA3          | 0.0456                  | 0.05200               | Oversupply              |
| 12/15/2020 12:20    | 0:02               | KWP11         | 0.0049                  | 13.74983              | Oversupply              |
| 12/15/2020 12:21    | 0:02               | SSA3          | 0.0456                  | 0.06900               | Oversupply              |
| 12/15/2020 12:23    | 0:02               | SSA3          | 0.0456                  | 0.46500               | Oversupply              |
| 12/15/2020 12:25    | 0:02               | SSA3          | 0.0456                  | 0.45600               | Oversupply              |
| 12/15/2020 12:27    | 0:02               | SSA3          | 0.0456                  | 0.52900               | Oversupply              |
| 12/15/2020 12:29    | 0:02               | SSA3          | 0.0082                  | 0.05500               | Oversupply              |
| 12/15/2020 12:37    | 0:08               | 17-2          | 0.0336                  | 0.43300               | Oversupply              |
| 12/15/2020 12:37    | 0:02               | SSA3          | 0.0137                  | 2.35000               | Oversupply              |
| 12/15/2020 12:39    | 0:02               | SSA3          | 0.0137                  | 1.40600               | Oversupply              |
| 12/15/2020 12:47    | 0:02               | 17-2          | 0.0056                  | 0.31700               | Oversupply              |
| 12/15/2020 12:48    | 0:02               | SSA3          | 0.0205                  | 1.24500               | Oversupply              |
| 12/15/2020 12:52    | 1:16               | 17-2          | 0.3200                  | 0.44000               | Oversupply              |
| 12/15/2020 12:54    | 0:02               | SSA3          | 0.0203                  | 0.09900               | Oversupply              |
| 12/15/2020 12:56    | 0:32               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 12:56    | 0:02               | SSA3          | 0.0205                  | 0.03300               | Oversupply              |
| 12/15/2020 12:58    | 0:30               | SSA3          | 0.7303                  | 0.00600               | Oversupply              |
| 12/15/2020 13:01    | 0:28               | KWP11         | 2.5781                  | 18.85736              | Oversupply              |
| 12/15/2020 13:28    | 0:02               | SSA3          | 0.0589                  | -0.00400              | Oversupply              |
| 12/15/2020 13:30    | 0:12               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 13:30    | 0:12               | SSA3          | 0.4867                  | -0.00300              | Oversupply              |
| 12/15/2020 13:31    | 0:11               | KWP11         | 0.3956                  | 18.02008              | Oversupply              |
| 12/15/2020 13:42    | 0:02               | SSA3          | 0.0812                  | -0.00400              | Oversupply              |
| 12/15/2020 13:43    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 13:43    | 0:01               | KWP11         | 0.0007                  | 16.50818              | Oversupply              |
| 12/15/2020 13:44    | 0:02               | SSA3          | 0.0695                  | -0.00400              | Oversupply              |
| 12/15/2020 13:46    | 0:02               | SSA3          | 0.0348                  | 0.43100               | Oversupply              |
| 12/15/2020 13:50    | 0:02               | SSA3          | 0.0348                  | 1.10300               | Oversupply              |
| 12/15/2020 13:51    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/15/2020 13:52    | 0:04               | SSA3          | 0.0693                  | -0.00300              | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/15/2020 13:54    | 0:02               | KWPPII        | 0.0290                  | 18.01209              | Oversupply              |
| 12/15/2020 14:00    | 0:02               | SSA3          | 0.0161                  | 2.57200               | Oversupply              |
| 12/15/2020 14:02    | 0:02               | SSA3          | 0.0161                  | 2.22900               | Oversupply              |
| 12/15/2020 14:08    | 0:02               | SSA3          | 0.0161                  | 2.27400               | Oversupply              |
| 12/15/2020 14:09    | 0:05               | 17-2          | 0.0134                  | 0.16700               | Oversupply              |
| 12/15/2020 14:10    | 0:02               | SSA3          | 0.0161                  | 0.77600               | Oversupply              |
| 12/16/2020 1:51     | 0:06               | KWPPII        | 0.0856                  | 11.16512              | Oversupply              |
| 12/16/2020 3:27     | 0:02               | KWPPII        | 0.0146                  | 8.62134               | Oversupply              |
| 12/16/2020 3:31     | 0:19               | KWPPII        | 0.8536                  | 13.19596              | Oversupply              |
| 12/16/2020 3:51     | 0:04               | KWPPII        | 0.0572                  | 10.77492              | Oversupply              |
| 12/16/2020 4:01     | 0:05               | KWPPII        | 0.0927                  | 10.55837              | Oversupply              |
| 12/16/2020 4:09     | 0:31               | KWPPII        | 1.9577                  | 14.90646              | Oversupply              |
| 12/16/2020 5:56     | 0:19               | KWPPII        | 1.6745                  | 15.46531              | Oversupply              |
| 12/16/2020 6:33     | 1:12               | KWPPII        | 6.3725                  | 17.37540              | Oversupply              |
| 12/16/2020 6:46     | 0:58               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 7:00     | 0:44               | SSA3          | 0.0505                  | 0.00100               | Oversupply              |
| 12/16/2020 7:03     | 10:47              | SSA2          | 13.2674                 | 2.87000               | System Constraint       |
| 12/16/2020 7:36     | 0:09               | 17-2          | 0.0018                  | 0.01800               | Oversupply              |
| 12/16/2020 7:51     | 0:01               | 17-2          | 0.0002                  | 0.03000               | Oversupply              |
| 12/16/2020 8:17     | 0:19               | 17-2          | 0.0144                  | 0.08000               | Oversupply              |
| 12/16/2020 8:19     | 0:02               | SSA3          | 0.0073                  | 0.12100               | Oversupply              |
| 12/16/2020 8:21     | 0:02               | SSA3          | 0.0073                  | 0.17700               | Oversupply              |
| 12/16/2020 8:23     | 0:02               | SSA3          | 0.0074                  | 0.18000               | Oversupply              |
| 12/16/2020 8:25     | 0:02               | SSA3          | 0.0074                  | 0.26800               | Oversupply              |
| 12/16/2020 8:27     | 0:02               | SSA3          | 0.0074                  | 0.45800               | Oversupply              |
| 12/16/2020 8:29     | 0:02               | SSA3          | 0.0094                  | 0.16600               | Oversupply              |
| 12/16/2020 8:31     | 0:05               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 8:31     | 0:04               | SSA3          | 0.0395                  | 0.06200               | Oversupply              |
| 12/16/2020 8:32     | 0:04               | KWPPII        | 0.0871                  | 17.71071              | Oversupply              |
| 12/16/2020 8:38     | 0:41               | 17-2          | 0.1226                  | 0.46500               | Oversupply              |
| 12/16/2020 8:39     | 0:02               | SSA3          | 0.0197                  | 0.50500               | Oversupply              |
| 12/16/2020 8:41     | 0:02               | SSA3          | 0.0198                  | 0.20100               | Oversupply              |
| 12/16/2020 8:42     | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 8:43     | 0:02               | SSA3          | 0.0212                  | 0.02000               | Oversupply              |
| 12/16/2020 8:45     | 1:23               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 8:45     | 1:23               | SSA3          | 1.8925                  | 0.01400               | Oversupply              |
| 12/16/2020 8:47     | 0:32               | KWPPII        | 2.9937                  | 17.71371              | Oversupply              |
| 12/16/2020 9:20     | 0:49               | 17-2          | 0.2376                  | 0.62300               | Oversupply              |
| 12/16/2020 9:20     | 0:48               | KWPPII        | 11.5514                 | 17.68576              | Oversupply              |
| 12/16/2020 9:46     | 0:02               | AWE           | 0.0166                  | 20.00000              | Oversupply              |
| 12/16/2020 9:52     | 0:05               | AWE           | 0.0332                  | 20.20000              | Oversupply              |
| 12/16/2020 9:58     | 0:03               | AWE           | 0.0053                  | 20.40000              | Oversupply              |
| 12/16/2020 10:02    | 0:02               | AWE           | 0.0107                  | 20.70000              | Oversupply              |
| 12/16/2020 10:10    | 0:53               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 10:10    | 0:54               | KWPPII        | 8.0806                  | 17.71071              | Oversupply              |
| 12/16/2020 10:10    | 3:21               | 17-2          | 1.8138                  | 0.75000               | Oversupply              |
| 12/16/2020 10:10    | 0:52               | SSA3          | 1.8644                  | 0.09700               | Oversupply              |
| 12/16/2020 10:50    | 0:08               | AWE           | 0.1588                  | 21.00000              | Oversupply              |
| 12/16/2020 11:03    | 0:02               | SSA3          | 0.0878                  | 0.00100               | Oversupply              |
| 12/16/2020 11:05    | 0:37               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 11:05    | 0:43               | KWPPII        | 2.9655                  | 19.13180              | Oversupply              |
| 12/16/2020 11:05    | 0:32               | SSA3          | 1.2182                  | 0.01300               | Oversupply              |
| 12/16/2020 11:37    | 0:02               | SSA3          | 0.0965                  | -0.00300              | Oversupply              |
| 12/16/2020 11:39    | 0:02               | SSA3          | 0.0981                  | 0.00000               | Oversupply              |
| 12/16/2020 11:41    | 0:02               | SSA3          | 0.0965                  | -0.00600              | Oversupply              |
| 12/16/2020 11:43    | 0:02               | SSA3          | 0.0929                  | 0.00300               | Oversupply              |
| 12/16/2020 11:44    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 11:45    | 0:02               | SSA3          | 0.0386                  | -0.00100              | Oversupply              |
| 12/16/2020 11:47    | 0:02               | SSA3          | 0.0383                  | 0.06400               | Oversupply              |
| 12/16/2020 11:49    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 11:49    | 0:02               | SSA3          | 0.0379                  | 0.00200               | Oversupply              |
| 12/16/2020 11:50    | 0:01               | KWPPII        | 0.0120                  | 17.90432              | Oversupply              |
| 12/16/2020 11:51    | 0:02               | SSA3          | 0.0383                  | 0.18200               | Oversupply              |
| 12/16/2020 11:53    | 0:02               | SSA3          | 0.0383                  | 0.70500               | Oversupply              |
| 12/16/2020 12:03    | 0:02               | SSA3          | 0.0639                  | 0.23900               | Oversupply              |
| 12/16/2020 12:05    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 12:05    | 0:02               | KWPPII        | 0.0383                  | 17.60792              | Oversupply              |
| 12/16/2020 12:05    | 0:02               | SSA3          | 0.0639                  | 0.00600               | Oversupply              |
| 12/16/2020 12:07    | 0:02               | SSA3          | 0.0639                  | 0.01200               | Oversupply              |
| 12/16/2020 12:08    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 12:08    | 0:01               | KWPPII        | 0.0079                  | 18.41527              | Oversupply              |
| 12/16/2020 12:09    | 0:02               | SSA3          | 0.0634                  | 0.13400               | Oversupply              |
| 12/16/2020 12:11    | 0:02               | SSA3          | 0.0645                  | 1.17100               | Oversupply              |
| 12/16/2020 12:13    | 0:02               | SSA3          | 0.0568                  | 1.10000               | Oversupply              |
| 12/16/2020 12:15    | 0:02               | SSA3          | 0.0504                  | 1.11500               | Oversupply              |
| 12/16/2020 12:17    | 0:02               | SSA3          | 0.0504                  | 1.39300               | Oversupply              |
| 12/16/2020 12:19    | 0:02               | SSA3          | 0.0504                  | 2.13700               | Oversupply              |



