



October 28, 2019

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PUBLIC UTILITIES
COMMISSION

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

Dear Commissioners:

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

In accordance with Ordering Paragraph 3 of Order No. 30371, filed May 4, 2012 in the subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies'¹ monthly report for September 2019 on: (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

An electronic copy of each report is also included with this filing, as the files are voluminous, and therefore are being provided on a compact disc ("CD") to both the Commission and the Consumer Advocate. Any party to this proceeding may obtain a copy of this CD by emailing Marisa Chun at marisa.chun@hawaiianelectric.com.

Sincerely,

Kevin M. Katsura
Director
Regulatory Non-Rate Proceedings

Enclosure

c: Service List

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

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

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

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending September 30, 2019):

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

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

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

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

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

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending September 30, 2019):

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

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

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

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

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

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

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

The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending September 30, 2019):

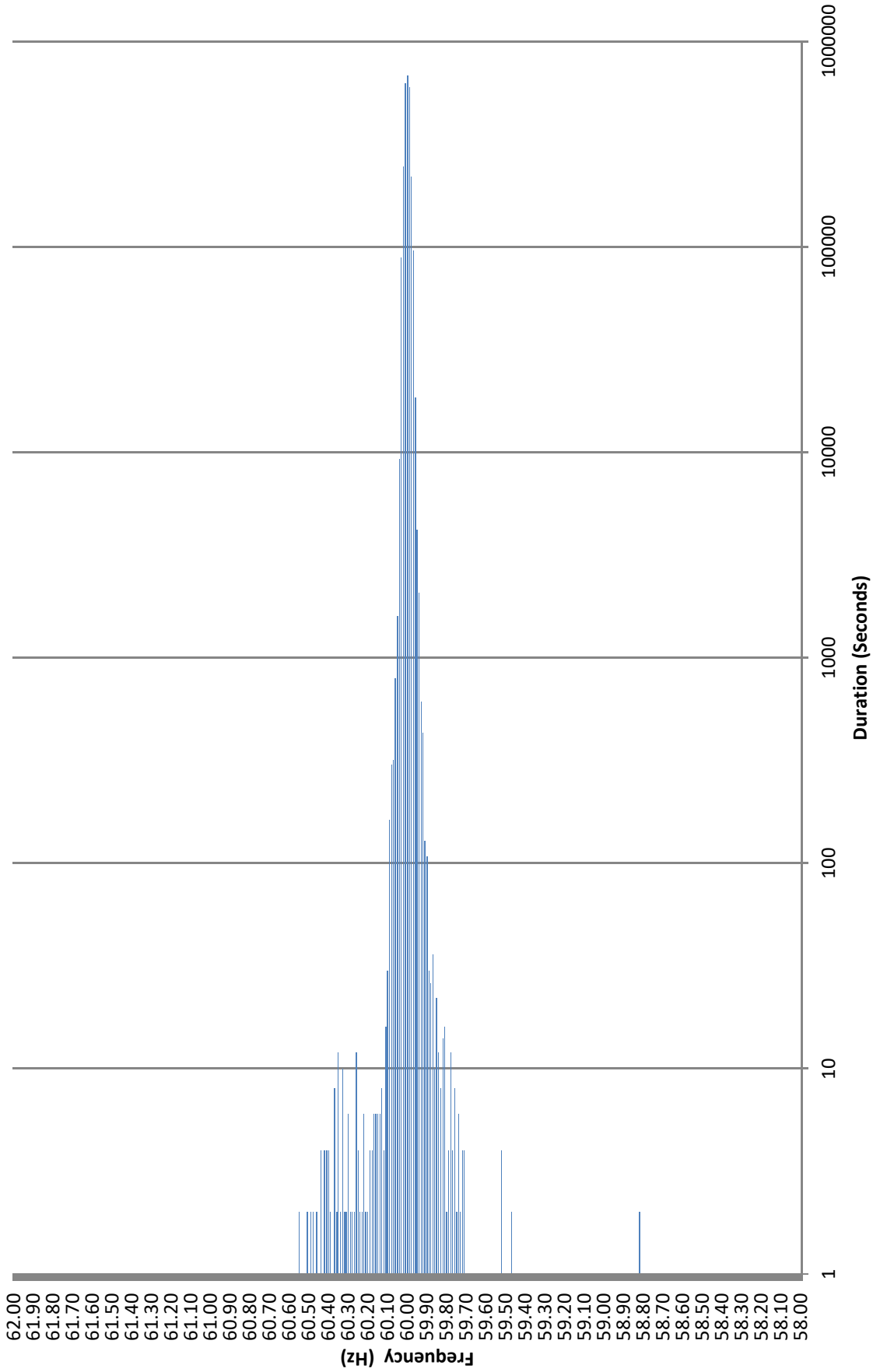
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

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

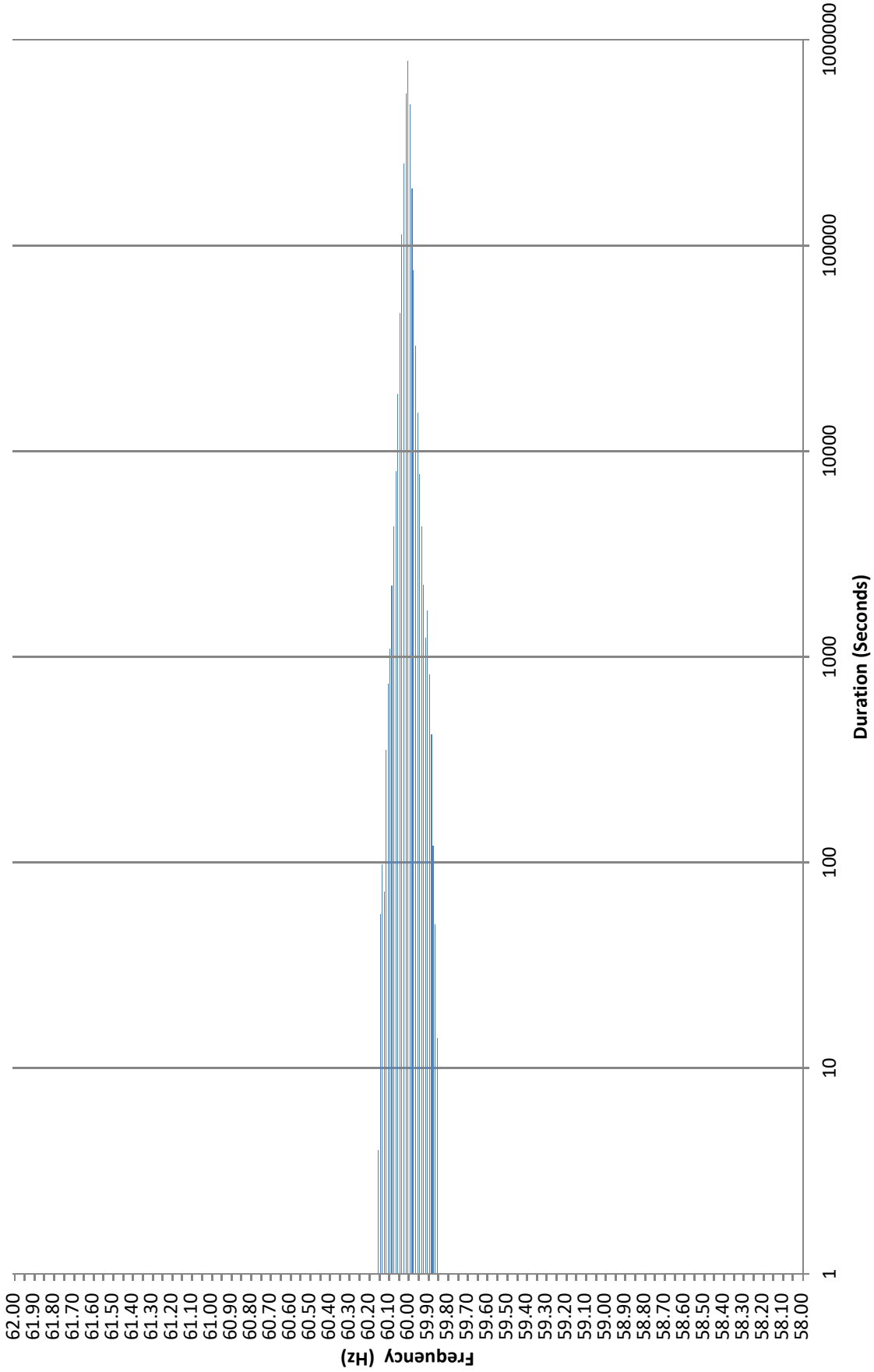
3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

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

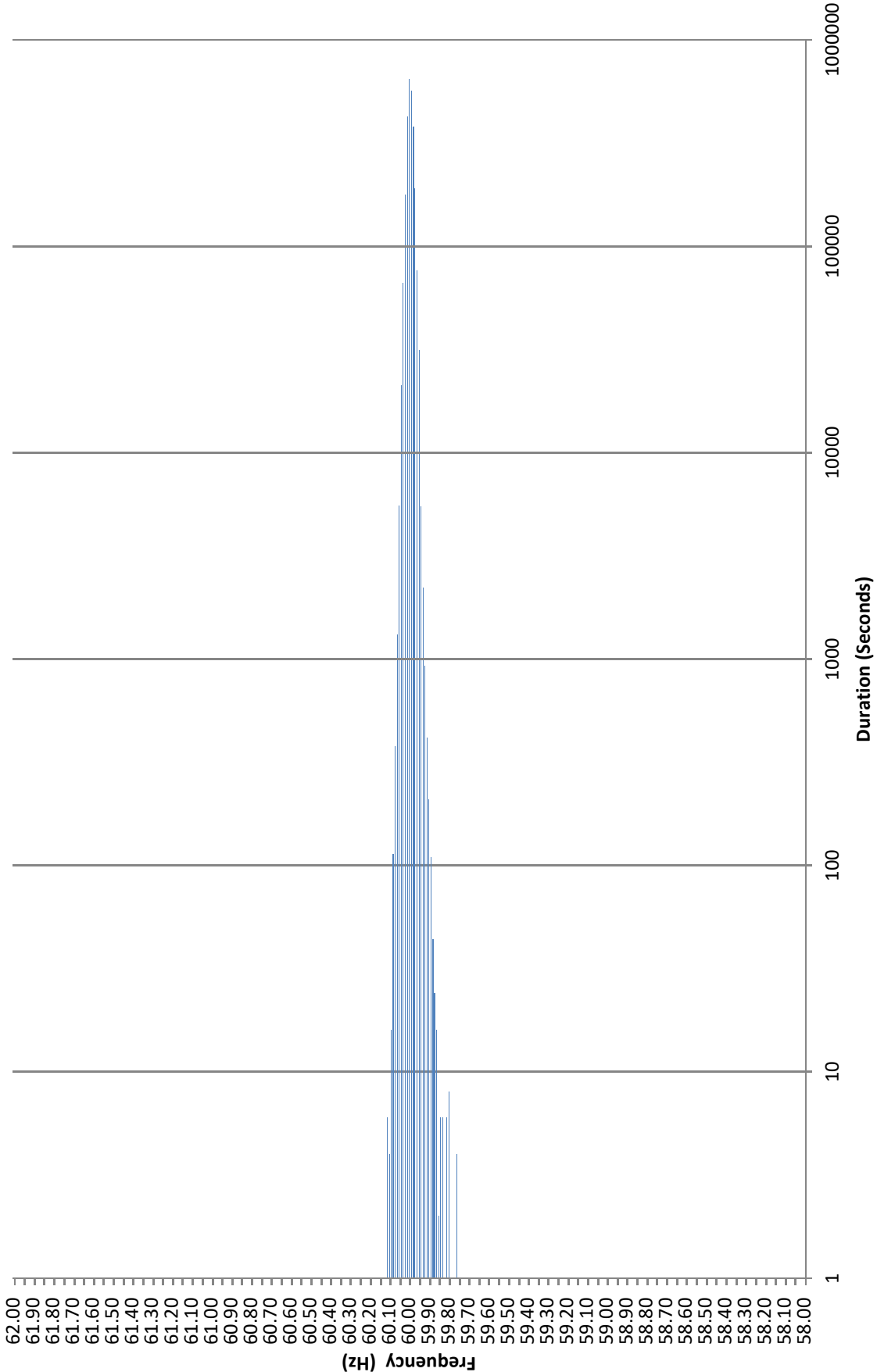
Frequency Distribution Plot - Hawaiian Electric September 2019



Frequency Distribution Plot - Maui Electric September 2019



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



Hawaiian Electric Frequency Excursion Statistics September 2019		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	378	132
Maximum Duration (sec)	482	518
Maximum Deviation (Hz)	58.819	60.551
Total Duration of Excursions (sec)	4974	2294

Maui Electric Frequency Excursion Statistics September 2019		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3363	3736
Maximum Duration (sec)	432	570
Maximum Deviation (Hz)	59.850	60.148
Total Duration of Excursions (sec)	24782	24050

Hawai'i Electric Light Frequency Excursion Statistics September 2019		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3770	810
Maximum Duration (sec)	236	44
Maximum Deviation (Hz)	59.764	60.111
Total Duration of Excursions (sec)	24348	3604

Hawaiian Electric Curtailment Report September 2019

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP	Reason for Curtailment
09/06/19 05:28	0.0	0.00	09/06/19 07:34	0	*	Waianae	System Constraints
09/06/19 08:16	15.0	4.15	09/06/19 08:18	5.75	*	Waianae	Facility Requested
09/06/19 08:28	0.0	9.00	09/06/19 08:31	0	*	Waianae	Facility Requested
09/06/19 16:38	0.0	25.70	09/06/19 16:53	0	*	Waianae	System Constraints
09/09/19 05:25	0.0	0.00	09/09/19 15:18	0	*	Waianae	System Constraints
09/09/19 05:35	0.0	0.00	09/09/19 06:01	0	0.00	Aloha1	System Constraints
09/09/19 09:58	30.0	43.40	09/09/19 11:48	20.31	*	Mauka	System Constraints/Facility Requested
09/09/19 14:26	0.0	4.00	09/09/19 15:16	0	3.36	Aloha1	System Constraints
09/11/19 06:10	0.0	0.00	09/11/19 18:20	0	*	Mauka	System Constraints
09/11/19 08:07	0.0	9.30	09/11/19 08:41	0	*	KWF	System Constraints
09/11/19 07:59	0.0	1.40	09/11/19 08:33	0	*	Makai	System Constraints
09/11/19 12:20	0.0	3.30	09/11/19 13:40	0	*	Makai	System Constraints
09/11/19 12:20	0.0	4.70	09/11/19 13:46	0	*	KWF	System Constraints
09/12/19 06:29	0.0	0.00	09/12/19 10:31	0	*	Makai	System Constraints
09/12/19 06:47	0.0	4.00	09/12/19 10:41	0	8.17	Aloha1	System Constraints
09/12/19 06:56	0.0	0.00	09/12/19 10:51	0	*	North	System Constraints
09/12/19 06:58	0.0	0.00	09/12/19 10:52	0	*	South	System Constraints
09/12/19 06:59	0.0	0.00	09/12/19 10:53	0	*	KLS2	System Constraints
09/12/19 07:01	0.0	0.00	09/12/19 10:54	0	*	KREP	System Constraints
09/12/19 07:04	0.0	0.00	09/12/19 16:19	0	*	Mauka	System Constraints
09/12/19 07:08	0.0	0.00	09/12/19 10:39	0	*	KWF	System Constraints
09/13/19 05:26	0.0	0.00	09/13/19 07:35	0	*	KREP	System Constraints
09/13/19 23:51	0.0	0.00	09/13/19 23:54	0	*	KREP	System Constraints
09/16/19 06:40	0.0	0.00	09/16/19 18:20	0	*	KWF	System Constraints
09/16/19 06:52	0.0	1.00	09/16/19 18:58	0	*	Makai	System Constraints
09/16/19 06:52	0.0	4.00	09/16/19 07:46	0	*	Mauka	System Constraints
09/16/19 17:43	0.0	17.10	09/16/19 18:09	0	*	Mauka	System Constraints
09/16/19 19:17	0.0	0.00	09/16/19 19:52	0	*	KWF	Facility Requested
09/20/19 08:47	0.0	9.10	09/20/19 10:08	0	*	Mauka	System Constraints
09/20/19 10:25	0.0	5.50	09/20/19 13:06	0	*	Makai	System Constraints
09/25/19 06:53	0.0	1.60	09/25/19 07:32	0	*	KWF	System Constraints
09/25/19 06:49	0.0	0.30	09/25/19 07:29	0	*	Makai	System Constraints
09/25/19 15:58	0.0	0.00	09/25/19 16:54	0	*	Makai	System Constraints
09/25/19 16:07	0.0	0.00	09/25/19 16:56	0	*	KWF	System Constraints
09/26/19 08:46	0.0	0.00	09/26/19 11:18	0	*	Mauka	System Constraints
09/26/19 11:19	0.0	0.00	09/26/19 13:56	0	*	Makai	System Constraints
09/26/19 13:59	0.0	0.70	09/26/19 14:52	0	*	Mauka	System Constraints
09/27/19 10:56	0.0	1.10	09/27/19 12:09	0	3.61	Aloha1	Facility Requested

Aloha1 = Aloha Solar Energy Fund I

KLS2 = Kalaeloa Solar Two

KREP = Kalaeloa Renewable Energy Partners

KWF = Kahuku Wind Power

Lani = Lanikuhana Solar

Makai = Kawailoa Wind Makai

Mauka = Kawailoa Wind Mauka

North = Waihonu North

South = Waihonu South

Waianae = EE Waianae Solar Project

Waipio = Waipio 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.



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/1/2019 3:26	0:19	KWPPII	1.7138043046	7.2251963615	Oversupply
9/1/2019 3:29	0:10	AWE	0.1178968430	21.0000000000	Oversupply
9/1/2019 3:47	0:06	KWPPII	0.1916728020	7.0595355034	Oversupply
9/1/2019 4:02	0:06	KWPPII	0.1178959290	7.0106358528	Oversupply
9/1/2019 4:11	0:01	KWPPII	0.0008311669	7.1483535767	Oversupply
9/2/2019 0:11	0:19	KWPPII	0.2931522687	14.6958894730	Oversupply
9/2/2019 0:32	0:02	KWPPII	0.0087785880	14.2707605362	Oversupply
9/2/2019 0:36	0:05	KWPPII	0.0551211039	14.5481920242	Oversupply
9/2/2019 1:43	0:02	KWPPII	0.0158488433	14.3286418915	Oversupply
9/2/2019 1:46	0:05	KWPPII	0.0693873247	14.3396196365	Oversupply
9/2/2019 1:54	1:12	KWPPII	4.9088909308	16.1489124298	Oversupply
9/2/2019 3:04	0:01	AWE	0.0016666667	0.1000000015	Oversupply
9/2/2019 3:09	0:01	KWPPII	0.0041503588	13.0273084641	Oversupply
9/2/2019 3:13	2:37	KWPPII	10.8543559392	14.7108592987	Oversupply
9/2/2019 5:51	0:07	KWPPII	0.0706100305	14.4923067093	Oversupply
9/2/2019 6:31	0:26	BS250	Data not available	Data not available	Oversupply
9/2/2019 6:31	0:26	ESA	Data not available	Data not available	Oversupply
9/2/2019 6:31	0:26	ESB	Data not available	Data not available	Oversupply
9/2/2019 6:31	0:25	SSA2	0.0236917679	0.0540000000	Oversupply
9/2/2019 6:31	0:25	SSA3	0.0553851675	0.0000000000	Oversupply
9/2/2019 6:32	0:25	KWPPII	2.3351966699	17.6638088226	Oversupply
9/2/2019 7:01	0:01	SSA3	0.0040169958	0.2390000000	Oversupply
9/2/2019 7:03	0:01	SSA2	0.0013344482	0.1070000000	Oversupply
9/2/2019 7:03	0:01	SSA3	0.0041916478	0.2910000000	Oversupply
9/2/2019 7:04	0:06	BS250	Data not available	Data not available	Oversupply
9/2/2019 7:04	0:06	ESA	Data not available	Data not available	Oversupply
9/2/2019 7:04	0:06	ESB	Data not available	Data not available	Oversupply
9/2/2019 7:04	0:06	KWPPII	0.1027803262	17.6418533325	Oversupply
9/2/2019 7:04	0:06	SSA3	0.0323979447	0.0020000000	Oversupply
9/2/2019 7:04	0:06	SSA2	0.0092898127	0.0040000000	Oversupply
9/2/2019 7:10	0:02	SSA2	0.0026688965	0.0870000000	Oversupply
9/2/2019 7:10	0:02	SSA3	0.0082086437	0.1080000000	Oversupply
9/2/2019 7:11	0:01	BS250	Data not available	Data not available	Oversupply
9/2/2019 7:11	0:01	ESA	Data not available	Data not available	Oversupply
9/2/2019 7:11	0:01	ESB	Data not available	Data not available	Oversupply
9/2/2019 7:11	0:12	KWPPII	0.2224644343	17.7047252655	Oversupply
9/2/2019 7:11	0:09	SSA3	0.0628515260	-0.0030000000	Oversupply
9/2/2019 7:12	0:09	SSA2	0.0342366752	0.0030000000	Oversupply
9/2/2019 7:13	0:08	BS250	Data not available	Data not available	Oversupply
9/2/2019 7:13	0:08	ESA	Data not available	Data not available	Oversupply
9/2/2019 7:13	0:08	ESB	Data not available	Data not available	Oversupply
9/2/2019 7:21	0:01	SSA3	0.0063305139	0.1210000000	Oversupply
9/2/2019 7:21	0:01	SSA2	0.0043292060	0.1460000000	Oversupply
9/2/2019 7:22	0:02	BS250	Data not available	Data not available	Oversupply
9/2/2019 7:22	0:02	ESA	Data not available	Data not available	Oversupply
9/2/2019 7:22	0:02	ESB	Data not available	Data not available	Oversupply
9/2/2019 7:22	0:01	SSA3	0.0066118700	0.0050000000	Oversupply
9/2/2019 7:22	0:02	SSA2	0.0084919040	0.0030000000	Oversupply
9/2/2019 7:22	0:01	SSA3	0.0063305138	-0.0020000000	Oversupply
9/2/2019 7:23	0:01	SSA3	0.0064711919	0.0110000000	Oversupply
9/2/2019 7:24	0:01	KWPPII	0.0040308952	17.4881687164	Oversupply
9/2/2019 7:25	0:01	SSA2	0.0044124599	0.1990000000	Oversupply
9/2/2019 7:25	0:05	SSA3	0.0438677224	0.3320000000	Oversupply
9/2/2019 7:25	0:11	SSA2	0.0613759797	0.0150000000	Oversupply
9/2/2019 7:26	0:11	BS250	Data not available	Data not available	Oversupply
9/2/2019 7:26	0:11	ESA	Data not available	Data not available	Oversupply
9/2/2019 7:26	0:11	ESB	Data not available	Data not available	Oversupply
9/2/2019 7:28	0:04	KWPPII	0.0469660441	17.6867618561	Oversupply
9/2/2019 7:30	0:01	SSA3	0.0075466284	0.0020000000	Oversupply
9/2/2019 7:31	0:05	SSA3	0.0471664273	0.0940000000	Oversupply
9/2/2019 7:33	0:05	KWPPII	0.0965166569	17.6877593994	Oversupply
9/2/2019 7:37	0:01	SSA3	0.0065307361	0.3360000000	Oversupply
9/2/2019 7:38	0:01	SSA2	0.0049209937	0.1410000000	Oversupply
9/2/2019 7:38	0:01	SSA3	0.0068209911	0.4740000000	Oversupply
9/2/2019 7:39	0:01	SSA2	0.0050174839	0.2610000000	Oversupply
9/2/2019 7:40	0:01	SSA3	0.0066758636	0.3740000000	Oversupply
9/2/2019 7:40	0:01	SSA2	0.0050174839	0.2630000000	Oversupply
9/2/2019 7:40	0:01	SSA3	0.0066758636	0.0780000000	Oversupply
9/2/2019 7:41	0:01	SSA2	0.0050174838	0.0850000000	Oversupply
9/2/2019 7:41	0:01	SSA3	0.0066758636	0.1060000000	Oversupply
9/2/2019 7:42	0:01	SSA3	0.0066758636	0.4010000000	Oversupply
9/2/2019 7:42	0:01	SSA2	0.0050174839	0.2940000000	Oversupply
9/2/2019 8:42	0:01	SSA3	0.0013898745	1.0430000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/2/2019 8:42	0:01	SSA3	0.0013898745	1.1210000000	Oversupply
9/2/2019 8:42	0:01	SSA2	0.0004567577	0.3210000000	Oversupply
9/2/2019 8:43	0:01	SSA3	0.0013596598	0.6220000000	Oversupply
9/2/2019 8:43	0:04	SSA2	0.0312759049	0.0190000000	Oversupply
9/2/2019 8:44	0:04	BS250	Data not available	Data not available	Oversupply
9/2/2019 8:44	0:04	ESA	Data not available	Data not available	Oversupply
9/2/2019 8:44	0:04	ESB	Data not available	Data not available	Oversupply
9/2/2019 8:44	0:01	SSA3	0.0024096598	0.0360000000	Oversupply
9/2/2019 8:45	0:04	KWPPII	0.0663674037	19.0080547333	Oversupply
9/2/2019 8:45	0:03	SSA3	0.0489028686	0.0120000000	Oversupply
9/2/2019 8:48	0:01	SSA2	0.0094985741	-0.0030000000	Oversupply
9/2/2019 8:48	0:01	SSA3	0.0122257171	0.0200000000	Oversupply
9/2/2019 8:52	0:01	SSA3	0.0122257171	1.2130000000	Oversupply
9/2/2019 8:53	0:52	BS250	Data not available	Data not available	Oversupply
9/2/2019 8:53	0:52	ESA	Data not available	Data not available	Oversupply
9/2/2019 8:53	0:52	ESB	Data not available	Data not available	Oversupply
9/2/2019 8:53	0:52	SSA2	1.0095850689	0.6710000000	Oversupply
9/2/2019 8:53	0:52	SSA3	1.6246407960	0.9920000000	Oversupply
9/2/2019 8:54	0:52	KWPPII	6.9442497333	19.1697235107	Oversupply
9/2/2019 9:45	0:01	SSA2	0.0025302791	0.0570000000	Oversupply
9/2/2019 9:45	0:01	SSA3	0.0045536867	0.1640000000	Oversupply
9/2/2019 10:23	0:01	SSA3	0.0026704390	2.6040000000	Oversupply
9/2/2019 10:24	0:01	SSA2	0.0062412405	0.8320000000	Oversupply
9/2/2019 10:25	0:01	SSA3	0.0024136661	2.6860000000	Oversupply
9/2/2019 10:26	0:01	SSA3	0.0024136661	1.9490000000	Oversupply
9/2/2019 10:26	0:01	SSA2	0.0062412405	1.3350000000	Oversupply
9/2/2019 10:27	0:01	SSA3	0.0024136661	1.5020000000	Oversupply
9/2/2019 10:27	0:01	SSA2	0.0062412405	1.6270000000	Oversupply
9/2/2019 10:28	0:01	SSA3	0.0023623109	1.6860000000	Oversupply
9/2/2019 10:28	0:01	SSA2	0.0062412402	1.7110000000	Oversupply
9/2/2019 10:28	0:01	SSA3	0.0024136661	1.6140000000	Oversupply
9/2/2019 10:29	0:01	SSA2	0.0056790183	1.6360000000	Oversupply
9/2/2019 10:29	0:01	SSA3	0.0069258879	1.5740000000	Oversupply
9/2/2019 10:30	0:01	SSA2	0.0080848372	1.0730000000	Oversupply
9/2/2019 10:30	0:01	SSA3	0.0114319357	1.4620000000	Oversupply
9/2/2019 10:31	0:01	SSA2	0.0080848368	0.8530000000	Oversupply
9/2/2019 10:31	0:01	SSA3	0.0116804562	1.6280000000	Oversupply
9/2/2019 10:31	0:01	SSA2	0.0080848372	1.0970000000	Oversupply
9/2/2019 10:32	0:01	SSA3	0.0114319357	1.7310000000	Oversupply
9/2/2019 10:32	0:01	SSA2	0.0080848372	1.2780000000	Oversupply
9/2/2019 10:32	0:01	SSA3	0.0111834152	1.5630000000	Oversupply
9/2/2019 10:33	0:01	SSA3	0.0114319357	1.6780000000	Oversupply
9/2/2019 10:34	0:01	SSA3	0.0116804557	1.8770000000	Oversupply
9/2/2019 10:34	0:01	SSA2	0.0080848372	1.2670000000	Oversupply
9/2/2019 10:35	0:01	SSA3	0.0114319357	1.6040000000	Oversupply
9/2/2019 10:35	0:01	SSA2	0.0080848372	0.9480000000	Oversupply
9/2/2019 10:35	0:01	SSA3	0.0116804562	1.3530000000	Oversupply
9/2/2019 10:36	0:01	SSA2	0.0080848368	1.1080000000	Oversupply
9/2/2019 10:36	0:01	SSA3	0.0116804557	1.1160000000	Oversupply
9/2/2019 10:37	0:01	SSA2	0.0080848372	1.3880000000	Oversupply
9/2/2019 10:37	0:01	SSA3	0.0111834156	1.3520000000	Oversupply
9/2/2019 10:37	0:01	SSA2	0.0080848372	2.0100000000	Oversupply
9/2/2019 10:38	0:01	SSA3	0.0116804557	1.7570000000	Oversupply
9/2/2019 10:39	0:01	SSA2	0.0080848372	2.7310000000	Oversupply
9/2/2019 10:39	0:01	SSA3	0.0114319357	2.7210000000	Oversupply
9/2/2019 10:40	0:01	SSA2	0.0080848368	2.5790000000	Oversupply
9/2/2019 10:40	0:01	SSA3	0.0116804557	2.4440000000	Oversupply
9/2/2019 10:41	0:01	SSA3	0.0116804562	2.0820000000	Oversupply
9/2/2019 10:41	0:01	SSA2	0.0080848372	2.3210000000	Oversupply
9/2/2019 10:42	0:01	SSA3	0.0114319357	1.9220000000	Oversupply
9/2/2019 10:43	0:01	SSA2	0.0080848368	2.0670000000	Oversupply
9/2/2019 10:43	0:01	SSA3	0.0116804562	2.2570000000	Oversupply
9/2/2019 10:44	0:01	SSA2	0.0080848372	2.0520000000	Oversupply
9/2/2019 10:44	0:01	SSA3	0.0083552685	2.1800000000	Oversupply
9/2/2019 10:44	0:01	SSA2	-0.0007651628	2.4150000000	Oversupply
9/2/2019 11:16	0:01	SSA3	0.0030800478	2.9860000000	Oversupply
9/2/2019 11:16	0:01	SSA2	0.0048480324	1.4590000000	Oversupply
9/2/2019 11:17	0:01	SSA3	0.0031470060	2.5960000000	Oversupply
9/2/2019 11:17	0:01	SSA2	0.0048480328	0.9190000000	Oversupply
9/2/2019 11:17	0:01	SSA3	0.0031470056	2.0930000000	Oversupply
9/2/2019 11:18	0:01	SSA2	0.0048480328	1.4780000000	Oversupply
9/2/2019 11:18	0:01	SSA3	0.0030800483	2.1500000000	Oversupply
9/3/2019 0:20	0:01	KWPPII	0.0010021528	20.4600791931	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/3/2019 0:22	0:32	KWPPII	3.1660824299	20.6227455139	Oversupply
9/3/2019 1:21	0:01	KWPPII	0.0100135803	19.8134040833	Oversupply
9/3/2019 1:23	2:08	KWPPII	14.3119017204	20.5728473663	Oversupply
9/3/2019 3:36	0:06	KWPPII	0.1210931778	18.4222545624	Oversupply
9/3/2019 3:43	0:01	KWPPII	0.0036998749	18.6557769775	Oversupply
9/3/2019 3:46	0:01	KWPPII	0.0037567139	18.5509910583	Oversupply
9/3/2019 5:08	0:03	KWPPII	0.0379383723	18.1727657318	Oversupply
9/3/2019 5:26	0:07	KWPPII	0.2055083434	17.6139106750	Oversupply
9/3/2019 5:34	0:15	KWPPII	0.4956378937	19.9102058411	Oversupply
9/3/2019 12:26	0:01	KWPPII	0.0004490799	0.0269447938	Oversupply
9/3/2019 14:12	0:53	KWPPII	3.4081934055	12.5602655411	Oversupply
9/3/2019 15:09	0:04	KWPPII	0.0516495466	7.6603050232	Oversupply
9/4/2019 0:39	0:06	KWPPII	0.1231396357	20.7065734863	Oversupply
9/4/2019 1:23	0:08	KWPPII	0.0509668986	20.6496906281	Oversupply
9/4/2019 4:34	0:02	KWPPII	0.0214798292	17.9881439209	Oversupply
9/4/2019 4:37	0:08	KWPPII	0.1314876556	20.0519161224	Oversupply
9/4/2019 4:51	0:47	KWPPII	1.6568989595	20.5359249115	System constraint
9/4/2019 6:54	0:02	BS250	Data not available	Data not available	System constraint
9/4/2019 6:54	0:02	ESA	Data not available	Data not available	System constraint
9/4/2019 6:54	0:02	ESB	Data not available	Data not available	System constraint
9/4/2019 6:54	0:02	SSA3	0.0060701686	0.1880000000	System constraint
9/4/2019 6:54	0:03	SSA2	0.0008276323	0.0680000000	System constraint
9/4/2019 6:55	0:01	KWPPII	0.0061628660	19.6926517487	System constraint
9/4/2019 6:56	0:01	SSA3	0.0020381588	0.0020000000	System constraint
9/4/2019 6:57	0:01	SSA2	0.0002794603	0.0720000000	System constraint
9/4/2019 6:58	0:01	SSA2	0.0002687118	0.0540000000	System constraint
9/4/2019 6:58	0:02	SSA3	0.0038764542	0.0030000000	System constraint
9/4/2019 6:59	0:01	BS250	Data not available	Data not available	System constraint
9/4/2019 6:59	0:01	ESA	Data not available	Data not available	System constraint
9/4/2019 6:59	0:01	ESB	Data not available	Data not available	System constraint
9/4/2019 6:59	0:01	KWPPII	0.0025399526	19.6936492920	System constraint
9/4/2019 6:59	0:01	SSA2	0.0002561269	0.0770000000	System constraint
9/4/2019 7:05	0:01	SSA2	0.0004970172	0.0840000000	System constraint
9/4/2019 7:05	0:01	SSA3	0.0028673892	0.1290000000	System constraint
9/4/2019 7:06	0:01	SSA2	0.0004970172	0.0860000000	System constraint
9/4/2019 7:06	0:01	SSA3	0.0029297237	0.3130000000	System constraint
9/4/2019 7:07	0:01	SSA3	0.0028673892	0.3210000000	System constraint
9/4/2019 7:07	0:01	SSA2	0.0004970172	0.0580000000	System constraint
9/4/2019 7:07	0:02	SSA3	0.0057347784	0.0370000000	System constraint
9/4/2019 7:07	0:01	SSA2	0.0004970172	0.0020000000	System constraint
9/4/2019 7:08	0:01	BS250	Data not available	Data not available	System constraint
9/4/2019 7:08	0:01	ESA	Data not available	Data not available	System constraint
9/4/2019 7:08	0:01	ESB	Data not available	Data not available	System constraint
9/4/2019 7:08	0:01	KWPPII	0.0024007479	20.0489215851	System constraint
9/4/2019 7:10	0:01	SSA3	0.0028050546	0.1830000000	System constraint
9/4/2019 7:10	0:03	SSA2	0.0014910517	0.0710000000	System constraint
9/4/2019 7:10	0:02	SSA3	0.0085398330	0.1840000000	System constraint
9/4/2019 7:11	0:02	BS250	Data not available	Data not available	System constraint
9/4/2019 7:11	0:02	ESA	Data not available	Data not available	System constraint
9/4/2019 7:11	0:02	ESB	Data not available	Data not available	System constraint
9/4/2019 7:11	0:03	KWPPII	0.0150834719	20.1786556244	System constraint
9/4/2019 7:49	0:01	SSA3	0.0000031765	0.9300000000	System constraint
9/4/2019 7:49	0:01	SSA2	0.0003993773	0.2160000000	System constraint
9/4/2019 9:27	0:01	SSA3	-0.0003326126	2.1820000000	System constraint
9/4/2019 9:28	0:01	SSA2	-0.0024431687	1.9670000000	System constraint
9/4/2019 9:28	0:01	SSA3	-0.0003184584	2.1600000000	System constraint
9/4/2019 9:28	0:01	SSA2	-0.0023492003	1.9430000000	System constraint
9/4/2019 9:29	0:01	SSA3	0.0007393190	1.7690000000	System constraint
9/4/2019 9:29	0:01	SSA2	0.0137701649	1.6000000000	System constraint
9/4/2019 9:30	0:01	SSA3	0.0264545454	1.5670000000	System constraint
9/4/2019 9:30	0:01	SSA2	0.0202643130	1.0770000000	System constraint
9/4/2019 9:30	0:01	SSA3	0.0264545454	1.0420000000	System constraint
9/4/2019 9:31	0:18	SSA2	0.4336573783	0.4690000000	System constraint
9/4/2019 9:31	0:17	SSA3	0.6210684591	0.5300000000	System constraint
9/4/2019 9:32	0:31	BS250	Data not available	Data not available	System constraint
9/4/2019 9:32	0:31	ESA	Data not available	Data not available	System constraint
9/4/2019 9:32	0:31	ESB	Data not available	Data not available	System constraint
9/4/2019 9:32	0:31	KWPPII	0.9748829842	19.1896820068	System constraint
9/4/2019 9:49	0:01	SSA3	0.0293860868	0.0050000000	System constraint
9/4/2019 9:49	0:13	SSA2	0.2818632005	0.0140000000	System constraint
9/4/2019 9:49	0:13	SSA3	0.4365924558	0.0670000000	System constraint
9/4/2019 10:02	0:01	SSA2	0.0073480628	0.0090000000	System constraint
9/4/2019 10:02	0:01	SSA3	0.0099984089	0.1920000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/4/2019 10:03	0:01	SSA2	0.0073480628	0.4190000000	System constraint
9/4/2019 10:03	0:01	SSA3	0.0102205950	0.6900000000	System constraint
9/4/2019 10:04	0:01	SSA3	0.0102205955	1.0240000000	System constraint
9/4/2019 10:04	0:01	SSA2	0.0073480625	1.0550000000	System constraint
9/4/2019 10:05	0:01	SSA3	0.0102205955	1.2930000000	System constraint
9/4/2019 10:05	0:01	SSA2	0.0073480628	0.9390000000	System constraint
9/4/2019 10:32	0:01	SSA2	0.0128523805	1.5280000000	System constraint
9/4/2019 10:33	0:01	SSA3	0.0120697284	2.6910000000	System constraint
9/4/2019 10:33	0:01	SSA2	0.0128523805	1.6580000000	System constraint
9/4/2019 10:34	0:01	SSA3	0.0118073428	2.6840000000	System constraint
9/4/2019 10:34	0:01	SSA2	0.0128523805	2.7420000000	System constraint
9/4/2019 10:34	0:01	SSA3	0.0120697284	2.7030000000	System constraint
9/4/2019 10:35	0:01	SSA2	0.0128523801	2.3940000000	System constraint
9/4/2019 10:35	0:01	SSA3	0.0118073428	2.3080000000	System constraint
9/4/2019 10:36	0:01	SSA3	0.0123321139	2.4200000000	System constraint
9/4/2019 10:37	0:01	SSA3	0.0120697279	2.6010000000	System constraint
9/4/2019 10:37	0:01	SSA2	0.0128523805	2.6170000000	System constraint
9/4/2019 10:37	0:01	SSA3	0.0120697284	2.0280000000	System constraint
9/4/2019 10:38	0:02	SSA2	0.0257047606	2.0360000000	System constraint
9/4/2019 10:38	0:02	SSA3	0.0244018423	1.5150000000	System constraint
9/4/2019 10:39	0:07	SSA2	0.1346575010	1.5880000000	System constraint
9/4/2019 10:40	0:07	KWP11	0.3334606012	19.1607418060	System constraint
9/4/2019 10:40	0:06	SSA3	0.1286481230	1.4660000000	System constraint
9/4/2019 10:46	0:01	SSA3	0.0313184760	0.1060000000	System constraint
9/4/2019 10:46	0:01	SSA2	0.0280938317	0.0840000000	System constraint
9/4/2019 10:47	0:01	SSA3	0.0313184760	0.3700000000	System constraint
9/4/2019 10:47	0:01	SSA2	0.0280938317	0.1320000000	System constraint
9/4/2019 10:47	0:01	SSA3	0.0306376394	0.5060000000	System constraint
9/4/2019 10:48	0:01	SSA2	0.0280938314	0.3770000000	System constraint
9/4/2019 10:48	0:01	SSA3	0.0313184760	0.5410000000	System constraint
9/4/2019 10:49	0:01	SSA3	0.0313184760	0.4450000000	System constraint
9/4/2019 10:49	0:01	SSA2	0.0270132999	0.6300000000	System constraint
9/4/2019 10:50	0:01	SSA3	0.0306376394	0.7260000000	System constraint
9/4/2019 10:50	0:01	SSA2	0.0280938314	0.3890000000	System constraint
9/4/2019 10:50	0:01	SSA3	0.0313184760	0.8800000000	System constraint
9/4/2019 10:51	0:01	SSA2	0.0280938317	0.3620000000	System constraint
9/4/2019 10:51	0:01	SSA3	0.0306376394	0.8540000000	System constraint
9/4/2019 10:51	0:01	SSA2	0.0280938317	0.5040000000	System constraint
9/4/2019 10:52	0:05	SSA3	0.1885916923	0.4080000000	System constraint
9/4/2019 10:52	0:01	SSA2	0.0280938314	0.1560000000	System constraint
9/4/2019 10:53	0:04	BS250	Data not available	Data not available	System constraint
9/4/2019 10:53	0:04	ESA	Data not available	Data not available	System constraint
9/4/2019 10:53	0:04	ESB	Data not available	Data not available	System constraint
9/4/2019 10:53	0:05	KWP11	0.0414061864	19.1367912292	System constraint
9/4/2019 10:53	0:03	SSA2	0.1123753266	0.0100000000	System constraint
9/4/2019 10:57	0:01	SSA3	0.0313184760	0.0610000000	System constraint
9/4/2019 10:57	0:01	SSA2	0.0280938317	0.0130000000	System constraint
9/4/2019 10:57	0:01	SSA3	0.0306376394	0.3050000000	System constraint
9/4/2019 10:58	0:01	SSA2	0.0280938314	0.0860000000	System constraint
9/4/2019 10:58	0:01	SSA3	0.0313184760	0.5670000000	System constraint
9/4/2019 10:58	0:01	SSA2	0.0280938317	0.1450000000	System constraint
9/4/2019 10:59	0:01	SSA3	0.0305895871	0.3680000000	System constraint
9/4/2019 10:59	0:01	SSA2	0.0208316095	0.2050000000	System constraint
9/4/2019 11:00	0:01	SSA3	0.0237749999	0.1180000000	System constraint
9/4/2019 11:00	0:01	SSA2	0.0246373317	0.2240000000	System constraint
9/4/2019 11:00	0:01	SSA3	0.0237750004	0.1990000000	System constraint
9/4/2019 11:01	0:03	BS250	Data not available	Data not available	System constraint
9/4/2019 11:01	0:03	ESA	Data not available	Data not available	System constraint
9/4/2019 11:01	0:03	ESB	Data not available	Data not available	System constraint
9/4/2019 11:01	0:01	SSA2	0.0246373321	0.2010000000	System constraint
9/4/2019 11:01	0:01	SSA3	0.0243033334	0.0990000000	System constraint
9/4/2019 11:02	0:02	KWP11	0.0146346092	19.0759162903	System constraint
9/4/2019 11:02	0:01	SSA3	0.0243033334	0.0000000000	System constraint
9/4/2019 11:02	0:01	SSA2	0.0246373321	0.0080000000	System constraint
9/4/2019 11:03	0:01	SSA3	0.0237749999	0.0060000000	System constraint
9/4/2019 11:03	0:01	SSA2	0.0246373317	0.0120000000	System constraint
9/4/2019 11:03	0:01	SSA3	0.0243033334	0.2330000000	System constraint
9/4/2019 11:04	0:01	SSA2	0.0241635371	0.4100000000	System constraint
9/4/2019 11:04	0:01	SSA3	0.0243033334	0.5550000000	System constraint
9/4/2019 11:04	0:01	SSA2	0.0246373321	0.6020000000	System constraint
9/4/2019 11:05	0:01	SSA3	0.0243033329	0.5310000000	System constraint
9/4/2019 11:05	0:01	SSA2	0.0246373321	0.4040000000	System constraint
9/4/2019 11:06	0:01	SSA3	0.0237750004	0.6510000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/4/2019 11:06	0:01	SSA2	0.0246373317	0.5000000000	System constraint
9/4/2019 11:06	0:01	SSA3	0.0243033334	0.5660000000	System constraint
9/4/2019 11:07	0:01	SSA2	0.0246373321	0.6330000000	System constraint
9/4/2019 11:07	0:01	SSA3	0.0243033334	0.6830000000	System constraint
9/4/2019 11:08	0:01	SSA2	0.0246373321	1.0390000000	System constraint
9/4/2019 11:08	0:01	SSA3	0.0237749999	0.9920000000	System constraint
9/4/2019 11:09	0:01	SSA3	0.0243033334	1.3910000000	System constraint
9/4/2019 11:09	0:01	SSA2	0.0246373317	0.9110000000	System constraint
9/4/2019 11:09	0:01	SSA3	0.0237749999	1.6090000000	System constraint
9/4/2019 11:10	0:01	SSA2	0.0246373321	0.9860000000	System constraint
9/4/2019 11:10	0:01	SSA3	0.0248316664	1.4480000000	System constraint
9/4/2019 11:11	0:01	SSA2	0.0246373321	1.5400000000	System constraint
9/4/2019 11:11	0:01	SSA3	0.0243033334	1.7220000000	System constraint
9/4/2019 11:11	0:01	SSA2	0.0246373317	1.6730000000	System constraint
9/4/2019 11:12	0:01	SSA3	0.0248316669	1.8610000000	System constraint
9/4/2019 11:13	0:01	SSA3	0.0237749999	2.2270000000	System constraint
9/4/2019 11:14	0:01	SSA3	0.0253149999	2.8790000000	System constraint
9/4/2019 11:15	0:01	SSA3	0.0282388889	2.4300000000	System constraint
9/4/2019 11:15	0:01	SSA2	0.0144431267	2.0590000000	System constraint
9/4/2019 11:16	0:01	SSA3	0.0282388889	2.0210000000	System constraint
9/4/2019 11:16	0:01	SSA2	0.0144431267	1.8120000000	System constraint
9/4/2019 11:16	0:01	SSA3	0.0288527780	1.8940000000	System constraint
9/4/2019 11:17	0:01	SSA2	0.0144431264	1.5960000000	System constraint
9/4/2019 11:17	0:01	SSA3	0.0282388889	1.7600000000	System constraint
9/4/2019 11:17	0:01	SSA2	0.0144431267	1.4460000000	System constraint
9/4/2019 11:18	0:01	SSA3	0.0282388884	1.1900000000	System constraint
9/4/2019 11:18	0:01	SSA2	0.0144431267	0.8610000000	System constraint
9/4/2019 11:19	0:01	SSA3	0.0276250004	0.6450000000	System constraint
9/4/2019 11:19	0:01	SSA2	0.0138876216	0.2560000000	System constraint
9/4/2019 11:19	0:01	SSA3	0.0276249999	0.3820000000	System constraint
9/4/2019 11:20	0:03	BS250	Data not available	Data not available	System constraint
9/4/2019 11:20	0:03	ESA	Data not available	Data not available	System constraint
9/4/2019 11:20	0:03	ESB	Data not available	Data not available	System constraint
9/4/2019 11:20	0:03	SSA2	0.0433293798	0.0170000000	System constraint
9/4/2019 11:20	0:03	SSA3	0.1123416667	0.0260000000	System constraint
9/4/2019 11:21	0:04	KWPII	0.0246708552	19.1767082214	System constraint
9/4/2019 11:23	0:01	SSA2	0.0144431267	0.0000000000	System constraint
9/4/2019 11:23	0:01	SSA3	0.0282388889	0.0020000000	System constraint
9/4/2019 11:23	0:01	SSA2	0.0144431264	0.0170000000	System constraint
9/4/2019 11:24	0:01	SSA3	0.0276249999	0.2120000000	System constraint
9/4/2019 11:24	0:02	SSA2	0.0288862534	0.1070000000	System constraint
9/4/2019 11:25	0:01	SSA3	0.0282388889	0.5190000000	System constraint
9/4/2019 11:25	0:01	SSA3	0.0282388889	0.6580000000	System constraint
9/4/2019 11:26	0:01	SSA2	0.0144431264	0.2570000000	System constraint
9/4/2019 11:26	0:01	SSA3	0.0282388889	0.4650000000	System constraint
9/4/2019 11:27	0:01	SSA2	0.0144431267	0.1150000000	System constraint
9/4/2019 11:27	0:04	SSA3	0.1361268839	0.1620000000	System constraint
9/4/2019 11:28	0:03	BS250	Data not available	Data not available	System constraint
9/4/2019 11:28	0:03	ESA	Data not available	Data not available	System constraint
9/4/2019 11:28	0:03	ESB	Data not available	Data not available	System constraint
9/4/2019 11:28	0:03	SSA2	0.0659681621	0.0090000000	System constraint
9/4/2019 11:29	0:03	KWPII	0.0474671364	19.1976661682	System constraint
9/4/2019 11:31	0:02	SSA3	0.0505614489	-0.0020000000	System constraint
9/4/2019 11:31	0:01	SSA2	0.0186509541	0.0470000000	System constraint
9/4/2019 11:32	0:01	SSA2	0.0186509545	0.0810000000	System constraint
9/4/2019 11:32	0:01	SSA3	0.0255525605	0.3850000000	System constraint
9/4/2019 11:33	0:01	SSA2	0.0186509545	0.1170000000	System constraint
9/4/2019 11:33	0:02	SSA3	0.0505614489	0.4200000000	System constraint
9/4/2019 11:34	0:01	SSA2	0.0182922821	0.2690000000	System constraint
9/4/2019 11:35	0:01	BS250	Data not available	Data not available	System constraint
9/4/2019 11:35	0:01	ESA	Data not available	Data not available	System constraint
9/4/2019 11:35	0:01	ESB	Data not available	Data not available	System constraint
9/4/2019 11:35	0:01	SSA3	0.0255525605	0.1980000000	System constraint
9/4/2019 11:35	0:01	SSA2	0.0186509541	0.3300000000	System constraint
9/4/2019 11:35	0:01	SSA3	0.0288145891	0.4130000000	System constraint
9/4/2019 11:36	0:01	SSA2	0.0186509545	0.2310000000	System constraint
9/4/2019 11:36	0:01	SSA3	0.0244652172	0.2080000000	System constraint
9/4/2019 11:36	0:01	SSA2	0.0186509545	0.2230000000	System constraint
9/4/2019 11:37	0:01	SSA3	0.0255525605	0.5060000000	System constraint
9/4/2019 11:37	0:01	SSA2	0.0186509541	0.3450000000	System constraint
9/4/2019 11:38	0:01	SSA3	0.0255525600	0.5820000000	System constraint
9/4/2019 11:38	0:01	SSA2	0.0186509545	0.3410000000	System constraint
9/4/2019 11:39	0:01	SSA3	0.0250088888	0.5640000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/4/2019 11:39	0:01	SSA2	0.0186509545	0.4890000000	System constraint
9/4/2019 13:50	0:01	SSA3	0.0025249999	2.8920000000	System constraint
9/4/2019 13:50	0:01	SSA2	0.0014469058	1.7490000000	System constraint
9/4/2019 13:50	0:01	SSA3	0.0025811112	2.6250000000	System constraint
9/4/2019 13:51	0:01	SSA2	0.0014469060	1.3040000000	System constraint
9/4/2019 14:03	0:01	SSA3	0.0009664011	2.8110000000	System constraint
9/4/2019 14:03	0:01	SSA2	0.0058311584	1.9490000000	System constraint
9/4/2019 23:49	1:21	KWP11	7.4599892298	20.7075729370	Oversupply
9/5/2019 1:23	0:51	KWP11	4.0373877366	20.7075729370	Oversupply
9/5/2019 2:22	0:15	KWP11	0.7544528325	20.7075729370	Oversupply
9/5/2019 4:24	0:01	AWE	0.0116666665	0.6999999881	Oversupply
9/5/2019 9:33	0:01	SSA3	0.0034142645	2.2260000000	System constraint
9/5/2019 9:34	0:01	SSA2	0.0018353024	1.9830000000	System constraint
9/5/2019 9:35	0:01	SSA2	0.0018353020	2.0020000000	System constraint
9/5/2019 9:35	0:01	SSA3	0.0033416205	2.2620000000	System constraint
9/5/2019 9:36	0:01	SSA3	0.0034142645	1.6450000000	System constraint
9/5/2019 9:36	0:01	SSA2	0.0018000080	2.0070000000	System constraint
9/5/2019 9:37	0:01	SSA3	0.0034142641	1.5260000000	System constraint
9/5/2019 9:37	0:01	SSA3	0.0032689764	1.8610000000	System constraint
9/5/2019 9:38	0:01	SSA2	0.0018000080	1.6730000000	System constraint
9/5/2019 9:38	0:01	SSA3	0.0034142645	1.6000000000	System constraint
9/5/2019 9:38	0:01	SSA2	0.0018353020	1.5030000000	System constraint
9/5/2019 9:39	0:01	SSA3	0.0034142641	1.7100000000	System constraint
9/5/2019 9:39	0:01	SSA2	0.0018353024	1.5640000000	System constraint
9/5/2019 9:40	0:01	SSA3	0.0033416205	1.5340000000	System constraint
9/5/2019 9:40	0:01	SSA2	0.0018353024	1.7620000000	System constraint
9/5/2019 9:40	0:01	SSA3	0.0034142645	1.9640000000	System constraint
9/5/2019 9:41	0:01	SSA2	0.0018353020	2.0560000000	System constraint
9/5/2019 9:41	0:01	SSA3	0.0034142641	2.0360000000	System constraint
9/5/2019 9:42	0:01	SSA2	0.0018353024	1.8780000000	System constraint
9/5/2019 9:42	0:01	SSA3	0.0032689768	2.0270000000	System constraint
9/5/2019 9:44	0:01	SSA3	0.0034142641	2.0420000000	System constraint
9/5/2019 9:44	0:01	SSA2	0.0018353020	2.0850000000	System constraint
9/5/2019 9:44	0:01	SSA3	0.0062582871	1.7620000000	System constraint
9/5/2019 9:44	0:01	SSA2	0.0040453024	1.5100000000	System constraint
9/5/2019 9:45	0:01	SSA3	0.0093383652	1.6270000000	System constraint
9/5/2019 9:45	0:01	SSA2	0.0064534387	1.5660000000	System constraint
9/5/2019 9:46	0:01	SSA3	0.0093383648	1.7110000000	System constraint
9/5/2019 9:46	0:01	SSA2	0.0064534384	1.6730000000	System constraint
9/5/2019 9:47	0:01	SSA3	0.0091396764	1.6930000000	System constraint
9/5/2019 9:47	0:01	SSA2	0.0064534387	1.7580000000	System constraint
9/5/2019 9:47	0:01	SSA3	0.0103318082	1.8200000000	System constraint
9/5/2019 9:48	0:01	SSA2	0.0064534387	1.4180000000	System constraint
9/5/2019 9:48	0:01	SSA3	0.0093383648	1.3260000000	System constraint
9/5/2019 9:49	0:01	SSA2	0.0063293340	1.4420000000	System constraint
9/5/2019 9:49	0:01	SSA3	0.0091396764	1.6160000000	System constraint
9/5/2019 9:50	0:01	SSA2	0.0064534384	1.6390000000	System constraint
9/5/2019 9:50	0:01	SSA3	0.0093383652	1.5970000000	System constraint
9/5/2019 9:51	0:01	SSA2	0.0064534387	1.3960000000	System constraint
9/5/2019 9:51	0:01	SSA3	0.0093383648	1.5190000000	System constraint
9/5/2019 9:51	0:01	SSA2	0.0064534387	1.6050000000	System constraint
9/5/2019 9:51	0:01	SSA3	0.0091396764	1.7710000000	System constraint
9/5/2019 9:52	0:01	SSA3	0.0093383648	1.6450000000	System constraint
9/5/2019 9:52	0:01	SSA2	0.0064534384	1.8420000000	System constraint
9/5/2019 9:53	0:01	SSA3	0.0093383652	1.7170000000	System constraint
9/5/2019 9:53	0:01	SSA2	0.0064534387	1.7020000000	System constraint
9/5/2019 9:54	0:01	SSA3	0.0091396764	1.6020000000	System constraint
9/5/2019 9:54	0:01	SSA2	0.0064534387	1.5180000000	System constraint
9/5/2019 9:55	0:01	SSA3	0.0093383648	1.2850000000	System constraint
9/5/2019 9:55	0:01	SSA2	0.0064534384	1.1720000000	System constraint
9/5/2019 9:55	0:01	SSA3	0.0093383652	1.3930000000	System constraint
9/5/2019 9:56	0:01	SSA2	0.0064534387	1.1430000000	System constraint
9/5/2019 9:56	0:01	SSA3	0.0099344307	1.5580000000	System constraint
9/5/2019 9:57	0:01	SSA2	0.0064534387	1.8530000000	System constraint
9/5/2019 9:57	0:01	SSA3	0.0089409880	2.0000000000	System constraint
9/5/2019 9:57	0:01	SSA2	0.0064534384	2.1420000000	System constraint
9/5/2019 9:58	0:01	SSA3	0.0091396764	2.2480000000	System constraint
9/5/2019 9:58	0:01	SSA2	0.0064534387	1.8070000000	System constraint
9/5/2019 9:58	0:01	SSA3	0.0093383648	1.7600000000	System constraint
9/5/2019 9:59	0:01	SSA2	0.0118556610	2.0050000000	System constraint
9/5/2019 9:59	0:01	SSA3	0.0135574542	1.9820000000	System constraint
9/5/2019 10:00	0:01	SSA3	0.0168351967	2.1830000000	System constraint
9/5/2019 10:00	0:01	SSA2	0.0166611181	1.5100000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/5/2019 10:01	0:01	SSA3	0.0172011789	1.7200000000	System constraint
9/5/2019 10:01	0:01	SSA2	0.0166611185	1.8250000000	System constraint
9/5/2019 10:02	0:01	SSA3	0.0172011794	2.4540000000	System constraint
9/5/2019 10:03	0:01	SSA3	0.0172011789	2.3250000000	System constraint
9/5/2019 10:04	0:01	SSA2	0.0166611185	1.8510000000	System constraint
9/5/2019 10:04	0:01	SSA3	0.0168351967	2.0230000000	System constraint
9/5/2019 10:04	0:01	SSA2	0.0163407122	1.5250000000	System constraint
9/5/2019 10:05	0:01	SSA3	0.0168351967	1.5710000000	System constraint
9/5/2019 10:05	0:01	SSA2	0.0166611185	1.6430000000	System constraint
9/5/2019 10:05	0:01	SSA3	0.0164692140	1.5830000000	System constraint
9/5/2019 10:06	0:01	SSA2	0.0166611181	1.5410000000	System constraint
9/5/2019 10:06	0:01	SSA3	0.0168351967	1.5570000000	System constraint
9/5/2019 10:07	0:01	SSA3	0.0172011794	1.2900000000	System constraint
9/5/2019 10:07	0:01	SSA2	0.0166611185	1.2570000000	System constraint
9/5/2019 10:08	0:01	SSA3	0.0172011789	0.6890000000	System constraint
9/5/2019 10:08	0:01	SSA2	0.0166611185	0.4880000000	System constraint
9/5/2019 10:08	0:01	SSA3	0.0168351967	0.4660000000	System constraint
9/5/2019 10:09	0:01	SSA2	0.0166611181	0.2920000000	System constraint
9/5/2019 10:09	0:01	SSA3	0.0164692140	0.2610000000	System constraint
9/5/2019 10:10	0:01	BS250	Data not available	Data not available	System constraint
9/5/2019 10:10	0:01	ESA	Data not available	Data not available	System constraint
9/5/2019 10:10	0:01	ESB	Data not available	Data not available	System constraint
9/5/2019 10:10	0:02	SSA2	0.0333222370	0.3160000000	System constraint
9/5/2019 10:10	0:01	SSA3	0.0168351967	0.0500000000	System constraint
9/5/2019 10:11	0:01	SSA3	0.0168351967	0.0110000000	System constraint
9/5/2019 10:11	0:01	SSA2	0.0166611181	-0.0030000000	System constraint
9/5/2019 10:12	0:01	SSA3	0.0172011794	-0.0040000000	System constraint
9/5/2019 10:12	0:01	SSA2	0.0166611185	-0.0030000000	System constraint
9/5/2019 10:12	0:01	SSA3	0.0164692140	-0.0040000000	System constraint
9/5/2019 10:13	0:01	SSA2	0.0166611185	-0.0030000000	System constraint
9/5/2019 10:13	0:01	SSA3	0.0164692140	-0.0040000000	System constraint
9/5/2019 10:14	0:01	SSA3	0.0186289571	-0.0030000000	System constraint
9/5/2019 10:14	0:01	SSA2	0.0216477848	-0.0030000000	System constraint
9/5/2019 10:15	0:01	SSA3	0.0318879037	-0.0030000000	System constraint
9/5/2019 10:15	0:01	SSA2	0.0341092498	-0.0030000000	System constraint
9/5/2019 10:15	0:01	SSA3	0.0312094379	-0.0030000000	System constraint
9/5/2019 10:16	0:01	SSA2	0.0341092498	-0.0030000000	System constraint
9/5/2019 10:16	0:01	SSA3	0.0318879041	0.1140000000	System constraint
9/5/2019 10:17	0:01	SSA2	0.0341092494	0.1580000000	System constraint
9/5/2019 10:17	0:01	SSA3	0.0305309717	0.3790000000	System constraint
9/5/2019 10:17	0:01	SSA2	0.0334533026	0.1200000000	System constraint
9/5/2019 10:18	0:01	SSA3	0.0305309717	0.1070000000	System constraint
9/5/2019 10:18	0:01	SSA2	0.0341092498	0.0340000000	System constraint
9/5/2019 10:18	0:01	SSA3	0.0318879041	0.2010000000	System constraint
9/5/2019 10:19	0:01	SSA2	0.0334533026	0.1410000000	System constraint
9/5/2019 10:19	1:18	SSA3	3.4733427811	0.3090000000	System constraint
9/5/2019 10:20	1:33	BS250	Data not available	Data not available	System constraint
9/5/2019 10:20	1:33	ESA	Data not available	Data not available	System constraint
9/5/2019 10:20	1:33	ESB	Data not available	Data not available	System constraint
9/5/2019 10:20	1:17	SSA2	3.4078315953	0.0050000000	System constraint
9/5/2019 10:22	1:31	KWP11	4.1970013777	19.2106399536	System constraint
9/5/2019 11:37	0:01	SSA3	0.0357374936	0.0100000000	System constraint
9/5/2019 11:37	0:01	SSA2	0.0414555552	0.0020000000	System constraint
9/5/2019 11:38	0:14	SSA3	0.6423729921	0.0570000000	System constraint
9/5/2019 11:38	0:15	SSA2	0.6449138891	0.0020000000	System constraint
9/5/2019 11:52	0:01	SSA3	0.0318677778	0.0320000000	System constraint
9/5/2019 11:53	0:01	SSA2	0.0351000002	0.2430000000	System constraint
9/5/2019 11:53	0:01	SSA3	0.0318677778	0.2070000000	System constraint
9/5/2019 11:53	0:01	SSA2	0.0350999997	0.5330000000	System constraint
9/5/2019 11:54	0:01	SSA3	0.0311750004	0.4190000000	System constraint
9/5/2019 11:54	0:02	SSA2	0.0695250002	0.9010000000	System constraint
9/5/2019 11:54	0:01	SSA3	0.0318677773	0.6150000000	System constraint
9/5/2019 11:55	0:01	SSA3	0.0318677778	0.8520000000	System constraint
9/5/2019 11:56	0:01	SSA3	0.0311750004	0.8910000000	System constraint
9/5/2019 11:56	0:01	SSA2	0.0351000002	0.9500000000	System constraint
9/5/2019 11:57	0:01	SSA3	0.0318677773	1.0790000000	System constraint
9/5/2019 11:57	0:01	SSA2	0.0350999997	1.1590000000	System constraint
9/5/2019 11:57	0:01	SSA3	0.0318677778	1.2480000000	System constraint
9/5/2019 11:58	0:01	SSA2	0.0351000002	1.1230000000	System constraint
9/5/2019 11:58	0:01	SSA3	0.0311750004	1.1140000000	System constraint
9/5/2019 11:59	0:01	SSA2	0.0351000002	1.2180000000	System constraint
9/5/2019 11:59	0:01	SSA3	0.0315638886	1.3250000000	System constraint
9/5/2019 11:59	0:01	SSA2	0.0318222219	0.9740000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/5/2019 12:00	0:01	SSA3	0.0277249999	0.7260000000	System constraint
9/5/2019 12:00	0:01	SSA2	0.0316911113	0.7410000000	System constraint
9/5/2019 12:00	0:01	SSA3	0.0283411112	0.6500000000	System constraint
9/5/2019 12:01	0:01	SSA2	0.0316911113	0.2720000000	System constraint
9/5/2019 12:01	0:01	SSA3	0.0277250004	0.4420000000	System constraint
9/5/2019 12:02	0:01	SSA3	0.0283411107	0.4760000000	System constraint
9/5/2019 12:02	0:01	SSA2	0.0316911108	0.4830000000	System constraint
9/5/2019 12:03	0:01	SSA3	0.0283411112	0.5450000000	System constraint
9/5/2019 12:03	0:01	SSA2	0.0316911113	0.4520000000	System constraint
9/5/2019 12:04	0:01	SSA3	0.0283411112	0.1630000000	System constraint
9/5/2019 12:04	0:01	SSA2	0.0316911113	0.0510000000	System constraint
9/5/2019 12:04	0:01	SSA3	0.0289572225	0.2530000000	System constraint
9/5/2019 12:05	0:01	SSA2	0.0316911108	0.4750000000	System constraint
9/5/2019 12:05	0:01	SSA3	0.0289572220	0.6720000000	System constraint
9/5/2019 12:06	0:01	SSA2	0.0316911113	0.9150000000	System constraint
9/5/2019 12:06	0:01	SSA3	0.0283411112	1.1070000000	System constraint
9/5/2019 12:06	0:01	SSA2	0.0316911113	0.2340000000	System constraint
9/5/2019 12:07	0:01	SSA3	0.0277249999	0.5150000000	System constraint
9/5/2019 12:07	0:01	SSA2	0.0316911108	0.4780000000	System constraint
9/5/2019 12:07	0:01	SSA3	0.0277250004	0.3780000000	System constraint
9/5/2019 12:08	0:01	SSA3	0.0289572220	0.8160000000	System constraint
9/5/2019 12:08	0:01	SSA2	0.0316911113	0.7800000000	System constraint
9/5/2019 12:09	0:01	SSA3	0.0289572225	0.9100000000	System constraint
9/5/2019 12:09	0:01	SSA2	0.0316911113	0.8810000000	System constraint
9/5/2019 12:10	0:01	SSA3	0.0283411112	0.6980000000	System constraint
9/5/2019 12:10	0:02	SSA2	0.0621633333	0.7600000000	System constraint
9/5/2019 12:10	0:01	SSA3	0.0289572220	0.5880000000	System constraint
9/5/2019 12:11	0:01	SSA3	0.0289572225	0.3940000000	System constraint
9/5/2019 12:12	0:01	SSA2	0.0316911108	0.6290000000	System constraint
9/5/2019 12:12	0:01	SSA3	0.0283411112	0.7990000000	System constraint
9/5/2019 12:12	0:01	SSA2	0.0316911113	1.0330000000	System constraint
9/5/2019 12:13	0:01	SSA3	0.0283411112	1.0820000000	System constraint
9/5/2019 12:13	0:01	SSA2	0.0316911113	1.1150000000	System constraint
9/5/2019 12:14	0:01	SSA3	0.0289572220	1.1560000000	System constraint
9/5/2019 12:14	0:02	SSA2	0.0460222221	1.3290000000	System constraint
9/5/2019 12:14	0:01	SSA3	0.0250611112	1.2870000000	System constraint
9/5/2019 12:15	0:01	SSA3	0.0193167348	1.2490000000	System constraint
9/5/2019 12:16	0:01	SSA3	0.0193167352	0.7800000000	System constraint
9/5/2019 12:16	0:01	SSA2	0.0209444446	0.8670000000	System constraint
9/5/2019 12:17	0:01	SSA3	0.0189057407	0.5450000000	System constraint
9/5/2019 12:17	0:01	SSA2	0.0209444441	0.4450000000	System constraint
9/5/2019 12:17	0:01	SSA3	0.0193167348	0.3790000000	System constraint
9/5/2019 12:18	0:01	SSA2	0.0209444446	0.5550000000	System constraint
9/5/2019 12:18	0:01	SSA3	0.0189057407	0.8530000000	System constraint
9/5/2019 12:19	0:01	SSA2	0.0209444446	0.9210000000	System constraint
9/5/2019 12:19	0:01	SSA3	0.0189057407	0.6950000000	System constraint
9/5/2019 12:19	0:01	SSA2	0.0209444441	0.9410000000	System constraint
9/5/2019 12:20	0:01	SSA3	0.0189057407	0.8860000000	System constraint
9/5/2019 12:20	0:01	SSA2	0.0209444446	0.9580000000	System constraint
9/5/2019 12:21	0:01	SSA3	0.0193167352	0.5810000000	System constraint
9/5/2019 12:21	0:01	SSA2	0.0209444446	1.6720000000	System constraint
9/5/2019 12:21	0:01	SSA3	0.0189057407	1.0140000000	System constraint
9/5/2019 12:22	0:01	SSA2	0.0209444441	1.6890000000	System constraint
9/5/2019 12:22	0:01	SSA3	0.0193167348	0.9770000000	System constraint
9/5/2019 12:23	0:02	SSA2	0.0418888892	1.2290000000	System constraint
9/5/2019 12:23	0:01	SSA3	0.0193167352	1.1380000000	System constraint
9/5/2019 12:24	0:01	SSA3	0.0189057402	1.4760000000	System constraint
9/5/2019 12:24	0:01	SSA3	0.0193167352	1.6300000000	System constraint
9/5/2019 12:25	0:01	SSA2	0.0205416666	1.4940000000	System constraint
9/5/2019 12:25	0:01	SSA3	0.0193167348	0.9350000000	System constraint
9/5/2019 12:25	0:01	SSA2	0.0209444441	1.4840000000	System constraint
9/5/2019 12:28	0:01	SSA3	0.0189057407	1.5840000000	System constraint
9/5/2019 12:29	0:01	SSA2	0.0195611113	2.5050000000	System constraint
9/5/2019 12:31	0:01	SSA3	0.0167625996	1.3780000000	System constraint
9/5/2019 12:31	0:01	SSA2	0.0161488891	2.5640000000	System constraint
9/5/2019 12:32	0:01	SSA3	0.0164059484	1.4240000000	System constraint
9/5/2019 12:32	0:01	SSA2	0.0161488891	2.3030000000	System constraint
9/5/2019 12:33	0:01	SSA3	0.0164059484	1.5730000000	System constraint
9/5/2019 12:33	0:01	SSA2	0.0161488886	1.9670000000	System constraint
9/5/2019 12:34	0:01	SSA3	0.0160492972	1.6530000000	System constraint
9/5/2019 12:34	0:01	SSA2	0.0161488891	1.4240000000	System constraint
9/5/2019 12:34	0:01	SSA3	0.0164059484	1.2190000000	System constraint
9/5/2019 12:35	0:01	SSA2	0.0161488891	1.2190000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/5/2019 12:35	0:01	SSA3	0.0164059484	1.2110000000	System constraint
9/5/2019 12:36	0:01	SSA2	0.0161488886	0.7950000000	System constraint
9/5/2019 12:36	0:01	SSA3	0.0160492972	0.8020000000	System constraint
9/5/2019 12:37	0:01	SSA2	0.0161488891	0.7920000000	System constraint
9/5/2019 12:37	0:01	SSA3	0.0164059484	0.8140000000	System constraint
9/5/2019 12:38	0:01	SSA3	0.0167625996	0.5510000000	System constraint
9/5/2019 12:38	0:01	SSA2	0.0161488891	0.4400000000	System constraint
9/5/2019 12:38	0:01	SSA3	0.0164059484	0.6250000000	System constraint
9/5/2019 12:38	0:01	SSA2	0.0161488886	0.8550000000	System constraint
9/5/2019 12:39	0:01	SSA3	0.0164059479	1.0370000000	System constraint
9/5/2019 12:39	0:01	SSA2	0.0155277781	1.3760000000	System constraint
9/5/2019 12:40	0:01	SSA3	0.0164059484	1.4150000000	System constraint
9/5/2019 12:40	0:01	SSA2	0.0161488886	1.8940000000	System constraint
9/5/2019 12:41	0:01	SSA3	0.0160492977	1.9090000000	System constraint
9/5/2019 12:41	0:01	SSA2	0.0161488891	2.1600000000	System constraint
9/5/2019 12:41	0:01	SSA3	0.0164059484	2.4540000000	System constraint
9/5/2019 12:42	0:01	SSA2	0.0161488891	2.4830000000	System constraint
9/5/2019 12:42	0:01	SSA3	0.0164059479	2.3670000000	System constraint
9/5/2019 12:43	0:01	SSA3	0.0160492977	2.2300000000	System constraint
9/5/2019 12:44	0:01	SSA2	0.0161488891	2.1130000000	System constraint
9/5/2019 12:44	0:01	SSA3	0.0164059484	2.0470000000	System constraint
9/5/2019 12:44	0:01	SSA3	0.0129670750	1.9020000000	System constraint
9/5/2019 12:44	0:01	SSA2	0.0156588891	1.9230000000	System constraint
9/5/2019 12:45	0:01	SSA3	0.0145922223	1.3750000000	System constraint
9/5/2019 12:45	0:01	SSA2	0.0156288886	1.3100000000	System constraint
9/5/2019 12:46	0:01	SSA3	0.0145922223	1.2250000000	System constraint
9/5/2019 12:46	0:01	SSA2	0.0156288891	1.2130000000	System constraint
9/5/2019 12:47	0:01	SSA3	0.0142749999	0.9350000000	System constraint
9/5/2019 12:47	0:01	SSA2	0.0156288891	0.7980000000	System constraint
9/5/2019 12:47	0:01	SSA3	0.0145922223	0.7400000000	System constraint
9/5/2019 12:48	0:01	SSA2	0.0156288886	0.8310000000	System constraint
9/5/2019 12:48	0:01	SSA3	0.0145922223	1.0440000000	System constraint
9/5/2019 12:49	0:01	SSA2	0.0156288891	1.4160000000	System constraint
9/5/2019 12:49	0:01	SSA3	0.0142749999	1.3640000000	System constraint
9/5/2019 12:50	0:01	SSA2	0.0156288891	1.1590000000	System constraint
9/5/2019 12:50	0:01	SSA3	0.0145922223	1.0750000000	System constraint
9/5/2019 12:50	0:01	SSA3	0.0145922223	1.3040000000	System constraint
9/5/2019 12:51	0:01	SSA2	0.0156288886	1.3610000000	System constraint
9/5/2019 12:51	0:01	SSA3	0.0142749999	1.2190000000	System constraint
9/5/2019 12:51	0:01	SSA2	0.0156288891	1.3500000000	System constraint
9/5/2019 12:52	0:01	SSA3	0.0145922223	1.2190000000	System constraint
9/5/2019 12:52	0:01	SSA2	0.0156288891	1.2550000000	System constraint
9/5/2019 12:53	0:01	SSA3	0.0142749999	1.5180000000	System constraint
9/5/2019 12:54	0:01	SSA3	0.0145922223	2.0050000000	System constraint
9/5/2019 12:54	0:01	SSA2	0.0156288891	2.4430000000	System constraint
9/5/2019 12:54	0:01	SSA3	0.0145922223	2.3660000000	System constraint
9/5/2019 12:55	0:01	SSA2	0.0153283333	1.7730000000	System constraint
9/5/2019 12:55	0:01	SSA3	0.0142749999	2.4660000000	System constraint
9/5/2019 12:56	0:01	SSA2	0.0156288891	2.5650000000	System constraint
9/5/2019 12:57	0:01	SSA3	0.0142749999	2.8760000000	System constraint
9/5/2019 12:57	0:01	SSA2	0.0156288891	2.8270000000	System constraint
9/5/2019 12:58	0:01	SSA2	0.0156288891	2.5360000000	System constraint
9/5/2019 12:59	0:01	SSA3	0.0147388889	2.4360000000	System constraint
9/5/2019 13:00	0:01	SSA3	0.0019743146	2.4300000000	System constraint
9/5/2019 13:00	0:01	SSA2	0.0062688891	2.7230000000	System constraint
9/5/2019 13:09	0:01	SSA2	0.0062688891	2.6690000000	System constraint
9/5/2019 13:10	0:01	SSA3	0.0020181884	2.0980000000	System constraint
9/5/2019 13:10	0:01	SSA2	0.0062688891	2.7970000000	System constraint
9/5/2019 13:11	0:01	SSA3	0.0020181884	2.3520000000	System constraint
9/5/2019 13:11	0:01	SSA2	0.0062688886	2.7720000000	System constraint
9/5/2019 13:12	0:01	SSA3	0.0020181884	2.6370000000	System constraint
9/5/2019 13:12	0:01	SSA2	0.0062688891	2.4060000000	System constraint
9/5/2019 13:13	0:01	SSA2	0.0062688891	2.3020000000	System constraint
9/5/2019 13:13	0:01	SSA3	0.0020181884	2.5230000000	System constraint
9/6/2019 1:28	0:13	KWP11	0.2638785839	18.2555961609	Oversupply
9/6/2019 1:50	0:03	KWP11	0.0171569983	15.9283647537	Oversupply
9/6/2019 1:54	3:05	KWP11	16.0923222065	18.8553676605	Oversupply
9/6/2019 5:02	0:01	KWP11	0.0049135526	18.1548023224	Oversupply
9/6/2019 5:13	0:01	KWP11	0.0000317891	18.4521942139	Oversupply
9/6/2019 9:48	0:01	SSA3	-0.0004372912	2.3490000000	Oversupply
9/6/2019 9:48	0:01	SSA2	-0.0020981253	1.9130000000	Oversupply
9/6/2019 9:58	0:01	SSA2	-0.0020981253	2.3450000000	Oversupply
9/6/2019 9:59	0:01	SSA3	-0.0004186830	2.4380000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/6/2019 9:59	0:01	SSA2	0.0015618743	2.3290000000	Oversupply
9/6/2019 9:59	0:01	SSA3	0.0008520123	2.4410000000	Oversupply
9/6/2019 10:00	0:01	SSA2	0.0035209690	2.3270000000	Oversupply
9/6/2019 10:00	0:01	SSA3	0.0029895618	2.4500000000	Oversupply
9/6/2019 10:01	0:01	SSA2	0.0035900077	1.9260000000	Oversupply
9/6/2019 10:01	0:02	SSA3	0.0061091044	1.6680000000	Oversupply
9/6/2019 10:02	0:01	SSA2	0.0035900077	2.3220000000	Oversupply
9/6/2019 10:02	0:01	SSA3	0.0029895618	2.1970000000	Oversupply
9/6/2019 10:03	0:01	SSA2	0.0035900074	2.4440000000	Oversupply
9/6/2019 10:03	0:01	SSA3	0.0030545524	1.8460000000	Oversupply
9/6/2019 10:03	0:01	SSA2	0.0035900077	1.8310000000	Oversupply
9/6/2019 10:04	0:01	SSA3	0.0030545520	1.3060000000	Oversupply
9/6/2019 10:05	0:01	SSA3	0.0029245716	1.5620000000	Oversupply
9/6/2019 10:09	0:01	SSA3	0.0030545524	2.5050000000	Oversupply
9/6/2019 10:09	0:01	SSA2	0.0035900077	1.2820000000	Oversupply
9/6/2019 10:20	0:01	SSA2	0.0010115958	2.6680000000	Oversupply
9/6/2019 10:22	0:01	SSA2	0.0010115955	2.6320000000	Oversupply
9/6/2019 10:23	0:01	SSA3	0.0020688246	2.6030000000	Oversupply
9/6/2019 10:23	0:01	SSA2	0.0010115958	2.6810000000	Oversupply
9/6/2019 10:24	0:01	SSA3	0.0019807896	2.6220000000	Oversupply
9/6/2019 10:24	0:01	SSA2	0.0010115955	1.4060000000	Oversupply
9/6/2019 10:25	0:01	SSA3	0.0019807900	1.9690000000	Oversupply
9/6/2019 10:26	0:01	SSA3	0.0020688246	2.3100000000	Oversupply
9/6/2019 10:26	0:01	SSA2	0.0010115958	1.2970000000	Oversupply
9/6/2019 10:26	0:01	SSA3	0.0020688250	2.0540000000	Oversupply
9/6/2019 10:27	0:01	SSA2	0.0010115955	1.4720000000	Oversupply
9/6/2019 10:27	0:01	SSA3	0.0020248073	1.9420000000	Oversupply
9/6/2019 10:28	0:01	SSA2	0.0010115958	0.8480000000	Oversupply
9/6/2019 10:28	0:01	SSA3	0.0022008773	1.8430000000	Oversupply
9/6/2019 10:29	0:01	SSA2	0.0010115958	0.5080000000	Oversupply
9/6/2019 10:29	0:01	SSA3	0.0020248073	1.6710000000	Oversupply
9/6/2019 10:29	0:01	SSA2	0.0246615955	0.7210000000	Oversupply
9/6/2019 10:30	0:01	SSA3	0.0307247486	1.4390000000	Oversupply
9/6/2019 10:30	0:01	SSA2	0.0252631592	1.0440000000	Oversupply
9/6/2019 10:30	0:01	SSA3	0.0313926776	0.9820000000	Oversupply
9/6/2019 10:31	0:01	SSA3	0.0313926781	0.5440000000	Oversupply
9/6/2019 10:31	0:01	SSA2	0.0252631592	0.4630000000	Oversupply
9/6/2019 10:32	0:01	SSA3	0.0307247486	0.4990000000	Oversupply
9/6/2019 10:32	0:01	SSA2	0.0252631589	0.7600000000	Oversupply
9/6/2019 10:33	0:01	SSA3	0.0313926776	0.6150000000	Oversupply
9/6/2019 10:33	0:01	SSA2	0.0252631592	0.2520000000	Oversupply
9/6/2019 10:33	0:01	SSA3	0.0313926781	0.1100000000	Oversupply
9/6/2019 10:34	0:01	SSA2	0.0252631592	0.0370000000	Oversupply
9/6/2019 10:34	0:01	SSA3	0.0300568191	0.1280000000	Oversupply
9/6/2019 10:35	0:01	SSA2	0.0247773291	0.0580000000	Oversupply
9/6/2019 10:35	0:01	SSA3	0.0300568191	0.1690000000	Oversupply
9/6/2019 10:35	0:02	SSA2	0.0500404880	0.0400000000	Oversupply
9/6/2019 10:36	0:01	SSA3	0.0307247486	0.0170000000	Oversupply
9/6/2019 10:36	0:01	SSA3	0.0307247486	0.0130000000	Oversupply
9/6/2019 10:37	0:01	BS250	Data not available	Data not available	Oversupply
9/6/2019 10:37	0:01	ESA	Data not available	Data not available	Oversupply
9/6/2019 10:37	0:01	ESB	Data not available	Data not available	Oversupply
9/6/2019 10:37	0:01	KWPPII	0.0029154460	19.0908851624	Oversupply
9/6/2019 10:37	0:01	SSA2	0.0252631592	0.0070000000	Oversupply
9/6/2019 10:37	0:01	SSA3	0.0313926781	0.0090000000	Oversupply
9/6/2019 10:38	0:01	SSA3	0.0313926776	0.1700000000	Oversupply
9/6/2019 10:38	0:01	SSA2	0.0252631592	0.0840000000	Oversupply
9/6/2019 10:39	0:03	SSA3	0.1235669234	0.3770000000	Oversupply
9/6/2019 10:39	0:03	SSA2	0.0757894773	0.1430000000	Oversupply
9/6/2019 10:40	0:02	BS250	Data not available	Data not available	Oversupply
9/6/2019 10:40	0:02	ESA	Data not available	Data not available	Oversupply
9/6/2019 10:40	0:02	ESB	Data not available	Data not available	Oversupply
9/6/2019 10:41	0:02	KWPPII	0.0134734472	19.1856899261	Oversupply
9/6/2019 10:41	0:01	SSA2	0.0252631589	0.0040000000	Oversupply
9/6/2019 10:42	0:01	SSA3	0.0307247486	0.0960000000	Oversupply
9/6/2019 10:42	0:01	SSA2	0.0252631592	0.0850000000	Oversupply
9/6/2019 10:43	2:01	BS250	Data not available	Data not available	Oversupply
9/6/2019 10:43	2:01	ESA	Data not available	Data not available	Oversupply
9/6/2019 10:43	2:01	ESB	Data not available	Data not available	Oversupply
9/6/2019 10:43	2:01	SSA3	5.7366863619	0.2090000000	Oversupply
9/6/2019 10:43	2:00	SSA2	5.1515606997	0.0010000000	Oversupply
9/6/2019 10:44	2:11	KWPPII	7.9712576866	19.2106399536	Oversupply
9/6/2019 12:44	0:01	SSA2	0.0413977779	0.0070000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/6/2019 12:44	0:08	SSA3	0.3310911113	0.1800000000	Oversupply
9/6/2019 12:44	0:07	SSA2	0.2980888887	0.0630000000	Oversupply
9/6/2019 12:45	0:09	BS250	Data not available	Data not available	Oversupply
9/6/2019 12:45	0:09	ESA	Data not available	Data not available	Oversupply
9/6/2019 12:45	0:09	ESB	Data not available	Data not available	Oversupply
9/6/2019 12:51	0:03	SSA2	0.1115400000	0.1090000000	Oversupply
9/6/2019 12:52	0:02	SSA3	0.0982594444	0.0030000000	Oversupply
9/6/2019 12:54	0:01	SSA3	0.0329922223	0.0190000000	Oversupply
9/6/2019 12:54	0:01	SSA2	0.0371800002	0.0300000000	Oversupply
9/6/2019 12:55	0:01	SSA3	0.0329922223	0.1060000000	Oversupply
9/6/2019 12:55	0:01	SSA2	0.0371800002	0.1650000000	Oversupply
9/6/2019 12:55	0:01	SSA3	0.0329922223	0.4130000000	Oversupply
9/6/2019 12:56	0:01	SSA2	0.0357499998	0.5710000000	Oversupply
9/6/2019 12:56	0:01	SSA3	0.0322749999	0.5700000000	Oversupply
9/6/2019 12:56	0:01	SSA2	0.0371800002	0.8000000000	Oversupply
9/6/2019 12:57	0:01	SSA3	0.0329922223	0.9730000000	Oversupply
9/6/2019 12:57	0:01	SSA2	0.0371799997	1.1990000000	Oversupply
9/6/2019 12:58	0:01	SSA3	0.0329922223	1.3350000000	Oversupply
9/6/2019 12:58	0:01	SSA2	0.0371800002	1.2150000000	Oversupply
9/6/2019 12:58	0:01	SSA3	0.0322749999	1.2800000000	Oversupply
9/6/2019 12:59	0:01	SSA2	0.0271844446	1.1090000000	Oversupply
9/6/2019 12:59	0:01	SSA3	0.0224144445	1.2770000000	Oversupply
9/6/2019 13:00	0:01	SSA2	0.0171888886	1.7620000000	Oversupply
9/6/2019 13:00	0:01	SSA3	0.0156144445	1.6080000000	Oversupply
9/6/2019 13:02	0:01	SSA2	0.0171888891	2.7960000000	Oversupply
9/6/2019 13:02	0:01	SSA3	0.0156144445	2.6150000000	Oversupply
9/6/2019 13:03	0:01	SSA2	0.0171888886	2.4690000000	Oversupply
9/6/2019 13:03	0:01	SSA3	0.0156144445	2.3300000000	Oversupply
9/6/2019 13:03	0:01	SSA2	0.0171888891	2.0440000000	Oversupply
9/6/2019 13:04	0:01	SSA3	0.0152749999	1.9470000000	Oversupply
9/6/2019 13:04	0:01	SSA2	0.0171888891	1.5770000000	Oversupply
9/6/2019 13:05	0:01	SSA3	0.0156144445	1.7320000000	Oversupply
9/6/2019 13:05	0:01	SSA2	0.0171888886	1.6800000000	Oversupply
9/6/2019 13:05	0:01	SSA3	0.0159538886	1.9590000000	Oversupply
9/6/2019 13:06	0:01	SSA2	0.0171888891	1.9460000000	Oversupply
9/6/2019 13:06	0:01	SSA3	0.0156144445	1.9530000000	Oversupply
9/6/2019 13:07	0:01	SSA3	0.0156144445	1.7890000000	Oversupply
9/6/2019 13:07	0:01	SSA2	0.0171888891	1.8200000000	Oversupply
9/6/2019 13:08	0:01	SSA3	0.0152750004	1.6250000000	Oversupply
9/6/2019 13:08	0:01	SSA2	0.0171888886	1.5930000000	Oversupply
9/6/2019 13:08	0:01	SSA3	0.0156144440	1.4460000000	Oversupply
9/6/2019 13:09	0:01	SSA2	0.0171888891	1.6240000000	Oversupply
9/6/2019 13:09	0:01	SSA3	0.0152750004	1.5120000000	Oversupply
9/6/2019 13:09	0:01	SSA2	0.0171888891	1.4800000000	Oversupply
9/6/2019 13:10	0:02	SSA3	0.0312288885	1.2140000000	Oversupply
9/6/2019 13:10	0:01	SSA2	0.0168583333	1.2290000000	Oversupply
9/6/2019 13:11	0:01	SSA2	0.0171888886	1.0620000000	Oversupply
9/6/2019 13:11	0:01	SSA3	0.0152750004	1.1800000000	Oversupply
9/6/2019 13:12	0:01	SSA2	0.0171888891	1.0370000000	Oversupply
9/6/2019 13:12	0:01	SSA3	0.0156144445	1.1690000000	Oversupply
9/6/2019 13:13	0:01	SSA2	0.0171888891	1.1220000000	Oversupply
9/6/2019 13:13	0:01	SSA3	0.0156144445	1.1500000000	Oversupply
9/6/2019 13:14	0:01	SSA3	0.0156144440	1.2310000000	Oversupply
9/6/2019 13:14	0:01	SSA2	0.0158888886	1.4220000000	Oversupply
9/6/2019 13:14	0:01	SSA3	0.0017061115	1.7370000000	Oversupply
9/6/2019 13:15	0:01	SSA2	0.0096777779	1.9930000000	Oversupply
9/6/2019 13:15	0:01	SSA3	0.0010988889	2.1860000000	Oversupply
9/6/2019 13:17	0:01	SSA3	0.0010750004	2.5360000000	Oversupply
9/6/2019 15:43	0:01	SSA3	-0.0017277910	2.1810000000	Oversupply
9/6/2019 15:43	0:01	SSA2	0.0005118492	2.4740000000	Oversupply
9/6/2019 15:43	0:01	SSA3	-0.0016902304	2.1610000000	Oversupply
9/7/2019 2:21	0:07	KWPPII	0.1082399686	19.2106399536	Oversupply
9/7/2019 3:09	0:01	KWPPII	0.0009122213	19.2106399536	Oversupply
9/7/2019 3:20	0:23	KWPPII	0.9175882181	19.2106399536	Oversupply
9/7/2019 4:36	0:17	KWPPII	0.3782103856	19.2106399536	Oversupply
9/7/2019 4:58	0:08	KWPPII	0.0930369377	19.2106399536	Oversupply
9/7/2019 8:10	0:01	SSA2	-0.0006546576	1.2430000000	Oversupply
9/7/2019 8:15	0:01	SSA2	0.0082406963	0.8890000000	Oversupply
9/7/2019 8:15	0:01	SSA3	0.0119824888	1.3090000000	Oversupply
9/7/2019 8:16	0:01	SSA2	0.0082406963	0.8860000000	Oversupply
9/7/2019 8:16	0:01	SSA3	0.0122429780	1.2870000000	Oversupply
9/7/2019 8:17	0:01	SSA3	0.0117220000	0.6470000000	Oversupply
9/7/2019 8:17	0:01	SSA2	0.0082406962	0.5550000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/7/2019 8:17	0:01	SSA3	0.0119824890	0.5490000000	Oversupply
9/7/2019 8:17	0:01	SSA2	0.0082406963	0.3750000000	Oversupply
9/7/2019 8:18	0:01	SSA3	0.0119824890	0.5260000000	Oversupply
9/7/2019 8:18	0:01	SSA2	0.0082406963	0.2230000000	Oversupply
9/7/2019 8:19	0:01	SSA3	0.0117220000	0.5620000000	Oversupply
9/7/2019 8:19	0:01	SSA2	0.0082406962	0.1870000000	Oversupply
9/7/2019 8:20	0:01	SSA3	0.0119824890	0.9900000000	Oversupply
9/7/2019 8:20	0:01	SSA2	0.0079237465	0.4920000000	Oversupply
9/7/2019 8:20	0:01	SSA3	0.0119824890	0.9110000000	Oversupply
9/7/2019 8:21	0:01	SSA2	0.0082406962	0.3670000000	Oversupply
9/7/2019 8:21	0:01	SSA3	0.0117220000	0.5730000000	Oversupply
9/7/2019 8:22	0:01	SSA2	0.0082406963	0.0800000000	Oversupply
9/7/2019 8:22	0:01	SSA3	0.0122429780	0.1690000000	Oversupply
9/7/2019 8:23	0:01	BS250	Data not available	Data not available	Oversupply
9/7/2019 8:23	0:01	ESA	Data not available	Data not available	Oversupply
9/7/2019 8:23	0:01	ESB	Data not available	Data not available	Oversupply
9/7/2019 8:23	0:01	SSA2	0.0082406963	0.0200000000	Oversupply
9/7/2019 8:23	0:01	SSA3	0.0122429778	0.1350000000	Oversupply
9/7/2019 8:23	0:01	SSA3	0.0119824890	0.0140000000	Oversupply
9/7/2019 8:23	6:22	SSA2	14.7689789497	0.0430000000	Oversupply
9/7/2019 8:24	6:22	SSA3	16.0002970841	0.0030000000	Oversupply
9/7/2019 8:25	6:20	BS250	Data not available	Data not available	Oversupply
9/7/2019 8:25	6:20	ESA	Data not available	Data not available	Oversupply
9/7/2019 8:25	6:20	ESB	Data not available	Data not available	Oversupply
9/7/2019 8:26	6:25	KWPPII	75.9565978408	19.2106399536	Oversupply
9/7/2019 10:38	0:03	AWE	0.0217192332	20.7999992371	Oversupply
9/7/2019 10:42	0:02	AWE	0.0172708829	20.6999988556	Oversupply
9/7/2019 10:45	0:08	AWE	0.0733661970	20.7999992371	Oversupply
9/7/2019 10:54	0:03	AWE	0.0251184146	20.7999992371	Oversupply
9/7/2019 10:58	0:02	AWE	0.0170818329	20.6999988556	Oversupply
9/7/2019 11:01	0:02	AWE	0.0076632500	20.7999992371	Oversupply
9/7/2019 12:01	0:06	AWE	0.0346469561	20.6999988556	Oversupply
9/7/2019 12:08	0:03	AWE	0.0230684916	20.6999988556	Oversupply
9/7/2019 12:12	0:01	AWE	0.0037577311	20.6999988556	Oversupply
9/7/2019 12:15	0:01	AWE	0.0060596784	20.6000003815	Oversupply
9/7/2019 12:17	0:01	AWE	0.0043049177	20.6000003815	Oversupply
9/7/2019 12:21	0:01	AWE	0.0080163002	20.6000003815	Oversupply
9/7/2019 14:45	0:01	SSA2	0.0334822219	0.1630000000	Oversupply
9/7/2019 14:46	0:05	BS250	Data not available	Data not available	Oversupply
9/7/2019 14:46	0:05	ESA	Data not available	Data not available	Oversupply
9/7/2019 14:46	0:05	ESB	Data not available	Data not available	Oversupply
9/7/2019 14:46	0:02	SSA3	0.0584641556	0.0040000000	Oversupply
9/7/2019 14:46	0:03	SSA2	0.1004466667	0.0220000000	Oversupply
9/7/2019 14:48	0:02	SSA3	0.0588878093	0.0080000000	Oversupply
9/7/2019 14:49	0:02	SSA2	0.0669644448	0.0050000000	Oversupply
9/7/2019 14:50	0:01	SSA2	0.0334822219	0.0000000000	Oversupply
9/7/2019 14:50	0:01	SSA3	0.0199117051	0.0110000000	Oversupply
9/7/2019 14:51	0:01	SSA2	0.0321944447	0.1000000000	Oversupply
9/7/2019 14:51	0:01	SSA3	0.0194880520	0.1100000000	Oversupply
9/7/2019 14:52	0:01	SSA3	0.0199117051	0.1230000000	Oversupply
9/7/2019 14:52	0:01	SSA2	0.0334822219	0.1150000000	Oversupply
9/7/2019 14:53	0:01	SSA3	0.0190643989	0.1350000000	Oversupply
9/7/2019 14:53	0:01	SSA2	0.0334822224	0.1480000000	Oversupply
9/7/2019 14:53	0:01	SSA3	0.0190643985	0.1420000000	Oversupply
9/7/2019 14:54	0:01	SSA2	0.0334822224	0.1430000000	Oversupply
9/7/2019 14:54	0:01	SSA3	0.0199117054	0.1750000000	Oversupply
9/7/2019 14:55	0:01	SSA2	0.0334822219	0.3870000000	Oversupply
9/7/2019 14:55	0:01	SSA3	0.0194880516	0.4810000000	Oversupply
9/7/2019 14:55	0:01	SSA2	0.0334822224	0.8090000000	Oversupply
9/7/2019 14:57	0:01	SSA3	0.0194880520	1.1270000000	Oversupply
9/8/2019 2:04	0:02	KWPPII	0.0024015745	19.0888881683	Oversupply
9/8/2019 2:12	0:01	KWPPII	0.0039019903	18.5330276489	Oversupply
9/8/2019 2:28	0:03	KWPPII	0.0080053329	18.4252490997	Oversupply
9/8/2019 2:40	0:09	KWPPII	0.0979356448	18.5020904541	Oversupply
9/8/2019 2:51	1:42	KWPPII	1.8938243230	19.1986637115	Oversupply
9/8/2019 7:58	0:01	SSA2	0.0017741490	0.6680000000	Oversupply
9/8/2019 7:58	0:01	SSA3	-0.0002220766	1.0450000000	Oversupply
9/8/2019 7:59	0:01	SSA3	0.0018753179	1.0720000000	Oversupply
9/8/2019 8:00	0:01	SSA2	0.0031098769	0.7180000000	Oversupply
9/8/2019 8:03	0:01	SSA3	0.0045127092	1.0620000000	Oversupply
9/8/2019 8:03	0:01	SSA3	0.0045127092	1.0600000000	Oversupply
9/8/2019 8:04	0:01	SSA2	0.0031708550	0.7440000000	Oversupply
9/8/2019 8:04	0:01	SSA3	0.0044146068	0.9000000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/8/2019 8:05	0:01	SSA3	0.0044146068	0.7540000000	Oversupply
9/8/2019 8:06	0:01	SSA3	0.0046108117	0.8850000000	Oversupply
9/8/2019 8:06	0:01	SSA2	0.0031708548	0.7690000000	Oversupply
9/8/2019 8:06	0:01	SSA3	0.0044146068	0.7630000000	Oversupply
9/8/2019 8:07	0:01	SSA2	0.0031708550	0.6100000000	Oversupply
9/8/2019 8:07	0:01	SSA3	0.0045127092	0.5780000000	Oversupply
9/8/2019 8:07	0:01	SSA2	0.0031708550	0.4700000000	Oversupply
9/8/2019 8:08	0:01	SSA3	0.0044146068	0.4310000000	Oversupply
9/8/2019 8:10	0:01	SSA2	0.0031708550	0.8860000000	Oversupply
9/8/2019 8:10	0:01	SSA3	0.0045127092	1.0210000000	Oversupply
9/8/2019 8:11	0:01	SSA3	0.0045127092	0.5850000000	Oversupply
9/8/2019 8:11	0:01	SSA2	0.0031708548	0.6710000000	Oversupply
9/8/2019 8:12	0:02	SSA3	0.0089273160	0.3750000000	Oversupply
9/8/2019 8:12	0:01	SSA2	0.0031708550	0.3200000000	Oversupply
9/8/2019 8:13	0:01	SSA2	0.0031708550	0.4500000000	Oversupply
9/8/2019 8:13	0:01	SSA3	0.0045127092	0.5910000000	Oversupply
9/8/2019 8:13	0:01	SSA2	0.0031708548	0.3870000000	Oversupply
9/8/2019 8:14	0:01	SSA3	0.0067982648	0.5470000000	Oversupply
9/8/2019 8:14	0:01	SSA2	0.0092386327	0.3280000000	Oversupply
9/8/2019 8:15	0:01	SSA3	0.0165558968	0.4920000000	Oversupply
9/8/2019 8:15	0:01	SSA2	0.0132863966	0.2880000000	Oversupply
9/8/2019 8:15	0:01	SSA3	0.0161959859	0.4210000000	Oversupply
9/8/2019 8:16	3:34	SSA2	6.0040558056	0.1660000000	Oversupply
9/8/2019 8:16	3:34	SSA3	8.2009722220	0.0610000000	Oversupply
9/8/2019 8:17	3:33	BS250	Data not available	Data not available	Oversupply
9/8/2019 8:17	3:33	ESA	Data not available	Data not available	Oversupply
9/8/2019 8:17	3:33	ESB	Data not available	Data not available	Oversupply
9/8/2019 8:18	3:33	KWPPII	42.6344090273	19.2106399536	Oversupply
9/8/2019 11:11	0:01	AWE	0.0023302714	20.6000003815	Oversupply
9/8/2019 11:18	0:20	AWE	0.2461251577	20.6999988556	Oversupply
9/8/2019 11:42	0:05	AWE	0.0391135852	20.6999988556	Oversupply
9/8/2019 11:50	0:01	SSA3	0.0359566662	0.0080000000	Oversupply
9/8/2019 11:50	0:01	SSA2	0.0287283199	0.0050000000	Oversupply
9/8/2019 11:51	0:01	SSA3	0.0367383336	0.3200000000	Oversupply
9/8/2019 11:51	0:01	SSA2	0.0287283195	0.4830000000	Oversupply
9/8/2019 11:51	0:01	SSA3	0.0367383331	0.5390000000	Oversupply
9/8/2019 11:52	0:01	SSA2	0.0287283199	0.9520000000	Oversupply
9/8/2019 11:52	0:36	BS250	Data not available	Data not available	Oversupply
9/8/2019 11:52	0:36	ESA	Data not available	Data not available	Oversupply
9/8/2019 11:52	0:36	ESB	Data not available	Data not available	Oversupply
9/8/2019 11:52	0:35	SSA3	1.6695416670	0.2520000000	Oversupply
9/8/2019 11:52	0:35	SSA2	1.3048194285	0.8090000000	Oversupply
9/8/2019 11:53	0:36	KWPPII	3.8561250369	19.2106399536	Oversupply
9/8/2019 12:27	0:01	SSA3	0.0365700001	0.0050000000	Oversupply
9/8/2019 12:28	0:01	SSA2	0.0253696305	0.0060000000	Oversupply
9/8/2019 12:28	0:01	SSA3	0.0357749999	0.0320000000	Oversupply
9/8/2019 12:29	0:01	SSA3	0.0365700001	0.1130000000	Oversupply
9/8/2019 12:29	0:01	SSA2	0.0249918524	0.3730000000	Oversupply
9/8/2019 12:29	0:01	SSA3	0.0301283332	0.2450000000	Oversupply
9/8/2019 12:30	0:01	SSA2	0.0185665541	0.3740000000	Oversupply
9/8/2019 12:30	0:01	SSA3	0.0303855556	0.4360000000	Oversupply
9/8/2019 12:30	0:01	SSA2	0.0185665541	0.5580000000	Oversupply
9/8/2019 12:31	0:01	SSA3	0.0303855556	0.6800000000	Oversupply
9/8/2019 12:31	0:01	SSA2	0.0182095049	0.6080000000	Oversupply
9/8/2019 12:32	0:01	SSA3	0.0297249999	0.6450000000	Oversupply
9/8/2019 12:32	0:01	SSA2	0.0185665538	0.5980000000	Oversupply
9/8/2019 12:32	0:01	SSA3	0.0303855556	0.5350000000	Oversupply
9/8/2019 12:33	0:01	SSA2	0.0185665541	0.5050000000	Oversupply
9/8/2019 12:33	0:01	SSA3	0.0303855556	0.6750000000	Oversupply
9/8/2019 12:34	0:02	BS250	Data not available	Data not available	Oversupply
9/8/2019 12:34	0:02	ESA	Data not available	Data not available	Oversupply
9/8/2019 12:34	0:02	ESB	Data not available	Data not available	Oversupply
9/8/2019 12:34	0:01	SSA2	0.0185665541	0.2850000000	Oversupply
9/8/2019 12:34	0:02	SSA3	0.0601105555	0.1060000000	Oversupply
9/8/2019 12:35	0:01	SSA2	0.0185665538	0.1550000000	Oversupply
9/8/2019 12:36	0:02	SSA3	0.0601105555	0.1430000000	Oversupply
9/8/2019 12:36	0:01	SSA2	0.0185665541	0.1360000000	Oversupply
9/8/2019 12:36	0:01	SSA2	0.0185665541	0.3080000000	Oversupply
9/8/2019 12:37	0:01	SSA3	0.0303855556	0.9530000000	Oversupply
9/8/2019 12:37	0:01	SSA2	0.0182095049	0.4060000000	Oversupply
9/8/2019 12:38	0:01	SSA3	0.0297249999	0.9320000000	Oversupply
9/8/2019 12:38	0:01	SSA2	0.0189236030	0.5620000000	Oversupply
9/8/2019 12:39	0:01	SSA3	0.0310461114	0.7770000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/8/2019 12:39	0:01	SSA2	0.0182095049	0.5930000000	Oversupply
9/8/2019 12:39	0:01	SSA3	0.0297249999	1.1240000000	Oversupply
9/8/2019 12:40	0:01	SSA2	0.0185665541	0.9210000000	Oversupply
9/8/2019 12:40	0:01	SSA3	0.0297249999	1.1040000000	Oversupply
9/8/2019 12:41	0:01	SSA2	0.0185665538	0.7290000000	Oversupply
9/8/2019 12:41	0:05	SSA3	0.2100216867	0.5740000000	Oversupply
9/8/2019 12:42	0:07	BS250	Data not available	Data not available	Oversupply
9/8/2019 12:42	0:07	ESA	Data not available	Data not available	Oversupply
9/8/2019 12:42	0:07	ESB	Data not available	Data not available	Oversupply
9/8/2019 12:42	0:06	SSA2	0.1410695069	0.1030000000	Oversupply
9/8/2019 12:43	0:04	KWPPII	0.0370879491	19.1896820068	Oversupply
9/8/2019 12:46	0:01	SSA3	0.0300488501	0.0050000000	Oversupply
9/8/2019 12:47	0:01	SSA3	0.0293956141	0.0370000000	Oversupply
9/8/2019 12:48	0:01	SSA3	0.0293956146	0.1410000000	Oversupply
9/8/2019 12:48	0:01	SSA2	0.0216606884	0.0860000000	Oversupply
9/8/2019 12:48	0:01	SSA3	0.0300488501	0.2730000000	Oversupply
9/8/2019 12:49	0:01	SSA2	0.0216606884	0.0720000000	Oversupply
9/8/2019 12:49	0:01	SSA3	0.0300488497	0.5510000000	Oversupply
9/8/2019 12:49	0:01	SSA2	0.0216606881	0.4200000000	Oversupply
9/8/2019 12:50	0:02	SSA3	0.0587912287	0.8490000000	Oversupply
9/8/2019 12:50	0:01	SSA2	0.0216606884	0.7170000000	Oversupply
9/8/2019 12:51	0:01	SSA2	0.0216606884	0.7990000000	Oversupply
9/8/2019 12:51	0:13	SSA3	0.4733000604	0.7840000000	Oversupply
9/8/2019 12:52	0:13	BS250	Data not available	Data not available	Oversupply
9/8/2019 12:52	0:13	ESA	Data not available	Data not available	Oversupply
9/8/2019 12:52	0:13	ESB	Data not available	Data not available	Oversupply
9/8/2019 12:52	0:13	SSA2	0.2650304109	0.2020000000	Oversupply
9/8/2019 12:53	0:13	KWPPII	0.5849433263	19.1647338867	Oversupply
9/8/2019 13:04	0:01	SSA3	0.0252744445	0.0170000000	Oversupply
9/8/2019 13:05	0:01	SSA2	0.0120691805	0.1610000000	Oversupply
9/8/2019 13:05	0:01	SSA3	0.0258238891	0.0180000000	Oversupply
9/8/2019 13:06	0:01	SSA2	0.0120691805	0.0540000000	Oversupply
9/8/2019 13:06	0:01	SSA3	0.0247249999	0.0940000000	Oversupply
9/8/2019 13:07	0:01	SSA3	0.0252744445	0.1060000000	Oversupply
9/8/2019 13:07	0:01	SSA2	0.0120691803	0.2050000000	Oversupply
9/8/2019 13:07	0:01	SSA3	0.0247249999	0.4490000000	Oversupply
9/8/2019 13:08	0:01	SSA2	0.0120691805	0.5600000000	Oversupply
9/8/2019 13:08	0:01	SSA3	0.0252744445	0.7880000000	Oversupply
9/8/2019 13:08	0:01	SSA2	0.0120691805	0.8970000000	Oversupply
9/8/2019 13:09	0:01	SSA3	0.0252744445	1.2530000000	Oversupply
9/8/2019 13:09	0:01	SSA2	0.0120691803	0.9050000000	Oversupply
9/8/2019 13:13	0:01	SSA3	0.0247249999	2.5880000000	Oversupply
9/8/2019 13:13	0:01	SSA2	0.0120691805	1.1300000000	Oversupply
9/8/2019 13:28	0:01	SSA3	0.0017771855	2.6590000000	Oversupply
9/8/2019 13:28	0:01	SSA2	0.0004234653	1.1010000000	Oversupply
9/8/2019 13:29	0:01	SSA3	0.0023224868	2.6330000000	Oversupply
9/8/2019 13:29	0:01	SSA2	0.0008034655	1.1880000000	Oversupply
9/8/2019 13:30	0:01	SSA3	0.0100944440	1.9580000000	Oversupply
9/8/2019 13:30	0:01	SSA2	0.0044972892	0.7740000000	Oversupply
9/8/2019 13:30	0:01	SSA3	0.0100944445	1.3580000000	Oversupply
9/8/2019 13:31	0:01	SSA2	0.0043243163	0.2390000000	Oversupply
9/8/2019 13:31	0:01	SSA3	0.0098750004	1.3080000000	Oversupply
9/8/2019 13:32	0:01	SSA2	0.0044972892	0.5110000000	Oversupply
9/8/2019 13:32	0:01	SSA3	0.0100944440	1.7060000000	Oversupply
9/8/2019 13:33	0:01	SSA3	0.0103138891	2.2030000000	Oversupply
9/8/2019 13:33	0:01	SSA2	0.0044972889	1.0870000000	Oversupply
9/8/2019 13:33	0:01	SSA3	0.0103138891	2.0120000000	Oversupply
9/8/2019 13:34	0:01	SSA2	0.0044972892	0.8760000000	Oversupply
9/8/2019 13:34	0:01	SSA3	0.0100944440	1.8220000000	Oversupply
9/8/2019 13:34	0:01	SSA2	0.0044972892	0.9840000000	Oversupply
9/8/2019 13:35	0:01	SSA3	0.0098750004	1.4390000000	Oversupply
9/8/2019 13:35	0:01	SSA2	0.0044972889	1.1000000000	Oversupply
9/8/2019 13:36	0:01	SSA3	0.0103138886	1.8510000000	Oversupply
9/8/2019 13:36	0:01	SSA2	0.0044972892	1.1470000000	Oversupply
9/8/2019 13:42	0:01	SSA3	0.0098750004	2.9350000000	Oversupply
9/8/2019 13:42	0:01	SSA2	0.0044972892	1.0350000000	Oversupply
9/8/2019 13:43	0:01	SSA3	0.0100944445	2.3740000000	Oversupply
9/8/2019 13:43	0:01	SSA2	0.0044972889	0.6080000000	Oversupply
9/8/2019 13:43	0:01	SSA3	0.0098749999	1.7680000000	Oversupply
9/8/2019 13:44	0:02	BS250	Data not available	Data not available	Oversupply
9/8/2019 13:44	0:02	ESA	Data not available	Data not available	Oversupply
9/8/2019 13:44	0:02	ESB	Data not available	Data not available	Oversupply
9/8/2019 13:44	0:02	SSA2	0.0373054644	0.1290000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/8/2019 13:44	0:01	SSA3	0.0189366667	1.2860000000	Oversupply
9/8/2019 13:45	0:01	SSA3	0.0171562571	0.7390000000	Oversupply
9/8/2019 13:46	0:01	SSA3	0.0167832949	0.4170000000	Oversupply
9/8/2019 13:46	0:01	SSA2	0.0296526193	0.0280000000	Oversupply
9/8/2019 13:46	0:01	SSA3	0.0167832949	0.4560000000	Oversupply
9/8/2019 13:47	0:01	SSA2	0.0285121344	0.1000000000	Oversupply
9/8/2019 13:47	0:01	SSA3	0.0171562571	0.8730000000	Oversupply
9/8/2019 13:47	0:01	SSA2	0.0296526193	0.1460000000	Oversupply
9/8/2019 13:48	0:01	SSA3	0.0171562571	1.4170000000	Oversupply
9/8/2019 13:48	0:01	SSA2	0.0296526197	0.1470000000	Oversupply
9/8/2019 13:49	0:01	SSA3	0.0167832949	1.9520000000	Oversupply
9/8/2019 13:50	0:01	SSA2	0.0296526193	0.1680000000	Oversupply
9/8/2019 13:50	0:01	SSA3	0.0171562571	1.6190000000	Oversupply
9/8/2019 13:51	0:01	SSA2	0.0296526197	0.3310000000	Oversupply
9/8/2019 13:51	0:01	SSA3	0.0167832949	1.2530000000	Oversupply
9/8/2019 13:52	0:01	SSA3	0.0171562571	0.2240000000	Oversupply
9/8/2019 13:52	0:01	SSA2	0.0296526197	0.4920000000	Oversupply
9/8/2019 13:52	0:01	SSA3	0.0167832949	0.5790000000	Oversupply
9/8/2019 13:53	0:01	SSA2	0.0296526193	0.5930000000	Oversupply
9/8/2019 13:53	0:01	SSA3	0.0171562571	0.1840000000	Oversupply
9/8/2019 13:53	0:01	SSA2	0.0296526197	0.7480000000	Oversupply
9/8/2019 13:54	0:01	SSA3	0.0171562571	0.4090000000	Oversupply
9/8/2019 13:54	0:01	SSA2	0.0296526197	1.0250000000	Oversupply
9/8/2019 13:55	0:01	SSA3	0.0167832952	0.4640000000	Oversupply
9/8/2019 13:55	0:01	SSA2	0.0296526193	0.7610000000	Oversupply
9/8/2019 13:56	0:01	SSA3	0.0171562568	0.3000000000	Oversupply
9/8/2019 13:56	0:01	SSA2	0.0296526197	0.6330000000	Oversupply
9/8/2019 13:56	0:01	SSA3	0.0167832952	0.2890000000	Oversupply
9/8/2019 13:57	0:01	BS250	Data not available	Data not available	Oversupply
9/8/2019 13:57	0:01	ESA	Data not available	Data not available	Oversupply
9/8/2019 13:57	0:01	ESB	Data not available	Data not available	Oversupply
9/8/2019 13:57	0:01	SSA2	0.0296526197	0.7460000000	Oversupply
9/8/2019 13:57	0:01	SSA3	0.0171562571	0.0160000000	Oversupply
9/8/2019 13:58	0:01	KWP11	0.0111401558	19.0449790955	Oversupply
9/8/2019 13:58	0:01	SSA2	0.0296526193	0.0770000000	Oversupply
9/8/2019 13:58	0:01	SSA3	0.0171562568	0.0280000000	Oversupply
9/8/2019 13:59	0:01	SSA3	0.0171562571	0.0100000000	Oversupply
9/8/2019 13:59	0:01	SSA2	0.0290415086	0.1860000000	Oversupply
9/8/2019 13:59	0:01	SSA3	0.0116762571	0.1090000000	Oversupply
9/8/2019 14:00	0:01	SSA2	0.0072896603	0.4560000000	Oversupply
9/8/2019 14:00	0:01	SSA2	0.0072896600	0.7920000000	Oversupply
9/8/2019 14:01	0:01	SSA2	0.0071494744	0.7750000000	Oversupply
9/8/2019 14:02	0:01	SSA3	0.0108762546	0.1470000000	Oversupply
9/8/2019 14:02	0:01	SSA2	0.0072896603	0.9060000000	Oversupply
9/8/2019 14:02	0:01	SSA3	0.0113596436	0.1480000000	Oversupply
9/8/2019 14:03	0:01	SSA2	0.0072896603	0.8280000000	Oversupply
9/8/2019 14:03	0:01	SSA3	0.0113596440	0.4230000000	Oversupply
9/8/2019 14:12	0:01	SSA3	0.0111179493	2.8910000000	Oversupply
9/8/2019 14:12	0:01	SSA3	0.0111179490	2.6880000000	Oversupply
9/8/2019 14:13	0:01	SSA2	0.0072896600	2.7250000000	Oversupply
9/8/2019 14:13	0:01	SSA3	0.0108762550	2.7620000000	Oversupply
9/8/2019 14:13	0:01	SSA2	0.0072896603	2.8520000000	Oversupply
9/8/2019 14:14	0:01	SSA3	0.0075779493	2.7890000000	Oversupply
9/8/2019 14:59	0:01	SSA3	0.0070367035	2.5530000000	Oversupply
9/8/2019 14:59	0:01	SSA2	0.0160001435	2.9010000000	Oversupply
9/8/2019 15:00	0:01	SSA3	0.0208103527	2.8040000000	Oversupply
9/8/2019 15:00	0:01	SSA2	0.0188910986	2.4020000000	Oversupply
9/8/2019 15:01	0:01	SSA3	0.0212728052	1.9790000000	Oversupply
9/8/2019 15:01	0:01	SSA2	0.0188910990	1.7780000000	Oversupply
9/8/2019 15:01	0:01	SSA3	0.0212728052	1.5800000000	Oversupply
9/8/2019 15:02	0:01	SSA2	0.0181645180	1.2710000000	Oversupply
9/8/2019 15:03	0:01	SSA2	0.0188910990	1.6890000000	Oversupply
9/8/2019 15:03	0:01	SSA3	0.0212728052	1.2000000000	Oversupply
9/8/2019 15:04	0:01	SSA2	0.0188910990	1.4310000000	Oversupply
9/8/2019 15:04	0:01	SSA3	0.0208103527	1.3170000000	Oversupply
9/8/2019 15:04	0:01	SSA3	0.0208103527	1.5160000000	Oversupply
9/8/2019 15:04	0:01	SSA2	0.0188910986	1.2940000000	Oversupply
9/8/2019 15:05	0:01	SSA3	0.0212728052	1.5770000000	Oversupply
9/8/2019 15:05	0:01	SSA2	0.0188910990	1.1870000000	Oversupply
9/8/2019 15:06	0:01	SSA3	0.0212728052	1.4010000000	Oversupply
9/8/2019 15:06	0:01	SSA2	0.0188910990	1.2580000000	Oversupply
9/8/2019 15:07	0:01	BS250	Data not available	Data not available	Oversupply
9/8/2019 15:07	0:01	ESA	Data not available	Data not available	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/8/2019 15:07	0:01	ESB	Data not available	Data not available	Oversupply
9/8/2019 15:07	0:01	SSA3	0.0208103527	0.8590000000	Oversupply
9/8/2019 15:07	0:01	SSA2	0.0188910986	0.6540000000	Oversupply
9/8/2019 15:07	0:02	SSA3	0.0420831584	0.3630000000	Oversupply
9/8/2019 15:08	0:01	SSA2	0.0188910990	0.0310000000	Oversupply
9/8/2019 15:09	0:01	SSA2	0.0188910990	0.0560000000	Oversupply
9/8/2019 15:09	0:01	SSA3	0.0212728052	0.0560000000	Oversupply
9/8/2019 15:10	0:01	SSA2	0.0188910986	0.0830000000	Oversupply
9/8/2019 15:10	0:01	SSA3	0.0212728048	0.0280000000	Oversupply
9/8/2019 15:10	0:01	SSA3	0.0217352576	0.0920000000	Oversupply
9/8/2019 15:10	0:01	SSA2	0.0188910990	0.3660000000	Oversupply
9/8/2019 15:11	0:01	SSA3	0.0217352572	0.1020000000	Oversupply
9/8/2019 15:11	0:01	SSA2	0.0188910990	0.5360000000	Oversupply
9/8/2019 15:12	0:01	SSA3	0.0212728052	0.1420000000	Oversupply
9/8/2019 15:12	0:01	SSA2	0.0188910986	0.8120000000	Oversupply
9/8/2019 15:13	0:01	SSA3	0.0217352576	0.1580000000	Oversupply
9/8/2019 15:13	0:01	SSA2	0.0188910990	0.8360000000	Oversupply
9/8/2019 15:14	0:01	SSA3	0.0217352572	0.1580000000	Oversupply
9/8/2019 15:14	0:01	SSA2	0.0124110990	1.9100000000	Oversupply
9/8/2019 15:14	0:01	SSA3	0.0192116941	0.3780000000	Oversupply
9/8/2019 15:15	0:01	SSA2	-0.0017622323	1.9110000000	Oversupply
9/8/2019 15:15	0:01	SSA3	0.0044031003	0.7010000000	Oversupply
9/8/2019 15:16	0:01	SSA2	-0.0017622319	2.0650000000	Oversupply
9/9/2019 0:25	4:17	KWP/II	12.3537760576	19.2106399536	Oversupply
9/9/2019 7:54	0:01	SSA3	0.0009319860	0.9930000000	System constraint
9/9/2019 7:54	0:01	SSA2	0.0020432668	0.5660000000	System constraint
9/9/2019 7:56	0:01	SSA3	0.0009522464	1.0200000000	System constraint
9/9/2019 7:56	0:01	SSA2	0.0020432666	0.2790000000	System constraint
9/9/2019 7:58	0:01	SSA3	0.0009522466	0.8700000000	System constraint
9/9/2019 7:58	0:01	SSA2	0.0019646796	0.6670000000	System constraint
9/9/2019 7:58	0:01	SSA3	0.0009927675	0.5310000000	System constraint
9/9/2019 7:59	0:01	SSA2	0.0020877111	0.4710000000	System constraint
9/9/2019 7:59	0:01	SSA3	0.0025917255	0.5390000000	System constraint
9/9/2019 8:00	0:01	SSA2	0.0053562821	0.5820000000	System constraint
9/9/2019 8:00	0:01	SSA3	0.0066341102	0.8890000000	System constraint
9/9/2019 8:01	0:01	SSA2	0.0053562821	0.4260000000	System constraint
9/9/2019 8:01	0:01	SSA3	0.0066341100	0.2530000000	System constraint
9/9/2019 8:01	0:01	SSA3	0.0064898905	0.4670000000	System constraint
9/9/2019 8:02	0:01	SSA2	0.0053562819	0.1470000000	System constraint
9/9/2019 8:02	0:01	SSA3	0.0066341102	0.4790000000	System constraint
9/9/2019 8:02	0:01	SSA2	0.0053562821	0.5240000000	System constraint
9/9/2019 8:03	0:01	SSA3	0.0067783299	0.3070000000	System constraint
9/9/2019 8:03	0:01	SSA2	0.0053562821	0.2760000000	System constraint
9/9/2019 8:04	0:01	SSA3	0.0066341102	0.3950000000	System constraint
9/9/2019 8:04	0:01	SSA2	0.0053562819	0.2690000000	System constraint
9/9/2019 8:05	0:01	SSA3	0.0066341102	0.5600000000	System constraint
9/9/2019 8:05	0:01	SSA2	0.0053562821	0.4190000000	System constraint
9/9/2019 8:05	0:01	SSA3	0.0067783299	0.7710000000	System constraint
9/9/2019 8:06	0:01	SSA2	0.0053562821	0.3910000000	System constraint
9/9/2019 8:06	0:01	SSA3	0.0064898905	0.7950000000	System constraint
9/9/2019 8:07	0:01	SSA2	0.0053562819	0.6310000000	System constraint
9/9/2019 8:07	0:01	SSA3	0.0064898904	0.6460000000	System constraint
9/9/2019 8:08	0:01	SSA3	0.0067783299	0.8920000000	System constraint
9/9/2019 8:08	0:01	SSA2	0.0053562821	0.7970000000	System constraint
9/9/2019 8:08	0:01	SSA3	0.0066341102	0.4680000000	System constraint
9/9/2019 8:09	0:01	SSA2	0.0053562821	0.4720000000	System constraint
9/9/2019 8:09	0:01	SSA3	0.0067783301	0.7920000000	System constraint
9/9/2019 8:09	0:01	SSA2	0.0053562819	0.3650000000	System constraint
9/9/2019 8:10	0:01	SSA2	0.0053562821	0.5630000000	System constraint
9/9/2019 8:11	0:01	SSA3	0.0066341102	0.7790000000	System constraint
9/9/2019 8:11	0:01	SSA2	0.0051502711	0.8380000000	System constraint
9/9/2019 8:11	0:01	SSA3	0.0067783301	0.9020000000	System constraint
9/9/2019 8:12	0:01	SSA2	0.0053562821	0.6180000000	System constraint
9/9/2019 8:12	0:01	SSA3	0.0067783299	0.7230000000	System constraint
9/9/2019 8:13	0:01	SSA2	0.0053562821	0.3240000000	System constraint
9/9/2019 8:13	0:01	SSA3	0.0066341102	0.4500000000	System constraint
9/9/2019 8:14	0:01	SSA2	0.0055829486	0.6210000000	System constraint
9/9/2019 8:14	0:01	SSA3	0.0076449967	0.7360000000	System constraint
9/9/2019 8:15	0:01	BS250	Data not available	Data not available	System constraint
9/9/2019 8:15	0:01	ESA	Data not available	Data not available	System constraint
9/9/2019 8:15	0:01	ESB	Data not available	Data not available	System constraint
9/9/2019 8:15	0:01	SSA2	0.0142884997	0.3720000000	System constraint
9/9/2019 8:15	0:01	SSA3	0.0156903125	0.0320000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/9/2019 8:15	0:01	SSA3	0.0156903125	0.0110000000	System constraint
9/9/2019 8:15	0:01	SSA2	0.0142884997	0.0140000000	System constraint
9/9/2019 8:16	0:01	SSA3	0.0163724999	0.0020000000	System constraint
9/9/2019 8:16	0:01	SSA2	0.0142884995	0.0540000000	System constraint
9/9/2019 8:17	0:02	BS250	Data not available	Data not available	System constraint
9/9/2019 8:17	0:02	ESA	Data not available	Data not available	System constraint
9/9/2019 8:17	0:02	ESB	Data not available	Data not available	System constraint
9/9/2019 8:17	0:02	SSA3	0.0313806247	0.0060000000	System constraint
9/9/2019 8:17	0:02	SSA2	0.0283022205	0.0350000000	System constraint
9/9/2019 8:18	0:01	SSA3	0.0153492189	0.0200000000	System constraint
9/9/2019 8:19	0:01	KWPPII	0.0001051585	19.2106399536	System constraint
9/9/2019 8:19	0:01	SSA2	0.0142884997	0.0660000000	System constraint
9/9/2019 8:19	0:01	SSA3	0.0153492186	0.0890000000	System constraint
9/9/2019 8:20	0:01	SSA2	0.0140137208	0.0400000000	System constraint
9/9/2019 8:20	0:01	SSA3	0.0153492186	0.1610000000	System constraint
9/9/2019 8:21	0:01	SSA2	0.0142884995	0.1800000000	System constraint
9/9/2019 8:21	0:01	SSA3	0.0156903125	0.3080000000	System constraint
9/9/2019 8:21	0:01	SSA2	0.0137389421	0.2450000000	System constraint
9/9/2019 8:21	0:01	SSA3	0.0153492186	0.2980000000	System constraint
9/9/2019 8:22	0:01	SSA3	0.0153492189	0.3570000000	System constraint
9/9/2019 8:22	0:01	SSA2	0.0140137208	0.2380000000	System constraint
9/9/2019 8:23	0:01	SSA3	0.0160314061	0.4880000000	System constraint
9/9/2019 8:23	0:01	SSA2	0.0140137208	0.3420000000	System constraint
9/9/2019 8:24	4:32	BS250	Data not available	Data not available	System constraint
9/9/2019 8:24	4:32	ESA	Data not available	Data not available	System constraint
9/9/2019 8:24	4:32	ESB	Data not available	Data not available	System constraint
9/9/2019 8:24	0:02	SSA3	0.0310395311	0.0200000000	System constraint
9/9/2019 8:24	6:24	SSA2	15.3315607262	0.0430000000	System constraint
9/9/2019 8:25	0:01	SSA3	0.0160314063	0.1050000000	System constraint
9/9/2019 8:26	3:45	KWPPII	53.8157805651	19.2106399536	System constraint
9/9/2019 8:26	3:43	SSA3	8.8515858722	0.0070000000	System constraint
9/9/2019 10:19	0:02	AWE	0.0090915680	20.6000003815	System constraint
9/9/2019 10:23	0:01	AWE	0.0008790970	20.7999992371	System constraint
9/9/2019 10:35	0:13	AWE	0.2133028666	20.7999992371	System constraint
9/9/2019 10:50	1:02	AWE	2.0070180575	20.8999996185	System constraint
9/9/2019 11:53	0:13	AWE	0.1795108795	21.0000000000	System constraint
9/9/2019 12:09	0:01	SSA3	0.0374694442	0.0020000000	System constraint
9/9/2019 12:10	2:38	SSA3	7.2077681257	-0.0060000000	System constraint
9/9/2019 12:12	2:37	KWPPII	35.4514971683	19.2106399536	System constraint
9/9/2019 12:23	0:01	AWE	0.0016174634	20.5000000000	System constraint
9/9/2019 12:25	0:07	AWE	0.0755240440	20.6999988556	System constraint
9/9/2019 12:33	0:08	AWE	0.0676860174	20.6000003815	System constraint
9/9/2019 12:42	0:07	AWE	0.0735785802	20.7999992371	System constraint
9/9/2019 12:57	1:52	BS250	Data not available	Data not available	System constraint
9/9/2019 12:57	1:52	ESA	Data not available	Data not available	System constraint
9/9/2019 12:57	1:52	ESB	Data not available	Data not available	System constraint
9/9/2019 14:48	0:02	SSA3	0.0333124458	0.0020000000	System constraint
9/9/2019 14:48	0:01	SSA2	0.0278200002	0.0100000000	System constraint
9/9/2019 14:49	0:01	SSA2	0.0278199997	0.0130000000	System constraint
9/9/2019 14:49	0:01	SSA3	0.0162941309	0.0730000000	System constraint
9/9/2019 14:50	0:01	SSA2	0.0278200002	0.1770000000	System constraint
9/9/2019 14:50	0:01	SSA3	0.0170183144	0.4390000000	System constraint
9/9/2019 14:51	0:01	SSA3	0.0170183148	0.7080000000	System constraint
9/9/2019 14:51	0:01	SSA2	0.0278200002	0.3020000000	System constraint
9/9/2019 14:51	0:01	SSA3	0.0166562229	0.9520000000	System constraint
9/9/2019 14:52	0:01	SSA2	0.0278199997	0.3840000000	System constraint
9/9/2019 14:52	0:01	SSA3	0.0170183144	1.1870000000	System constraint
9/9/2019 14:52	0:01	SSA2	0.0272850000	0.5550000000	System constraint
9/9/2019 14:53	0:01	SSA3	0.0170183148	1.4230000000	System constraint
9/9/2019 14:53	0:01	SSA2	0.0278200002	1.0390000000	System constraint
9/9/2019 14:54	0:01	SSA3	0.0166562229	1.2840000000	System constraint
9/9/2019 14:54	0:01	SSA2	0.0278200002	1.4970000000	System constraint
9/9/2019 14:55	0:01	SSA3	0.0170183144	1.4270000000	System constraint
9/9/2019 14:55	0:01	SSA2	0.0278199997	2.3030000000	System constraint
9/9/2019 14:55	0:01	SSA3	0.0170183148	1.9630000000	System constraint
9/9/2019 14:56	0:01	SSA2	0.0278200002	2.6740000000	System constraint
9/9/2019 14:58	0:01	SSA3	0.0170183148	2.2870000000	System constraint
9/9/2019 14:59	0:01	SSA2	0.0278200002	2.7560000000	System constraint
9/9/2019 14:59	0:12	SSA3	0.4204848392	0.0060000000	System constraint
9/9/2019 14:59	0:04	SSA2	0.1987564401	0.1480000000	System constraint
9/9/2019 15:00	0:12	BS250	Data not available	Data not available	System constraint
9/9/2019 15:00	0:12	ESA	Data not available	Data not available	System constraint
9/9/2019 15:00	0:12	ESB	Data not available	Data not available	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/9/2019 15:01	0:11	KWP11	0.1991928101	19.2106399536	System constraint
9/9/2019 15:04	0:01	SSA2	0.0400574436	0.0190000000	System constraint
9/9/2019 15:05	0:06	SSA2	0.2788614326	0.0030000000	System constraint
9/9/2019 15:11	0:01	SSA2	0.0400574436	0.0040000000	System constraint
9/9/2019 15:11	0:01	SSA3	0.0280253038	0.0010000000	System constraint
9/9/2019 15:11	0:01	SSA2	0.0400574436	0.1170000000	System constraint
9/9/2019 15:12	0:01	SSA3	0.0280253038	0.0710000000	System constraint
9/9/2019 15:12	0:01	SSA2	0.0400574431	0.3360000000	System constraint
9/9/2019 15:12	0:01	SSA3	0.0286345493	0.0230000000	System constraint
9/9/2019 15:13	0:01	KWP11	0.0022259394	19.2106399536	System constraint
9/9/2019 15:13	0:01	SSA3	0.0286345497	0.1300000000	System constraint
9/9/2019 15:13	0:01	SSA2	0.0400574436	0.2870000000	System constraint
9/9/2019 15:14	0:01	SSA3	0.0274160580	0.3740000000	System constraint
9/9/2019 15:14	0:01	SSA2	0.0401152213	0.4190000000	System constraint
9/9/2019 15:15	0:01	SSA3	0.0267092674	0.2840000000	System constraint
9/9/2019 15:15	0:01	SSA2	0.0378182245	0.5890000000	System constraint
9/9/2019 15:15	0:01	SSA3	0.0267092677	0.1910000000	System constraint
9/9/2019 15:16	0:01	SSA2	0.0378182249	0.1650000000	System constraint
9/9/2019 15:16	0:05	SSA3	0.1829868968	0.0350000000	System constraint
9/9/2019 15:17	0:05	BS250	Data not available	Data not available	System constraint
9/9/2019 15:17	0:05	ESA	Data not available	Data not available	System constraint
9/9/2019 15:17	0:05	ESB	Data not available	Data not available	System constraint
9/9/2019 15:17	0:04	SSA2	0.1890911238	0.0130000000	System constraint
9/9/2019 15:18	0:05	KWP11	0.0678394953	19.2106399536	System constraint
9/9/2019 15:21	0:01	SSA2	0.0378182249	0.0350000000	System constraint
9/9/2019 15:22	0:01	SSA3	0.0267092677	0.0090000000	System constraint
9/9/2019 15:22	0:01	SSA2	0.0378182249	0.0240000000	System constraint
9/9/2019 15:22	0:01	SSA3	0.0267092674	0.0140000000	System constraint
9/9/2019 15:23	0:10	BS250	Data not available	Data not available	System constraint
9/9/2019 15:23	0:10	ESA	Data not available	Data not available	System constraint
9/9/2019 15:23	0:10	ESB	Data not available	Data not available	System constraint
9/9/2019 15:23	0:01	SSA2	0.0370909512	0.0180000000	System constraint
9/9/2019 15:23	0:09	SSA3	0.2608486376	0.0290000000	System constraint
9/9/2019 15:24	0:10	KWP11	0.1780713081	19.2106399536	System constraint
9/9/2019 15:24	0:09	SSA2	0.3300880859	0.0090000000	System constraint
9/9/2019 15:32	0:01	SSA3	0.0155894690	0.0030000000	System constraint
9/9/2019 15:32	0:02	SSA2	0.0448470088	0.0000000000	System constraint
9/9/2019 15:33	0:01	SSA3	0.0155894693	0.0080000000	System constraint
9/9/2019 15:33	0:01	SSA3	0.0152577783	0.1090000000	System constraint
9/9/2019 15:34	0:01	SSA2	0.0224235040	0.0450000000	System constraint
9/9/2019 15:34	0:01	SSA3	0.0155894690	0.1640000000	System constraint
9/9/2019 15:35	0:01	SSA2	0.0224235044	0.2520000000	System constraint
9/9/2019 15:35	0:01	SSA3	0.0155894693	0.3660000000	System constraint
9/9/2019 15:36	0:01	SSA3	0.0152577783	0.2820000000	System constraint
9/9/2019 15:36	0:01	SSA2	0.0224235044	0.3490000000	System constraint
9/9/2019 15:36	0:01	SSA3	0.0152577783	0.4740000000	System constraint
9/9/2019 15:37	0:01	SSA2	0.0224235040	0.5740000000	System constraint
9/9/2019 15:37	0:01	SSA3	0.0155894690	0.7050000000	System constraint
9/9/2019 15:37	0:01	SSA2	0.0224235044	0.7440000000	System constraint
9/9/2019 15:38	0:01	SSA3	0.0152577783	0.4470000000	System constraint
9/9/2019 15:38	0:01	SSA2	0.0224235044	0.6260000000	System constraint
9/9/2019 15:39	0:01	SSA3	0.0152577783	0.6710000000	System constraint
9/9/2019 15:39	0:01	SSA2	0.0224235040	0.9550000000	System constraint
9/9/2019 15:39	0:01	SSA3	0.0155894690	1.1150000000	System constraint
9/9/2019 15:40	0:01	SSA2	0.0224235044	1.3970000000	System constraint
9/9/2019 15:40	0:01	SSA3	0.0155894693	1.4350000000	System constraint
9/9/2019 15:41	0:01	SSA2	0.0224235044	2.0190000000	System constraint
9/9/2019 15:44	0:01	SSA3	0.0097839137	1.9400000000	System constraint
9/9/2019 15:44	0:01	SSA2	0.0229968377	2.0030000000	System constraint
9/9/2019 15:45	0:01	SSA3	0.0019382078	1.6150000000	System constraint
9/9/2019 15:45	0:01	SSA2	0.0178913541	1.7770000000	System constraint
9/9/2019 15:46	0:01	SSA3	0.0019382081	1.3380000000	System constraint
9/9/2019 15:46	0:01	SSA2	0.0178913537	0.0220000000	System constraint
9/9/2019 15:46	0:01	SSA3	0.0018557310	0.9990000000	System constraint
9/9/2019 15:47	0:01	SSA2	0.0178913541	0.3650000000	System constraint
9/9/2019 15:47	0:01	SSA3	0.0019382081	1.4150000000	System constraint
9/9/2019 15:50	0:01	SSA3	0.0019382081	1.8090000000	System constraint
9/9/2019 15:52	0:01	SSA3	0.0018969695	1.1680000000	System constraint
9/9/2019 15:52	0:01	SSA2	0.0178913541	0.0610000000	System constraint
9/9/2019 15:53	0:01	SSA3	0.0019382078	1.1000000000	System constraint
9/9/2019 15:53	0:01	SSA2	0.0178913541	0.0550000000	System constraint
9/9/2019 15:53	0:01	SSA3	0.0018969695	1.4770000000	System constraint
9/9/2019 15:54	0:01	SSA2	0.0178913537	0.2220000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/10/2019 8:42	0:01	SSA2	0.0003567801	1.3320000000	Oversupply
9/10/2019 8:42	0:01	SSA3	-0.0002095101	1.6510000000	Oversupply
9/10/2019 8:43	0:01	SSA2	0.0003567799	1.3420000000	Oversupply
9/10/2019 8:43	0:01	SSA3	-0.0002141658	1.3480000000	Oversupply
9/10/2019 8:47	0:01	SSA3	0.0158826569	1.7260000000	Oversupply
9/10/2019 8:47	0:01	SSA3	0.0162356049	1.7330000000	Oversupply
9/10/2019 8:48	0:01	SSA2	0.0142832108	1.4170000000	Oversupply
9/10/2019 8:48	0:01	SSA3	0.0162356049	1.0420000000	Oversupply
9/10/2019 8:49	0:01	SSA2	0.0142832105	0.1020000000	Oversupply
9/10/2019 8:49	0:05	SSA3	0.0967077334	0.0710000000	Oversupply
9/10/2019 8:49	0:04	SSA2	0.0714160537	0.0180000000	Oversupply
9/10/2019 8:50	0:04	BS250	Data not available	Data not available	Oversupply
9/10/2019 8:50	0:04	ESA	Data not available	Data not available	Oversupply
9/10/2019 8:50	0:04	ESB	Data not available	Data not available	Oversupply
9/10/2019 8:51	0:03	KWPPII	0.1020361900	19.2106399536	Oversupply
9/10/2019 8:53	0:01	SSA3	0.0158826569	0.0090000000	Oversupply
9/10/2019 8:54	0:01	SSA2	0.0142832105	0.0210000000	Oversupply
9/10/2019 8:54	0:07	SSA3	0.1484298245	0.0030000000	Oversupply
9/10/2019 8:55	0:06	BS250	Data not available	Data not available	Oversupply
9/10/2019 8:55	0:06	ESA	Data not available	Data not available	Oversupply
9/10/2019 8:55	0:06	ESB	Data not available	Data not available	Oversupply
9/10/2019 8:55	0:07	SSA2	0.1163692595	0.0140000000	Oversupply
9/10/2019 8:56	0:06	KWPPII	0.1714026769	19.2106399536	Oversupply
9/10/2019 9:01	0:01	SSA3	0.0179517037	0.0540000000	Oversupply
9/10/2019 9:02	0:01	SSA2	0.0159685124	0.0590000000	Oversupply
9/10/2019 9:02	0:01	SSA3	0.0179517037	0.3310000000	Oversupply
9/10/2019 9:03	0:01	SSA2	0.0156672199	0.2890000000	Oversupply
9/10/2019 9:03	0:02	BS250	Data not available	Data not available	Oversupply
9/10/2019 9:03	0:02	ESA	Data not available	Data not available	Oversupply
9/10/2019 9:03	0:02	ESB	Data not available	Data not available	Oversupply
9/10/2019 9:03	0:02	SSA3	0.0351228986	0.0810000000	Oversupply
9/10/2019 9:03	0:02	SSA2	0.0313344394	0.0010000000	Oversupply
9/10/2019 9:04	0:01	KWPPII	0.0076255163	19.2106399536	Oversupply
9/10/2019 9:04	0:01	SSA3	0.0179517037	0.0370000000	Oversupply
9/10/2019 9:05	0:01	SSA3	0.0179517037	0.1540000000	Oversupply
9/10/2019 9:05	0:01	SSA2	0.0156672199	0.2370000000	Oversupply
9/10/2019 9:06	0:01	SSA3	0.0175614491	0.2450000000	Oversupply
9/10/2019 9:06	0:01	SSA2	0.0156672196	0.6090000000	Oversupply
9/10/2019 9:06	0:01	SSA3	0.0179517037	0.3310000000	Oversupply
9/10/2019 9:07	0:01	SSA2	0.0156672199	0.8130000000	Oversupply
9/10/2019 9:07	0:01	SSA3	0.0179517037	0.3950000000	Oversupply
9/10/2019 9:08	0:01	SSA2	0.0156672199	0.4900000000	Oversupply
9/10/2019 9:08	0:01	SSA3	0.0179517034	0.3370000000	Oversupply
9/10/2019 9:09	0:01	KWPPII	0.0023123423	19.2106399536	Oversupply
9/10/2019 9:09	0:01	SSA2	0.0156672196	0.1300000000	Oversupply
9/10/2019 9:09	0:01	SSA3	0.0175614495	0.0570000000	Oversupply
9/10/2019 9:09	0:01	SSA3	0.0179517037	0.3020000000	Oversupply
9/10/2019 9:09	0:01	SSA2	0.0156672199	0.1040000000	Oversupply
9/10/2019 9:10	0:01	SSA3	0.0179517037	0.6190000000	Oversupply
9/10/2019 9:10	0:01	SSA2	0.0156672199	0.4610000000	Oversupply
9/10/2019 9:11	0:01	SSA3	0.0175614491	0.9780000000	Oversupply
9/10/2019 9:11	0:01	SSA2	0.0156672196	0.9880000000	Oversupply
9/10/2019 9:12	0:01	SSA3	0.0179517037	1.4540000000	Oversupply
9/10/2019 9:13	0:01	SSA3	0.0175614491	1.5510000000	Oversupply
9/10/2019 9:14	0:01	SSA2	0.0164583307	0.8420000000	Oversupply
9/10/2019 9:14	0:01	SSA3	0.0190517037	1.1440000000	Oversupply
9/10/2019 9:15	0:01	SSA2	0.0236280916	0.4430000000	Oversupply
9/10/2019 9:15	0:01	SSA3	0.0241397252	0.5300000000	Oversupply
9/10/2019 9:16	0:01	SSA2	0.0236280916	0.2900000000	Oversupply
9/10/2019 9:16	0:05	BS250	Data not available	Data not available	Oversupply
9/10/2019 9:16	0:05	ESA	Data not available	Data not available	Oversupply
9/10/2019 9:16	0:05	ESB	Data not available	Data not available	Oversupply
9/10/2019 9:16	0:05	SSA3	0.1674037462	0.0560000000	Oversupply
9/10/2019 9:16	0:07	SSA2	0.1885703452	0.0200000000	Oversupply
9/10/2019 9:18	0:04	KWPPII	0.1134061178	19.2106399536	Oversupply
9/10/2019 9:21	0:01	SSA3	0.0241397252	0.0060000000	Oversupply
9/10/2019 9:22	0:02	BS250	Data not available	Data not available	Oversupply
9/10/2019 9:22	0:02	ESA	Data not available	Data not available	Oversupply
9/10/2019 9:22	0:02	ESB	Data not available	Data not available	Oversupply
9/10/2019 9:22	0:02	SSA3	0.0482794504	0.0040000000	Oversupply
9/10/2019 9:23	0:01	KWPPII	0.0066664378	19.2106399536	Oversupply
9/10/2019 9:23	0:01	SSA3	0.0246645016	0.0110000000	Oversupply
9/10/2019 9:23	0:01	SSA2	0.0236280916	0.0010000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/10/2019 9:24	0:01	SSA3	0.0241397252	0.1820000000	Oversupply
9/10/2019 9:24	0:01	SSA2	0.0236280916	0.0290000000	Oversupply
9/10/2019 9:25	0:01	SSA3	0.0236149484	0.2580000000	Oversupply
9/10/2019 9:25	0:01	SSA2	0.0236280913	0.0320000000	Oversupply
9/10/2019 9:25	0:01	SSA3	0.0241397252	0.3710000000	Oversupply
9/10/2019 9:26	0:01	SSA2	0.0236280916	0.1720000000	Oversupply
9/10/2019 9:31	0:01	SSA3	0.0233460534	2.1780000000	Oversupply
9/10/2019 9:31	0:01	SSA2	0.0222241427	1.9700000000	Oversupply
9/10/2019 9:32	0:01	SSA3	0.0228385307	1.8030000000	Oversupply
9/10/2019 9:32	0:01	SSA2	0.0222241424	1.6960000000	Oversupply
9/10/2019 9:32	0:01	SSA3	0.0233460530	1.6590000000	Oversupply
9/10/2019 9:33	0:01	SSA2	0.0222241427	0.9140000000	Oversupply
9/10/2019 9:33	0:01	SSA3	0.0233460534	0.9180000000	Oversupply
9/10/2019 9:34	0:01	SSA2	0.0222241427	0.6380000000	Oversupply
9/10/2019 9:34	0:18	SSA3	0.6002887108	0.1810000000	Oversupply
9/10/2019 9:35	0:18	BS250	Data not available	Data not available	Oversupply
9/10/2019 9:35	0:18	ESA	Data not available	Data not available	Oversupply
9/10/2019 9:35	0:18	ESB	Data not available	Data not available	Oversupply
9/10/2019 9:35	0:18	SSA2	0.5111548897	0.0220000000	Oversupply
9/10/2019 9:36	0:18	KWPPII	0.7989208380	19.2106399536	Oversupply
9/10/2019 9:52	0:01	SSA3	0.0273557143	0.0020000000	Oversupply
9/10/2019 9:53	0:01	SSA2	0.0270685377	0.0020000000	Oversupply
9/10/2019 9:53	0:01	SSA3	0.0279636192	0.1480000000	Oversupply
9/10/2019 9:54	0:01	SSA3	0.0279636192	0.0780000000	Oversupply
9/10/2019 9:54	0:01	SSA2	0.0270685374	0.1760000000	Oversupply
9/10/2019 9:54	0:01	SSA3	0.0273557143	0.1510000000	Oversupply
9/10/2019 9:54	0:01	SSA2	0.0270685377	0.1810000000	Oversupply
9/10/2019 9:55	0:01	SSA3	0.0279636192	0.5690000000	Oversupply
9/10/2019 9:55	0:01	SSA2	0.0270685377	0.6310000000	Oversupply
9/10/2019 9:56	0:01	SSA3	0.0273557143	1.1100000000	Oversupply
9/10/2019 9:56	0:01	SSA2	0.0270685374	0.9520000000	Oversupply
9/10/2019 9:57	0:01	SSA3	0.0285715241	1.2360000000	Oversupply
9/10/2019 9:57	0:01	SSA2	0.0270685377	1.2510000000	Oversupply
9/10/2019 9:57	0:01	SSA3	0.0279636192	1.0830000000	Oversupply
9/10/2019 9:58	0:01	SSA2	0.0270685377	0.8910000000	Oversupply
9/10/2019 9:58	0:01	SSA3	0.0273557143	0.6530000000	Oversupply
9/10/2019 9:59	3:10	BS250	Data not available	Data not available	Oversupply
9/10/2019 9:59	3:10	ESA	Data not available	Data not available	Oversupply
9/10/2019 9:59	3:10	ESB	Data not available	Data not available	Oversupply
9/10/2019 9:59	3:10	SSA2	8.5943123891	0.1680000000	Oversupply
9/10/2019 9:59	3:10	SSA3	8.0905070043	0.0040000000	Oversupply
9/10/2019 10:01	3:09	KWPPII	49.6237151116	19.2106399536	Oversupply
9/10/2019 10:56	1:58	AWE	15.0201233466	21.0000000000	Oversupply
9/10/2019 12:57	0:01	AWE	0.0098953247	18.0000000000	Oversupply
9/10/2019 13:09	0:01	SSA3	0.0360378901	0.1060000000	Oversupply
9/10/2019 13:09	0:01	SSA2	0.0409933335	0.0470000000	Oversupply
9/10/2019 13:10	0:01	SSA3	0.0360378906	0.2570000000	Oversupply
9/10/2019 13:10	0:01	SSA2	0.0409933330	0.2120000000	Oversupply
9/10/2019 13:11	0:58	BS250	Data not available	Data not available	Oversupply
9/10/2019 13:11	0:58	ESA	Data not available	Data not available	Oversupply
9/10/2019 13:11	0:58	ESB	Data not available	Data not available	Oversupply
9/10/2019 13:11	0:58	SSA3	2.4382792812	0.3100000000	Oversupply
9/10/2019 13:11	0:58	SSA2	2.7532455557	0.4580000000	Oversupply
9/10/2019 13:12	0:56	KWPPII	5.4624698798	19.2106399536	Oversupply
9/10/2019 14:08	0:01	SSA3	0.0224807801	0.0250000000	Oversupply
9/10/2019 14:09	0:01	SSA2	0.0398377779	0.0780000000	Oversupply
9/10/2019 14:09	0:01	SSA3	0.0220024655	0.0410000000	Oversupply
9/10/2019 14:10	0:01	SSA2	0.0398377779	0.2540000000	Oversupply
9/10/2019 14:10	0:01	SSA3	0.0224807798	0.1630000000	Oversupply
9/10/2019 14:11	0:01	SSA2	0.0398377774	0.2880000000	Oversupply
9/10/2019 14:11	0:01	SSA3	0.0224807801	0.1540000000	Oversupply
9/10/2019 14:12	0:01	SSA2	0.0398377779	0.3520000000	Oversupply
9/10/2019 14:12	0:02	SSA3	0.0440049308	0.3050000000	Oversupply
9/10/2019 14:12	0:01	SSA2	0.0398377779	0.3790000000	Oversupply
9/10/2019 14:14	0:01	SSA3	0.0194463732	0.5220000000	Oversupply
9/10/2019 14:14	0:01	SSA2	0.0326711113	0.6710000000	Oversupply
9/10/2019 14:16	0:01	SSA3	0.0169249425	1.6960000000	Oversupply
9/10/2019 14:17	0:01	SSA2	0.0274155557	2.6490000000	Oversupply
9/10/2019 14:18	0:01	SSA3	0.0176771620	2.3300000000	Oversupply
9/10/2019 14:18	0:01	SSA2	0.0274155557	1.6120000000	Oversupply
9/10/2019 14:19	0:01	SSA3	0.0169249421	2.1890000000	Oversupply
9/10/2019 14:19	0:01	SSA3	0.0176771616	1.7010000000	Oversupply
9/10/2019 14:19	0:01	SSA2	0.0274155557	1.8710000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/10/2019 14:20	0:01	SSA3	0.0176771620	1.2050000000	Oversupply
9/10/2019 14:20	0:01	SSA2	0.0274155552	1.5980000000	Oversupply
9/10/2019 14:21	0:01	SSA3	0.0176771616	1.3230000000	Oversupply
9/10/2019 14:21	0:01	SSA2	0.0274155557	1.3280000000	Oversupply
9/10/2019 14:22	0:01	SSA3	0.0173010521	1.1080000000	Oversupply
9/10/2019 14:22	0:01	SSA2	0.0274155557	1.1760000000	Oversupply
9/10/2019 14:22	0:01	SSA3	0.0176771620	0.6480000000	Oversupply
9/10/2019 14:23	0:01	SSA2	0.0274155552	0.7110000000	Oversupply
9/10/2019 14:23	0:01	SSA3	0.0173010521	0.1530000000	Oversupply
9/10/2019 14:24	0:01	SSA2	0.0263611114	0.2440000000	Oversupply
9/10/2019 14:24	0:07	SSA3	0.1479620172	0.0880000000	Oversupply
9/10/2019 14:25	0:06	BS250	Data not available	Data not available	Oversupply
9/10/2019 14:25	0:06	ESA	Data not available	Data not available	Oversupply
9/10/2019 14:25	0:06	ESB	Data not available	Data not available	Oversupply
9/10/2019 14:25	0:06	SSA2	0.1860066668	0.0230000000	Oversupply
9/10/2019 14:26	0:06	KWP11	0.1043122292	19.2106399536	Oversupply
9/10/2019 14:31	0:01	SSA2	0.0226199997	0.0290000000	Oversupply
9/10/2019 14:31	0:01	SSA3	0.0123147826	0.0120000000	Oversupply
9/10/2019 14:31	0:01	SSA2	0.0217500003	0.1970000000	Oversupply
9/10/2019 14:32	0:01	SSA3	0.0125824950	0.0830000000	Oversupply
9/10/2019 14:32	0:01	SSA2	0.0226199997	0.1390000000	Oversupply
9/10/2019 14:33	0:01	SSA3	0.0125824954	0.3110000000	Oversupply
9/10/2019 14:33	0:01	SSA2	0.0226200002	0.6380000000	Oversupply
9/10/2019 14:33	0:01	SSA3	0.0120470697	0.4520000000	Oversupply
9/10/2019 14:34	0:01	SSA3	0.0120470697	1.0070000000	Oversupply
9/10/2019 14:35	0:01	SSA3	0.0123147826	1.2750000000	Oversupply
9/10/2019 14:35	0:01	SSA2	0.0226199997	1.7310000000	Oversupply
9/10/2019 14:36	0:01	SSA3	0.0123147826	1.7290000000	Oversupply
9/10/2019 14:36	0:01	SSA2	0.0226200002	1.8480000000	Oversupply
9/10/2019 14:36	0:01	SSA3	0.0125824954	2.2060000000	Oversupply
9/10/2019 14:37	0:01	SSA2	0.0226200002	2.2530000000	Oversupply
9/10/2019 14:37	0:01	SSA3	0.0125824950	2.3150000000	Oversupply
9/10/2019 14:37	0:01	SSA2	0.0226199997	1.6970000000	Oversupply
9/10/2019 14:38	0:01	SSA3	0.0123147826	2.0870000000	Oversupply
9/10/2019 14:38	0:01	SSA2	0.0221850000	2.0530000000	Oversupply
9/10/2019 14:39	0:01	SSA3	0.0123147826	2.4090000000	Oversupply
9/10/2019 14:39	0:01	SSA2	0.0226200002	2.3140000000	Oversupply
9/10/2019 14:39	0:01	SSA3	0.0123147826	1.9510000000	Oversupply
9/10/2019 14:40	0:01	SSA2	0.0226200002	1.5280000000	Oversupply
9/10/2019 14:40	0:01	SSA3	0.0120470697	1.5790000000	Oversupply
9/10/2019 14:41	0:01	SSA2	0.0226199997	1.2740000000	Oversupply
9/10/2019 14:41	0:01	SSA3	0.0123147826	1.0320000000	Oversupply
9/10/2019 14:42	0:01	SSA3	0.0123147826	1.2140000000	Oversupply
9/10/2019 14:42	0:01	SSA2	0.0226200002	1.0760000000	Oversupply
9/10/2019 14:42	0:01	SSA3	0.0120470697	1.5190000000	Oversupply
9/10/2019 14:43	0:01	SSA2	0.0226200002	0.9450000000	Oversupply
9/10/2019 14:43	0:01	SSA3	0.0123147826	1.9360000000	Oversupply
9/10/2019 14:44	0:01	SSA2	0.0226199997	1.9650000000	Oversupply
9/10/2019 14:44	0:01	SSA3	0.0091147826	1.6040000000	Oversupply
9/10/2019 14:44	0:01	SSA2	0.0122700002	1.7090000000	Oversupply
9/10/2019 14:45	0:01	SSA3	0.0061402880	1.8320000000	Oversupply
9/10/2019 14:45	0:01	SSA2	0.0096851229	1.8100000000	Oversupply
9/10/2019 14:46	0:01	SSA3	0.0060123656	1.8990000000	Oversupply
9/10/2019 14:46	0:01	SSA2	0.0096851224	1.5870000000	Oversupply
9/10/2019 14:46	0:01	SSA3	0.0060123652	1.7170000000	Oversupply
9/10/2019 14:47	0:01	SSA2	0.0096851229	1.9560000000	Oversupply
9/10/2019 14:47	0:01	SSA3	0.0058844428	2.1120000000	Oversupply
9/10/2019 14:48	0:01	SSA2	0.0096851229	2.4420000000	Oversupply
9/10/2019 14:48	0:01	SSA3	0.0058844428	2.6240000000	Oversupply
9/10/2019 14:49	0:01	SSA3	0.0058844428	1.7290000000	Oversupply
9/10/2019 14:49	0:01	SSA2	0.0096851224	2.2570000000	Oversupply
9/10/2019 14:49	0:01	SSA3	0.0058844428	1.6830000000	Oversupply
9/10/2019 14:50	0:01	SSA2	0.0096851229	1.7510000000	Oversupply
9/10/2019 14:50	0:01	SSA3	0.0060123652	1.8460000000	Oversupply
9/10/2019 14:50	0:01	SSA2	0.0096851229	1.9220000000	Oversupply
9/10/2019 14:51	0:01	SSA3	0.0060123656	1.6340000000	Oversupply
9/10/2019 14:51	0:01	SSA2	0.0096851224	1.6200000000	Oversupply
9/10/2019 14:52	0:01	SSA3	0.0058844428	1.9830000000	Oversupply
9/10/2019 14:52	0:01	SSA2	0.0096851229	2.1600000000	Oversupply
9/10/2019 14:53	0:01	SSA3	0.0060123656	2.5760000000	Oversupply
9/10/2019 14:54	0:01	SSA3	0.0058844428	2.3720000000	Oversupply
9/10/2019 14:55	0:01	SSA2	0.0096851229	2.1630000000	Oversupply
9/10/2019 14:55	0:01	SSA3	0.0060123652	2.1280000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/10/2019 14:56	0:01	SSA2	0.0096851224	2.0850000000	Oversupply
9/10/2019 14:56	0:01	SSA3	0.0062682108	1.4110000000	Oversupply
9/10/2019 14:56	0:01	SSA3	0.0058844428	1.6480000000	Oversupply
9/10/2019 14:56	0:01	SSA2	0.0096851229	2.1160000000	Oversupply
9/11/2019 9:40	0:33	KWPll	3.0817379475	19.0439815521	Oversupply
9/11/2019 9:46	0:01	AWE	0.0050000032	15.3000001907	Oversupply
9/11/2019 9:49	0:01	KWP	0.0035164833	15.3758239746	Oversupply
9/11/2019 11:13	0:01	SSA3	0.0022781973	2.5070000000	Oversupply
9/11/2019 11:14	0:01	SSA2	-0.0016630370	2.4090000000	Oversupply
9/11/2019 11:14	0:01	SSA3	0.0052953378	1.6000000000	Oversupply
9/11/2019 11:14	0:01	SSA2	0.0171102968	1.5840000000	Oversupply
9/11/2019 11:15	0:01	SSA3	0.0061406634	1.5200000000	Oversupply
9/11/2019 11:15	0:01	SSA2	0.0193648318	1.8950000000	Oversupply
9/11/2019 11:16	0:01	SSA3	0.0061406634	1.0630000000	Oversupply
9/11/2019 11:16	0:01	SSA2	0.0193648314	1.5240000000	Oversupply
9/11/2019 11:16	0:01	SSA3	0.0061406634	0.4870000000	Oversupply
9/11/2019 11:17	0:01	SSA2	0.0193648318	0.9390000000	Oversupply
9/11/2019 11:17	0:01	SSA3	0.0062741562	0.6220000000	Oversupply
9/11/2019 11:18	0:01	SSA3	0.0061406634	0.4700000000	Oversupply
9/11/2019 11:18	0:01	SSA2	0.0193648318	1.2910000000	Oversupply
9/11/2019 11:19	0:01	SSA3	0.0061406632	0.5570000000	Oversupply
9/11/2019 11:19	0:01	SSA2	0.0193648314	1.6050000000	Oversupply
9/11/2019 11:19	0:01	SSA3	0.0060071709	0.3270000000	Oversupply
9/11/2019 11:20	0:01	SSA2	0.0189924315	1.1780000000	Oversupply
9/11/2019 11:20	0:01	SSA3	0.0061406634	0.1290000000	Oversupply
9/11/2019 11:20	0:01	SSA2	0.0193648314	0.1190000000	Oversupply
9/11/2019 11:21	0:01	SSA3	0.0062741560	0.1100000000	Oversupply
9/11/2019 11:21	0:01	SSA2	0.0193648318	0.4460000000	Oversupply
9/11/2019 11:22	0:01	SSA3	0.0061406634	0.2290000000	Oversupply
9/11/2019 11:22	0:01	SSA2	0.0193648314	1.0420000000	Oversupply
9/11/2019 11:22	0:01	SSA3	0.0062741562	0.2960000000	Oversupply
9/11/2019 11:23	0:01	SSA2	0.0193648318	1.5920000000	Oversupply
9/11/2019 11:24	0:01	SSA2	0.0189924311	2.0810000000	Oversupply
9/11/2019 11:24	0:01	SSA3	0.0061406634	0.3770000000	Oversupply
9/11/2019 11:25	0:01	SSA3	0.0061406634	0.3970000000	Oversupply
9/11/2019 11:25	0:01	SSA2	0.0193648318	2.6450000000	Oversupply
9/11/2019 11:26	0:01	SSA3	0.0060071707	0.4310000000	Oversupply
9/11/2019 11:26	0:01	SSA2	0.0193648318	1.7960000000	Oversupply
9/11/2019 11:28	0:01	SSA3	0.0062741560	1.0630000000	Oversupply
9/11/2019 11:28	0:01	SSA2	0.0193648318	1.9790000000	Oversupply
9/11/2019 11:29	0:01	SSA3	0.0062741562	0.9190000000	Oversupply
9/11/2019 11:29	0:01	SSA2	0.0298981647	1.6600000000	Oversupply
9/11/2019 11:29	0:01	SSA3	0.0115971707	0.0310000000	Oversupply
9/11/2019 11:30	0:01	SSA2	0.0379415011	0.9600000000	Oversupply
9/11/2019 11:30	0:01	SSA3	0.0222134789	0.4080000000	Oversupply
9/11/2019 11:31	0:01	SSA2	0.0379415011	0.4190000000	Oversupply
9/11/2019 11:31	0:10	SSA3	0.2971669853	0.1260000000	Oversupply
9/11/2019 11:32	0:09	BS250	Data not available	Data not available	Oversupply
9/11/2019 11:32	0:09	ESA	Data not available	Data not available	Oversupply
9/11/2019 11:32	0:09	ESB	Data not available	Data not available	Oversupply
9/11/2019 11:32	0:10	KWPll	0.3450802167	18.3883247375	Oversupply
9/11/2019 11:32	0:10	SSA2	0.4173565098	0.0290000000	Oversupply
9/11/2019 11:41	0:01	SSA3	0.0227071119	0.0170000000	Oversupply
9/11/2019 11:41	0:01	SSA2	0.0379415006	0.0200000000	Oversupply
9/11/2019 11:42	0:01	SSA3	0.0232007449	0.0310000000	Oversupply
9/11/2019 11:42	0:01	SSA2	0.0379415011	0.0300000000	Oversupply
9/11/2019 11:42	0:01	SSA3	0.0232007445	0.0420000000	Oversupply
9/11/2019 11:43	0:01	SSA2	0.0379415011	0.1510000000	Oversupply
9/11/2019 11:43	0:01	SSA3	0.0227071119	0.0770000000	Oversupply
9/11/2019 11:44	0:01	SSA2	0.0334563011	0.3760000000	Oversupply
9/11/2019 11:44	0:01	SSA3	0.0204774115	0.3930000000	Oversupply
9/11/2019 11:45	0:01	SSA2	0.0243468143	0.7420000000	Oversupply
9/11/2019 11:45	0:01	SSA3	0.0089842254	0.7210000000	Oversupply
9/11/2019 11:46	0:01	SSA2	0.0243468148	1.2860000000	Oversupply
9/11/2019 11:46	0:01	SSA3	0.0089842257	0.9730000000	Oversupply
9/11/2019 11:47	0:01	SSA3	0.0097654626	0.9870000000	Oversupply
9/11/2019 11:47	0:01	SSA2	0.0243468143	2.4470000000	Oversupply
9/11/2019 11:48	0:01	SSA3	0.0089842257	0.8730000000	Oversupply
9/11/2019 11:48	0:01	SSA2	0.0243468148	2.0210000000	Oversupply
9/11/2019 11:49	0:01	SSA3	0.0089842257	0.6480000000	Oversupply
9/11/2019 11:49	0:01	SSA2	0.0243468148	0.9590000000	Oversupply
9/11/2019 11:50	0:01	SSA3	0.0089842257	0.1570000000	Oversupply
9/11/2019 11:50	0:01	SSA2	0.0243468143	0.2880000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/11/2019 11:50	0:01	SSA3	0.0091795350	0.1090000000	Oversupply
9/11/2019 11:51	0:01	SSA2	0.0243468148	0.1760000000	Oversupply
9/11/2019 11:51	0:01	SSA3	0.0089842254	0.5750000000	Oversupply
9/11/2019 11:52	0:01	SSA2	0.0243468148	0.6280000000	Oversupply
9/11/2019 11:54	0:01	SSA3	0.0091795350	0.9170000000	Oversupply
9/11/2019 11:54	0:01	SSA2	0.0243468148	2.4320000000	Oversupply
9/11/2019 11:55	0:01	SSA3	0.0089842257	0.9150000000	Oversupply
9/11/2019 11:55	0:01	SSA2	0.0243468143	1.8410000000	Oversupply
9/11/2019 11:56	0:01	SSA3	0.0089842257	0.0460000000	Oversupply
9/11/2019 11:56	0:01	SSA2	0.0243468148	1.4170000000	Oversupply
9/11/2019 11:56	0:01	SSA3	0.0091795348	0.3770000000	Oversupply
9/11/2019 11:57	0:01	SSA2	0.0243468148	0.5810000000	Oversupply
9/11/2019 11:57	0:01	SSA3	0.0091795350	0.0310000000	Oversupply
9/11/2019 11:58	0:03	BS250	Data not available	Data not available	Oversupply
9/11/2019 11:58	0:03	ESA	Data not available	Data not available	Oversupply
9/11/2019 11:58	0:03	ESB	Data not available	Data not available	Oversupply
9/11/2019 11:58	0:01	KWPPII	0.0147011757	18.4262466431	Oversupply
9/11/2019 11:58	0:01	SSA2	0.0243468143	0.0420000000	Oversupply
9/11/2019 11:58	0:01	SSA3	0.0089842257	0.0070000000	Oversupply
9/11/2019 11:59	0:01	SSA2	0.0234103990	0.0270000000	Oversupply
9/11/2019 11:59	0:02	SSA3	0.0389247810	0.0100000000	Oversupply
9/11/2019 11:59	0:01	SSA2	0.0331201482	0.0060000000	Oversupply
9/11/2019 12:00	0:01	SSA2	0.0340599997	0.0070000000	Oversupply
9/11/2019 12:00	0:01	SSA3	0.0293122223	-0.0010000000	Oversupply
9/11/2019 12:01	0:01	KWPPII	0.0062831561	17.6348686218	Oversupply
9/11/2019 12:01	0:01	SSA3	0.0299494442	0.0300000000	Oversupply
9/11/2019 12:01	0:01	SSA2	0.0340600002	0.0350000000	Oversupply
9/11/2019 12:02	0:01	SSA3	0.0299494447	0.0310000000	Oversupply
9/11/2019 12:02	0:01	SSA2	0.0340600002	0.0340000000	Oversupply
9/11/2019 12:03	0:01	SSA3	0.0293122223	0.0450000000	Oversupply
9/11/2019 12:03	0:01	SSA2	0.0340599997	0.0310000000	Oversupply
9/11/2019 12:03	0:01	SSA3	0.0286749999	0.1650000000	Oversupply
9/11/2019 12:04	0:01	SSA2	0.0340600002	0.0850000000	Oversupply
9/11/2019 12:04	0:01	SSA3	0.0293122223	0.5040000000	Oversupply
9/11/2019 12:05	0:01	SSA2	0.0340600002	0.3810000000	Oversupply
9/11/2019 12:05	0:01	SSA3	0.0299494447	0.8450000000	Oversupply
9/11/2019 12:05	0:01	SSA2	0.0340599997	0.7420000000	Oversupply
9/11/2019 12:06	0:01	SSA3	0.0286749999	1.2700000000	Oversupply
9/11/2019 12:06	0:01	SSA2	0.0340600002	1.4030000000	Oversupply
9/11/2019 12:07	0:01	SSA3	0.0293122223	2.0230000000	Oversupply
9/11/2019 12:07	0:01	SSA2	0.0340599997	1.3870000000	Oversupply
9/11/2019 12:07	0:01	SSA3	0.0299494442	2.4460000000	Oversupply
9/11/2019 12:08	0:01	SSA3	0.0293122223	2.0510000000	Oversupply
9/11/2019 12:08	0:01	SSA2	0.0340600002	1.5210000000	Oversupply
9/11/2019 12:09	0:01	SSA3	0.0299494447	1.3070000000	Oversupply
9/11/2019 12:09	0:01	SSA2	0.0340600002	1.1120000000	Oversupply
9/11/2019 12:10	0:01	SSA3	0.0299494442	0.4790000000	Oversupply
9/11/2019 12:10	0:01	SSA2	0.0340599997	0.5870000000	Oversupply
9/11/2019 12:10	0:10	SSA3	0.3216545490	0.2060000000	Oversupply
9/11/2019 12:11	0:10	BS250	Data not available	Data not available	Oversupply
9/11/2019 12:11	0:10	ESA	Data not available	Data not available	Oversupply
9/11/2019 12:11	0:10	ESB	Data not available	Data not available	Oversupply
9/11/2019 12:11	0:10	SSA2	0.4528233335	0.0960000000	Oversupply
9/11/2019 12:12	0:09	KWPPII	0.1563304901	18.8423938751	Oversupply
9/11/2019 12:20	0:01	SSA3	0.0199589038	0.0230000000	Oversupply
9/11/2019 12:21	0:01	SSA2	0.0400688891	0.0150000000	Oversupply
9/11/2019 12:21	0:01	SSA3	0.0203927931	0.0400000000	Oversupply
9/11/2019 12:22	0:01	BS250	Data not available	Data not available	Oversupply
9/11/2019 12:22	0:01	ESA	Data not available	Data not available	Oversupply
9/11/2019 12:22	0:01	ESB	Data not available	Data not available	Oversupply
9/11/2019 12:22	0:02	KWPPII	0.0105802218	18.4571838379	Oversupply
9/11/2019 12:22	0:02	SSA2	0.0801377776	0.0010000000	Oversupply
9/11/2019 12:22	0:01	SSA3	0.0199589038	0.0000000000	Oversupply
9/11/2019 12:23	0:01	SSA3	0.0203927928	0.0010000000	Oversupply
9/11/2019 12:24	0:01	SSA3	0.0203927931	0.1520000000	Oversupply
9/11/2019 12:24	0:01	SSA2	0.0400688891	0.1550000000	Oversupply
9/11/2019 12:24	0:01	SSA3	0.0203927928	0.4990000000	Oversupply
9/11/2019 12:25	0:01	SSA2	0.0400688891	0.2460000000	Oversupply
9/11/2019 12:25	0:01	SSA3	0.0203927931	0.0450000000	Oversupply
9/11/2019 12:25	0:01	SSA2	0.0400688886	0.0690000000	Oversupply
9/11/2019 12:26	0:01	SSA3	0.0199589038	-0.0050000000	Oversupply
9/11/2019 12:26	0:01	SSA2	0.0400688891	0.0530000000	Oversupply
9/11/2019 12:27	0:01	SSA3	0.0195250144	0.2110000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/11/2019 12:27	0:01	SSA2	0.0400688891	0.0360000000	Oversupply
9/11/2019 12:27	0:01	SSA3	0.0199589038	0.0270000000	Oversupply
9/11/2019 12:28	0:01	SSA2	0.0400688886	0.2060000000	Oversupply
9/11/2019 12:28	0:01	SSA3	0.0195250144	0.3780000000	Oversupply
9/11/2019 12:29	0:01	SSA2	0.0347116666	0.6120000000	Oversupply
9/11/2019 12:29	0:01	SSA3	0.0159250144	0.9050000000	Oversupply
9/11/2019 12:30	0:01	SSA3	0.0124828793	1.2370000000	Oversupply
9/11/2019 12:30	0:01	SSA2	0.0142348219	0.7420000000	Oversupply
9/11/2019 12:30	0:01	SSA3	0.0119516926	1.5530000000	Oversupply
9/11/2019 12:31	0:01	SSA2	0.0142348219	1.5580000000	Oversupply
9/11/2019 12:31	0:01	SSA3	0.0122172859	1.7690000000	Oversupply
9/11/2019 12:31	0:01	SSA2	0.0142348215	2.0850000000	Oversupply
9/11/2019 12:32	0:01	SSA3	0.0122172859	1.6090000000	Oversupply
9/11/2019 12:32	0:01	SSA2	0.0142348219	2.0830000000	Oversupply
9/11/2019 12:33	0:01	SSA3	0.0122172859	1.1880000000	Oversupply
9/11/2019 12:33	0:01	SSA2	0.0142348219	1.8130000000	Oversupply
9/11/2019 12:33	0:01	SSA3	0.0119516926	1.6530000000	Oversupply
9/11/2019 12:34	0:01	SSA2	0.0142348215	1.4880000000	Oversupply
9/11/2019 12:34	0:01	SSA3	0.0122172859	2.1540000000	Oversupply
9/11/2019 12:38	0:01	SSA3	0.0122172859	2.0700000000	Oversupply
9/11/2019 12:38	0:01	SSA2	0.0142348219	0.6130000000	Oversupply
9/11/2019 12:39	0:01	SSA3	0.0119516926	1.6010000000	Oversupply
9/11/2019 12:39	0:01	SSA2	0.0142348215	0.7150000000	Oversupply
9/11/2019 12:40	0:01	SSA3	0.0122172859	1.0830000000	Oversupply
9/11/2019 12:40	0:01	SSA2	0.0142348219	1.1450000000	Oversupply
9/11/2019 12:40	0:01	SSA3	0.0119516926	1.0260000000	Oversupply
9/11/2019 12:41	0:01	SSA2	0.0142348215	1.4680000000	Oversupply
9/11/2019 12:41	0:01	SSA3	0.0122172859	0.4370000000	Oversupply
9/11/2019 12:42	0:01	SSA2	0.0142348219	0.5630000000	Oversupply
9/11/2019 12:43	0:01	SSA3	0.0122172859	0.8550000000	Oversupply
9/11/2019 12:43	0:01	SSA3	0.0122172859	1.3190000000	Oversupply
9/11/2019 12:44	0:01	SSA2	0.0142348215	1.3850000000	Oversupply
9/11/2019 12:55	0:01	SSA3	0.0053762499	2.1270000000	Oversupply
9/11/2019 12:56	0:01	SSA3	0.0053762502	2.2200000000	Oversupply
9/11/2019 12:56	0:01	SSA2	0.0061366341	2.2520000000	Oversupply
9/11/2019 12:56	0:01	SSA3	0.0052593754	0.5350000000	Oversupply
9/11/2019 12:57	0:01	SSA2	0.0061366341	1.6050000000	Oversupply
9/11/2019 12:57	0:01	SSA3	0.0053762502	0.6950000000	Oversupply
9/11/2019 12:57	0:01	SSA2	0.0060186217	1.7410000000	Oversupply
9/11/2019 12:58	0:01	SSA3	0.0053762499	0.9030000000	Oversupply
9/11/2019 12:58	0:01	SSA2	0.0061366341	1.1850000000	Oversupply
9/11/2019 12:59	0:01	SSA3	0.0052593754	0.7590000000	Oversupply
9/11/2019 12:59	0:01	SSA2	0.0175541773	0.5030000000	Oversupply
9/11/2019 12:59	0:01	SSA3	0.0125706947	0.2190000000	Oversupply
9/11/2019 13:00	0:04	BS250	Data not available	Data not available	Oversupply
9/11/2019 13:00	0:04	ESA	Data not available	Data not available	Oversupply
9/11/2019 13:00	0:04	ESB	Data not available	Data not available	Oversupply
9/11/2019 13:00	0:03	SSA2	0.1026060754	0.0560000000	Oversupply
9/11/2019 13:00	0:03	SSA3	0.0793690522	0.0030000000	Oversupply
9/11/2019 13:01	0:03	KWP11	0.0336702029	18.6597671509	Oversupply
9/11/2019 13:03	0:01	SSA3	0.0201640293	0.0030000000	Oversupply
9/11/2019 13:03	0:01	SSA2	0.0256515191	0.0040000000	Oversupply
9/11/2019 13:04	0:01	SSA3	0.0201640297	0.0390000000	Oversupply
9/11/2019 13:04	0:01	SSA2	0.0256515191	0.0340000000	Oversupply
9/11/2019 13:05	0:01	SSA3	0.0197350076	0.0380000000	Oversupply
9/11/2019 13:05	0:01	SSA2	0.0256515186	0.0380000000	Oversupply
9/11/2019 13:06	0:01	SSA3	0.0201640293	0.0910000000	Oversupply
9/11/2019 13:06	0:01	SSA2	0.0256515191	0.1330000000	Oversupply
9/11/2019 13:06	0:01	SSA3	0.0201640297	0.3760000000	Oversupply
9/11/2019 13:07	0:01	SSA2	0.0256515191	0.4680000000	Oversupply
9/11/2019 13:07	0:01	SSA3	0.0193059856	0.7140000000	Oversupply
9/11/2019 13:08	0:01	SSA2	0.0256515186	0.8380000000	Oversupply
9/11/2019 13:08	0:01	SSA3	0.0193059856	1.1220000000	Oversupply
9/11/2019 13:09	0:01	SSA3	0.0197350076	1.4700000000	Oversupply
9/11/2019 13:09	0:01	SSA2	0.0256515191	1.2760000000	Oversupply
9/11/2019 13:09	0:01	SSA3	0.0197350076	1.8770000000	Oversupply
9/11/2019 13:10	0:01	SSA2	0.0256515191	1.7300000000	Oversupply
9/11/2019 13:10	0:01	SSA3	0.0197350076	1.9410000000	Oversupply
9/11/2019 13:10	0:01	SSA2	0.0256515186	1.9510000000	Oversupply
9/11/2019 13:11	0:01	SSA3	0.0201640297	1.3660000000	Oversupply
9/11/2019 13:11	0:01	SSA2	0.0256515191	2.0310000000	Oversupply
9/11/2019 13:12	0:01	SSA3	0.0193059856	1.3800000000	Oversupply
9/11/2019 13:12	0:01	SSA2	0.0256515191	1.3170000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/11/2019 13:12	0:01	SSA3	0.0193059856	1.6620000000	Oversupply
9/11/2019 13:13	0:01	SSA2	0.0256515186	1.7090000000	Oversupply
9/11/2019 13:27	0:01	SSA3	0.0012522223	2.8670000000	Oversupply
9/13/2019 7:46	0:01	KWPPII	0.0005488754	0.0329325236	Oversupply
9/14/2019 8:40	0:01	AWE	0.0049999997	0.2999999821	Oversupply
9/19/2019 13:08	0:01	BS250	Data not available	Data not available	Oversupply
9/19/2019 13:08	0:01	ESA	Data not available	Data not available	Oversupply
9/19/2019 13:08	0:01	ESB	Data not available	Data not available	Oversupply
9/19/2019 13:08	0:01	SSA2	0.0005514043	2.8940000000	System constraint
9/19/2019 13:09	0:05	KWPPII	0.1708815893	4.8740134239	System constraint
9/19/2019 22:53	0:20	KWPPII	1.4419599215	20.7075729370	System constraint
9/20/2019 0:09	0:06	KWPPII	0.1117894491	20.6796302795	System constraint
9/20/2019 0:20	0:25	KWPPII	1.3477642059	20.7075729370	System constraint
9/20/2019 0:52	0:12	KWPPII	0.3265332540	20.7035808563	System constraint
9/20/2019 9:02	0:01	SSA3	0.0059234119	0.5430000000	System constraint
9/20/2019 9:02	0:01	SSA2	0.0063243687	0.8570000000	System constraint
9/20/2019 9:03	0:02	BS250	Data not available	Data not available	System constraint
9/20/2019 9:03	0:02	ESA	Data not available	Data not available	System constraint
9/20/2019 9:03	0:02	ESB	Data not available	Data not available	System constraint
9/20/2019 9:03	0:02	SSA3	0.0176414657	0.0330000000	System constraint
9/20/2019 9:03	0:03	SSA2	0.0189731059	0.0250000000	System constraint
9/20/2019 9:04	0:02	KWPPII	0.0219384193	20.7075729370	System constraint
9/20/2019 9:05	0:01	SSA3	0.0059234119	0.0330000000	System constraint
9/20/2019 9:06	0:01	SSA2	0.0063243685	0.0270000000	System constraint
9/20/2019 9:06	0:01	SSA3	0.0059234117	0.0410000000	System constraint
9/20/2019 13:20	0:01	SSA3	0.0076204625	0.0000000000	System constraint
9/20/2019 13:22	0:01	SSA2	-0.0004480411	0.5120000000	System constraint
9/20/2019 14:14	0:01	SSA3	-0.0010048277	1.1310000000	System constraint
9/20/2019 14:25	0:01	SSA3	0.0022361939	1.2060000000	System constraint
9/20/2019 14:25	0:01	SSA2	0.0019986322	1.1090000000	System constraint
9/20/2019 14:26	0:01	SSA3	0.0021886152	0.3710000000	System constraint
9/20/2019 14:26	0:01	SSA2	0.0019986322	0.3570000000	System constraint
9/20/2019 14:27	0:01	SSA3	0.0022361937	0.0840000000	System constraint
9/20/2019 14:27	0:01	SSA2	0.0019601969	0.1340000000	System constraint
9/20/2019 14:28	0:01	SSA3	0.0022361939	0.3060000000	System constraint
9/20/2019 14:28	0:01	SSA2	0.0019986319	0.2380000000	System constraint
9/20/2019 14:28	0:01	SSA3	0.0021886152	0.4220000000	System constraint
9/20/2019 14:29	0:02	SSA2	0.0250517326	0.3260000000	System constraint
9/20/2019 14:29	0:01	SSA3	0.0039717493	0.4910000000	System constraint
9/20/2019 14:30	0:01	SSA3	0.0080354516	0.3260000000	System constraint
9/20/2019 14:31	0:03	BS250	Data not available	Data not available	System constraint
9/20/2019 14:31	0:03	ESA	Data not available	Data not available	System constraint
9/20/2019 14:31	0:03	ESB	Data not available	Data not available	System constraint
9/20/2019 14:31	0:02	SSA3	0.0244557222	0.1490000000	System constraint
9/20/2019 14:31	0:01	SSA2	0.0188219890	0.3560000000	System constraint
9/20/2019 14:32	0:02	KWPPII	0.0784269969	18.5998897552	System constraint
9/20/2019 14:32	0:03	SSA2	0.0561040065	0.0220000000	System constraint
9/20/2019 14:33	0:01	SSA3	0.0080354516	0.0010000000	System constraint
9/20/2019 14:34	0:01	SSA3	0.0082101352	0.0280000000	System constraint
9/20/2019 14:34	0:01	SSA2	0.0188219890	-0.0030000000	System constraint
9/20/2019 14:35	0:01	SSA3	0.0082101354	0.0290000000	System constraint
9/20/2019 14:35	0:01	SSA2	0.0188219893	-0.0020000000	System constraint
9/20/2019 14:35	0:01	SSA3	0.0078607678	0.0330000000	System constraint
9/20/2019 14:36	0:01	SSA2	0.0188219893	-0.0030000000	System constraint
9/20/2019 14:36	0:01	SSA3	0.0082101354	0.0320000000	System constraint
9/20/2019 14:37	0:01	BS250	Data not available	Data not available	System constraint
9/20/2019 14:37	0:01	ESA	Data not available	Data not available	System constraint
9/20/2019 14:37	0:01	ESB	Data not available	Data not available	System constraint
9/20/2019 14:37	0:01	SSA2	0.0188219890	-0.0030000000	System constraint
9/20/2019 14:37	0:01	SSA3	0.0082101352	0.0070000000	System constraint
9/20/2019 14:38	0:01	SSA2	0.0188219893	0.0260000000	System constraint
9/20/2019 14:38	0:01	SSA3	0.0080354516	0.1980000000	System constraint
9/20/2019 14:38	0:01	SSA3	0.0082101354	0.5310000000	System constraint
9/20/2019 14:38	0:01	SSA2	0.0188219893	0.2090000000	System constraint
9/20/2019 14:39	0:01	SSA2	0.0188219890	0.5110000000	System constraint
9/21/2019 0:58	0:11	KWPPII	0.2673733711	20.7075729370	System constraint
9/21/2019 1:12	0:01	KWPPII	0.0025486946	20.7075729370	System constraint
9/21/2019 1:34	0:01	KWPPII	0.0026518504	20.7075729370	System constraint
9/21/2019 2:12	1:13	KWPPII	4.2202341557	20.7075729370	System constraint
9/21/2019 5:28	0:15	KWPPII	0.7013936996	20.7075729370	System constraint
9/21/2019 7:05	0:01	SSA3	0.0026486932	0.2560000000	System constraint
9/21/2019 7:06	0:01	SSA3	0.0027075530	0.1690000000	System constraint
9/21/2019 7:06	0:01	SSA2	0.0019073533	0.0580000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/21/2019 7:07	0:10	BS250	Data not available	Data not available	System constraint
9/21/2019 7:07	0:10	ESA	Data not available	Data not available	System constraint
9/21/2019 7:07	0:10	ESB	Data not available	Data not available	System constraint
9/21/2019 7:07	0:11	SSA3	0.0429931011	0.0000000000	System constraint
9/21/2019 7:07	0:18	SSA2	0.0622204651	0.0040000000	System constraint
9/21/2019 7:08	0:18	KWPPII	0.5736781756	20.7075729370	System constraint
9/21/2019 7:17	0:01	SSA3	0.0044481476	0.0040000000	System constraint
9/21/2019 7:18	0:07	BS250	Data not available	Data not available	System constraint
9/21/2019 7:18	0:07	ESA	Data not available	Data not available	System constraint
9/21/2019 7:18	0:07	ESB	Data not available	Data not available	System constraint
9/21/2019 7:18	0:07	SSA3	0.0398399311	-0.0010000000	System constraint
9/21/2019 7:25	0:01	SSA3	0.0044481477	0.0940000000	System constraint
9/21/2019 7:26	0:09	BS250	Data not available	Data not available	System constraint
9/21/2019 7:26	0:09	ESA	Data not available	Data not available	System constraint
9/21/2019 7:26	0:09	ESB	Data not available	Data not available	System constraint
9/21/2019 7:26	0:09	SSA3	0.0584873328	0.0520000000	System constraint
9/21/2019 7:26	0:01	SSA2	0.0037236809	0.0230000000	System constraint
9/21/2019 7:27	0:09	SSA2	0.0287519796	0.0070000000	System constraint
9/21/2019 7:28	0:08	KWPPII	0.1251159668	20.7075729370	System constraint
9/21/2019 7:35	0:01	SSA3	0.0052407257	0.0010000000	System constraint
9/21/2019 8:14	0:01	SSA3	0.0026516430	0.3750000000	System constraint
9/21/2019 8:16	0:01	SSA3	0.0083826860	0.3730000000	System constraint
9/21/2019 8:17	3:09	BS250	Data not available	Data not available	System constraint
9/21/2019 8:17	3:09	ESA	Data not available	Data not available	System constraint
9/21/2019 8:17	3:09	ESB	Data not available	Data not available	System constraint
9/21/2019 8:17	3:09	SSA3	6.9221562661	0.0410000000	System constraint
9/21/2019 8:17	3:10	SSA2	4.2357381947	0.0680000000	System constraint
9/21/2019 8:18	3:09	KWPPII	45.1921159714	20.7075729370	System constraint
9/21/2019 10:50	0:25	AWE	1.2574040413	20.2999992371	System constraint
9/21/2019 11:17	0:04	AWE	0.0314330737	20.1000003815	System constraint
9/21/2019 11:25	0:01	SSA3	0.0355250004	-0.0040000000	System constraint
9/21/2019 11:26	0:01	SSA3	0.0363144440	0.1490000000	System constraint
9/21/2019 11:27	0:01	SSA2	0.0244834005	0.1290000000	System constraint
9/21/2019 11:27	0:01	SSA3	0.0363144445	0.2050000000	System constraint
9/21/2019 11:28	2:28	BS250	Data not available	Data not available	System constraint
9/21/2019 11:28	2:28	ESA	Data not available	Data not available	System constraint
9/21/2019 11:28	2:28	ESB	Data not available	Data not available	System constraint
9/21/2019 11:28	0:01	SSA2	0.0240125658	0.2580000000	System constraint
9/21/2019 11:28	2:28	SSA3	5.8934122733	0.0860000000	System constraint
9/21/2019 11:28	2:28	SSA2	6.1866553368	0.0180000000	System constraint
9/21/2019 11:29	2:25	KWPPII	34.5109881858	20.7075729370	System constraint
9/21/2019 12:05	0:01	AWE	0.0048857371	20.1999988556	System constraint
9/21/2019 12:07	0:04	AWE	0.0410198847	20.3999996185	System constraint
9/21/2019 12:16	0:16	AWE	0.3006095886	20.6999988556	System constraint
9/21/2019 12:33	0:04	AWE	0.0678566297	20.2999992371	System constraint
9/21/2019 12:38	0:03	AWE	0.0143922806	19.7999992371	System constraint
9/21/2019 13:55	0:01	KWPPII	0.0032462438	19.1707210541	System constraint
9/21/2019 13:55	0:01	SSA3	0.0190053918	0.0040000000	System constraint
9/21/2019 13:56	0:01	SSA2	0.0408777779	0.0570000000	System constraint
9/21/2019 13:56	0:01	SSA3	0.0185922310	0.0200000000	System constraint
9/21/2019 13:57	0:01	SSA3	0.0185922310	0.0230000000	System constraint
9/21/2019 13:57	0:01	SSA2	0.0408777774	0.1750000000	System constraint
9/21/2019 13:58	0:01	SSA3	0.0185922310	0.1190000000	System constraint
9/21/2019 13:58	0:01	SSA2	0.0408777779	0.0390000000	System constraint
9/21/2019 13:58	0:01	SSA3	0.0190053918	0.2400000000	System constraint
9/21/2019 13:59	0:01	SSA2	0.0333244446	0.3290000000	System constraint
9/21/2019 13:59	0:01	SSA3	0.0088098363	0.2350000000	System constraint
9/21/2019 14:00	0:01	SSA2	0.0051711108	0.8480000000	System constraint
9/21/2019 14:07	0:01	SSA2	0.0051711113	1.9540000000	System constraint
9/21/2019 15:18	0:01	SSA2	0.0268722049	2.8440000000	System constraint
9/21/2019 15:18	0:01	SSA3	0.0203266008	2.4740000000	System constraint
9/21/2019 15:18	0:01	SSA2	0.0263554320	2.0830000000	System constraint
9/21/2019 15:18	0:01	SSA3	0.0203266012	0.4630000000	System constraint
9/21/2019 15:19	0:01	SSA3	0.0207783028	0.0250000000	System constraint
9/21/2019 15:19	0:01	SSA2	0.0268722054	0.0220000000	System constraint
9/21/2019 15:20	0:16	BS250	Data not available	Data not available	System constraint
9/21/2019 15:20	0:16	ESA	Data not available	Data not available	System constraint
9/21/2019 15:20	0:16	ESB	Data not available	Data not available	System constraint
9/21/2019 15:20	0:13	KWPPII	0.4795453548	18.6308269501	System constraint
9/21/2019 15:20	0:01	SSA3	0.0212300056	-0.0010000000	System constraint
9/21/2019 15:20	0:16	SSA2	0.5432459781	-0.0100000000	System constraint
9/21/2019 15:21	0:11	SSA3	0.3107759181	0.0020000000	System constraint
9/21/2019 15:31	0:01	SSA3	0.0282413224	0.0000000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/21/2019 15:32	0:01	SSA3	0.0270395637	0.0680000000	System constraint
9/21/2019 15:33	0:02	SSA3	0.0841230874	0.0410000000	System constraint
9/21/2019 15:34	0:02	KWP11	0.0204454740	18.2136821747	System constraint
9/21/2019 15:35	0:02	SSA3	0.0564826444	0.0070000000	System constraint
9/21/2019 15:36	0:01	SSA2	0.0352956060	0.0170000000	System constraint
9/21/2019 15:37	0:01	SSA2	0.0339380832	0.0450000000	System constraint
9/21/2019 15:37	0:03	SSA3	0.1117635305	0.0320000000	System constraint
9/21/2019 15:37	0:09	SSA2	0.3277848955	0.0140000000	System constraint
9/21/2019 15:38	0:07	BS250	Data not available	Data not available	System constraint
9/21/2019 15:38	0:07	ESA	Data not available	Data not available	System constraint
9/21/2019 15:38	0:07	ESB	Data not available	Data not available	System constraint
9/21/2019 15:38	0:09	KWP11	0.1117816607	18.5569782257	System constraint
9/21/2019 15:40	0:01	SSA3	0.0282413224	0.0040000000	System constraint
9/21/2019 15:41	0:05	SSA3	0.1517359602	-0.0020000000	System constraint
9/21/2019 15:45	0:01	SSA3	0.0131366635	0.0050000000	System constraint
9/21/2019 15:46	0:01	SSA2	0.0209286292	0.0040000000	System constraint
9/21/2019 15:46	0:01	SSA3	0.0128571600	0.1270000000	System constraint
9/21/2019 15:47	0:01	SSA2	0.0209286288	0.2210000000	System constraint
9/21/2019 15:47	0:01	SSA3	0.0131366633	0.3690000000	System constraint
9/21/2019 15:48	0:01	SSA2	0.0209286292	0.5160000000	System constraint
9/21/2019 15:48	0:01	SSA3	0.0131366635	0.2940000000	System constraint
9/21/2019 15:49	0:01	SSA3	0.0128571600	0.6970000000	System constraint
9/21/2019 15:49	0:01	SSA2	0.0201236820	0.5930000000	System constraint
9/21/2019 15:49	0:01	SSA3	0.0131366633	1.1320000000	System constraint
9/21/2019 15:49	0:01	SSA2	0.0209286288	1.0850000000	System constraint
9/21/2019 15:50	0:01	SSA3	0.0131366635	0.2320000000	System constraint
9/21/2019 15:50	0:01	SSA2	0.0209286292	1.1110000000	System constraint
9/21/2019 15:51	0:01	SSA3	0.0128571600	0.3800000000	System constraint
9/21/2019 15:51	0:01	SSA2	0.0209286292	0.8580000000	System constraint
9/21/2019 15:52	0:01	SSA3	0.0131366633	0.0940000000	System constraint
9/21/2019 15:52	0:01	SSA2	0.0209286288	0.1600000000	System constraint
9/21/2019 15:52	0:01	SSA3	0.0128571600	0.3970000000	System constraint
9/21/2019 15:53	0:01	SSA2	0.0209286292	0.4900000000	System constraint
9/21/2019 15:53	0:01	SSA3	0.0125776564	0.8900000000	System constraint
9/21/2019 15:54	0:01	SSA2	0.0209286292	0.9960000000	System constraint
9/21/2019 15:54	0:01	SSA3	0.0128571600	1.1940000000	System constraint
9/21/2019 15:55	0:01	SSA2	0.0209286288	1.6160000000	System constraint
9/21/2019 15:55	0:01	SSA3	0.0128571600	1.0100000000	System constraint
9/21/2019 15:56	0:01	SSA2	0.0209286292	1.6420000000	System constraint
9/21/2019 15:56	0:01	SSA3	0.0125776564	0.7370000000	System constraint
9/21/2019 15:56	0:01	SSA3	0.0128571600	0.5380000000	System constraint
9/21/2019 15:56	0:01	SSA2	0.0209286292	1.2890000000	System constraint
9/21/2019 15:58	0:01	SSA3	0.0128571600	0.4140000000	System constraint
9/21/2019 15:58	0:01	SSA2	0.0209286292	1.7070000000	System constraint
9/21/2019 15:59	0:01	SSA2	0.0175219625	1.7930000000	System constraint
9/21/2019 15:59	0:01	SSA3	0.0125071600	0.4150000000	System constraint
9/21/2019 16:00	0:01	SSA2	0.0084600409	2.0090000000	System constraint
9/21/2019 16:00	0:01	SSA3	0.0057612179	0.4370000000	System constraint
9/21/2019 16:01	0:01	SSA2	0.0084600413	1.7650000000	System constraint
9/21/2019 16:01	0:01	SSA3	0.0056359740	0.4540000000	System constraint
9/21/2019 16:02	0:01	SSA2	0.0084600413	1.5900000000	System constraint
9/21/2019 16:02	0:01	SSA3	0.0057612179	0.4070000000	System constraint
9/21/2019 16:02	0:01	SSA3	0.0057612179	0.0450000000	System constraint
9/21/2019 16:02	0:01	SSA2	0.0084600409	0.7170000000	System constraint
9/21/2019 16:03	0:01	SSA3	0.0057612179	0.0280000000	System constraint
9/21/2019 16:03	0:01	SSA2	0.0086227342	0.2880000000	System constraint
9/21/2019 16:04	0:01	SSA3	0.0057612179	0.0620000000	System constraint
9/21/2019 16:04	0:01	SSA2	0.0084600413	0.1040000000	System constraint
9/21/2019 16:05	0:01	SSA3	0.0057612179	0.2050000000	System constraint
9/21/2019 16:05	0:01	SSA2	0.0084600413	0.5540000000	System constraint
9/21/2019 16:05	0:01	SSA3	0.0056359740	0.3050000000	System constraint
9/21/2019 16:06	0:01	SSA2	0.0084600409	0.8560000000	System constraint
9/23/2019 10:47	0:01	SSA2	0.0061156972	1.8970000000	System constraint
9/23/2019 10:50	0:01	SSA2	0.0061156972	1.3250000000	System constraint
9/23/2019 10:58	0:01	SSA2	0.0061156972	1.9260000000	System constraint
9/23/2019 10:58	0:01	SSA3	-0.0001899361	1.8220000000	System constraint
9/23/2019 11:00	0:01	SSA3	0.0165936837	1.6810000000	System constraint
9/23/2019 11:00	0:01	SSA2	0.0309919050	2.8610000000	System constraint
9/23/2019 11:01	0:01	SSA3	0.0169544160	1.6170000000	System constraint
9/23/2019 11:01	0:01	SSA2	0.0309919050	2.0660000000	System constraint
9/23/2019 11:01	0:01	SSA3	0.0169544157	1.4830000000	System constraint
9/23/2019 11:02	0:01	SSA2	0.0309919045	1.9770000000	System constraint
9/23/2019 11:02	0:01	SSA3	0.0165936837	0.0440000000	System constraint