Maui Curtailment Report

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/16/2020 12:21    | 0:02               | SSA3          | 0.0504                  | 1.39100               | Oversupply              |
| 12/16/2020 12:23    | 0:02               | SSA3          | 0.0504                  | 0.52600               | Oversupply              |
| 12/16/2020 12:25    | 0:01               | KWP11         | 0.0006                  | 18.96814              | Oversupply              |
| 12/16/2020 12:25    | 0:02               | SSA3          | 0.0504                  | 1.04900               | Oversupply              |
| 12/16/2020 12:27    | 0:02               | SSA3          | 0.0509                  | 1.02400               | Oversupply              |
| 12/16/2020 12:29    | 0:02               | SSA3          | 0.0185                  | 1.16600               | Oversupply              |
| 12/16/2020 12:33    | 0:02               | SSA3          | 0.0164                  | 2.63700               | Oversupply              |
| 12/16/2020 12:35    | 0:02               | SSA3          | 0.0164                  | 0.05300               | Oversupply              |
| 12/16/2020 12:39    | 0:02               | SSA3          | 0.0164                  | 2.74000               | Oversupply              |
| 12/16/2020 12:41    | 0:02               | SSA3          | 0.0164                  | 2.36600               | Oversupply              |
| 12/16/2020 12:50    | 0:02               | SSA3          | 0.0649                  | 0.35600               | Oversupply              |
| 12/16/2020 12:52    | 0:02               | SSA3          | 0.0643                  | 1.85400               | Oversupply              |
| 12/16/2020 12:54    | 0:08               | SSA3          | 0.2511                  | 0.15900               | Oversupply              |
| 12/16/2020 12:56    | 0:05               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 12:57    | 0:05               | KWP11         | 0.0435                  | 19.17272              | Oversupply              |
| 12/16/2020 13:02    | 0:02               | SSA3          | 0.0581                  | 0.27200               | Oversupply              |
| 12/16/2020 13:03    | 0:01               | KWP11         | 0.0043                  | 18.64580              | Oversupply              |
| 12/16/2020 13:04    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/16/2020 13:04    | 0:02               | SSA3          | 0.0586                  | 0.01100               | Oversupply              |
| 12/16/2020 13:06    | 0:02               | SSA3          | 0.0576                  | 0.89900               | Oversupply              |
| 12/16/2020 13:08    | 0:02               | SSA3          | 0.0576                  | 0.98200               | Oversupply              |
| 12/16/2020 13:10    | 0:02               | SSA3          | 0.0576                  | 1.44300               | Oversupply              |
| 12/16/2020 13:12    | 0:02               | SSA3          | 0.0571                  | 0.03800               | Oversupply              |
| 12/16/2020 13:14    | 0:02               | SSA3          | 0.0506                  | 0.10500               | Oversupply              |
| 12/16/2020 13:16    | 0:02               | SSA3          | 0.0433                  | 0.35600               | Oversupply              |
| 12/16/2020 13:18    | 0:02               | SSA3          | 0.0433                  | 0.11500               | Oversupply              |
| 12/16/2020 13:20    | 0:02               | SSA3          | 0.0433                  | 1.99900               | Oversupply              |
| 12/16/2020 13:22    | 0:02               | SSA3          | 0.0433                  | 0.62800               | Oversupply              |
| 12/16/2020 13:24    | 0:02               | SSA3          | 0.0433                  | 0.94100               | Oversupply              |
| 12/16/2020 13:26    | 0:02               | SSA3          | 0.0433                  | 2.31600               | Oversupply              |
| 12/16/2020 13:28    | 0:02               | SSA3          | 0.0321                  | 0.72000               | Oversupply              |
| 12/16/2020 13:36    | 0:02               | 17-2          | 0.0160                  | 0.75000               | Oversupply              |
| 12/16/2020 13:36    | 0:02               | SSA3          | 0.0009                  | 2.67900               | Oversupply              |
| 12/16/2020 13:40    | 0:03               | 17-2          | 0.0168                  | 0.75000               | Oversupply              |
| 12/16/2020 15:01    | 0:07               | 17-2          | 0.0478                  | 0.75000               | Oversupply              |
| 12/16/2020 15:01    | 0:02               | SSA3          | 0.0044                  | 1.65000               | Oversupply              |
| 12/16/2020 15:03    | 0:02               | SSA3          | 0.0044                  | 0.47700               | Oversupply              |
| 12/16/2020 15:05    | 0:02               | SSA3          | 0.0044                  | 1.11300               | Oversupply              |
| 12/17/2020 3:14     | 0:01               | KWP11         | 0.0076                  | 19.16174              | Oversupply              |
| 12/17/2020 3:16     | 0:06               | KWP11         | 0.0736                  | 19.14677              | Oversupply              |
| 12/17/2020 3:23     | 0:02               | KWP11         | 0.0044                  | 19.14178              | Oversupply              |
| 12/17/2020 3:26     | 0:13               | KWP11         | 0.1452                  | 19.19966              | Oversupply              |
| 12/17/2020 3:47     | 0:02               | KWP11         | 0.0050                  | 19.20266              | Oversupply              |
| 12/17/2020 7:00     | 10:50              | SSA2          | 14.2943                 | 2.87000               | System Constraint       |
| 12/17/2020 8:21     | 0:03               | 17-2          | 0.0104                  | 0.34400               | Oversupply              |
| 12/17/2020 8:31     | 0:04               | 17-2          | 0.0144                  | 0.40000               | Oversupply              |
| 12/17/2020 8:31     | 0:02               | SSA3          | 0.0031                  | 1.02400               | Oversupply              |
| 12/17/2020 8:43     | 0:02               | SSA3          | -0.0009                 | 1.22200               | Oversupply              |
| 12/17/2020 8:44     | 0:02               | 17-2          | 0.0058                  | 0.29800               | Oversupply              |
| 12/17/2020 8:49     | 0:06               | 17-2          | 0.0361                  | 0.49700               | Oversupply              |
| 12/17/2020 8:50     | 0:02               | SSA3          | 0.0003                  | 1.29400               | Oversupply              |
| 12/17/2020 8:52     | 0:02               | SSA3          | 0.0003                  | 1.00400               | Oversupply              |
| 12/17/2020 10:17    | 0:02               | SSA3          | 0.0471                  | 2.37100               | Oversupply              |
| 12/17/2020 10:18    | 3:19               | 17-2          | 1.7796                  | 0.75000               | Oversupply              |
| 12/17/2020 10:19    | 0:02               | SSA3          | 0.0467                  | 0.07000               | Oversupply              |
| 12/17/2020 10:21    | 0:02               | SSA3          | 0.0467                  | 1.59200               | Oversupply              |
| 12/17/2020 10:23    | 0:02               | SSA3          | 0.0467                  | 0.63200               | Oversupply              |
| 12/17/2020 10:24    | 0:13               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 10:25    | 0:12               | KWP11         | 1.2515                  | 16.70577              | Oversupply              |
| 12/17/2020 10:25    | 0:12               | SSA3          | 0.2777                  | 0.02700               | Oversupply              |
| 12/17/2020 10:37    | 0:02               | SSA3          | 0.0466                  | 0.44100               | Oversupply              |
| 12/17/2020 10:39    | 0:02               | SSA3          | 0.0470                  | 2.24300               | Oversupply              |
| 12/17/2020 10:41    | 0:02               | SSA3          | 0.0466                  | 1.78800               | Oversupply              |
| 12/17/2020 10:43    | 0:02               | SSA3          | 0.0456                  | 1.46900               | Oversupply              |
| 12/17/2020 10:45    | 0:02               | SSA3          | 0.0386                  | 1.79000               | Oversupply              |
| 12/17/2020 10:47    | 0:02               | SSA3          | 0.0399                  | 0.56700               | Oversupply              |
| 12/17/2020 10:49    | 0:02               | SSA3          | 0.0402                  | 0.69000               | Oversupply              |
| 12/17/2020 10:51    | 0:02               | SSA3          | 0.0383                  | 0.52500               | Oversupply              |
| 12/17/2020 10:53    | 0:02               | SSA3          | 0.0383                  | 1.14300               | Oversupply              |
| 12/17/2020 10:55    | 0:02               | SSA3          | 0.0383                  | 1.68600               | Oversupply              |
| 12/17/2020 10:57    | 0:02               | SSA3          | 0.0383                  | 1.68700               | Oversupply              |
| 12/17/2020 10:59    | 0:02               | SSA3          | 0.0508                  | 1.06600               | Oversupply              |
| 12/17/2020 11:01    | 0:02               | SSA3          | 0.0580                  | 1.92700               | Oversupply              |
| 12/17/2020 11:03    | 0:02               | SSA3          | 0.0580                  | 2.00300               | Oversupply              |
| 12/17/2020 11:05    | 0:02               | SSA3          | 0.0575                  | 1.58700               | Oversupply              |
| 12/17/2020 11:07    | 0:02               | SSA3          | 0.0580                  | 0.93500               | Oversupply              |
| 12/17/2020 11:09    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |