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/23/2019 11:03	0:01	SSA2	0.0309919050	1.9210000000	System constraint
9/23/2019 11:03	0:01	SSA3	0.0169544160	0.1360000000	System constraint
9/23/2019 11:03	0:01	SSA2	0.0303959067	1.0540000000	System constraint
9/23/2019 11:04	0:01	SSA3	0.0165936837	0.2330000000	System constraint
9/23/2019 11:04	0:08	SSA2	0.2789271437	0.4500000000	System constraint
9/23/2019 11:05	0:07	BS250	Data not available	Data not available	System constraint
9/23/2019 11:05	0:07	ESA	Data not available	Data not available	System constraint
9/23/2019 11:05	0:07	ESB	Data not available	Data not available	System constraint
9/23/2019 11:05	0:09	SSA3	0.1846949133	0.0120000000	System constraint
9/23/2019 11:06	0:07	KWPPII	0.2001685619	11.6341629028	System constraint
9/23/2019 11:12	0:01	SSA2	0.0309919050	0.0290000000	System constraint
9/23/2019 11:13	0:01	SSA2	0.0309919045	0.0200000000	System constraint
9/23/2019 11:13	0:01	SSA3	0.0169544160	0.0470000000	System constraint
9/23/2019 11:14	0:01	SSA2	0.0300996828	0.0270000000	System constraint
9/23/2019 11:14	0:01	SSA3	0.0153133046	0.1770000000	System constraint
9/23/2019 11:15	0:01	SSA3	0.0073829871	0.5800000000	System constraint
9/23/2019 11:15	0:01	SSA2	0.0120983631	0.0380000000	System constraint
9/23/2019 11:15	0:01	SSA3	0.0072259021	0.5630000000	System constraint
9/23/2019 11:16	0:01	SSA2	0.0120983628	0.0460000000	System constraint
9/23/2019 11:16	0:01	SSA3	0.0073829868	0.7050000000	System constraint
9/23/2019 11:16	0:01	SSA2	0.0120983631	0.0520000000	System constraint
9/23/2019 11:17	0:01	SSA3	0.0073829871	1.3190000000	System constraint
9/23/2019 11:18	0:01	SSA3	0.0072259021	1.6130000000	System constraint
9/23/2019 11:19	0:01	SSA3	0.0072259021	1.7560000000	System constraint
9/23/2019 11:20	0:01	SSA2	0.0120983628	1.5410000000	System constraint
9/23/2019 11:20	0:01	SSA3	0.0072259021	1.0580000000	System constraint
9/23/2019 11:21	0:01	SSA2	0.0120983631	0.8690000000	System constraint
9/23/2019 11:21	0:01	SSA3	0.0073829871	0.7930000000	System constraint
9/23/2019 11:22	0:01	SSA2	0.0120983631	0.4750000000	System constraint
9/23/2019 11:22	0:01	SSA3	0.0073829868	0.6820000000	System constraint
9/23/2019 11:22	0:01	SSA3	0.0072259021	0.5170000000	System constraint
9/23/2019 11:22	0:01	SSA2	0.0120983628	0.8170000000	System constraint
9/23/2019 11:25	0:01	SSA3	0.0072259021	1.6990000000	System constraint
9/23/2019 11:26	0:01	SSA3	0.0073829868	1.4360000000	System constraint
9/23/2019 11:42	0:01	SSA2	-0.0003727227	1.5150000000	System constraint
9/23/2019 11:42	0:01	SSA3	0.0055336809	2.5780000000	System constraint
9/23/2019 11:42	0:01	SSA2	-0.0003727230	1.4930000000	System constraint
9/23/2019 11:45	0:01	SSA3	0.0019166667	1.3200000000	System constraint
9/24/2019 1:39	0:06	KWPPII	0.1687090874	14.0242652893	Oversupply
9/24/2019 1:48	0:21	KWPPII	0.6416189353	18.8384017944	Oversupply
9/24/2019 2:06	0:02	KWP	0.0017582417	15.7978019714	Oversupply
9/24/2019 2:09	0:01	KWP	0.0001098951	15.0065937042	Oversupply
9/24/2019 2:10	0:02	KWPPII	0.0439741294	13.9743680954	Oversupply
9/24/2019 2:15	0:02	KWPPII	0.0052895387	10.2519950867	Oversupply
9/24/2019 2:16	0:01	KWP	0.0008791129	15.0593404770	Oversupply
9/24/2019 2:18	0:02	KWPPII	0.0023954709	10.0903263092	Oversupply
9/24/2019 2:24	0:11	KWPPII	0.0732690175	11.2659168243	Oversupply
9/24/2019 2:36	0:01	KWPPII	0.0071991603	11.4196023941	Oversupply
9/24/2019 2:45	0:02	KWPPII	0.0172878424	11.1441669464	Oversupply
9/24/2019 2:49	0:04	KWPPII	0.0220581690	11.4944486618	Oversupply
9/24/2019 2:56	0:04	KWPPII	0.0298623721	7.1214089394	Oversupply
9/24/2019 3:03	0:01	KWPPII	0.0011502425	7.0675191879	Oversupply
9/24/2019 3:06	0:01	KWPPII	0.0092301766	7.1224069595	Oversupply
9/24/2019 3:34	0:01	KWPPII	0.0034129719	1.0249000788	Oversupply
9/24/2019 3:36	0:16	AWE	0.3611925284	21.0000000000	Oversupply
9/24/2019 3:37	0:07	KWPPII	0.0194018404	1.0967528820	Oversupply
9/24/2019 3:46	0:01	KWPPII	0.0035848558	1.0149204731	Oversupply
9/24/2019 3:48	0:04	KWPPII	0.0201210072	1.0837794542	Oversupply
9/24/2019 9:46	0:01	SSA2	-0.0012671820	2.2410000000	System constraint
9/24/2019 9:48	0:01	KWPPII	0.0034729560	4.2083773613	System constraint
9/24/2019 9:56	0:01	KWPPII	0.0165205836	3.5706839561	System constraint
9/27/2019 15:40	0:32	KWPPII	3.3705944300	20.1756629944	System constraint
9/27/2019 15:44	0:29	SSA3	0.2160750061	0.7920000000	Oversupply
9/27/2019 15:44	0:29	SSA2	0.1741178635	0.5590000000	Oversupply
9/27/2019 15:47	0:06	AWE	0.2946595828	21.0000000000	Oversupply
9/28/2019 15:01	0:01	SSA2	-0.0005298865	1.0960000000	Oversupply
9/28/2019 15:17	0:01	SSA3	-0.0011406126	0.4520000000	Oversupply
9/28/2019 15:18	0:01	SSA3	-0.0012150004	0.4610000000	Oversupply
9/28/2019 15:18	0:01	SSA2	0.0064621578	0.8310000000	Oversupply
9/28/2019 15:19	0:01	SSA3	-0.0011654085	0.4610000000	Oversupply
9/28/2019 15:19	0:01	SSA2	0.0064621577	0.3180000000	Oversupply
9/28/2019 15:20	0:01	SSA3	-0.0011654086	0.4730000000	Oversupply
9/28/2019 15:20	0:01	SSA2	0.0064621578	0.0260000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/28/2019 15:21	0:01	SSA3	-0.0011406126	0.0080000000	Oversupply
9/28/2019 15:21	0:01	KWP11	0.0000402133	17.5410594940	Oversupply
9/28/2019 15:21	0:01	SSA2	0.0064621578	0.0160000000	Oversupply
9/28/2019 15:21	0:02	SSA3	-0.0023060212	0.0330000000	Oversupply
9/28/2019 15:22	0:01	SSA2	0.0064621577	0.0880000000	Oversupply
9/28/2019 15:23	0:01	SSA2	0.0064621578	0.2680000000	Oversupply
9/28/2019 15:24	0:01	SSA3	-0.0011654086	0.0450000000	Oversupply
9/28/2019 15:24	0:01	SSA2	0.0064621577	0.3460000000	Oversupply
9/28/2019 15:25	0:01	SSA2	0.0064621578	0.3980000000	Oversupply
9/28/2019 15:26	0:01	SSA3	-0.0011158167	0.0310000000	Oversupply
9/28/2019 15:26	0:01	SSA2	0.0064621578	0.2530000000	Oversupply
9/28/2019 15:27	0:01	SSA3	-0.0011158167	0.1390000000	Oversupply
9/28/2019 15:27	0:01	SSA2	0.0064621577	0.0220000000	Oversupply
9/28/2019 15:27	0:01	SSA3	-0.0011654086	0.2480000000	Facility Requested
9/28/2019 15:28	0:01	SSA2	0.0064621578	0.3620000000	Oversupply
9/28/2019 15:34	0:01	SSA3	-0.0035491593	0.4500000000	Facility Requested
9/28/2019 15:36	0:01	SSA2	0.0004084245	0.6670000000	Oversupply
9/28/2019 15:43	0:01	SSA3	-0.0034736452	0.4130000000	Facility Requested
9/28/2019 15:43	0:01	SSA2	0.0004084244	0.3170000000	Oversupply
9/28/2019 15:44	0:02	BS250	Data not available	Data not available	Oversupply
9/28/2019 15:44	0:02	ESA	Data not available	Data not available	Oversupply
9/28/2019 15:44	0:02	ESB	Data not available	Data not available	Oversupply
9/28/2019 15:44	0:01	KWP11	0.0083413442	17.1169300079	Oversupply
9/28/2019 15:44	0:01	SSA3	-0.0035269370	0.0300000000	Oversupply
9/28/2019 15:44	0:01	SSA2	0.0000504937	0.1280000000	Oversupply
9/28/2019 15:45	0:01	SSA3	-0.0031264685	0.0280000000	Oversupply
9/28/2019 15:45	0:01	SSA2	0.0018384556	0.0440000000	Oversupply
9/28/2019 15:45	0:01	SSA3	-0.0030599478	0.0450000000	Oversupply
9/28/2019 15:46	0:01	SSA2	0.0018384557	0.2710000000	Oversupply
9/28/2019 15:46	0:01	SSA3	-0.0030599478	0.0980000000	Oversupply
9/29/2019 1:51	0:02	KWP11	0.0092236837	18.9062633514	Oversupply
9/29/2019 2:25	0:01	KWP11	0.0008620262	19.1198253632	Oversupply
9/29/2019 2:27	0:05	KWP11	0.0700737635	19.1797027588	Oversupply
9/29/2019 2:37	0:47	KWP11	2.1824203650	19.1607418060	Oversupply
9/29/2019 3:27	0:01	KWP11	0.0197739919	18.0430316925	Oversupply
9/29/2019 4:24	0:01	KWP11	0.0002803167	18.3663692474	Oversupply
9/29/2019 4:28	0:02	KWP11	0.0129623095	18.8643493652	Oversupply
9/29/2019 4:45	0:01	KWP11	0.0016273499	18.9052658081	Oversupply
9/29/2019 7:31	0:01	SSA2	0.0045870652	0.2860000000	Oversupply
9/29/2019 7:31	0:01	SSA3	-0.0004793074	0.4440000000	Oversupply
9/29/2019 7:32	0:01	BS250	Data not available	Data not available	Oversupply
9/29/2019 7:32	0:01	ESA	Data not available	Data not available	Oversupply
9/29/2019 7:32	0:01	ESB	Data not available	Data not available	Oversupply
9/29/2019 7:32	0:01	SSA3	-0.0005006100	0.2400000000	Oversupply
9/29/2019 7:32	0:01	SSA2	0.0045870652	0.1380000000	Oversupply
9/29/2019 7:33	0:03	KWP11	0.0160542806	20.6975917816	Oversupply
9/29/2019 7:33	0:04	SSA2	0.0227589003	0.0060000000	Oversupply
9/29/2019 7:33	0:05	SSA3	-0.0029717061	0.0500000000	Oversupply
9/29/2019 7:34	0:01	BS250	Data not available	Data not available	Oversupply
9/29/2019 7:34	0:01	ESA	Data not available	Data not available	Oversupply
9/29/2019 7:34	0:01	ESB	Data not available	Data not available	Oversupply
9/29/2019 7:36	0:01	BS250	Data not available	Data not available	Oversupply
9/29/2019 7:36	0:01	ESA	Data not available	Data not available	Oversupply
9/29/2019 7:36	0:01	ESB	Data not available	Data not available	Oversupply
9/29/2019 7:37	0:02	KWP11	0.0075658798	20.6975917816	Oversupply
9/29/2019 7:37	0:01	SSA2	0.0045870651	-0.0030000000	Oversupply
9/29/2019 7:38	0:01	SSA2	0.0045870652	-0.0020000000	Oversupply
9/29/2019 7:38	0:01	SSA3	-0.0004899587	0.0350000000	Oversupply
9/29/2019 7:39	0:01	SSA3	-0.0005006100	0.0450000000	Facility Requested
9/29/2019 7:39	0:01	SSA2	0.0045870652	0.1020000000	Oversupply
9/29/2019 7:40	0:01	BS250	Data not available	Data not available	Oversupply
9/29/2019 7:40	0:01	ESA	Data not available	Data not available	Oversupply
9/29/2019 7:40	0:01	ESB	Data not available	Data not available	Oversupply
9/29/2019 7:40	0:01	SSA3	-0.0004899587	0.0160000000	Oversupply
9/29/2019 7:40	0:01	SSA2	0.0045870651	0.1190000000	Oversupply
9/29/2019 7:40	0:01	SSA3	-0.0005006100	0.0420000000	Oversupply
9/29/2019 7:40	0:01	SSA2	0.0045870652	0.1440000000	Oversupply
9/29/2019 7:41	0:01	SSA3	-0.0004899587	0.0490000000	Facility Requested
9/29/2019 7:42	0:01	SSA2	0.0045870651	0.4230000000	Oversupply
9/29/2019 8:17	0:01	SSA2	0.0096620327	0.4960000000	Oversupply
9/29/2019 8:18	0:01	SSA2	0.0096620327	0.4980000000	Oversupply
9/29/2019 8:19	0:01	SSA2	0.0096620325	0.8120000000	Oversupply
9/29/2019 8:19	0:01	SSA2	0.0096620327	0.5420000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/29/2019 8:20	0:01	SSA3	-0.0011399962	0.3350000000	Oversupply
9/29/2019 8:20	0:01	SSA2	0.0096620327	0.3160000000	Oversupply
9/29/2019 8:21	0:01	SSA3	-0.0011399962	0.2540000000	Facility Requested
9/29/2019 8:21	0:01	SSA2	0.0096620325	0.3230000000	Oversupply
9/29/2019 8:21	0:01	SSA3	-0.0010914857	0.3290000000	Oversupply
9/29/2019 8:22	0:01	SSA2	0.0096620327	0.3320000000	Oversupply
9/29/2019 8:22	0:01	SSA3	-0.0011399962	0.3300000000	Facility Requested
9/29/2019 8:23	0:01	SSA2	0.0092904159	0.0940000000	Oversupply
9/29/2019 8:23	0:01	SSA3	-0.0011399962	0.3660000000	Facility Requested
9/29/2019 8:24	0:01	SSA2	0.0096620327	0.1640000000	Oversupply
9/29/2019 8:24	0:01	SSA3	-0.0011157410	0.0780000000	Oversupply
9/29/2019 8:25	0:01	SSA3	-0.0011399962	0.2040000000	Oversupply
9/29/2019 8:25	0:01	SSA2	0.0096620327	0.2190000000	Oversupply
9/29/2019 8:25	0:01	SSA3	-0.0011399962	0.0320000000	Oversupply
9/29/2019 8:25	5:55	SSA2	11.4795492679	0.0210000000	Oversupply
9/29/2019 8:26	5:56	BS250	Data not available	Data not available	Oversupply
9/29/2019 8:26	5:56	ESA	Data not available	Data not available	Oversupply
9/29/2019 8:26	5:56	ESB	Data not available	Data not available	Oversupply
9/29/2019 8:26	0:04	SSA3	-0.0036672153	0.0010000000	Oversupply
9/29/2019 8:27	5:55	KWPIL	58.3641663233	20.6985912323	Oversupply
9/29/2019 8:30	0:01	SSA3	0.0025496810	-0.0010000000	Oversupply
9/29/2019 8:31	5:50	SSA3	1.2309509664	-0.0010000000	Oversupply
9/29/2019 14:21	0:01	SSA2	0.0355007827	-0.0010000000	Oversupply
9/29/2019 14:21	0:01	SSA3	0.0031198071	-0.0030000000	Facility Requested
9/29/2019 14:22	0:01	SSA2	0.0355007831	0.0020000000	Oversupply
9/29/2019 14:22	0:01	SSA3	0.0031876290	0.0270000000	Facility Requested
9/29/2019 14:23	0:01	SSA3	0.0031876290	0.0400000000	Facility Requested
9/29/2019 14:23	0:01	SSA2	0.0355007831	0.0460000000	Oversupply
9/29/2019 14:23	0:02	SSA3	0.0094272432	0.0100000000	Oversupply
9/29/2019 14:23	0:02	SSA2	0.0703188583	0.0090000000	Oversupply
9/29/2019 14:24	0:02	BS250	Data not available	Data not available	Oversupply
9/29/2019 14:24	0:02	ESA	Data not available	Data not available	Oversupply
9/29/2019 14:24	0:02	ESB	Data not available	Data not available	Oversupply
9/29/2019 14:24	0:02	KWPIL	0.0272882144	20.1028118134	Oversupply
9/29/2019 14:25	0:01	SSA2	0.0355007831	-0.0030000000	Oversupply
9/29/2019 14:26	0:01	SSA3	0.0031876290	0.0950000000	Oversupply
9/29/2019 14:26	0:01	SSA2	0.0355007831	-0.0030000000	Oversupply
9/29/2019 14:26	0:01	SSA3	0.0031198071	0.0170000000	Oversupply
9/29/2019 14:27	0:01	SSA2	0.0355007827	-0.0030000000	Oversupply
9/29/2019 14:27	0:01	SSA3	0.0031876290	0.1560000000	Facility Requested
9/29/2019 14:28	0:01	SSA2	0.0355007831	-0.0030000000	Oversupply
9/29/2019 14:28	0:01	SSA3	0.0031876290	0.2300000000	Facility Requested
9/29/2019 14:30	0:01	SSA2	0.0231742926	0.3000000000	Oversupply
9/29/2019 14:31	0:01	SSA3	-0.0009249405	0.3910000000	Facility Requested
9/29/2019 14:31	0:01	SSA2	0.0231742926	0.7370000000	Oversupply
9/29/2019 14:32	0:01	SSA3	-0.0009450479	0.4130000000	Facility Requested
9/29/2019 14:33	0:01	SSA3	-0.0009450479	0.4520000000	Facility Requested
9/29/2019 14:33	0:01	SSA2	0.0231742926	0.5940000000	Oversupply
9/29/2019 14:33	0:01	SSA3	-0.0009450479	0.3910000000	Facility Requested
9/29/2019 14:34	0:01	SSA3	-0.0009048331	0.4220000000	Facility Requested
9/29/2019 14:35	0:01	SSA2	0.0231742921	1.1680000000	Oversupply
9/29/2019 14:35	0:01	SSA3	-0.0009450479	0.4390000000	Facility Requested
9/29/2019 14:36	0:01	SSA2	0.0231742926	1.5740000000	Oversupply
9/29/2019 14:36	0:01	SSA3	-0.0009450479	0.4290000000	Facility Requested
9/29/2019 14:36	0:01	SSA2	0.0231742926	1.5290000000	Oversupply
9/29/2019 14:37	0:01	SSA3	-0.0009450479	0.4150000000	Facility Requested
9/29/2019 14:37	0:01	SSA2	0.0231742921	1.8100000000	Oversupply
9/29/2019 14:37	0:01	SSA3	-0.0009450479	0.4530000000	Facility Requested
9/29/2019 14:38	0:01	SSA3	-0.0009450479	0.4270000000	Facility Requested
9/29/2019 14:38	0:01	SSA2	0.0231742926	2.1420000000	Oversupply
9/29/2019 14:39	0:01	SSA3	-0.0009048331	0.4320000000	Facility Requested
9/29/2019 14:39	0:01	SSA2	0.0222829733	1.4760000000	Oversupply
9/29/2019 14:40	0:01	SSA3	-0.0009450479	0.4040000000	Facility Requested
9/29/2019 14:40	0:01	SSA2	0.0231742926	0.9840000000	Oversupply
9/29/2019 14:41	0:01	SSA2	0.0231742926	0.3970000000	Oversupply
9/29/2019 14:41	0:01	SSA3	-0.0009249405	0.2690000000	Oversupply
9/29/2019 14:42	0:01	SSA2	0.0231742921	0.0740000000	Oversupply
9/29/2019 14:42	0:01	SSA3	-0.0009450479	0.2480000000	Oversupply
9/29/2019 14:42	0:01	SSA2	0.0231742926	0.2130000000	Oversupply
9/29/2019 14:43	0:01	SSA3	-0.0009450479	0.0610000000	Oversupply
9/29/2019 14:43	0:01	SSA2	0.0231742926	0.1810000000	Oversupply
9/29/2019 14:44	0:01	SSA3	-0.0009450479	0.1930000000	Facility Requested
9/29/2019 14:44	0:01	SSA2	0.0248609588	0.7330000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/29/2019 14:44	0:01	SSA3	0.0005861706	0.2940000000	Facility Requested
9/29/2019 14:45	0:01	SSA2	0.0298389879	1.0440000000	Oversupply
9/29/2019 14:45	0:01	SSA3	0.0013308618	0.3340000000	Facility Requested
9/29/2019 14:46	0:01	SSA3	0.0013308618	0.2680000000	Oversupply
9/29/2019 14:46	0:01	SSA2	0.0298389879	0.1820000000	Oversupply
9/29/2019 14:47	0:02	BS250	Data not available	Data not available	Oversupply
9/29/2019 14:47	0:02	ESA	Data not available	Data not available	Oversupply
9/29/2019 14:47	0:02	ESB	Data not available	Data not available	Oversupply
9/29/2019 14:47	0:02	SSA3	0.0026334074	0.0740000000	Oversupply
9/29/2019 14:47	0:02	SSA2	0.0596779753	0.0310000000	Oversupply
9/29/2019 14:48	0:02	KWPPII	0.0272699674	19.3633270264	Oversupply
9/29/2019 14:48	0:01	SSA3	0.0013308618	-0.0040000000	Oversupply
9/29/2019 14:49	0:01	SSA2	0.0298389879	-0.0030000000	Oversupply
9/29/2019 14:49	0:01	SSA3	0.0013025456	0.0340000000	Facility Requested
9/29/2019 14:49	0:01	SSA2	0.0298389874	-0.0030000000	Oversupply
9/29/2019 14:50	0:01	SSA3	0.0013025456	0.0530000000	Facility Requested
9/29/2019 14:50	0:01	SSA2	0.0298389879	-0.0030000000	Oversupply
9/29/2019 14:51	0:01	SSA3	0.0013308618	0.0440000000	Facility Requested
9/29/2019 14:51	0:01	SSA3	0.0013308618	0.0300000000	Facility Requested
9/29/2019 14:52	0:01	SSA2	0.0298389874	-0.0020000000	Oversupply
9/29/2019 14:52	0:01	SSA3	0.0013025456	0.0290000000	Facility Requested
9/29/2019 14:53	0:01	SSA3	0.0013308618	0.0510000000	Facility Requested
9/29/2019 14:53	0:02	SSA2	0.0591041490	0.2520000000	Oversupply
9/29/2019 14:54	0:01	SSA3	0.0013308618	0.2050000000	Facility Requested
9/29/2019 14:54	0:01	SSA3	0.0013025456	0.2980000000	Facility Requested
9/29/2019 14:55	0:01	SSA2	0.0298389879	0.6760000000	Oversupply
9/29/2019 14:55	0:01	SSA3	0.0013308618	0.3360000000	Facility Requested
9/29/2019 14:56	0:01	SSA2	0.0298389874	1.7510000000	Oversupply
9/29/2019 14:56	0:01	SSA3	0.0013308618	0.3770000000	Facility Requested
9/29/2019 14:56	0:01	SSA2	0.0298389879	2.3240000000	Oversupply
9/29/2019 14:57	0:01	SSA3	0.0013308618	0.3910000000	Facility Requested
9/29/2019 14:57	0:01	SSA2	0.0298389879	1.6170000000	Oversupply
9/29/2019 14:58	0:01	SSA3	0.0013025456	0.4300000000	Facility Requested
9/29/2019 14:58	0:01	SSA2	0.0298389874	1.8380000000	Oversupply
9/29/2019 14:58	0:01	SSA3	0.0013308618	0.4080000000	Facility Requested
9/29/2019 15:00	0:01	SSA2	0.0130202603	2.4740000000	Oversupply
9/29/2019 15:01	0:01	SSA3	-0.0019064138	0.4000000000	Facility Requested
9/29/2019 15:01	0:01	SSA2	0.0130202598	2.0540000000	Oversupply
9/29/2019 15:02	0:01	SSA2	0.0130202603	2.3280000000	Oversupply
9/29/2019 15:03	0:01	SSA2	0.0130202598	2.1700000000	Oversupply
9/29/2019 15:04	0:01	SSA2	0.0130202603	1.7490000000	Oversupply
9/29/2019 15:05	0:01	SSA2	0.0130202603	1.5100000000	Oversupply
9/29/2019 15:06	0:01	SSA2	0.0130202598	1.3970000000	Oversupply
9/29/2019 15:08	0:01	SSA2	0.0130202603	2.1090000000	Oversupply
9/29/2019 15:08	0:01	SSA2	0.0130202603	1.3170000000	Oversupply
9/29/2019 15:10	0:01	SSA2	0.0130202598	1.0080000000	Oversupply
9/29/2019 15:11	0:01	SSA2	0.0130202603	1.7050000000	Oversupply
9/29/2019 15:12	0:01	SSA2	0.0130202603	1.8420000000	Oversupply
9/29/2019 15:14	0:01	SSA2	0.0130202603	2.4140000000	Oversupply
9/29/2019 15:21	0:01	SSA2	0.0028872464	2.5960000000	Oversupply
9/29/2019 15:22	0:01	SSA2	0.0028872464	2.6890000000	Oversupply
9/29/2019 15:23	0:01	SSA2	0.0028872460	2.6210000000	Oversupply
9/29/2019 15:24	0:01	SSA2	0.0027761986	1.1300000000	Oversupply
9/30/2019 1:23	0:02	KWPPII	0.0040350278	20.6985912323	Oversupply
9/30/2019 1:42	0:03	KWPPII	0.0303255081	20.6906070709	Oversupply
9/30/2019 1:46	0:05	KWPPII	0.0480378151	20.6926021576	Oversupply
9/30/2019 1:52	0:01	KWPPII	0.0077257474	20.6786308289	Oversupply
9/30/2019 2:04	3:00	KWPPII	14.1735035578	20.7075729370	Oversupply
9/30/2019 5:28	0:09	KWPPII	0.0770008087	20.6985912323	Oversupply
9/30/2019 8:55	0:01	SSA2	0.0016378978	0.8450000000	Oversupply
9/30/2019 8:56	0:01	SSA2	0.0016378975	0.7000000000	Oversupply
9/30/2019 8:56	0:01	SSA2	0.0016378978	0.5170000000	Oversupply
9/30/2019 8:57	0:01	SSA2	0.0016378978	1.2870000000	Oversupply
9/30/2019 8:58	0:01	SSA2	0.0016378975	1.2590000000	Oversupply
9/30/2019 8:59	0:01	SSA2	-0.0012687689	0.9120000000	Oversupply
9/30/2019 9:15	0:01	SSA2	-0.0035368808	1.9170000000	Oversupply
9/30/2019 9:41	0:01	SSA2	0.0020885019	2.1770000000	Oversupply
9/30/2019 9:41	0:01	SSA3	-0.0031997614	0.4220000000	Facility Requested
9/30/2019 9:42	0:01	SSA3	-0.0032693214	0.4190000000	Facility Requested
9/30/2019 9:42	0:01	SSA2	0.0020885022	0.0250000000	Oversupply
9/30/2019 9:43	0:01	SSA3	-0.0031997614	0.3930000000	Facility Requested
9/30/2019 9:45	0:01	SSA3	-0.0016159191	0.3950000000	Facility Requested
9/30/2019 9:47	0:01	SSA2	0.0114045674	0.4290000000	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/30/2019 9:48	0:01	SSA2	0.0114045678	0.5560000000	Oversupply
9/30/2019 9:49	0:01	SSA2	0.0114045678	0.8800000000	Oversupply
9/30/2019 9:50	0:01	SSA2	0.0114045674	1.2140000000	Oversupply
9/30/2019 9:51	0:01	SSA2	0.0114045678	1.8240000000	Oversupply
9/30/2019 9:52	0:01	SSA2	0.0114045678	0.5390000000	Oversupply
9/30/2019 9:53	0:01	SSA2	0.0114045674	0.4280000000	Oversupply
9/30/2019 9:54	0:01	SSA2	0.0114045678	1.3650000000	Oversupply
9/30/2019 9:55	0:01	SSA2	0.0114045674	1.8910000000	Oversupply
9/30/2019 10:02	0:01	SSA2	0.0075105093	1.7930000000	Oversupply
9/30/2019 10:03	0:01	SSA2	0.0075105090	0.9580000000	Oversupply
9/30/2019 10:04	0:01	SSA2	0.0075105093	1.4070000000	Oversupply
9/30/2019 10:05	0:01	SSA3	-0.0013567534	0.4400000000	Facility Requested
9/30/2019 10:05	0:01	SSA2	0.0072216433	0.6310000000	Oversupply
9/30/2019 10:05	0:01	SSA3	-0.0013278863	0.4430000000	Facility Requested
9/30/2019 10:06	0:01	SSA2	0.0073660767	0.3400000000	Oversupply
9/30/2019 10:06	0:01	SSA3	-0.0013567534	0.3870000000	Facility Requested
9/30/2019 10:06	0:01	SSA2	0.0075105090	0.7890000000	Oversupply
9/30/2019 10:07	0:01	SSA3	-0.0013567534	0.3870000000	Facility Requested
9/30/2019 10:07	0:01	SSA2	0.0075105093	1.2360000000	Oversupply
9/30/2019 10:24	0:01	SSA2	0.0039246526	1.9170000000	Oversupply
9/30/2019 10:26	0:01	SSA2	0.0039246526	0.8840000000	Oversupply
9/30/2019 10:27	0:01	SSA2	0.0039246523	0.9620000000	Oversupply
9/30/2019 10:28	0:01	SSA2	0.0037737045	0.7320000000	Oversupply
9/30/2019 10:32	0:01	SSA2	0.0003549288	1.9930000000	Oversupply
9/30/2019 10:37	0:01	SSA2	0.0003618880	1.0380000000	Oversupply
9/30/2019 10:53	0:01	SSA2	0.0070698388	1.2850000000	Oversupply
9/30/2019 10:54	0:01	SSA2	0.0072084633	1.3180000000	Oversupply
9/30/2019 11:12	0:01	SSA2	0.0001706121	1.7100000000	Oversupply
9/30/2019 11:14	0:01	SSA2	0.0020417235	0.9290000000	Oversupply
9/30/2019 11:15	0:01	SSA2	0.0107914481	0.4870000000	Oversupply
9/30/2019 11:15	0:01	SSA2	0.0107914483	0.6190000000	Oversupply
9/30/2019 11:16	0:03	SSA2	0.0321668169	0.0840000000	Oversupply
9/30/2019 11:17	0:05	BS250	Data not available	Data not available	Oversupply
9/30/2019 11:17	0:05	ESA	Data not available	Data not available	Oversupply
9/30/2019 11:17	0:05	ESB	Data not available	Data not available	Oversupply
9/30/2019 11:17	0:02	SSA3	0.0065733334	0.0070000000	Oversupply
9/30/2019 11:18	0:01	KWPPII	0.0120297114	19.2146320343	Oversupply
9/30/2019 11:19	0:01	SSA2	0.0107914483	-0.0030000000	Oversupply
9/30/2019 11:19	0:01	SSA3	0.0022233333	0.0310000000	Facility Requested
9/30/2019 11:20	0:02	SSA2	0.0215828965	-0.0030000000	Oversupply
9/30/2019 11:20	0:02	SSA3	0.0043983333	0.0320000000	Oversupply
9/30/2019 11:21	0:02	KWPPII	0.0111189842	18.7096652985	Oversupply
9/30/2019 11:21	0:01	SSA3	0.0022233333	0.0580000000	Facility Requested
9/30/2019 11:21	0:01	SSA2	0.0107914483	-0.0030000000	Oversupply
9/30/2019 11:22	0:01	SSA3	0.0021750000	0.0230000000	Facility Requested
9/30/2019 11:22	0:01	SSA2	0.0107914483	0.0120000000	Oversupply
9/30/2019 11:23	0:01	SSA3	0.0022233333	0.1000000000	Facility Requested
9/30/2019 11:23	0:01	SSA2	0.0107914481	0.2480000000	Oversupply
9/30/2019 11:24	0:01	SSA3	0.0022233333	0.2320000000	Facility Requested
9/30/2019 11:24	0:01	SSA2	0.0107914483	0.5290000000	Oversupply
9/30/2019 11:24	0:01	SSA3	0.0021750000	0.3180000000	Facility Requested
9/30/2019 11:25	0:01	SSA3	0.0022233333	0.3510000000	Facility Requested
9/30/2019 11:26	0:01	SSA2	0.0107914481	0.5070000000	Oversupply
9/30/2019 11:26	0:01	SSA3	0.0021750000	0.3950000000	Facility Requested
9/30/2019 11:27	0:01	SSA2	0.0107914483	0.3720000000	Oversupply
9/30/2019 11:27	0:01	SSA3	0.0022716667	0.3870000000	Facility Requested
9/30/2019 11:28	0:01	SSA3	0.0022233333	0.3940000000	Facility Requested
9/30/2019 11:28	0:01	SSA2	0.0107914483	0.4640000000	Oversupply
9/30/2019 11:28	0:02	SSA3	0.0074022116	0.0230000000	Oversupply
9/30/2019 11:28	0:03	SSA2	0.0461949008	0.0140000000	Oversupply
9/30/2019 11:29	0:02	BS250	Data not available	Data not available	Oversupply
9/30/2019 11:29	0:02	ESA	Data not available	Data not available	Oversupply
9/30/2019 11:29	0:02	ESB	Data not available	Data not available	Oversupply
9/30/2019 11:29	0:02	KWPPII	0.0383481820	16.5590724945	Oversupply
9/30/2019 11:31	0:01	SSA3	0.0024103157	0.0020000000	Facility Requested
9/30/2019 11:31	0:01	SSA2	0.0226661989	0.0360000000	Oversupply
9/30/2019 11:31	0:01	SSA3	0.0024103157	0.1490000000	Facility Requested
9/30/2019 11:32	0:01	SSA2	0.0226661987	0.0460000000	Oversupply
9/30/2019 11:32	0:01	SSA3	0.0024638783	0.2500000000	Facility Requested
9/30/2019 11:33	0:01	SSA2	0.0226661989	0.0240000000	Oversupply
9/30/2019 11:33	0:01	SSA3	0.0024638783	0.0900000000	Facility Requested
9/30/2019 11:34	0:01	SSA2	0.0226661989	0.0380000000	Oversupply
9/30/2019 11:34	0:01	SSA3	0.0025174408	0.2160000000	Facility Requested