Maui Curtailment Report

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/17/2020 11:09    | 0:03               | KWPPII        | 0.0227                  | 12.87462              | Oversupply              |
| 12/17/2020 11:09    | 1:23               | SSA3          | 3.3098                  | 0.00600               | Oversupply              |
| 12/17/2020 11:12    | 1:21               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 11:13    | 1:20               | KWPPII        | 11.1829                 | 16.77463              | Oversupply              |
| 12/17/2020 12:24    | 0:05               | AWE           | 0.2227                  | 14.20000              | Oversupply              |
| 12/17/2020 12:32    | 0:02               | SSA3          | 0.0813                  | 0.15900               | Oversupply              |
| 12/17/2020 12:34    | 0:32               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 12:34    | 0:32               | KWPPII        | 5.6154                  | 15.91439              | Oversupply              |
| 12/17/2020 12:34    | 0:32               | SSA3          | 1.3011                  | 0.00700               | Oversupply              |
| 12/17/2020 12:44    | 0:07               | AWE           | 0.1616                  | 17.40000              | Oversupply              |
| 12/17/2020 12:55    | 0:01               | AWE           | 0.0011                  | 16.30000              | Oversupply              |
| 12/17/2020 12:59    | 0:03               | AWE           | 0.0857                  | 19.70000              | Oversupply              |
| 12/17/2020 13:06    | 0:02               | SSA3          | 0.0746                  | 2.20000               | Oversupply              |
| 12/17/2020 13:08    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 13:08    | 0:04               | KWPPII        | 0.2603                  | 8.79897               | Oversupply              |
| 12/17/2020 13:08    | 0:04               | SSA3          | 0.1491                  | 0.02700               | Oversupply              |
| 12/17/2020 13:13    | 0:02               | SSA3          | 0.0743                  | 1.91200               | Oversupply              |
| 12/17/2020 13:15    | 0:02               | SSA3          | 0.0326                  | 1.80600               | Oversupply              |
| 12/17/2020 13:17    | 0:02               | SSA3          | 0.0328                  | 0.76500               | Oversupply              |
| 12/17/2020 13:19    | 0:02               | SSA3          | 0.0336                  | 0.16800               | Oversupply              |
| 12/17/2020 13:21    | 0:02               | SSA3          | 0.0331                  | 1.34400               | Oversupply              |
| 12/17/2020 13:23    | 0:02               | SSA3          | 0.0334                  | 2.23000               | Oversupply              |
| 12/17/2020 13:25    | 0:02               | SSA3          | 0.0326                  | 0.80000               | Oversupply              |
| 12/17/2020 13:27    | 0:02               | SSA3          | 0.0331                  | 1.88000               | Oversupply              |
| 12/17/2020 13:29    | 0:02               | SSA3          | 0.0423                  | 1.78100               | Oversupply              |
| 12/17/2020 13:31    | 0:02               | SSA3          | 0.0117                  | 2.33000               | Oversupply              |
| 12/17/2020 13:33    | 0:02               | SSA3          | 0.0117                  | 0.36800               | Oversupply              |
| 12/17/2020 14:27    | 0:10               | 17-2          | 0.0921                  | 0.75000               | Oversupply              |
| 12/17/2020 14:27    | 0:02               | SSA3          | 0.0063                  | 0.05700               | Oversupply              |
| 12/17/2020 14:29    | 0:02               | SSA3          | 0.0332                  | 2.06700               | Oversupply              |
| 12/17/2020 14:31    | 0:02               | SSA3          | 0.0340                  | 1.76300               | Oversupply              |
| 12/17/2020 14:33    | 0:02               | SSA3          | 0.0343                  | 1.19200               | Oversupply              |
| 12/17/2020 14:35    | 0:02               | SSA3          | 0.0343                  | 1.29700               | Oversupply              |
| 12/17/2020 14:38    | 0:55               | 17-2          | 0.4125                  | 0.75000               | Oversupply              |
| 12/17/2020 14:39    | 0:02               | SSA3          | 0.0340                  | 0.02600               | Oversupply              |
| 12/17/2020 14:41    | 0:02               | SSA3          | 0.0343                  | 0.61400               | Oversupply              |
| 12/17/2020 14:43    | 0:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 14:43    | 0:06               | SSA3          | 0.1916                  | 0.01900               | Oversupply              |
| 12/17/2020 14:44    | 0:38               | KWPPII        | 3.0168                  | 19.19866              | Oversupply              |
| 12/17/2020 14:49    | 0:32               | SSA3          | 0.9718                  | 0.04900               | Oversupply              |
| 12/17/2020 14:50    | 0:31               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 15:22    | 0:02               | SSA3          | 0.0423                  | 0.86900               | Oversupply              |
| 12/17/2020 15:24    | 0:02               | SSA3          | 0.0423                  | 0.14700               | Oversupply              |
| 12/17/2020 15:26    | 0:02               | SSA3          | 0.0423                  | 0.04900               | Oversupply              |
| 12/17/2020 15:28    | 0:01               | KWPPII        | 0.0037                  | 19.20266              | Oversupply              |
| 12/17/2020 15:28    | 0:02               | SSA3          | 0.0401                  | 0.01000               | Oversupply              |
| 12/17/2020 15:29    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/17/2020 15:30    | 0:02               | SSA3          | 0.0021                  | 0.49900               | Oversupply              |
| 12/17/2020 15:36    | 0:50               | 17-2          | 0.3875                  | 0.61300               | Oversupply              |
| 12/17/2020 15:36    | 0:02               | SSA3          | 0.0021                  | 0.55500               | Oversupply              |
| 12/17/2020 15:40    | 0:02               | SSA3          | 0.0021                  | 0.48800               | Oversupply              |
| 12/17/2020 15:42    | 0:02               | SSA3          | 0.0021                  | 0.37700               | Oversupply              |
| 12/17/2020 15:46    | 0:04               | SSA3          | 0.0059                  | 0.17900               | Oversupply              |
| 12/17/2020 15:50    | 0:02               | SSA3          | 0.0030                  | 0.10100               | Oversupply              |
| 12/17/2020 16:12    | 0:02               | SSA3          | 0.0007                  | 0.09600               | Oversupply              |
| 12/17/2020 16:14    | 0:02               | SSA3          | 0.0007                  | 0.16000               | Oversupply              |
| 12/17/2020 16:18    | 0:02               | SSA3          | 0.0019                  | 0.20000               | Oversupply              |
| 12/17/2020 16:20    | 0:02               | SSA3          | 0.0019                  | 0.12600               | Oversupply              |
| 12/17/2020 16:22    | 0:02               | SSA3          | 0.0019                  | 0.17900               | Oversupply              |
| 12/17/2020 16:28    | 0:01               | 17-2          | 0.0019                  | 0.35000               | Oversupply              |
| 12/17/2020 16:30    | 0:01               | 17-2          | 0.0039                  | 0.36500               | Oversupply              |
| 12/17/2020 16:32    | 0:01               | 17-2          | 0.0009                  | 0.42000               | Oversupply              |
| 12/17/2020 18:03    | 0:58               | KWPPII        | 4.7224                  | 19.21064              | Oversupply              |
| 12/17/2020 19:03    | 0:14               | KWPPII        | 0.6302                  | 19.21064              | Oversupply              |
| 12/17/2020 23:50    | 0:01               | KWPPII        | 0.0136                  | 19.21064              | Oversupply              |
| 12/17/2020 23:55    | 4:16               | KWPPII        | 32.1380                 | 19.21064              | Oversupply              |
| 12/18/2020 4:19     | 0:35               | KWPPII        | 3.4490                  | 19.21064              | Oversupply              |
| 12/18/2020 5:20     | 0:04               | KWPPII        | 0.0284                  | 19.21064              | Oversupply              |
| 12/18/2020 5:27     | 0:01               | KWPPII        | 0.0052                  | 19.21064              | Oversupply              |
| 12/18/2020 5:30     | 0:30               | KWPPII        | 1.8619                  | 19.21064              | Oversupply              |
| 12/18/2020 7:00     | 10:54              | SSA2          | 18.9712                 | 2.87000               | System Constraint       |
| 12/18/2020 8:37     | 6:41               | 17-2          | 2.5293                  | 0.75000               | Oversupply              |
| 12/18/2020 8:40     | 0:02               | SSA3          | 0.0092                  | 1.13600               | Oversupply              |
| 12/18/2020 8:42     | 0:02               | SSA3          | 0.0092                  | 0.58100               | Oversupply              |
| 12/18/2020 8:44     | 0:02               | SSA3          | 0.0233                  | 0.50100               | Oversupply              |
| 12/18/2020 8:46     | 0:02               | SSA3          | 0.0342                  | 0.04300               | Oversupply              |
| 12/18/2020 8:48     | 0:02               | SSA3          | 0.0337                  | 0.39500               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/18/2020 8:50     | 0:02               | SSA3          | 0.0337                  | 0.11100               | Oversupply              |
| 12/18/2020 8:52     | 0:02               | SSA3          | 0.0339                  | 0.46700               | Oversupply              |
| 12/18/2020 8:54     | 0:02               | SSA3          | 0.0342                  | 0.36500               | Oversupply              |
| 12/18/2020 8:56     | 0:02               | SSA3          | 0.0339                  | 0.04100               | Oversupply              |
| 12/18/2020 8:58     | 0:02               | SSA3          | 0.0360                  | 0.07000               | Oversupply              |
| 12/18/2020 9:00     | 0:02               | SSA3          | 0.0460                  | 0.12100               | Oversupply              |
| 12/18/2020 9:02     | 4:16               | SSA3          | 9.6855                  | 0.20400               | Oversupply              |
| 12/18/2020 9:04     | 4:15               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/18/2020 9:04     | 4:15               | KWP11         | 62.4873                 | 19.21064              | Oversupply              |
| 12/18/2020 9:47     | 0:01               | AWE           | 0.0061                  | 21.00000              | Oversupply              |
| 12/18/2020 9:49     | 0:37               | AWE           | 1.2759                  | 21.00000              | Oversupply              |
| 12/18/2020 11:03    | 0:03               | AWE           | 0.0335                  | 21.00000              | Oversupply              |
| 12/18/2020 11:13    | 0:01               | AWE           | 0.0047                  | 21.00000              | Oversupply              |
| 12/18/2020 11:16    | 0:02               | AWE           | 0.0311                  | 21.00000              | Oversupply              |
| 12/18/2020 11:21    | 0:23               | AWE           | 0.5500                  | 21.00000              | Oversupply              |
| 12/18/2020 11:49    | 0:07               | AWE           | 0.1157                  | 21.00000              | Oversupply              |
| 12/18/2020 11:57    | 0:12               | AWE           | 0.3737                  | 21.00000              | Oversupply              |
| 12/18/2020 12:10    | 0:02               | AWE           | 0.0197                  | 21.00000              | Oversupply              |
| 12/18/2020 12:13    | 0:03               | AWE           | 0.0426                  | 21.00000              | Oversupply              |
| 12/18/2020 12:25    | 0:04               | AWE           | 0.0435                  | 21.00000              | Oversupply              |
| 12/18/2020 12:30    | 0:01               | AWE           | 0.0001                  | 21.00000              | Oversupply              |
| 12/18/2020 12:32    | 0:04               | AWE           | 0.0896                  | 21.00000              | Oversupply              |
| 12/18/2020 12:37    | 0:13               | AWE           | 0.5219                  | 21.00000              | Oversupply              |
| 12/18/2020 12:51    | 0:01               | AWE           | 0.0015                  | 21.00000              | Oversupply              |
| 12/18/2020 13:00    | 0:05               | AWE           | 0.0478                  | 21.00000              | Oversupply              |
| 12/18/2020 13:08    | 0:01               | AWE           | 0.0047                  | 21.00000              | Oversupply              |
| 12/18/2020 13:20    | 1:55               | SSA3          | 4.2040                  | 2.47000               | Oversupply              |
| 12/18/2020 13:21    | 1:53               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/18/2020 13:21    | 1:55               | KWP11         | 23.0183                 | 19.21064              | Oversupply              |
| 12/18/2020 13:29    | 0:02               | AWE           | 0.0153                  | 21.00000              | Oversupply              |
| 12/18/2020 15:16    | 0:02               | SSA3          | 0.0101                  | 0.39300               | Oversupply              |
| 12/18/2020 15:19    | 0:09               | 17-2          | 0.0277                  | 0.70400               | Oversupply              |
| 12/18/2020 15:22    | 0:02               | SSA3          | 0.0101                  | 0.04000               | Oversupply              |
| 12/18/2020 15:24    | 0:02               | SSA3          | 0.0101                  | 0.34300               | Oversupply              |
| 12/18/2020 15:26    | 0:02               | SSA3          | 0.0101                  | 1.00800               | Oversupply              |
| 12/18/2020 19:34    | 5:22               | KWP11         | 83.8341                 | 19.21064              | Oversupply              |
| 12/18/2020 22:13    | 0:23               | AWE           | 0.4091                  | 21.00000              | Oversupply              |
| 12/18/2020 22:37    | 0:01               | AWE           | 0.0051                  | 20.90000              | Oversupply              |
| 12/18/2020 22:42    | 0:02               | AWE           | 0.0055                  | 21.00000              | Oversupply              |
| 12/18/2020 22:45    | 0:10               | AWE           | 0.1883                  | 21.00000              | Oversupply              |
| 12/18/2020 22:56    | 0:20               | AWE           | 0.5385                  | 21.00000              | Oversupply              |
| 12/18/2020 23:27    | 0:02               | AWE           | 0.0020                  | 21.00000              | Oversupply              |
| 12/18/2020 23:33    | 0:01               | AWE           | 0.0014                  | 21.00000              | Oversupply              |
| 12/18/2020 23:35    | 0:01               | AWE           | 0.0021                  | 21.00000              | Oversupply              |
| 12/19/2020 0:09     | 0:43               | AWE           | 2.5711                  | 21.00000              | Oversupply              |
| 12/19/2020 0:58     | 5:25               | KWP11         | 60.0546                 | 19.21064              | Oversupply              |
| 12/19/2020 6:24     | 0:05               | KWP11         | 0.0248                  | 19.21064              | Oversupply              |
| 12/19/2020 7:01     | 10:52              | SSA2          | 14.3765                 | 2.87000               | System Constraint       |
| 12/19/2020 7:46     | 0:08               | 17-2          | 0.0061                  | 0.05600               | Oversupply              |
| 12/19/2020 7:55     | 7:14               | 17-2          | 3.4601                  | 0.75000               | Oversupply              |
| 12/19/2020 7:57     | 0:02               | SSA3          | 0.0043                  | 0.50700               | Oversupply              |
| 12/19/2020 7:59     | 0:02               | SSA3          | 0.0129                  | 0.58800               | Oversupply              |
| 12/19/2020 8:01     | 0:02               | SSA3          | 0.0276                  | 0.26200               | Oversupply              |
| 12/19/2020 8:03     | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 8:03     | 0:02               | SSA3          | 0.0273                  | 0.00800               | Oversupply              |
| 12/19/2020 8:05     | 0:01               | KWP11         | 0.0047                  | 19.21064              | Oversupply              |
| 12/19/2020 8:05     | 0:02               | SSA3          | 0.0273                  | 0.11400               | Oversupply              |
| 12/19/2020 8:07     | 0:02               | SSA3          | 0.0273                  | 0.44900               | Oversupply              |
| 12/19/2020 8:09     | 0:02               | SSA3          | 0.0271                  | 0.07400               | Oversupply              |
| 12/19/2020 8:10     | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 8:11     | 0:02               | SSA3          | 0.0273                  | 0.00000               | Oversupply              |
| 12/19/2020 8:12     | 0:01               | KWP11         | 0.0057                  | 19.21064              | Oversupply              |
| 12/19/2020 8:13     | 0:02               | SSA3          | 0.0280                  | 0.05800               | Oversupply              |
| 12/19/2020 8:15     | 0:02               | SSA3          | 0.0322                  | 0.14900               | Oversupply              |
| 12/19/2020 8:17     | 0:02               | SSA3          | 0.0322                  | 0.23100               | Oversupply              |
| 12/19/2020 8:19     | 4:41               | SSA3          | 7.2651                  | 0.02100               | Oversupply              |
| 12/19/2020 8:20     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 8:22     | 2:48               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 8:22     | 2:55               | KWP11         | 20.4212                 | 19.21064              | Oversupply              |
| 12/19/2020 11:11    | 0:05               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 11:17    | 1:44               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 11:18    | 1:43               | KWP11         | 16.2864                 | 19.21064              | Oversupply              |
| 12/19/2020 11:50    | 0:01               | AWE           | 0.0016                  | 21.00000              | Oversupply              |
| 12/19/2020 13:01    | 0:02               | SSA3          | 0.0422                  | 0.42400               | Oversupply              |
| 12/19/2020 13:03    | 0:02               | SSA3          | 0.0422                  | 0.83500               | Oversupply              |
| 12/19/2020 13:05    | 0:02               | SSA3          | 0.0419                  | 0.20800               | Oversupply              |
| 12/19/2020 13:07    | 0:01               | KWP11         | 0.0006                  | 19.20665              | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/19/2020 13:07    | 0:02               | SSA3          | 0.0422                  | 0.09700               | Oversupply              |
| 12/19/2020 13:08    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 13:09    | 0:02               | SSA3          | 0.0422                  | 0.65700               | Oversupply              |
| 12/19/2020 13:11    | 0:16               | SSA3          | 0.3767                  | 0.09100               | Oversupply              |
| 12/19/2020 13:12    | 1:47               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/19/2020 13:14    | 0:05               | KWPPII        | 0.0705                  | 19.21064              | Oversupply              |
| 12/19/2020 13:20    | 0:05               | KWPPII        | 0.1725                  | 19.21064              | Oversupply              |
| 12/19/2020 13:26    | 0:02               | KWPPII        | 0.0033                  | 19.21064              | Oversupply              |
| 12/19/2020 13:27    | 0:02               | SSA3          | 0.0487                  | 0.00100               | Oversupply              |
| 12/19/2020 13:29    | 1:30               | KWPPII        | 13.2598                 | 19.21064              | Oversupply              |
| 12/19/2020 13:29    | 1:29               | SSA3          | 3.0478                  | 0.02700               | Oversupply              |
| 12/19/2020 14:58    | 0:02               | SSA3          | 0.0581                  | 0.24500               | Oversupply              |
| 12/19/2020 15:00    | 0:02               | SSA3          | 0.0167                  | 0.16900               | Oversupply              |
| 12/19/2020 15:02    | 0:02               | SSA3          | 0.0167                  | 0.41900               | Oversupply              |
| 12/19/2020 15:04    | 0:02               | SSA3          | 0.0167                  | 1.03400               | Oversupply              |
| 12/19/2020 15:06    | 0:02               | SSA3          | 0.0167                  | 1.79400               | Oversupply              |
| 12/19/2020 15:12    | 0:01               | 17-2          | 0.0006                  | 0.30000               | Oversupply              |
| 12/19/2020 15:20    | 0:02               | 17-2          | 0.0017                  | 0.74400               | Oversupply              |
| 12/19/2020 15:26    | 0:01               | 17-2          | 0.0011                  | 0.62500               | Oversupply              |
| 12/19/2020 20:36    | 1:35               | KWPPII        | 14.9955                 | 19.20765              | Oversupply              |
| 12/19/2020 22:31    | 0:01               | KWPPII        | 0.0014                  | 19.17172              | Oversupply              |
| 12/19/2020 22:33    | 0:20               | KWPPII        | 1.4183                  | 19.18769              | Oversupply              |
| 12/19/2020 23:22    | 0:10               | KWPPII        | 0.3795                  | 19.13879              | Oversupply              |
| 12/19/2020 23:34    | 3:07               | KWPPII        | 20.2282                 | 19.14777              | Oversupply              |
| 12/20/2020 2:42     | 0:02               | KWPPII        | 0.0288                  | 15.81659              | Oversupply              |
| 12/20/2020 2:58     | 3:39               | KWPPII        | 39.6425                 | 19.21064              | Oversupply              |
| 12/20/2020 6:54     | 0:07               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 6:56     | 0:04               | KWPPII        | 0.0376                  | 19.20864              | Oversupply              |
| 12/20/2020 7:02     | 10:51              | SSA2          | 15.9315                 | 2.87000               | System Constraint       |
| 12/20/2020 7:30     | 0:02               | SSA3          | 0.0030                  | 0.00600               | Oversupply              |
| 12/20/2020 7:33     | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 7:34     | 6:33               | 17-2          | 2.5883                  | 0.75000               | Oversupply              |
| 12/20/2020 7:34     | 0:08               | SSA3          | 0.0121                  | 0.00300               | Oversupply              |
| 12/20/2020 7:39     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 7:42     | 0:02               | SSA3          | 0.0030                  | 0.00500               | Oversupply              |
| 12/20/2020 7:44     | 0:02               | SSA3          | -0.0018                 | 0.24400               | Oversupply              |
| 12/20/2020 7:46     | 0:02               | SSA3          | 0.0102                  | 0.14500               | Oversupply              |
| 12/20/2020 7:48     | 0:02               | SSA3          | 0.0103                  | 0.16200               | Oversupply              |
| 12/20/2020 7:50     | 0:02               | SSA3          | 0.0103                  | 0.23900               | Oversupply              |
| 12/20/2020 7:52     | 0:02               | SSA3          | 0.0103                  | 0.27600               | Oversupply              |
| 12/20/2020 7:56     | 0:02               | SSA3          | 0.0103                  | 0.16200               | Oversupply              |
| 12/20/2020 7:58     | 0:02               | SSA3          | 0.0127                  | 0.40600               | Oversupply              |
| 12/20/2020 8:00     | 0:02               | SSA3          | 0.0159                  | 0.11300               | Oversupply              |
| 12/20/2020 8:02     | 0:18               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 8:02     | 0:18               | SSA3          | 0.1649                  | 0.01800               | Oversupply              |
| 12/20/2020 8:04     | 0:14               | KWPPII        | 0.1853                  | 19.20665              | Oversupply              |
| 12/20/2020 8:21     | 0:02               | SSA3          | 0.0229                  | 0.08500               | Oversupply              |
| 12/20/2020 8:23     | 0:02               | SSA3          | 0.0230                  | 0.14600               | Oversupply              |
| 12/20/2020 8:25     | 1:57               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 8:25     | 1:57               | SSA3          | 2.6808                  | 0.01300               | Oversupply              |
| 12/20/2020 8:28     | 1:55               | KWPPII        | 21.5119                 | 19.21064              | Oversupply              |
| 12/20/2020 10:10    | 0:08               | AWE           | 0.1507                  | 21.00000              | Oversupply              |
| 12/20/2020 10:21    | 0:02               | SSA3          | 0.0687                  | -0.00700              | Oversupply              |
| 12/20/2020 10:23    | 3:28               | SSA3          | 7.2439                  | 1.05600               | Oversupply              |
| 12/20/2020 10:24    | 1:39               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 10:25    | 1:39               | KWPPII        | 20.3967                 | 17.71071              | Oversupply              |
| 12/20/2020 11:45    | 0:05               | AWE           | 0.0613                  | 21.00000              | Oversupply              |
| 12/20/2020 11:51    | 0:01               | AWE           | 0.0029                  | 21.00000              | Oversupply              |
| 12/20/2020 11:58    | 0:02               | AWE           | 0.0097                  | 21.00000              | Oversupply              |
| 12/20/2020 12:05    | 1:46               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/20/2020 12:06    | 1:46               | KWPPII        | 11.9918                 | 17.68476              | Oversupply              |
| 12/20/2020 13:51    | 0:02               | SSA3          | 0.0621                  | 0.38700               | Oversupply              |
| 12/20/2020 13:53    | 0:02               | SSA3          | 0.0621                  | 0.05000               | Oversupply              |
| 12/20/2020 13:55    | 0:02               | SSA3          | 0.0621                  | 0.23700               | Oversupply              |
| 12/20/2020 13:57    | 0:02               | SSA3          | 0.0621                  | 0.25300               | Oversupply              |
| 12/20/2020 13:59    | 0:02               | SSA3          | 0.0181                  | 0.70400               | Oversupply              |
| 12/20/2020 14:01    | 0:02               | SSA3          | 0.0070                  | 1.03400               | Oversupply              |
| 12/20/2020 14:03    | 0:02               | SSA3          | 0.0070                  | 2.29400               | Oversupply              |
| 12/20/2020 15:35    | 0:04               | 17-2          | 0.0184                  | 0.75000               | Oversupply              |
| 12/20/2020 15:36    | 0:02               | SSA3          | 0.0057                  | 0.39900               | Oversupply              |
| 12/20/2020 15:40    | 0:03               | 17-2          | 0.0144                  | 0.51700               | Oversupply              |
| 12/20/2020 15:40    | 0:02               | SSA3          | 0.0057                  | 1.50200               | Oversupply              |
| 12/20/2020 22:31    | 0:11               | KWPPII        | 0.4618                  | 19.21064              | Oversupply              |
| 12/20/2020 23:36    | 0:01               | KWPPII        | 0.0011                  | 19.21064              | Oversupply              |
| 12/20/2020 23:38    | 0:01               | KWPPII        | 0.0013                  | 19.21064              | Oversupply              |
| 12/20/2020 23:43    | 0:51               | KWPPII        | 2.0211                  | 19.21064              | Oversupply              |
| 12/21/2020 0:38     | 4:29               | KWPPII        | 31.0779                 | 19.21064              | Oversupply              |



Maui Curtailment Report

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/21/2020 7:00     | 10:52              | SSA2          | 16.2389                 | 2.87000               | System Constraint       |
| 12/21/2020 9:04     | 0:02               | SSA3          | 0.0190                  | 1.43700               | Oversupply              |
| 12/21/2020 9:05     | 6:41               | 17-2          | 3.6975                  | 0.75000               | Oversupply              |
| 12/21/2020 9:06     | 0:02               | SSA3          | 0.0190                  | 1.15000               | Oversupply              |
| 12/21/2020 9:08     | 0:02               | SSA3          | 0.0190                  | 0.86100               | Oversupply              |
| 12/21/2020 9:10     | 0:02               | SSA3          | 0.0190                  | 0.56900               | Oversupply              |
| 12/21/2020 9:12     | 0:02               | SSA3          | 0.0190                  | 0.85400               | Oversupply              |
| 12/21/2020 9:14     | 0:02               | SSA3          | 0.0372                  | 0.26600               | Oversupply              |
| 12/21/2020 9:16     | 0:02               | SSA3          | 0.0427                  | 0.85400               | Oversupply              |
| 12/21/2020 9:18     | 0:04               | SSA3          | 0.0864                  | 0.11600               | Oversupply              |
| 12/21/2020 9:22     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/21/2020 9:23     | 0:02               | SSA3          | 0.0427                  | 0.10200               | Oversupply              |
| 12/21/2020 9:24     | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/21/2020 9:25     | 0:02               | SSA3          | 0.0430                  | 0.03200               | Oversupply              |
| 12/21/2020 9:27     | 0:02               | SSA3          | 0.0430                  | 0.96600               | Oversupply              |
| 12/21/2020 9:29     | 0:02               | SSA3          | 0.0472                  | 0.09600               | Oversupply              |
| 12/21/2020 9:31     | 0:02               | SSA3          | 0.0566                  | 0.60500               | Oversupply              |
| 12/21/2020 9:33     | 0:02               | SSA3          | 0.0566                  | 0.30700               | Oversupply              |
| 12/21/2020 9:34     | 6:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/21/2020 9:35     | 6:06               | KWPPII        | 92.9029                 | 19.21064              | Oversupply              |
| 12/21/2020 9:35     | 6:07               | SSA3          | 13.4196                 | 0.00600               | Oversupply              |
| 12/21/2020 11:15    | 3:24               | AWE           | 31.4442                 | 21.00000              | Oversupply              |
| 12/21/2020 11:34    | 0:03               | SAG           | Data is not available   | Data is not available | Oversupply              |
| 12/21/2020 11:35    | 0:01               | KWP           | 0.0009                  | 28.35165              | Oversupply              |
| 12/21/2020 11:38    | 0:01               | SAG           | Data is not available   | Data is not available | Oversupply              |
| 12/21/2020 15:41    | 0:02               | SSA3          | 0.0479                  | 0.86600               | Oversupply              |
| 12/21/2020 15:49    | 0:01               | 17-2          | 0.0013                  | 0.55600               | Oversupply              |
| 12/21/2020 15:51    | 0:01               | 17-2          | 0.0092                  | 0.55600               | Oversupply              |
| 12/21/2020 22:35    | 0:02               | KWPPII        | 0.0241                  | 17.96918              | Oversupply              |
| 12/21/2020 22:43    | 0:06               | KWPPII        | 0.0941                  | 18.97013              | Oversupply              |
| 12/21/2020 22:50    | 0:07               | KWPPII        | 0.0439                  | 18.43124              | Oversupply              |
| 12/21/2020 23:02    | 1:16               | KWPPII        | 5.7868                  | 19.13978              | Oversupply              |
| 12/22/2020 0:47     | 0:01               | KWPPII        | 0.0083                  | 11.54135              | Oversupply              |
| 12/22/2020 0:49     | 0:35               | KWPPII        | 4.8066                  | 17.62788              | Oversupply              |
| 12/22/2020 7:01     | 10:52              | SSA2          | 18.0837                 | 2.87000               | System Constraint       |
| 12/22/2020 9:32     | 0:06               | 17-2          | 0.0294                  | 0.63300               | Oversupply              |
| 12/22/2020 9:39     | 0:08               | 17-2          | 0.0727                  | 0.66600               | Oversupply              |
| 12/22/2020 9:39     | 0:02               | SSA3          | 0.0041                  | 1.86300               | Oversupply              |
| 12/22/2020 9:41     | 0:02               | SSA3          | 0.0041                  | 1.53300               | Oversupply              |
| 12/22/2020 9:43     | 0:02               | SSA3          | 0.0041                  | 1.52200               | Oversupply              |
| 12/22/2020 9:45     | 0:02               | SSA3          | 0.0091                  | 1.09600               | Oversupply              |
| 12/22/2020 9:51     | 0:08               | 17-2          | 0.0715                  | 0.69800               | Oversupply              |
| 12/22/2020 9:51     | 0:02               | SSA3          | 0.0092                  | 1.39500               | Oversupply              |
| 12/22/2020 9:53     | 0:02               | SSA3          | 0.0092                  | 1.92300               | Oversupply              |
| 12/22/2020 10:00    | 0:02               | 17-2          | 0.0073                  | 0.70900               | Oversupply              |
| 12/22/2020 10:05    | 0:01               | 17-2          | 0.0050                  | 0.72000               | Oversupply              |
| 12/22/2020 10:10    | 3:03               | 17-2          | 2.0077                  | 0.75000               | Oversupply              |
| 12/22/2020 10:15    | 0:02               | SSA3          | 0.0277                  | 1.56800               | Oversupply              |
| 12/22/2020 10:17    | 0:02               | SSA3          | 0.0275                  | 0.85800               | Oversupply              |
| 12/22/2020 10:19    | 0:02               | SSA3          | 0.0280                  | 1.00600               | Oversupply              |
| 12/22/2020 10:22    | 0:02               | SSA3          | 0.0280                  | 1.17600               | Oversupply              |
| 12/22/2020 10:24    | 0:02               | SSA3          | 0.0275                  | 1.33900               | Oversupply              |
| 12/22/2020 10:26    | 0:02               | SSA3          | 0.0277                  | 1.26000               | Oversupply              |
| 12/22/2020 10:28    | 0:02               | SSA3          | 0.0273                  | 1.96800               | Oversupply              |
| 12/22/2020 10:34    | 0:02               | SSA3          | 0.0198                  | 2.31200               | Oversupply              |
| 12/22/2020 10:36    | 0:02               | SSA3          | 0.0198                  | 1.58600               | Oversupply              |
| 12/22/2020 10:38    | 0:02               | SSA3          | 0.0198                  | 1.97700               | Oversupply              |
| 12/22/2020 10:40    | 0:02               | SSA3          | 0.0198                  | 2.30000               | Oversupply              |
| 12/22/2020 10:42    | 0:02               | SSA3          | 0.0198                  | 1.52100               | Oversupply              |
| 12/22/2020 10:44    | 0:02               | SSA3          | 0.0366                  | 1.27200               | Oversupply              |
| 12/22/2020 10:46    | 0:02               | SSA3          | 0.0515                  | 0.85500               | Oversupply              |
| 12/22/2020 10:48    | 0:02               | SSA3          | 0.0511                  | 1.06200               | Oversupply              |
| 12/22/2020 10:50    | 0:02               | SSA3          | 0.0515                  | 1.17100               | Oversupply              |
| 12/22/2020 10:52    | 0:02               | SSA3          | 0.0520                  | 0.22900               | Oversupply              |
| 12/22/2020 10:54    | 0:02               | SSA3          | 0.0609                  | 0.95500               | Oversupply              |
| 12/22/2020 10:56    | 0:02               | SSA3          | 0.0515                  | 0.94500               | Oversupply              |
| 12/22/2020 10:58    | 0:02               | SSA3          | 0.0569                  | 1.40300               | Oversupply              |
| 12/22/2020 11:00    | 0:02               | SSA3          | 0.0743                  | 0.85000               | Oversupply              |
| 12/22/2020 11:02    | 0:02               | SSA3          | 0.0743                  | 0.92900               | Oversupply              |
| 12/22/2020 11:04    | 0:02               | SSA3          | 0.0737                  | 0.31000               | Oversupply              |
| 12/22/2020 11:06    | 0:02               | SSA3          | 0.0730                  | 0.02700               | Oversupply              |
| 12/22/2020 11:07    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/22/2020 11:07    | 0:02               | KWPPII        | 0.0068                  | 1.77536               | Oversupply              |
| 12/22/2020 11:08    | 0:02               | SSA3          | 0.0743                  | -0.00400              | Oversupply              |
| 12/22/2020 11:10    | 0:02               | SSA3          | 0.0737                  | -0.00300              | Oversupply              |
| 12/22/2020 11:12    | 0:02               | SSA3          | 0.0737                  | 0.18300               | Oversupply              |
| 12/22/2020 11:14    | 0:02               | SSA3          | 0.0468                  | 1.77500               | Oversupply              |