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/30/2019 11:34	0:01	SSA3	0.0024638783	0.2930000000	Oversupply
9/30/2019 11:34	0:01	SSA2	0.0226661987	0.0960000000	Oversupply
9/30/2019 11:35	0:02	SSA3	0.0073916348	0.0100000000	Oversupply
9/30/2019 11:35	0:02	SSA2	0.0453323979	0.0060000000	Oversupply
9/30/2019 11:36	0:02	BS250	Data not available	Data not available	Oversupply
9/30/2019 11:36	0:02	ESA	Data not available	Data not available	Oversupply
9/30/2019 11:36	0:02	ESB	Data not available	Data not available	Oversupply
9/30/2019 11:36	0:02	KWPPII	0.0330754598	14.2947111130	Oversupply
9/30/2019 11:37	0:01	SSA2	0.0226661987	0.0000000000	Oversupply
9/30/2019 11:37	0:01	SSA3	0.0024103157	0.0440000000	Facility Requested
9/30/2019 11:38	0:01	SSA2	0.0226661989	0.1770000000	Oversupply
9/30/2019 11:38	0:01	SSA3	0.0025174408	0.1980000000	Facility Requested
9/30/2019 11:39	0:34	SSA2	1.0111930155	0.0290000000	Oversupply
9/30/2019 11:39	0:33	SSA3	0.1701618411	0.0040000000	Oversupply
9/30/2019 11:40	0:33	BS250	Data not available	Data not available	Oversupply
9/30/2019 11:40	0:33	ESA	Data not available	Data not available	Oversupply
9/30/2019 11:40	0:33	ESB	Data not available	Data not available	Oversupply
9/30/2019 11:40	0:27	KWPPII	1.1207588037	15.7327651978	Oversupply
9/30/2019 12:08	0:05	KWPPII	0.1120344639	12.9863920212	Oversupply
9/30/2019 12:12	0:01	SSA3	0.0041144445	0.0800000000	Oversupply
9/30/2019 12:13	0:01	SSA2	0.0217279768	0.1200000000	Oversupply
9/30/2019 12:13	0:01	SSA3	0.0041144445	0.2050000000	Facility Requested
9/30/2019 12:14	0:01	SSA2	0.0084390876	0.9210000000	Oversupply
9/30/2019 12:15	0:01	SSA3	-0.0005366667	0.3000000000	Facility Requested
9/30/2019 12:15	0:01	SSA2	0.0106193776	0.4830000000	Oversupply
9/30/2019 12:15	0:01	SSA3	-0.0005250000	0.3440000000	Facility Requested
9/30/2019 12:16	0:01	SSA3	-0.0005366667	0.3990000000	Facility Requested
9/30/2019 12:16	0:01	SSA2	0.0106193776	0.4890000000	Oversupply
9/30/2019 12:17	0:01	SSA3	-0.0005366667	0.3780000000	Facility Requested
9/30/2019 12:17	0:01	SSA2	0.0106193773	0.7640000000	Oversupply
9/30/2019 12:18	0:01	SSA3	-0.0005250000	0.3810000000	Facility Requested
9/30/2019 12:18	0:01	SSA2	0.0106193776	0.5880000000	Oversupply
9/30/2019 12:18	0:01	SSA3	-0.0005366667	0.4250000000	Facility Requested
9/30/2019 12:19	0:01	SSA2	0.0106193776	0.6310000000	Oversupply
9/30/2019 12:19	0:01	SSA3	-0.0005366667	0.4150000000	Facility Requested
9/30/2019 12:20	0:01	SSA2	0.0106193773	0.8990000000	Oversupply
9/30/2019 12:20	0:01	SSA3	-0.0005250000	0.4110000000	Facility Requested
9/30/2019 12:20	0:01	SSA2	0.0106193776	0.5620000000	Oversupply
9/30/2019 12:21	0:01	SSA3	-0.0005366667	0.4060000000	Facility Requested
9/30/2019 12:21	0:01	SSA2	0.0106193776	0.9560000000	Oversupply
9/30/2019 12:22	0:01	SSA2	0.0106193773	1.5270000000	Oversupply
9/30/2019 12:30	0:01	SSA2	0.0153179172	1.8020000000	Oversupply
9/30/2019 12:31	0:01	SSA2	0.0153179172	1.8760000000	Oversupply
9/30/2019 12:32	0:01	SSA2	0.0153179168	1.2940000000	Oversupply
9/30/2019 12:34	0:01	SSA2	0.0153179168	2.5270000000	Oversupply
9/30/2019 12:35	0:01	SSA2	0.0153179172	1.4610000000	Oversupply
9/30/2019 12:36	0:01	SSA2	0.0153179172	1.3490000000	Oversupply
9/30/2019 12:37	0:01	SSA2	0.0153179168	0.0340000000	Oversupply
9/30/2019 12:38	0:01	SSA2	0.0153179172	0.4100000000	Oversupply
9/30/2019 12:39	0:01	SSA2	0.0153179172	0.7610000000	Oversupply
9/30/2019 12:39	0:01	SSA3	0.0001250000	0.4110000000	Oversupply
9/30/2019 12:39	0:01	SSA2	0.0153179168	0.0330000000	Oversupply
9/30/2019 12:40	0:01	KWPPII	0.0023620288	15.9912357330	Oversupply
9/30/2019 12:40	0:01	SSA3	0.0001277778	0.0670000000	Facility Requested
9/30/2019 12:40	0:01	SSA2	0.0153179172	0.2410000000	Oversupply
9/30/2019 12:40	0:01	SSA3	0.0001277778	0.2200000000	Facility Requested
9/30/2019 12:41	0:01	SSA2	0.0153179172	0.3310000000	Oversupply
9/30/2019 12:41	0:01	SSA3	0.0001277778	0.3050000000	Facility Requested
9/30/2019 12:42	0:01	SSA3	0.0001250000	0.3650000000	Facility Requested
9/30/2019 12:42	0:01	SSA2	0.0153179168	0.2080000000	Oversupply
9/30/2019 12:43	0:01	SSA3	0.0001277778	0.3360000000	Oversupply
9/30/2019 12:43	0:11	SSA2	0.1708686905	0.1440000000	Oversupply
9/30/2019 12:43	0:10	SSA3	0.0338266667	0.0200000000	Oversupply
9/30/2019 12:44	0:10	BS250	Data not available	Data not available	Oversupply
9/30/2019 12:44	0:10	ESA	Data not available	Data not available	Oversupply
9/30/2019 12:44	0:10	ESB	Data not available	Data not available	Oversupply
9/30/2019 12:44	0:10	KWPPII	0.3445598761	20.3263530731	Oversupply
9/30/2019 12:53	0:01	SSA3	0.0029505555	0.0540000000	Facility Requested
9/30/2019 12:54	0:01	SSA2	0.0126772413	0.0250000000	Oversupply
9/30/2019 12:54	0:01	SSA3	0.0028877778	0.2280000000	Facility Requested
9/30/2019 12:55	0:01	SSA2	0.0126772413	0.0430000000	Oversupply
9/30/2019 12:55	0:01	SSA3	0.0029505556	0.2460000000	Facility Requested
9/30/2019 12:56	0:01	SSA3	0.0028877778	0.3250000000	Facility Requested