Maui Curtailment Report

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/22/2020 11:16    | 0:02               | SSA3          | 0.0458                  | 1.22300               | Oversupply              |
| 12/22/2020 11:18    | 0:02               | SSA3          | 0.0462                  | 1.50800               | Oversupply              |
| 12/22/2020 11:20    | 0:02               | SSA3          | 0.0466                  | 0.61300               | Oversupply              |
| 12/22/2020 11:22    | 0:02               | SSA3          | 0.0454                  | 0.82100               | Oversupply              |
| 12/22/2020 11:24    | 0:02               | SSA3          | 0.0462                  | 2.00700               | Oversupply              |
| 12/22/2020 11:26    | 0:02               | SSA3          | 0.0454                  | 1.41500               | Oversupply              |
| 12/22/2020 11:28    | 0:02               | SSA3          | 0.0419                  | 1.56700               | Oversupply              |
| 12/22/2020 11:30    | 0:02               | SSA3          | 0.0454                  | 1.80500               | Oversupply              |
| 12/22/2020 11:33    | 0:02               | SSA3          | 0.0454                  | 1.26100               | Oversupply              |
| 12/22/2020 11:35    | 0:02               | SSA3          | 0.0454                  | 1.49600               | Oversupply              |
| 12/22/2020 11:37    | 0:02               | SSA3          | 0.0454                  | 1.50800               | Oversupply              |
| 12/22/2020 11:39    | 0:02               | SSA3          | 0.0454                  | 1.52900               | Oversupply              |
| 12/22/2020 11:41    | 0:02               | SSA3          | 0.0458                  | 2.17200               | Oversupply              |
| 12/22/2020 11:43    | 0:02               | SSA3          | 0.0472                  | 2.10500               | Oversupply              |
| 12/22/2020 11:45    | 0:02               | SSA3          | 0.0423                  | 0.57700               | Oversupply              |
| 12/22/2020 11:47    | 0:02               | SSA3          | 0.0426                  | 1.10700               | Oversupply              |
| 12/22/2020 11:49    | 0:02               | SSA3          | 0.0426                  | 0.50300               | Oversupply              |
| 12/22/2020 11:50    | 0:01               | BSS250        | Data is not available   | Data is not available | Oversupply              |
| 12/22/2020 11:51    | 0:02               | SSA3          | 0.0430                  | 0.02000               | Oversupply              |
| 12/22/2020 11:53    | 0:02               | SSA3          | 0.0430                  | 0.63300               | Oversupply              |
| 12/22/2020 11:57    | 0:02               | SSA3          | 0.0433                  | 0.36200               | Oversupply              |
| 12/22/2020 11:59    | 0:02               | SSA3          | 0.0443                  | 0.30200               | Oversupply              |
| 12/22/2020 12:01    | 0:02               | SSA3          | 0.0357                  | 0.15900               | Oversupply              |
| 12/22/2020 12:03    | 0:02               | SSA3          | 0.0363                  | 0.71400               | Oversupply              |
| 12/22/2020 12:05    | 0:02               | SSA3          | 0.0360                  | 1.00000               | Oversupply              |
| 12/22/2020 12:07    | 0:02               | SSA3          | 0.0360                  | 0.04600               | Oversupply              |
| 12/22/2020 12:09    | 0:02               | SSA3          | 0.0360                  | 0.63500               | Oversupply              |
| 12/22/2020 12:11    | 0:02               | SSA3          | 0.0357                  | 0.38800               | Oversupply              |
| 12/22/2020 12:13    | 0:02               | SSA3          | 0.0329                  | 0.10800               | Oversupply              |
| 12/22/2020 12:15    | 0:02               | SSA3          | 0.0459                  | 0.72600               | Oversupply              |
| 12/22/2020 12:17    | 0:02               | SSA3          | 0.0459                  | 0.62500               | Oversupply              |
| 12/22/2020 12:19    | 0:02               | SSA3          | 0.0463                  | 0.70500               | Oversupply              |
| 12/22/2020 12:21    | 0:02               | SSA3          | 0.0467                  | 1.05200               | Oversupply              |
| 12/22/2020 12:23    | 0:02               | SSA3          | 0.0463                  | 1.03300               | Oversupply              |
| 12/22/2020 12:25    | 0:02               | SSA3          | 0.0463                  | 1.50200               | Oversupply              |
| 12/22/2020 12:27    | 0:02               | SSA3          | 0.0463                  | 1.17000               | Oversupply              |
| 12/22/2020 12:29    | 0:02               | SSA3          | 0.0412                  | 0.60000               | Oversupply              |
| 12/22/2020 12:31    | 0:02               | SSA3          | 0.0575                  | 1.21400               | Oversupply              |
| 12/22/2020 12:33    | 0:02               | SSA3          | 0.0575                  | 0.62900               | Oversupply              |
| 12/22/2020 12:35    | 0:02               | SSA3          | 0.0575                  | 1.40800               | Oversupply              |
| 12/22/2020 12:37    | 0:02               | SSA3          | 0.0575                  | 1.34800               | Oversupply              |
| 12/22/2020 12:39    | 0:02               | SSA3          | 0.0575                  | 0.34200               | Oversupply              |
| 12/22/2020 12:41    | 0:02               | SSA3          | 0.0575                  | 1.27600               | Oversupply              |
| 12/22/2020 12:43    | 0:02               | SSA3          | 0.0510                  | 1.03600               | Oversupply              |
| 12/22/2020 12:45    | 0:02               | SSA3          | 0.0373                  | 2.02900               | Oversupply              |
| 12/22/2020 12:47    | 0:02               | SSA3          | 0.0373                  | 2.29300               | Oversupply              |
| 12/22/2020 12:49    | 0:02               | SSA3          | 0.0373                  | 1.66600               | Oversupply              |
| 12/22/2020 12:51    | 0:02               | SSA3          | 0.0370                  | 1.02200               | Oversupply              |
| 12/22/2020 12:53    | 0:02               | SSA3          | 0.0373                  | 1.40700               | Oversupply              |
| 12/22/2020 12:55    | 0:02               | SSA3          | 0.0373                  | 2.06500               | Oversupply              |
| 12/22/2020 12:57    | 0:02               | SSA3          | 0.0373                  | 2.57900               | Oversupply              |
| 12/22/2020 12:59    | 0:02               | SSA3          | 0.0253                  | 1.18700               | Oversupply              |
| 12/22/2020 13:01    | 0:02               | SSA3          | 0.0182                  | 2.26200               | Oversupply              |
| 12/22/2020 13:03    | 0:02               | SSA3          | 0.0179                  | 1.65000               | Oversupply              |
| 12/22/2020 13:05    | 0:02               | SSA3          | 0.0178                  | 1.27700               | Oversupply              |
| 12/22/2020 13:14    | 0:04               | 17-2          | 0.0359                  | 0.75000               | Oversupply              |
| 12/22/2020 13:14    | 0:02               | SSA3          | 0.0234                  | 2.66600               | Oversupply              |
| 12/23/2020 7:01     | 10:51              | SSA2          | 17.2498                 | 2.87000               | System Constraint       |
| 12/23/2020 7:09     | 0:01               | KWP11         | 0.0004                  | 0.02295               | Oversupply              |
| 12/23/2020 11:23    | 0:01               | KWP11         | 0.0005                  | 0.03293               | Oversupply              |
| 12/23/2020 22:44    | 0:01               | AWE           | 0.0017                  | 0.10000               | Oversupply              |
| 12/23/2020 22:48    | 0:01               | AWE           | 0.0017                  | 0.10000               | Oversupply              |
| 12/23/2020 22:50    | 0:01               | AWE           | 0.0017                  | 0.10000               | Oversupply              |
| 12/23/2020 23:01    | 0:01               | AWE           | 0.0017                  | 0.10000               | Oversupply              |
| 12/24/2020 7:02     | 10:51              | SSA2          | 18.0473                 | 2.87000               | System Constraint       |
| 12/24/2020 9:28     | 0:01               | 17-2          | 0.0039                  | 0.64400               | Oversupply              |
| 12/24/2020 9:30     | 0:10               | 17-2          | 0.0778                  | 0.72100               | Oversupply              |
| 12/24/2020 9:30     | 0:02               | SSA3          | 0.0100                  | 1.75000               | Oversupply              |
| 12/24/2020 9:32     | 0:02               | SSA3          | 0.0100                  | 1.03200               | Oversupply              |
| 12/24/2020 9:34     | 0:02               | SSA3          | 0.0100                  | 1.68600               | Oversupply              |
| 12/24/2020 9:43     | 0:02               | SSA3          | 0.0103                  | 1.86100               | Oversupply              |
| 12/24/2020 9:44     | 3:55               | 17-2          | 2.4868                  | 0.75000               | Oversupply              |
| 12/24/2020 9:45     | 0:02               | SSA3          | 0.0263                  | 0.10500               | Oversupply              |
| 12/24/2020 9:47     | 0:02               | SSA3          | 0.0267                  | 1.04500               | Oversupply              |
| 12/24/2020 9:49     | 0:02               | SSA3          | 0.0261                  | 1.32700               | Oversupply              |
| 12/24/2020 9:51     | 0:02               | SSA3          | 0.0263                  | 1.57400               | Oversupply              |
| 12/24/2020 9:55     | 0:02               | SSA3          | 0.0259                  | 1.49900               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/24/2020 9:57     | 0:02               | SSA3          | 0.0259                  | 0.11200               | Oversupply              |
| 12/24/2020 9:59     | 0:02               | SSA3          | 0.0277                  | 0.93100               | Oversupply              |
| 12/24/2020 10:01    | 0:02               | SSA3          | 0.0326                  | 1.08600               | Oversupply              |
| 12/24/2020 10:03    | 0:02               | SSA3          | 0.0321                  | 1.67200               | Oversupply              |
| 12/24/2020 10:05    | 0:02               | SSA3          | 0.0331                  | 2.05400               | Oversupply              |
| 12/24/2020 10:07    | 0:02               | SSA3          | 0.0321                  | 1.61000               | Oversupply              |
| 12/24/2020 10:09    | 0:02               | SSA3          | 0.0318                  | 1.69100               | Oversupply              |
| 12/24/2020 10:11    | 0:02               | SSA3          | 0.0337                  | 0.97600               | Oversupply              |
| 12/24/2020 10:13    | 0:02               | SSA3          | 0.0315                  | 0.84100               | Oversupply              |
| 12/24/2020 10:15    | 0:02               | SSA3          | 0.0316                  | 0.80800               | Oversupply              |
| 12/24/2020 10:17    | 0:02               | SSA3          | 0.0329                  | 0.50300               | Oversupply              |
| 12/24/2020 10:19    | 0:02               | SSA3          | 0.0319                  | 0.61900               | Oversupply              |
| 12/24/2020 10:21    | 0:02               | SSA3          | 0.0329                  | 1.05300               | Oversupply              |
| 12/24/2020 10:24    | 0:02               | SSA3          | 0.0319                  | 1.01200               | Oversupply              |
| 12/24/2020 10:26    | 0:02               | SSA3          | 0.0327                  | 1.70100               | Oversupply              |
| 12/24/2020 10:30    | 0:02               | SSA3          | 0.0422                  | 2.21000               | Oversupply              |
| 12/24/2020 10:32    | 0:02               | SSA3          | 0.0446                  | 2.22900               | Oversupply              |
| 12/24/2020 10:34    | 0:02               | SSA3          | 0.0429                  | 1.96100               | Oversupply              |
| 12/24/2020 10:36    | 0:02               | SSA3          | 0.0432                  | 1.31600               | Oversupply              |
| 12/24/2020 10:38    | 0:02               | SSA3          | 0.0443                  | 1.24200               | Oversupply              |
| 12/24/2020 10:40    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/24/2020 10:40    | 0:02               | SSA3          | 0.0425                  | 0.00400               | Oversupply              |
| 12/24/2020 10:42    | 0:02               | SSA3          | 0.0429                  | 0.32300               | Oversupply              |
| 12/24/2020 10:44    | 0:02               | SSA3          | 0.0617                  | 0.83000               | Oversupply              |
| 12/24/2020 10:46    | 0:02               | SSA3          | 0.0707                  | 0.92200               | Oversupply              |
| 12/24/2020 10:48    | 0:04               | SSA3          | 0.1385                  | 0.80500               | Oversupply              |
| 12/24/2020 10:52    | 0:02               | SSA3          | 0.0695                  | 0.22200               | Oversupply              |
| 12/24/2020 10:54    | 2:21               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/24/2020 10:54    | 2:21               | SSA3          | 6.2339                  | 0.03500               | Oversupply              |
| 12/24/2020 10:55    | 2:20               | KWPPII        | 18.4709                 | 14.15799              | Oversupply              |
| 12/24/2020 11:24    | 0:23               | AWE           | 0.5001                  | 18.30000              | Oversupply              |
| 12/24/2020 11:48    | 0:49               | AWE           | 2.7272                  | 19.00000              | Oversupply              |
| 12/24/2020 12:38    | 0:05               | AWE           | 0.2172                  | 17.90000              | Oversupply              |
| 12/24/2020 12:47    | 0:05               | AWE           | 0.1042                  | 17.80000              | Oversupply              |
| 12/24/2020 12:58    | 0:03               | AWE           | 0.0829                  | 17.20000              | Oversupply              |
| 12/24/2020 13:03    | 0:04               | AWE           | 0.1116                  | 19.20000              | Oversupply              |
| 12/24/2020 13:08    | 0:01               | AWE           | 0.0163                  | 17.80000              | Oversupply              |
| 12/24/2020 13:15    | 0:02               | SSA3          | 0.0838                  | 0.13900               | Oversupply              |
| 12/24/2020 13:17    | 0:09               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/24/2020 13:17    | 0:10               | KWPPII        | 0.4428                  | 8.71315               | Oversupply              |
| 12/24/2020 13:17    | 0:10               | SSA3          | 0.4204                  | 0.01200               | Oversupply              |
| 12/24/2020 13:27    | 0:02               | SSA3          | 0.0838                  | 0.07900               | Oversupply              |
| 12/24/2020 13:29    | 0:02               | SSA3          | 0.0190                  | 0.41900               | Oversupply              |
| 12/24/2020 13:31    | 0:02               | SSA3          | 0.0158                  | 0.61300               | Oversupply              |
| 12/24/2020 13:34    | 0:02               | SSA3          | 0.0156                  | 1.51200               | Oversupply              |
| 12/24/2020 13:36    | 0:02               | SSA3          | 0.0158                  | 2.58600               | Oversupply              |
| 12/24/2020 15:47    | 1:07               | 17-2          | 0.4351                  | 0.53300               | Oversupply              |
| 12/24/2020 15:49    | 0:57               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/24/2020 15:49    | 0:57               | KWPPII        | 6.6800                  | 17.30554              | Oversupply              |
| 12/24/2020 15:49    | 0:57               | SSA3          | 1.0204                  | 0.02400               | Oversupply              |
| 12/24/2020 16:46    | 0:02               | SSA3          | 0.0119                  | 0.00800               | Oversupply              |
| 12/24/2020 16:48    | 0:02               | SSA3          | 0.0119                  | 0.14500               | Oversupply              |
| 12/24/2020 16:50    | 0:02               | SSA3          | 0.0118                  | 0.35700               | Oversupply              |
| 12/24/2020 16:52    | 0:02               | SSA3          | 0.0120                  | 0.51200               | Oversupply              |
| 12/24/2020 16:55    | 0:05               | 17-2          | 0.0133                  | 0.23600               | Oversupply              |
| 12/24/2020 16:56    | 0:02               | SSA3          | 0.0119                  | 0.46600               | Oversupply              |
| 12/25/2020 0:27     | 0:01               | KWPPII        | 0.0048                  | 17.48617              | Oversupply              |
| 12/25/2020 0:37     | 0:02               | KWPPII        | 0.0211                  | 17.54206              | Oversupply              |
| 12/25/2020 0:44     | 2:17               | KWPPII        | 9.4935                  | 17.59295              | Oversupply              |
| 12/25/2020 2:44     | 0:02               | AWE           | 0.0335                  | 9.80000               | Oversupply              |
| 12/25/2020 2:47     | 0:09               | AWE           | 0.0984                  | 11.00000              | Oversupply              |
| 12/25/2020 3:03     | 0:19               | KWPPII        | 2.5595                  | 11.02242              | Oversupply              |
| 12/25/2020 3:10     | 0:04               | AWE           | 0.0640                  | 9.90000               | Oversupply              |
| 12/25/2020 3:16     | 0:01               | AWE           | 0.0034                  | 9.50000               | Oversupply              |
| 12/25/2020 3:24     | 0:05               | KWPPII        | 0.1655                  | 6.10250               | Oversupply              |
| 12/25/2020 3:30     | 0:01               | KWPPII        | 0.0134                  | 4.58361               | Oversupply              |
| 12/25/2020 3:32     | 0:01               | KWPPII        | 0.0013                  | 4.24630               | Oversupply              |
| 12/25/2020 3:34     | 0:04               | KWPPII        | 0.0526                  | 4.59059               | Oversupply              |
| 12/25/2020 3:40     | 0:02               | KWPPII        | 0.0189                  | 2.96892               | Oversupply              |
| 12/25/2020 3:44     | 0:01               | KWPPII        | 0.0035                  | 2.56375               | Oversupply              |
| 12/25/2020 7:03     | 10:52              | SSA2          | 18.4986                 | 2.87000               | System Constraint       |
| 12/25/2020 8:18     | 0:02               | 17-2          | 0.0013                  | 0.05000               | Oversupply              |
| 12/25/2020 8:18     | 0:02               | SSA3          | 0.0070                  | 0.22300               | Oversupply              |
| 12/25/2020 10:07    | 0:01               | 17-2          | 0.0106                  | 0.72800               | Oversupply              |
| 12/25/2020 10:09    | 0:04               | 17-2          | 0.0488                  | 0.75000               | Oversupply              |
| 12/25/2020 10:09    | 0:02               | SSA3          | 0.0060                  | 2.07400               | Oversupply              |
| 12/25/2020 10:11    | 0:02               | SSA3          | 0.0060                  | 1.62000               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/25/2020 10:14    | 0:01               | 17-2          | 0.0072                  | 0.75000               | Oversupply              |
| 12/25/2020 10:15    | 0:02               | SSA3          | 0.0459                  | 2.13200               | Oversupply              |
| 12/25/2020 10:16    | 4:09               | 17-2          | 2.9425                  | 0.75000               | Oversupply              |
| 12/25/2020 10:17    | 0:02               | SSA3          | 0.0459                  | 1.07200               | Oversupply              |
| 12/25/2020 10:19    | 0:02               | SSA3          | 0.0455                  | 1.68200               | Oversupply              |
| 12/25/2020 10:21    | 0:04               | SSA3          | 0.0913                  | 1.24800               | Oversupply              |
| 12/25/2020 10:25    | 0:02               | SSA3          | 0.0451                  | 0.21800               | Oversupply              |
| 12/25/2020 10:27    | 0:02               | SSA3          | 0.0459                  | 0.83800               | Oversupply              |
| 12/25/2020 10:29    | 0:02               | SSA3          | 0.0666                  | 0.36900               | Oversupply              |
| 12/25/2020 10:31    | 0:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/25/2020 10:31    | 3:34               | SSA3          | 9.1640                  | 0.03400               | Oversupply              |
| 12/25/2020 10:32    | 0:01               | KWPPII        | 0.0026                  | 2.20249               | Oversupply              |
| 12/25/2020 10:34    | 0:01               | KWPPII        | 0.0012                  | 1.57378               | Oversupply              |
| 12/25/2020 10:38    | 0:01               | KWPPII        | 0.0009                  | 1.66659               | Oversupply              |
| 12/25/2020 10:39    | 3:27               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/25/2020 10:40    | 3:25               | KWPPII        | 18.9925                 | 11.95051              | Oversupply              |
| 12/25/2020 10:42    | 0:03               | AWE           | 0.0262                  | 20.20000              | Oversupply              |
| 12/25/2020 10:47    | 0:01               | AWE           | 0.0084                  | 19.00000              | Oversupply              |
| 12/25/2020 10:52    | 0:01               | AWE           | 0.0033                  | 18.40000              | Oversupply              |
| 12/25/2020 10:55    | 2:42               | AWE           | 15.7671                 | 20.90000              | Oversupply              |
| 12/25/2020 13:38    | 0:18               | AWE           | 0.5949                  | 19.70000              | Oversupply              |
| 12/25/2020 13:57    | 0:01               | AWE           | 0.0094                  | 18.00000              | Oversupply              |
| 12/25/2020 14:05    | 0:02               | SSA3          | 0.0764                  | 0.03700               | Oversupply              |