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/30/2019 12:57	0:01	SSA3	0.0028877777	0.3670000000	Facility Requested
9/30/2019 12:57	0:01	SSA2	0.0126772413	0.4720000000	Oversupply
9/30/2019 13:04	0:01	SSA2	0.0059280467	0.9450000000	Oversupply
9/30/2019 13:05	0:01	SSA2	0.0059280465	0.0670000000	Oversupply
9/30/2019 13:06	0:01	SSA2	0.0059280467	0.2430000000	Oversupply
9/30/2019 13:07	0:01	SSA3	-0.0002149910	0.3810000000	Facility Requested
9/30/2019 13:07	0:01	SSA2	0.0059280467	0.0900000000	Oversupply
9/30/2019 13:07	0:01	SSA3	-0.0002149910	0.3060000000	Facility Requested
9/30/2019 13:08	0:01	SSA2	0.0059280465	0.4370000000	Oversupply
9/30/2019 13:08	0:01	SSA3	-0.0002103173	0.3710000000	Facility Requested
9/30/2019 13:09	0:01	SSA2	0.0059280467	0.4490000000	Oversupply
9/30/2019 13:09	0:01	SSA3	-0.0002149910	0.3940000000	Facility Requested
9/30/2019 13:10	0:01	SSA3	-0.0002149910	0.4090000000	Facility Requested
9/30/2019 13:10	0:01	SSA2	0.0059280467	0.1530000000	Oversupply
9/30/2019 13:10	0:01	SSA3	-0.0002196647	0.2310000000	Facility Requested
9/30/2019 13:11	0:01	SSA2	0.0059280465	0.2630000000	Oversupply
9/30/2019 13:11	0:01	SSA3	-0.0002103172	0.2700000000	Facility Requested
9/30/2019 13:11	0:01	SSA2	0.0059280467	0.1850000000	Oversupply
9/30/2019 13:12	0:01	SSA3	-0.0002149910	0.3110000000	Facility Requested
9/30/2019 13:12	0:01	SSA2	0.0059280467	0.1000000000	Oversupply
9/30/2019 13:13	0:01	SSA3	-0.0002103172	0.3030000000	Oversupply
9/30/2019 13:13	0:01	SSA2	0.0059280465	0.2080000000	Oversupply
9/30/2019 13:13	0:01	SSA3	-0.0002149910	0.2910000000	Facility Requested
9/30/2019 13:14	0:01	SSA2	0.0085273790	0.5830000000	Oversupply
9/30/2019 13:14	0:01	SSA3	0.0019485716	0.3390000000	Facility Requested
9/30/2019 13:15	0:01	SSA2	0.0122203666	0.4140000000	Oversupply
9/30/2019 13:15	0:01	SSA3	0.0034727777	0.1840000000	Facility Requested
9/30/2019 13:16	0:01	SSA2	0.0122203666	0.3300000000	Oversupply
9/30/2019 13:16	0:01	SSA3	0.0034727778	0.2820000000	Facility Requested
9/30/2019 13:17	0:01	SSA3	0.0033988889	0.2970000000	Facility Requested
9/30/2019 13:17	0:01	SSA2	0.0122203664	0.0420000000	Oversupply
9/30/2019 13:17	0:02	SSA3	0.0103444444	0.0220000000	Oversupply
9/30/2019 13:17	0:03	SSA2	0.0366610995	0.0110000000	Oversupply
9/30/2019 13:18	0:03	BS250	Data not available	Data not available	Oversupply
9/30/2019 13:18	0:03	ESA	Data not available	Data not available	Oversupply
9/30/2019 13:18	0:03	ESB	Data not available	Data not available	Oversupply
9/30/2019 13:18	0:03	KWPPII	0.0319026629	20.4720554352	Oversupply
9/30/2019 13:20	0:01	SSA3	0.0034727777	-0.0050000000	Oversupply
9/30/2019 13:20	0:01	SSA2	0.0122203666	0.0010000000	Oversupply
9/30/2019 13:20	0:01	SSA3	0.0034727778	0.0480000000	Facility Requested
9/30/2019 13:21	0:01	SSA2	0.0122203666	-0.0020000000	Oversupply
9/30/2019 13:21	0:01	SSA3	0.0034727777	0.2000000000	Facility Requested
9/30/2019 13:22	0:01	SSA2	0.0122203664	0.0260000000	Oversupply
9/30/2019 13:22	0:01	SSA3	0.0036205556	0.1580000000	Facility Requested
9/30/2019 13:23	0:01	SSA2	0.0122203666	0.0360000000	Oversupply
9/30/2019 13:23	0:08	SSA3	0.0332900611	0.1480000000	Oversupply
9/30/2019 13:24	0:06	BS250	Data not available	Data not available	Oversupply
9/30/2019 13:24	0:06	ESA	Data not available	Data not available	Oversupply
9/30/2019 13:24	0:06	ESB	Data not available	Data not available	Oversupply
9/30/2019 13:24	0:06	SSA2	0.0850014405	0.0020000000	Oversupply
9/30/2019 13:25	0:06	KWPPII	0.1740026792	20.6317272186	Oversupply
9/30/2019 13:30	0:01	SSA2	0.0216049706	0.0010000000	Oversupply
9/30/2019 13:30	0:01	SSA2	0.0216049709	0.0190000000	Oversupply
9/30/2019 13:31	0:01	SSA3	0.0025430576	0.0340000000	Facility Requested
9/30/2019 13:31	0:01	SSA2	0.0216049709	0.2500000000	Oversupply
9/30/2019 13:31	0:02	SSA3	0.0050320077	0.1000000000	Facility Requested
9/30/2019 13:32	0:01	SSA2	0.0216049706	0.2780000000	Oversupply
9/30/2019 13:33	0:01	SSA3	0.0025430576	0.2470000000	Facility Requested
9/30/2019 13:33	0:01	SSA2	0.0216049709	0.4760000000	Oversupply
9/30/2019 13:34	0:01	SSA3	0.0025430576	0.2900000000	Facility Requested
9/30/2019 13:34	0:01	SSA2	0.0216049706	0.3440000000	Oversupply
9/30/2019 13:34	0:01	SSA3	0.0024889500	0.3380000000	Facility Requested
9/30/2019 13:35	0:01	SSA2	0.0216049709	0.1450000000	Oversupply
9/30/2019 13:35	0:01	SSA3	0.0025430576	0.3700000000	Facility Requested
9/30/2019 13:36	0:01	SSA2	0.0216049709	0.2580000000	Oversupply
9/30/2019 13:36	0:01	SSA3	0.0024889500	0.3770000000	Facility Requested
9/30/2019 13:37	0:07	BS250	Data not available	Data not available	Oversupply
9/30/2019 13:37	0:07	ESA	Data not available	Data not available	Oversupply
9/30/2019 13:37	0:07	ESB	Data not available	Data not available	Oversupply
9/30/2019 13:37	0:01	SSA2	0.0216049706	0.2300000000	Oversupply
9/30/2019 13:37	0:06	SSA3	0.0201821381	0.3980000000	Oversupply
9/30/2019 13:37	0:06	SSA2	0.1512347956	0.0150000000	Oversupply
9/30/2019 13:38	0:06	KWPPII	0.1309914271	20.5658626556	Oversupply



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
9/30/2019 13:43	0:01	SSA3	0.0025430576	-0.0010000000	Oversupply
9/30/2019 13:43	0:01	SSA2	0.0216049709	0.1070000000	Oversupply
9/30/2019 13:44	0:01	SSA3	0.0023645056	0.0890000000	Facility Requested
9/30/2019 13:44	0:01	SSA2	0.0083194906	0.5330000000	Oversupply
9/30/2019 13:45	0:01	SSA3	-0.0019678103	0.2370000000	Facility Requested
9/30/2019 13:52	0:01	SSA2	0.0226199997	2.5530000000	Oversupply
9/30/2019 13:53	0:01	SSA2	0.0226200002	1.7770000000	Oversupply
9/30/2019 13:53	0:01	SSA3	-0.0018071727	0.4430000000	Facility Requested
9/30/2019 13:54	0:01	SSA3	-0.0018473321	0.1700000000	Oversupply
9/30/2019 13:54	0:01	SSA2	0.0226200002	0.9850000000	Oversupply
9/30/2019 13:55	0:01	SSA3	-0.0018473321	0.1090000000	Oversupply
9/30/2019 13:55	0:01	SSA2	0.0226199997	0.3860000000	Oversupply
9/30/2019 13:55	0:02	SSA3	-0.0036545049	0.0180000000	Oversupply
9/30/2019 13:56	0:15	BS250	Data not available	Data not available	Oversupply
9/30/2019 13:56	0:15	ESA	Data not available	Data not available	Oversupply
9/30/2019 13:56	0:15	ESB	Data not available	Data not available	Oversupply
9/30/2019 13:56	0:01	SSA2	0.0226200002	0.1270000000	Oversupply
9/30/2019 13:56	0:01	SSA2	0.0226199997	0.0270000000	Oversupply
9/30/2019 13:57	0:15	KWPPII	0.4615830421	19.8473339081	Oversupply
9/30/2019 13:57	0:03	SSA3	-0.0060891691	0.0010000000	Oversupply
9/30/2019 13:57	0:03	SSA2	0.0749850003	0.0160000000	Oversupply
9/30/2019 14:00	0:01	SSA2	0.0238932887	-0.0020000000	Oversupply
9/30/2019 14:00	0:01	SSA3	0.0037586336	-0.0010000000	Oversupply
9/30/2019 14:01	0:10	SSA3	0.0497810143	-0.0030000000	Oversupply
9/30/2019 14:01	0:10	SSA2	0.2628261750	-0.0020000000	Oversupply
9/30/2019 14:10	0:01	SSA2	0.0238932884	0.0100000000	Oversupply
9/30/2019 14:11	0:01	SSA3	0.0037586336	0.0410000000	Facility Requested
9/30/2019 14:11	0:01	SSA2	0.0238932887	0.0370000000	Oversupply
9/30/2019 14:11	0:01	SSA3	0.0038421588	0.1930000000	Oversupply
9/30/2019 14:12	0:01	SSA2	0.0238932887	0.0230000000	Oversupply
9/30/2019 14:12	0:01	SSA3	0.0037586336	0.0590000000	Oversupply
9/30/2019 14:13	0:01	BS250	Data not available	Data not available	Oversupply
9/30/2019 14:13	0:01	ESA	Data not available	Data not available	Oversupply
9/30/2019 14:13	0:01	ESB	Data not available	Data not available	Oversupply
9/30/2019 14:13	0:01	SSA3	0.0038421588	0.0030000000	Oversupply
9/30/2019 14:13	0:01	SSA2	0.0238932884	0.0000000000	Oversupply
9/30/2019 14:14	0:01	SSA3	0.0038421588	0.0850000000	Facility Requested
9/30/2019 14:14	0:01	SSA2	0.0229743162	0.0410000000	Oversupply
9/30/2019 14:14	0:05	SSA3	0.0099358748	0.2260000000	Oversupply
9/30/2019 14:15	0:01	SSA2	0.0331444280	0.2090000000	Oversupply
9/30/2019 14:15	0:03	SSA2	0.1325777111	0.0110000000	Oversupply
9/30/2019 14:16	0:05	BS250	Data not available	Data not available	Oversupply
9/30/2019 14:16	0:05	ESA	Data not available	Data not available	Oversupply
9/30/2019 14:16	0:05	ESB	Data not available	Data not available	Oversupply
9/30/2019 14:17	0:04	KWPPII	0.0595703125	20.6377162933	Oversupply
9/30/2019 14:19	0:01	SSA2	0.0331444280	0.0010000000	Oversupply
9/30/2019 14:19	0:01	SSA3	0.0011833007	0.0000000000	Oversupply
9/30/2019 14:20	0:01	SSA3	0.0012095962	0.0000000000	Oversupply
9/30/2019 14:20	0:20	SSA2	0.7797774813	0.0010000000	Oversupply
9/30/2019 14:20	0:01	SSA3	0.0012095962	0.0050000000	Oversupply
9/30/2019 14:21	0:19	SSA3	0.0686484252	-0.0020000000	Oversupply
9/30/2019 14:22	0:19	BS250	Data not available	Data not available	Oversupply
9/30/2019 14:22	0:19	ESA	Data not available	Data not available	Oversupply
9/30/2019 14:22	0:19	ESB	Data not available	Data not available	Oversupply
9/30/2019 14:22	0:19	KWPPII	0.9716667175	20.5708522797	Oversupply
9/30/2019 14:40	0:01	SSA2	0.0348007639	0.0010000000	Oversupply
9/30/2019 14:41	0:01	SSA2	0.0348007644	0.1140000000	Oversupply
9/30/2019 14:41	0:01	SSA3	0.0039897390	0.1580000000	Facility Requested
9/30/2019 14:41	0:01	SSA3	0.0038199628	0.1380000000	Facility Requested
9/30/2019 14:41	0:01	SSA2	0.0348007639	0.1950000000	Oversupply
9/30/2019 14:42	0:11	BS250	Data not available	Data not available	Oversupply
9/30/2019 14:42	0:11	ESA	Data not available	Data not available	Oversupply
9/30/2019 14:42	0:11	ESB	Data not available	Data not available	Oversupply
9/30/2019 14:42	0:12	SSA3	0.0586475222	0.0080000000	Oversupply
9/30/2019 14:42	0:18	SSA2	0.3471232924	0.0100000000	Oversupply
9/30/2019 14:43	0:11	KWPPII	0.4410634995	20.5339279175	Oversupply
9/30/2019 14:54	0:07	BS250	Data not available	Data not available	Oversupply
9/30/2019 14:54	0:07	ESA	Data not available	Data not available	Oversupply
9/30/2019 14:54	0:07	ESB	Data not available	Data not available	Oversupply
9/30/2019 14:54	0:01	SSA3	0.0038794339	-0.0010000000	Oversupply
9/30/2019 14:55	0:05	KWPPII	0.1214426041	20.6975917816	Oversupply
9/30/2019 14:55	0:05	SSA3	0.0241030232	-0.0010000000	Oversupply
9/30/2019 15:00	0:01	SSA3	-0.0007198036	0.0080000000	Facility Requested