| 12/25/2020 14:07    | 0:06               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/25/2020 14:07    | 0:06               | KWPPII        | 0.3202                  | 8.02356               | Oversupply              |
| 12/25/2020 14:07    | 0:08               | SSA3          | 0.2898                  | 0.02100               | Oversupply              |
| 12/25/2020 14:15    | 0:02               | SSA3          | 0.0300                  | 0.67800               | Oversupply              |
| 12/25/2020 14:17    | 0:02               | SSA3          | 0.0295                  | 0.75500               | Oversupply              |
| 12/25/2020 14:19    | 0:02               | SSA3          | 0.0295                  | 0.58400               | Oversupply              |
| 12/25/2020 14:21    | 0:02               | SSA3          | 0.0295                  | 0.52100               | Oversupply              |
| 12/25/2020 14:29    | 0:02               | SSA3          | 0.0345                  | 2.25000               | Oversupply              |
| 12/25/2020 14:30    | 0:28               | 17-2          | 0.2596                  | 0.75000               | Oversupply              |
| 12/25/2020 14:33    | 0:02               | SSA3          | 0.0264                  | 1.66600               | Oversupply              |
| 12/25/2020 14:35    | 0:02               | SSA3          | 0.0266                  | 2.21800               | Oversupply              |
| 12/25/2020 14:37    | 0:02               | SSA3          | 0.0266                  | 2.25200               | Oversupply              |
| 12/25/2020 14:39    | 0:02               | SSA3          | 0.0266                  | 1.26700               | Oversupply              |
| 12/25/2020 14:41    | 0:02               | SSA3          | 0.0266                  | 0.94200               | Oversupply              |
| 12/25/2020 14:43    | 0:02               | SSA3          | 0.0286                  | 1.11700               | Oversupply              |
| 12/25/2020 14:45    | 0:02               | SSA3          | 0.0312                  | 1.29700               | Oversupply              |
| 12/25/2020 14:47    | 0:02               | SSA3          | 0.0314                  | 0.31900               | Oversupply              |
| 12/25/2020 14:50    | 0:02               | SSA3          | 0.0314                  | 1.09900               | Oversupply              |
| 12/25/2020 14:52    | 0:02               | SSA3          | 0.0314                  | 0.37400               | Oversupply              |
| 12/25/2020 14:54    | 0:02               | SSA3          | 0.0314                  | 0.79800               | Oversupply              |
| 12/25/2020 14:59    | 0:05               | 17-2          | 0.0408                  | 0.75000               | Oversupply              |
| 12/25/2020 15:00    | 0:02               | SSA3          | 0.0244                  | 0.31000               | Oversupply              |
| 12/25/2020 15:02    | 0:02               | SSA3          | 0.0242                  | 0.91700               | Oversupply              |
| 12/25/2020 15:10    | 0:18               | 17-2          | 0.1204                  | 0.75000               | Oversupply              |
| 12/25/2020 15:12    | 0:02               | KWPPII        | 0.0273                  | 15.19686              | Oversupply              |
| 12/25/2020 15:12    | 0:02               | SSA3          | 0.0244                  | 0.02400               | Oversupply              |
| 12/25/2020 15:13    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/25/2020 15:14    | 0:02               | SSA3          | 0.0212                  | 0.01700               | Oversupply              |
| 12/25/2020 15:15    | 0:01               | KWPPII        | 0.0094                  | 15.94832              | Oversupply              |
| 12/25/2020 15:16    | 0:02               | SSA3          | 0.0208                  | 0.00700               | Oversupply              |
| 12/25/2020 15:18    | 0:02               | SSA3          | 0.0208                  | 0.66800               | Oversupply              |
| 12/25/2020 15:22    | 0:02               | SSA3          | 0.0215                  | 1.82300               | Oversupply              |
| 12/25/2020 15:24    | 0:02               | SSA3          | 0.0209                  | 0.53000               | Oversupply              |
| 12/25/2020 15:26    | 0:02               | SSA3          | 0.0211                  | 1.01200               | Oversupply              |
| 12/25/2020 15:28    | 0:02               | SSA3          | 0.0193                  | 1.71200               | Oversupply              |
| 12/25/2020 15:29    | 0:01               | 17-2          | 0.0000                  | 0.46000               | Oversupply              |
| 12/25/2020 15:37    | 0:15               | 17-2          | 0.1155                  | 0.69300               | Oversupply              |
| 12/25/2020 15:38    | 0:02               | SSA3          | 0.0093                  | 0.80500               | Oversupply              |
| 12/25/2020 15:44    | 0:02               | SSA3          | 0.0256                  | 0.97600               | Oversupply              |
| 12/25/2020 15:46    | 0:02               | SSA3          | 0.0093                  | 0.57300               | Oversupply              |
| 12/25/2020 15:48    | 0:02               | SSA3          | 0.0091                  | 0.77500               | Oversupply              |
| 12/25/2020 15:50    | 0:02               | SSA3          | 0.0093                  | 0.34500               | Oversupply              |
| 12/25/2020 15:59    | 0:13               | 17-2          | 0.0738                  | 0.56100               | Oversupply              |
| 12/25/2020 16:00    | 0:02               | SSA3          | 0.0113                  | 0.45500               | Oversupply              |
| 12/25/2020 16:02    | 0:02               | SSA3          | 0.0113                  | 0.25500               | Oversupply              |
| 12/25/2020 16:04    | 0:02               | SSA3          | 0.0112                  | 0.61000               | Oversupply              |
| 12/25/2020 16:06    | 0:02               | SSA3          | 0.0113                  | 0.19400               | Oversupply              |
| 12/25/2020 16:08    | 0:02               | SSA3          | 0.0113                  | 1.06000               | Oversupply              |
| 12/25/2020 16:13    | 0:04               | 17-2          | 0.0133                  | 0.52300               | Oversupply              |
| 12/25/2020 16:18    | 0:04               | 17-2          | 0.0182                  | 0.48300               | Oversupply              |
| 12/26/2020 0:40     | 1:22               | KWPPII        | 9.7619                  | 17.71371              | Oversupply              |
| 12/26/2020 1:38     | 0:19               | AWE           | 0.6938                  | 17.90000              | Oversupply              |
| 12/26/2020 2:03     | 0:04               | KWPPII        | 0.0699                  | 5.90989               | Oversupply              |
| 12/26/2020 2:27     | 1:29               | KWPPII        | 20.3067                 | 17.59794              | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/26/2020 2:58     | 0:04               | AWE           | 0.0921                  | 10.50000              | Oversupply              |
| 12/26/2020 3:10     | 0:37               | AWE           | 1.9403                  | 16.20000              | Oversupply              |
| 12/26/2020 3:51     | 0:01               | AWE           | 0.0075                  | 13.50000              | Oversupply              |
| 12/26/2020 3:58     | 0:47               | KWPPII        | 3.1485                  | 13.53826              | Oversupply              |
| 12/26/2020 4:47     | 0:01               | KWPPII        | 0.0012                  | 9.85980               | Oversupply              |
| 12/26/2020 7:03     | 10:52              | SSA2          | 5.9733                  | 2.87000               | System Constraint       |
| 12/26/2020 10:48    | 0:40               | 17-2          | 0.3687                  | 0.75000               | Oversupply              |
| 12/26/2020 10:48    | 0:02               | SSA3          | 0.0188                  | 1.01800               | Oversupply              |
| 12/26/2020 10:52    | 0:02               | SSA3          | 0.0188                  | 0.78400               | Oversupply              |
| 12/26/2020 10:54    | 0:02               | SSA3          | 0.0188                  | 2.00400               | Oversupply              |
| 12/26/2020 10:56    | 0:02               | SSA3          | 0.0188                  | 1.57600               | Oversupply              |
| 12/26/2020 10:58    | 0:02               | SSA3          | 0.0244                  | 1.56100               | Oversupply              |
| 12/26/2020 11:00    | 0:02               | SSA3          | 0.0486                  | 1.81700               | Oversupply              |
| 12/26/2020 11:02    | 0:02               | SSA3          | 0.0486                  | 1.57100               | Oversupply              |
| 12/26/2020 11:04    | 0:02               | SSA3          | 0.0486                  | 2.17400               | Oversupply              |
| 12/26/2020 11:06    | 0:02               | SSA3          | 0.0482                  | 1.33800               | Oversupply              |
| 12/26/2020 11:08    | 0:02               | SSA3          | 0.0486                  | 0.98900               | Oversupply              |
| 12/26/2020 11:10    | 0:02               | SSA3          | 0.0486                  | 0.46800               | Oversupply              |
| 12/26/2020 11:12    | 0:02               | SSA3          | 0.0486                  | 0.88100               | Oversupply              |
| 12/26/2020 11:13    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 11:14    | 0:03               | KWPPII        | 0.0562                  | 6.69728               | Oversupply              |
| 12/26/2020 11:14    | 0:02               | SSA3          | 0.0536                  | 0.01600               | Oversupply              |
| 12/26/2020 11:16    | 0:02               | SSA3          | 0.0473                  | 0.04400               | Oversupply              |
| 12/26/2020 11:18    | 0:02               | SSA3          | 0.0476                  | 0.12100               | Oversupply              |
| 12/26/2020 11:20    | 0:02               | SSA3          | 0.0473                  | 0.60700               | Oversupply              |
| 12/26/2020 11:22    | 0:02               | SSA3          | 0.0473                  | 1.39700               | Oversupply              |
| 12/26/2020 11:24    | 0:02               | SSA3          | 0.0469                  | 1.32500               | Oversupply              |
| 12/26/2020 11:26    | 0:02               | SSA3          | 0.0473                  | 1.13500               | Oversupply              |
| 12/26/2020 11:29    | 0:01               | 17-2          | 0.0125                  | 0.75000               | Oversupply              |
| 12/26/2020 12:44    | 0:58               | 17-2          | 0.1739                  | 0.39800               | Oversupply              |
| 12/26/2020 12:45    | 0:02               | SSA3          | 0.0218                  | 0.23400               | Oversupply              |
| 12/26/2020 12:47    | 0:49               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 12:47    | 0:02               | SSA3          | 0.0213                  | 0.04300               | Oversupply              |
| 12/26/2020 12:49    | 0:46               | SSA3          | 0.8153                  | 0.01100               | Oversupply              |
| 12/26/2020 12:50    | 0:46               | KWPPII        | 6.5054                  | 17.71371              | Oversupply              |
| 12/26/2020 13:36    | 0:02               | SSA3          | 0.0101                  | -0.00200              | Oversupply              |
| 12/26/2020 13:38    | 0:02               | SSA3          | 0.0101                  | 0.40700               | Oversupply              |
| 12/26/2020 13:45    | 0:05               | 17-2          | 0.0164                  | 0.26000               | Oversupply              |
| 12/26/2020 13:48    | 0:02               | SSA3          | -0.0007                 | 0.65800               | Oversupply              |
| 12/26/2020 13:51    | 0:01               | 17-2          | 0.0033                  | 0.20100               | Oversupply              |
| 12/26/2020 14:01    | 0:01               | 17-2          | 0.0082                  | 0.49300               | Oversupply              |
| 12/26/2020 14:06    | 0:02               | SSA3          | 0.0117                  | 0.39000               | Oversupply              |
| 12/26/2020 14:07    | 0:49               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 14:07    | 1:06               | 17-2          | 0.2078                  | 0.40400               | Oversupply              |
| 12/26/2020 14:08    | 0:48               | KWPPII        | 2.6150                  | 11.72598              | Oversupply              |
| 12/26/2020 14:08    | 0:48               | SSA3          | 0.7514                  | 0.00600               | Oversupply              |
| 12/26/2020 14:56    | 0:02               | SSA3          | 0.0224                  | 0.05000               | Oversupply              |
| 12/26/2020 14:58    | 0:02               | SSA3          | 0.0219                  | 0.02700               | Oversupply              |
| 12/26/2020 15:00    | 0:12               | SSA3          | 0.3274                  | 0.18100               | Oversupply              |
| 12/26/2020 15:01    | 0:11               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 15:02    | 0:10               | KWPPII        | 0.1981                  | 10.22904              | Oversupply              |
| 12/26/2020 15:16    | 0:02               | 17-2          | 0.0036                  | 0.13100               | Oversupply              |
| 12/26/2020 15:18    | 0:02               | SSA3          | 0.0118                  | 0.85200               | Oversupply              |
| 12/26/2020 15:19    | 0:02               | 17-2          | 0.0058                  | 0.19200               | Oversupply              |
| 12/26/2020 15:34    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 15:34    | 0:02               | SSA3          | 0.0242                  | 0.66500               | Oversupply              |
| 12/26/2020 15:35    | 0:20               | 17-2          | 0.0497                  | 0.44800               | Oversupply              |
| 12/26/2020 15:36    | 0:09               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 15:36    | 0:10               | SSA3          | 0.1139                  | 0.00000               | Oversupply              |
| 12/26/2020 15:37    | 0:02               | KWPPII        | 0.0173                  | 8.73211               | Oversupply              |
| 12/26/2020 15:42    | 0:01               | KWPPII        | 0.0151                  | 7.23518               | Oversupply              |
| 12/26/2020 15:46    | 0:01               | KWPPII        | 0.0009                  | 4.24131               | Oversupply              |
| 12/26/2020 15:47    | 0:02               | SSA3          | 0.0172                  | 0.58800               | Oversupply              |
| 12/26/2020 15:49    | 0:02               | SSA3          | 0.0172                  | 1.21400               | Oversupply              |
| 12/26/2020 15:51    | 0:02               | SSA3          | 0.0172                  | 0.51100               | Oversupply              |
| 12/26/2020 15:53    | 0:02               | SSA3          | 0.0172                  | 0.27800               | Oversupply              |
| 12/26/2020 16:03    | 0:04               | 17-2          | 0.0087                  | 0.27300               | Oversupply              |
| 12/26/2020 16:03    | 0:02               | SSA3          | 0.0029                  | 0.46800               | Oversupply              |
| 12/26/2020 16:05    | 0:02               | SSA3          | 0.0029                  | 1.26700               | Oversupply              |
| 12/26/2020 16:08    | 1:49               | 17-2          | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 16:11    | 0:02               | SSA3          | 0.0029                  | 1.38200               | Oversupply              |
| 12/26/2020 16:13    | 0:02               | SSA3          | 0.0059                  | 0.95400               | Oversupply              |
| 12/26/2020 16:15    | 0:02               | SSA3          | 0.0317                  | 0.11000               | Oversupply              |
| 12/26/2020 16:16    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 16:16    | 0:01               | KWPPII        | 0.0010                  | 2.74438               | Oversupply              |
| 12/26/2020 16:17    | 1:37               | SSA3          | 0.7252                  | 0.00600               | Oversupply              |
| 12/26/2020 16:18    | 0:01               | KWPPII        | 0.0022                  | 2.74438               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/26/2020 16:21    | 1:23               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 16:21    | 1:25               | KWPPII        | 8.3235                  | 7.23518               | Oversupply              |
| 12/26/2020 16:23    | 1:18               | AWE           | 9.4763                  | 21.00000              | Oversupply              |
| 12/26/2020 17:45    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/26/2020 17:47    | 0:02               | KWPPII        | 0.0197                  | 7.23518               | Oversupply              |
| 12/26/2020 18:25    | 4:36               | KWPPII        | 65.3170                 | 17.71371              | Oversupply              |
| 12/26/2020 18:38    | 4:19               | AWE           | 51.2269                 | 21.00000              | Oversupply              |
| 12/26/2020 23:03    | 2:21               | KWPPII        | 37.1596                 | 17.71371              | Oversupply              |
| 12/26/2020 23:21    | 0:01               | AWE           | 0.0006                  | 21.00000              | Oversupply              |
| 12/26/2020 23:23    | 1:57               | AWE           | 17.2656                 | 21.00000              | Oversupply              |
| 12/27/2020 1:25     | 3:41               | KWPPII        | 54.1946                 | 17.70073              | Oversupply              |
| 12/27/2020 1:26     | 3:36               | AWE           | 43.7775                 | 21.00000              | Oversupply              |
| 12/27/2020 2:11     | 0:01               | KWP           | 0.0026                  | 29.14286              | Oversupply              |
| 12/27/2020 2:13     | 0:01               | KWP           | 0.0009                  | 28.98462              | Oversupply              |
| 12/27/2020 5:07     | 0:01               | KWPPII        | 0.0029                  | 2.14061               | Oversupply              |
| 12/27/2020 7:03     | 10:52              | SSA2          | 18.4783                 | 2.87000               | System Constraint       |
| 12/27/2020 10:26    | 4:14               | 17-2          | 3.1215                  | 0.74400               | Oversupply              |
| 12/27/2020 10:30    | 0:02               | SSA3          | 0.0259                  | 2.31900               | Oversupply              |
| 12/27/2020 10:32    | 0:02               | SSA3          | 0.0259                  | 2.32800               | Oversupply              |
| 12/27/2020 10:34    | 0:02               | SSA3          | 0.0257                  | 2.07800               | Oversupply              |
| 12/27/2020 10:36    | 0:02               | SSA3          | 0.0259                  | 1.88800               | Oversupply              |
| 12/27/2020 10:38    | 0:02               | SSA3          | 0.0259                  | 1.73200               | Oversupply              |
| 12/27/2020 10:40    | 0:02               | SSA3          | 0.0259                  | 1.29800               | Oversupply              |
| 12/27/2020 10:42    | 0:02               | SSA3          | 0.0259                  | 1.22800               | Oversupply              |
| 12/27/2020 10:44    | 0:02               | SSA3          | 0.0461                  | 1.17700               | Oversupply              |
| 12/27/2020 10:46    | 0:02               | SSA3          | 0.0642                  | 0.54100               | Oversupply              |
| 12/27/2020 10:48    | 0:02               | SSA3          | 0.0642                  | 1.19800               | Oversupply              |
| 12/27/2020 10:50    | 0:02               | SSA3          | 0.0647                  | 0.74300               | Oversupply              |
| 12/27/2020 10:52    | 0:02               | SSA3          | 0.0642                  | 0.61600               | Oversupply              |
| 12/27/2020 10:54    | 0:02               | SSA3          | 0.0636                  | 0.13200               | Oversupply              |
| 12/27/2020 10:56    | 0:02               | SSA3          | 0.0642                  | 0.36500               | Oversupply              |
| 12/27/2020 10:58    | 0:04               | SSA3          | 0.1400                  | 0.34500               | Oversupply              |
| 12/27/2020 11:02    | 0:02               | SSA3          | 0.0747                  | 0.72700               | Oversupply              |
| 12/27/2020 11:04    | 0:02               | SSA3          | 0.0747                  | 0.50100               | Oversupply              |
| 12/27/2020 11:06    | 0:02               | SSA3          | 0.0747                  | 0.29700               | Oversupply              |
| 12/27/2020 11:08    | 0:02               | SSA3          | 0.0747                  | 0.45900               | Oversupply              |
| 12/27/2020 11:10    | 0:02               | SSA3          | 0.0747                  | 0.20300               | Oversupply              |
| 12/27/2020 11:12    | 2:15               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/27/2020 11:12    | 1:46               | AWE           | 6.0935                  | 21.00000              | Oversupply              |
| 12/27/2020 11:12    | 2:15               | SSA3          | 5.8689                  | 0.00100               | Oversupply              |
| 12/27/2020 11:30    | 0:36               | KWPPII        | 2.7676                  | 10.20908              | Oversupply              |
| 12/27/2020 12:07    | 1:21               | KWPPII        | 3.1146                  | 6.47972               | Oversupply              |
| 12/27/2020 12:59    | 0:21               | AWE           | 0.5210                  | 21.00000              | Oversupply              |
| 12/27/2020 13:22    | 0:01               | AWE           | 0.0006                  | 21.00000              | Oversupply              |
| 12/27/2020 13:27    | 0:02               | SSA3          | 0.0822                  | 0.10800               | Oversupply              |
| 12/27/2020 13:28    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/27/2020 13:29    | 0:02               | SSA3          | 0.0660                  | 0.75400               | Oversupply              |
| 12/27/2020 13:31    | 0:02               | SSA3          | 0.0629                  | 1.54000               | Oversupply              |
| 12/27/2020 13:33    | 0:02               | SSA3          | 0.0629                  | 1.47500               | Oversupply              |
| 12/27/2020 13:35    | 0:02               | SSA3          | 0.0629                  | 0.75600               | Oversupply              |