Maui Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
9/30/2019 15:00	0:01	SSA2	0.0012132320	0.1170000000	Oversupply
9/30/2019 15:01	0:01	SSA3	-0.0007517949	0.1480000000	Facility Requested
9/30/2019 15:01	0:01	SSA2	0.0012132322	0.4340000000	Oversupply
9/30/2019 15:02	0:02	SSA3	-0.0014875942	0.2250000000	Facility Requested
9/30/2019 15:02	0:01	SSA2	0.0012132322	0.7040000000	Oversupply
9/30/2019 15:03	0:01	SSA3	-0.0007357993	0.3090000000	Facility Requested
9/30/2019 15:07	0:01	SSA3	-0.0007517949	0.4260000000	Facility Requested
9/30/2019 15:07	0:01	SSA2	0.0011899007	1.9010000000	Oversupply
9/30/2019 15:08	0:01	SSA3	-0.0007517949	0.4280000000	Facility Requested
9/30/2019 15:08	0:01	SSA2	0.0012132322	1.0800000000	Oversupply
9/30/2019 15:09	0:01	SSA2	0.0012132320	0.8660000000	Oversupply
9/30/2019 21:55	0:53	KWPPII	5.8584441821	20.7075729370	Oversupply
9/30/2019 23:18	0:42	KWPPII	2.6407378356	20.7075729370	Oversupply

Total Estimated Curtailed MWh	791.758
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Notes:

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



Lanai Curtailment Report

September 2019

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
9/4/2019 8:34	0:27	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 9:03	0:16	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 9:20	0:24	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 9:54	0:29	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:24	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:28	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:30	0:04	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:36	0:04	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:41	0:06	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 10:48	0:12	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 11:01	0:04	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 11:09	0:01	LSR	Data is not available	Data is not available	Oversupply
9/4/2019 11:11	0:06	LSR	Data is not available	Data is not available	Oversupply
9/7/2019 10:04	0:39	LSR	Data is not available	Data is not available	Oversupply
9/7/2019 10:44	0:51	LSR	Data is not available	Data is not available	Oversupply
9/7/2019 11:36	0:03	LSR	Data is not available	Data is not available	Oversupply
9/7/2019 11:40	0:03	LSR	Data is not available	Data is not available	Oversupply
9/7/2019 11:44	0:06	LSR	Data is not available	Data is not available	Oversupply
9/9/2019 15:23	0:06	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 9:08	0:05	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 9:15	0:16	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 9:35	1:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 10:39	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 10:45	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 10:47	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 10:52	0:09	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:04	0:05	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:14	0:05	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:20	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:24	0:03	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:29	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:34	0:06	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 11:45	0:02	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 12:04	0:01	LSR	Data is not available	Data is not available	Oversupply
9/10/2019 12:51	0:05	LSR	Data is not available	Data is not available	Oversupply
9/19/2019 8:08	0:01	LSR	Data is not available	Data is not available	Oversupply
9/20/2019 9:22	0:06	LSR	Data is not available	Data is not available	Oversupply
9/20/2019 9:36	0:06	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 6:55	0:02	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 6:58	0:25	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 7:24	0:09	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 7:34	0:04	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 7:41	0:12	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 7:54	0:04	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 8:02	0:11	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 8:15	0:03	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 8:22	0:12	LSR	Data is not available	Data is not available	Oversupply
9/26/2019 8:35	0:13	LSR	Data is not available	Data is not available	Oversupply

Notes:

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

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

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

Hawai'i Electric Light Company Curtailment Report Sep 2019

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released ¹	IPP	Reason for Curtailment
09/06/19 09:34	18.7 MW	09/06/19 11:13	18.4 MW	Pakini Nui Windfarm	Facility requested
09/08/19 08:41	19.9 MW	09/08/19 13:53	19.8 MW	Pakini Nui Windfarm	Facility requested

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

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