| 12/27/2020 13:37    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/27/2020 13:37    | 0:02               | SSA3          | 0.0629                  | 0.01400               | Oversupply              |
| 12/27/2020 13:38    | 0:01               | KWPPII        | 0.0031                  | 0.48301               | Oversupply              |
| 12/27/2020 13:39    | 0:02               | SSA3          | 0.0629                  | 0.19100               | Oversupply              |
| 12/27/2020 13:41    | 0:02               | SSA3          | 0.0629                  | 0.54800               | Oversupply              |
| 12/27/2020 13:43    | 0:02               | SSA3          | 0.0701                  | 0.85700               | Oversupply              |
| 12/27/2020 13:45    | 0:02               | SSA3          | 0.0744                  | 0.96900               | Oversupply              |
| 12/27/2020 13:47    | 0:04               | SSA3          | 0.1500                  | 0.13500               | Oversupply              |
| 12/27/2020 13:51    | 0:13               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/27/2020 13:52    | 0:02               | KWPPII        | 0.0095                  | 2.03184               | Oversupply              |
| 12/27/2020 13:52    | 0:12               | SSA3          | 0.4559                  | 0.00600               | Oversupply              |
| 12/27/2020 13:55    | 0:04               | KWPPII        | 0.0792                  | 2.65356               | Oversupply              |
| 12/27/2020 14:00    | 0:02               | KWPPII        | 0.0161                  | 1.92206               | Oversupply              |
| 12/27/2020 14:04    | 0:02               | SSA3          | 0.0778                  | 0.05000               | Oversupply              |
| 12/27/2020 14:06    | 0:14               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/27/2020 14:06    | 0:14               | SSA3          | 0.4748                  | 0.06700               | Oversupply              |
| 12/27/2020 14:07    | 0:01               | KWPPII        | 0.0043                  | 2.01687               | Oversupply              |
| 12/27/2020 14:10    | 0:10               | KWPPII        | 0.2850                  | 4.79418               | Oversupply              |
| 12/27/2020 14:20    | 0:02               | SSA3          | 0.0501                  | 0.06400               | Oversupply              |
| 12/27/2020 14:22    | 0:02               | SSA3          | 0.0501                  | 1.25700               | Oversupply              |
| 12/27/2020 14:24    | 0:02               | SSA3          | 0.0501                  | 1.38100               | Oversupply              |
| 12/27/2020 14:26    | 0:02               | SSA3          | 0.0501                  | 1.19500               | Oversupply              |
| 12/27/2020 14:28    | 0:02               | SSA3          | 0.0468                  | 1.63300               | Oversupply              |
| 12/27/2020 14:30    | 0:02               | SSA3          | 0.0266                  | 0.07400               | Oversupply              |
| 12/27/2020 14:32    | 0:02               | SSA3          | 0.0266                  | 0.13400               | Oversupply              |
| 12/27/2020 14:34    | 0:02               | SSA3          | 0.0266                  | 0.16000               | Oversupply              |
| 12/27/2020 14:36    | 0:02               | SSA3          | 0.0266                  | 0.80300               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/27/2020 14:38    | 0:02               | SSA3          | 0.0266                  | 1.17200               | Oversupply              |
| 12/28/2020 7:03     | 10:52              | SSA2          | 18.2170                 | 2.87000               | System Constraint       |
| 12/28/2020 7:48     | 0:04               | 17-2          | 0.0017                  | 0.03200               | Oversupply              |
| 12/28/2020 7:48     | 0:02               | SSA3          | 0.0034                  | 0.29800               | Oversupply              |
| 12/28/2020 10:49    | 0:15               | 17-2          | 0.1010                  | 0.75000               | Oversupply              |
| 12/28/2020 10:50    | 0:04               | SSA3          | 0.0302                  | 2.46800               | Oversupply              |
| 12/28/2020 10:54    | 0:02               | SSA3          | 0.0152                  | 2.05900               | Oversupply              |
| 12/28/2020 10:56    | 0:02               | SSA3          | 0.0152                  | 1.64200               | Oversupply              |
| 12/28/2020 11:07    | 0:07               | 17-2          | 0.0601                  | 0.75000               | Oversupply              |
| 12/28/2020 11:08    | 0:02               | SSA3          | 0.0044                  | 2.56300               | Oversupply              |
| 12/28/2020 11:10    | 0:02               | SSA3          | 0.0044                  | 0.74100               | Oversupply              |
| 12/28/2020 11:15    | 0:01               | 17-2          | 0.0003                  | 0.75000               | Oversupply              |
| 12/28/2020 11:20    | 0:03               | 17-2          | 0.0008                  | 0.75000               | Oversupply              |
| 12/28/2020 11:29    | 0:09               | 17-2          | 0.0050                  | 0.75000               | Oversupply              |
| 12/28/2020 11:38    | 0:02               | SSA3          | -0.0019                 | 2.68600               | Oversupply              |
| 12/28/2020 11:39    | 0:01               | 17-2          | 0.0017                  | 0.75000               | Oversupply              |
| 12/28/2020 11:41    | 0:03               | 17-2          | 0.0137                  | 0.75000               | Oversupply              |
| 12/28/2020 11:44    | 0:02               | SSA3          | -0.0033                 | 2.72200               | Oversupply              |
| 12/28/2020 11:45    | 0:06               | 17-2          | 0.0681                  | 0.75000               | Oversupply              |
| 12/28/2020 11:49    | 0:02               | SSA3          | -0.0017                 | 2.70600               | Oversupply              |
| 12/28/2020 11:53    | 0:08               | 17-2          | 0.0320                  | 0.75000               | Oversupply              |
| 12/28/2020 12:05    | 0:01               | 17-2          | 0.0019                  | 0.75000               | Oversupply              |
| 12/28/2020 12:09    | 0:20               | 17-2          | 0.0177                  | 0.75000               | Oversupply              |
| 12/28/2020 12:30    | 0:05               | 17-2          | 0.0059                  | 0.75000               | Oversupply              |
| 12/28/2020 12:38    | 0:04               | 17-2          | 0.0030                  | 0.75000               | Oversupply              |
| 12/28/2020 12:46    | 0:02               | 17-2          | 0.0008                  | 0.75000               | Oversupply              |
| 12/28/2020 12:51    | 0:02               | 17-2          | 0.0014                  | 0.75000               | Oversupply              |
| 12/28/2020 12:55    | 1:21               | 17-2          | 0.0636                  | 0.75000               | Oversupply              |
| 12/28/2020 14:17    | 0:01               | 17-2          | 0.0010                  | 0.74200               | Oversupply              |
| 12/28/2020 15:04    | 0:09               | 17-2          | 0.0034                  | 0.70000               | Oversupply              |
| 12/28/2020 15:20    | 0:03               | 17-2          | 0.0014                  | 0.70300               | Oversupply              |
| 12/29/2020 7:04     | 10:50              | SSA2          | 14.0908                 | 2.87000               | System Constraint       |
| 12/29/2020 10:05    | 0:01               | KWPPI         | 0.0008                  | 0.04690               | Oversupply              |
| 12/29/2020 11:18    | 0:56               | 17-2          | 0.2582                  | 0.64800               | Oversupply              |
| 12/29/2020 11:18    | 0:02               | SSA3          | 0.0439                  | 2.55000               | Oversupply              |
| 12/29/2020 11:20    | 0:02               | SSA3          | 0.0435                  | 2.16000               | Oversupply              |
| 12/29/2020 11:22    | 0:02               | SSA3          | 0.0435                  | 1.56800               | Oversupply              |
| 12/29/2020 11:24    | 0:02               | SSA3          | 0.0442                  | 1.31700               | Oversupply              |
| 12/29/2020 11:26    | 0:02               | SSA3          | 0.0439                  | 0.59200               | Oversupply              |
| 12/29/2020 11:27    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/29/2020 11:28    | 0:02               | SSA3          | 0.0467                  | 0.06500               | Oversupply              |
| 12/29/2020 11:30    | 0:02               | SSA3          | 0.0711                  | 0.16900               | Oversupply              |
| 12/29/2020 11:31    | 0:01               | KWPPI         | 0.0004                  | 5.16941               | Oversupply              |
| 12/29/2020 11:32    | 0:02               | SSA3          | 0.0705                  | 0.49500               | Oversupply              |
| 12/29/2020 11:34    | 0:02               | SSA3          | 0.0699                  | 0.75400               | Oversupply              |
| 12/29/2020 11:36    | 0:02               | SSA3          | 0.0705                  | 0.72700               | Oversupply              |
| 12/29/2020 11:37    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/29/2020 11:37    | 0:01               | KWPPI         | 0.0007                  | 4.71135               | Oversupply              |
| 12/29/2020 11:38    | 0:02               | SSA3          | 0.0699                  | 0.92100               | Oversupply              |
| 12/29/2020 11:40    | 0:02               | SSA3          | 0.0699                  | 0.59100               | Oversupply              |
| 12/29/2020 11:42    | 0:02               | SSA3          | 0.0699                  | 0.65900               | Oversupply              |
| 12/29/2020 11:44    | 0:02               | SSA3          | 0.0695                  | 0.36200               | Oversupply              |
| 12/29/2020 11:46    | 0:02               | SSA3          | 0.0706                  | 0.65100               | Oversupply              |
| 12/29/2020 11:48    | 0:02               | SSA3          | 0.0700                  | 0.84300               | Oversupply              |
| 12/29/2020 11:50    | 0:02               | SSA3          | 0.0700                  | 0.51400               | Oversupply              |
| 12/29/2020 11:51    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/29/2020 11:52    | 0:02               | SSA3          | 0.0700                  | 0.43000               | Oversupply              |
| 12/29/2020 11:54    | 0:02               | SSA3          | 0.0695                  | 0.50800               | Oversupply              |
| 12/29/2020 11:56    | 0:02               | SSA3          | 0.0706                  | 0.40500               | Oversupply              |
| 12/29/2020 11:58    | 0:02               | SSA3          | 0.0593                  | 0.98600               | Oversupply              |
| 12/29/2020 12:00    | 0:02               | SSA3          | 0.0352                  | 0.89900               | Oversupply              |
| 12/29/2020 12:02    | 0:02               | SSA3          | 0.0346                  | 1.12300               | Oversupply              |
| 12/29/2020 12:04    | 0:02               | SSA3          | 0.0352                  | 0.38400               | Oversupply              |
| 12/29/2020 12:06    | 0:02               | SSA3          | 0.0349                  | 1.29100               | Oversupply              |
| 12/29/2020 12:08    | 0:02               | SSA3          | 0.0352                  | 1.59400               | Oversupply              |
| 12/29/2020 12:10    | 0:02               | SSA3          | 0.0349                  | 1.55000               | Oversupply              |
| 12/29/2020 12:12    | 0:02               | SSA3          | 0.0349                  | 2.67100               | Oversupply              |
| 12/29/2020 12:15    | 0:01               | 17-2          | 0.0007                  | 0.26500               | Oversupply              |
| 12/29/2020 13:23    | 0:02               | SSA3          | 0.0167                  | 1.59600               | Oversupply              |
| 12/29/2020 13:25    | 0:14               | 17-2          | 0.0609                  | 0.64800               | Oversupply              |
| 12/29/2020 13:25    | 0:02               | SSA3          | 0.0166                  | 0.57100               | Oversupply              |
| 12/29/2020 13:27    | 0:02               | SSA3          | 0.0167                  | 0.86200               | Oversupply              |
| 12/29/2020 13:29    | 0:02               | SSA3          | 0.0176                  | 0.19900               | Oversupply              |
| 12/29/2020 13:30    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/29/2020 13:31    | 0:02               | SSA3          | 0.0274                  | 0.09300               | Oversupply              |
| 12/29/2020 13:33    | 0:02               | SSA3          | 0.0271                  | 0.13100               | Oversupply              |
| 12/29/2020 13:34    | 0:01               | KWPPI         | 0.0035                  | 9.47459               | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|---------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/29/2020 13:35    | 0:02               | SSA3          | 0.0278                  | 0.14100               | Oversupply              |
| 12/29/2020 13:37    | 0:02               | SSA3          | 0.0276                  | 1.02200               | Oversupply              |
| 12/29/2020 13:43    | 0:01               | 17-2          | 0.0005                  | 0.40600               | Oversupply              |
| 12/29/2020 13:45    | 0:01               | 17-2          | 0.0008                  | 0.50400               | Oversupply              |
| 12/29/2020 13:49    | 0:27               | 17-2          | 0.1613                  | 0.74800               | Oversupply              |
| 12/29/2020 13:51    | 0:02               | SSA3          | 0.0294                  | 1.85500               | Oversupply              |
| 12/29/2020 13:53    | 0:02               | SSA3          | 0.0294                  | 1.29200               | Oversupply              |
| 12/29/2020 13:55    | 0:02               | SSA3          | 0.0292                  | 2.55700               | Oversupply              |
| 12/29/2020 13:57    | 0:04               | SSA3          | 0.0615                  | 1.03400               | Oversupply              |
| 12/29/2020 14:01    | 0:02               | SSA3          | 0.0307                  | 0.78000               | Oversupply              |
| 12/29/2020 14:03    | 0:02               | SSA3          | 0.0307                  | 1.05700               | Oversupply              |
| 12/29/2020 14:05    | 0:02               | SSA3          | 0.0307                  | 0.63100               | Oversupply              |
| 12/29/2020 14:07    | 0:02               | SSA3          | 0.0307                  | 2.46600               | Oversupply              |
| 12/29/2020 14:09    | 0:02               | SSA3          | 0.0307                  | 1.28300               | Oversupply              |
| 12/29/2020 14:11    | 0:02               | SSA3          | 0.0305                  | 2.20300               | Oversupply              |
| 12/30/2020 7:04     | 10:53              | SSA2          | 17.6533                 | 2.87000               | System Constraint       |
| 12/30/2020 7:16     | 0:52               | SSA3          | 0.1945                  | 0.03000               | Oversupply              |
| 12/30/2020 7:20     | 0:47               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 7:21     | 0:46               | KWP11         | 5.7575                  | 17.65982              | Oversupply              |
| 12/30/2020 7:36     | 0:32               | 17-2          | 0.0272                  | 0.09100               | Oversupply              |
| 12/30/2020 9:49     | 0:01               | 17-2          | 0.0029                  | 0.67500               | Oversupply              |
| 12/30/2020 9:51     | 5:22               | 17-2          | 3.1110                  | 0.75000               | Oversupply              |
| 12/30/2020 9:53     | 0:02               | SSA3          | 0.0258                  | 1.27900               | Oversupply              |
| 12/30/2020 9:55     | 0:02               | SSA3          | 0.0260                  | 1.59000               | Oversupply              |
| 12/30/2020 9:57     | 0:02               | SSA3          | 0.0258                  | 0.59600               | Oversupply              |
| 12/30/2020 9:59     | 3:13               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 9:59     | 2:08               | KWP11         | 10.0146                 | 11.56530              | Oversupply              |
| 12/30/2020 9:59     | 3:14               | SSA3          | 8.1018                  | 0.02100               | Oversupply              |
| 12/30/2020 10:12    | 2:40               | AWE           | 12.4238                 | 21.00000              | Oversupply              |
| 12/30/2020 12:09    | 1:04               | KWP11         | 6.8795                  | 12.06628              | Oversupply              |
| 12/30/2020 12:58    | 0:04               | AWE           | 0.0595                  | 21.00000              | Oversupply              |
| 12/30/2020 13:04    | 0:04               | AWE           | 0.0585                  | 21.00000              | Oversupply              |
| 12/30/2020 13:13    | 0:01               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 13:13    | 0:22               | SSA3          | 0.6819                  | 0.00300               | Oversupply              |
| 12/30/2020 13:15    | 0:20               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 13:15    | 0:20               | KWP11         | 0.7503                  | 10.76993              | Oversupply              |
| 12/30/2020 13:35    | 0:02               | SSA3          | 0.0783                  | 0.02400               | Oversupply              |
| 12/30/2020 13:37    | 0:02               | SSA3          | 0.0783                  | 0.13400               | Oversupply              |
| 12/30/2020 13:39    | 0:02               | SSA3          | 0.0776                  | 0.09100               | Oversupply              |
| 12/30/2020 13:40    | 0:04               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 13:40    | 0:04               | KWP11         | 0.0394                  | 14.06119              | Oversupply              |
| 12/30/2020 13:41    | 0:02               | SSA3          | 0.0789                  | -0.00300              | Oversupply              |
| 12/30/2020 13:43    | 0:04               | SSA3          | 0.1617                  | -0.00400              | Oversupply              |
| 12/30/2020 13:47    | 0:02               | SSA3          | 0.0839                  | 0.10800               | Oversupply              |
| 12/30/2020 13:48    | 0:29               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 13:48    | 0:28               | KWP11         | 2.7151                  | 12.64110              | Oversupply              |
| 12/30/2020 13:49    | 0:26               | SSA3          | 1.0749                  | -0.00100              | Oversupply              |
| 12/30/2020 14:15    | 0:02               | SSA3          | 0.0807                  | -0.00400              | Oversupply              |
| 12/30/2020 14:17    | 0:02               | SSA3          | 0.0801                  | -0.00300              | Oversupply              |
| 12/30/2020 14:19    | 0:40               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 14:19    | 0:40               | SSA3          | 0.8471                  | 0.00200               | Oversupply              |
| 12/30/2020 14:20    | 0:34               | KWP11         | 1.9359                  | 14.01628              | Oversupply              |
| 12/30/2020 14:55    | 0:04               | KWP11         | 0.0773                  | 13.17401              | Oversupply              |
| 12/30/2020 15:00    | 0:02               | SSA3          | 0.0081                  | -0.00300              | Oversupply              |
| 12/30/2020 15:02    | 0:02               | SSA3          | 0.0081                  | 0.02200               | Oversupply              |
| 12/30/2020 15:03    | 0:05               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 15:04    | 0:04               | SSA3          | 0.0162                  | 0.03200               | Oversupply              |
| 12/30/2020 15:05    | 0:05               | KWP11         | 0.1106                  | 14.49330              | Oversupply              |
| 12/30/2020 15:08    | 0:02               | SSA3          | 0.0081                  | -0.00300              | Oversupply              |
| 12/30/2020 15:10    | 0:02               | SSA3          | 0.0081                  | -0.00300              | Oversupply              |
| 12/30/2020 15:16    | 0:16               | 17-2          | 0.1246                  | 0.75000               | Oversupply              |
| 12/30/2020 15:16    | 0:02               | SSA3          | 0.0074                  | 0.38600               | Oversupply              |
| 12/30/2020 15:18    | 0:02               | SSA3          | 0.0074                  | 0.26900               | Oversupply              |
| 12/30/2020 15:19    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 15:20    | 0:04               | SSA3          | 0.0148                  | 0.01800               | Oversupply              |
| 12/30/2020 15:22    | 0:02               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/30/2020 15:23    | 0:02               | KWP11         | 0.0068                  | 15.74773              | Oversupply              |
| 12/30/2020 15:24    | 0:02               | SSA3          | 0.0074                  | -0.00300              | Oversupply              |
| 12/30/2020 15:30    | 0:02               | SSA3          | 0.0060                  | 1.92000               | Oversupply              |
| 12/30/2020 15:38    | 0:02               | SSA3          | 0.0060                  | 0.60200               | Oversupply              |
| 12/30/2020 20:26    | 0:08               | KWP11         | 0.2791                  | 19.20864              | Oversupply              |
| 12/30/2020 20:44    | 0:09               | KWP11         | 0.3387                  | 19.21064              | Oversupply              |
| 12/30/2020 20:54    | 0:01               | KWP11         | 0.0017                  | 19.21064              | Oversupply              |
| 12/30/2020 20:56    | 0:14               | KWP11         | 0.2464                  | 19.21064              | Oversupply              |
| 12/30/2020 21:24    | 1:47               | KWP11         | 14.0158                 | 17.71371              | Oversupply              |
| 12/30/2020 23:21    | 1:50               | KWP11         | 18.0932                 | 17.71371              | Oversupply              |
| 12/31/2020 0:54     | 0:11               | AWE           | 0.7154                  | 21.00000              | Oversupply              |



**Maui Curtailment Report**

December 2020

| Start Date and Time                  | Duration (minutes) | IPP Curtailed | Estimated Curtailed MWH | Peak MW Curtailed     | Reasons for Curtailment |
|--------------------------------------|--------------------|---------------|-------------------------|-----------------------|-------------------------|
| 12/31/2020 1:06                      | 0:01               | AWE           | 0.0067                  | 12.50000              | Oversupply              |
| 12/31/2020 1:13                      | 5:17               | KWP           | 64.4259                 | 17.71371              | Oversupply              |
| 12/31/2020 2:31                      | 0:13               | AWE           | 0.4660                  | 14.20000              | Oversupply              |
| 12/31/2020 2:54                      | 1:29               | AWE           | 8.8736                  | 21.00000              | Oversupply              |
| 12/31/2020 4:30                      | 0:03               | AWE           | 0.0193                  | 11.80000              | Oversupply              |
| 12/31/2020 6:31                      | 0:01               | KWP           | 0.0118                  | 17.71371              | Oversupply              |
| 12/31/2020 7:04                      | 10:55              | SSA2          | 17.2502                 | 2.87000               | System Constraint       |
| 12/31/2020 7:37                      | 4:02               | 17-2          | 1.1507                  | 0.75000               | Oversupply              |
| 12/31/2020 7:41                      | 6:19               | SSA3          | 12.8201                 | 0.02200               | Oversupply              |
| 12/31/2020 7:43                      | 6:17               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/31/2020 7:44                      | 0:01               | KWP           | 0.0001                  | 17.71371              | Oversupply              |
| 12/31/2020 7:46                      | 3:53               | KWP           | 53.1705                 | 17.71371              | Oversupply              |
| 12/31/2020 9:24                      | 0:02               | AWE           | 0.0146                  | 20.90000              | Oversupply              |
| 12/31/2020 9:28                      | 0:05               | AWE           | 0.1301                  | 21.00000              | Oversupply              |
| 12/31/2020 9:34                      | 0:11               | AWE           | 0.4303                  | 21.00000              | Oversupply              |
| 12/31/2020 9:54                      | 1:45               | AWE           | 12.0262                 | 21.00000              | Oversupply              |
| 12/31/2020 11:40                     | 2:16               | AWE           | 25.0952                 | 21.00000              | Oversupply              |
| 12/31/2020 11:40                     | 2:56               | KWP           | 48.6579                 | 17.71371              | Oversupply              |
| 12/31/2020 11:40                     | 3:53               | 17-2          | 1.5829                  | 0.75000               | Oversupply              |
| 12/31/2020 12:48                     | 0:01               | SAG           | Data is not available   | Data is not available | Oversupply              |
| 12/31/2020 14:00                     | 0:02               | SSA3          | 0.0905                  | 0.00000               | Oversupply              |
| 12/31/2020 14:02                     | 0:33               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/31/2020 14:02                     | 0:32               | SSA3          | 1.3411                  | 0.00500               | Oversupply              |
| 12/31/2020 14:17                     | 0:01               | AWE           | 0.0058                  | 14.70000              | Oversupply              |
| 12/31/2020 14:25                     | 0:07               | AWE           | 0.1432                  | 21.00000              | Oversupply              |
| 12/31/2020 14:35                     | 0:02               | SSA3          | 0.0543                  | -0.00400              | Oversupply              |
| 12/31/2020 14:37                     | 0:54               | SSA3          | 1.6558                  | 0.08900               | Oversupply              |
| 12/31/2020 14:38                     | 0:53               | BS250         | Data is not available   | Data is not available | Oversupply              |
| 12/31/2020 14:38                     | 0:53               | KWP           | 5.1084                  | 14.71984              | Oversupply              |
| 12/31/2020 14:41                     | 0:01               | AWE           | 0.0062                  | 21.00000              | Oversupply              |
| 12/31/2020 15:31                     | 0:02               | SSA3          | 0.0144                  | 0.06600               | Oversupply              |
| <b>Total Estimated Curtailed MWh</b> |                    |               | <b>2,408.614</b>        |                       |                         |

**Notes:**

- Curtailment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAAA Rent-A-Space Maui LTD ("5A"), Strategic Alliance Group ("SAG")/fka Bioreal Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), Kaheawa Wind Power II ("KWP") Bioreal Solar 250, LLC ("BS250"), Extra Spaces A ("ESA"), Extra Spaces B ("ESB"), SSA Solar of Hawaii 3 ("SSA3") fka South Maui Renewable Resources ("SMRR"), SSA Solar of HI 2 ("SSA2") fka Ku'ia Solar ("KS"), and Maui 17-2 ("17-2") may now be controlled by Maui Electric's Automatic Generation Control System ("AGC") or a Maui Electric operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ("MAVG") that Maui Electric can accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down ("ARRD"). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD). Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control will employ the lesser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic.
- Curtailment signals sent to 5A, SAG (fka BS), BS250, ESA, ESB, SSA3 (fka SMRR), SSA2 (fka KS) and 17-2 during nighttime hours only are not recorded as curtailment events because no energy generation is possible during that time.
- The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.
- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, SAG, BS 250, ESA, ESB, and MH
- The MH, ESA, and ESB facilities were offline for the entire month of December 2020. No curtailment events recorded. SSA 2 (fka KS) was offline the entire month of December 2020 and all events were due to a system constraint.
- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information estimated or provided by AWE, KWP, KWP, SSA 2 (fka KS), SSA 3 (fka SMRR) and 17-2. Maui Electric does not make any representation as to its accuracy.

Hawai'i Electric Light Company Curtailment Report December 2020

| Start Date/Time | MW output prior to start of curtailment | End Date/Time  | MW output after curtailment released <sup>1</sup> | IPP                 | Reason for Curtailment |
|-----------------|---|----------------|---|---------------------|------------------------|
| 12/03/20 08:18  | 0.0 MW                                  | 12/03/20 12:41 | 1.3 MW  | Hawi Renew Dev      | Facility Requested     |
| 12/04/20 08:43  | 16.2 MW                                 | 12/04/20 12:57 | 16.2 MW   | Pakini Nui Windfarm | Facility Requested     |
| 12/17/20 10:27  | 2.7 MW                                  | 12/17/20 12:15 | 4.3 MW  | Hawi Renew Dev      | System Constraint      |
| 12/18/20 06:53  | 19.9 MW                                 | 12/18/20 16:16 | 18.7 MW   | Pakini Nui Windfarm | Facility Requested     |
| 12/26/20 19:21  | 19.1 MW                                 | 12/27/20 06:41 | 18.9 MW   | Pakini Nui Windfarm | Facility Requested     |
| 12/31/20 10:01  | 19.9 MW                                 | 12/31/20 12:41 | 16.9 MW   | Pakini Nui Windfarm | Facility Requested     |
|                 |   |                |   |                     |                        |
|                 |   |                |   |                     |                        |
|                 |   |                |   |                     |                        |
|                 |   |                |   |                     |                        |

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

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