



February 25, 2025

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

Dear Commissioners:

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

In accordance with Ordering Paragraph 3 of Order No. 30371, filed May 4, 2012 in the subject proceeding, enclosed as Exhibit A is Hawaiian Electric's<sup>1</sup> monthly report for January 2025 on: (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

Any party to this proceeding may obtain an electronic copy of this report by emailing Michael Chu at [michael.chu@hawaiianelectric.com](mailto:michael.chu@hawaiianelectric.com).

Sincerely,

/s/ Kevin M. Katsura

Kevin M. Katsura  
Director, Regulatory Non-Rate Proceedings

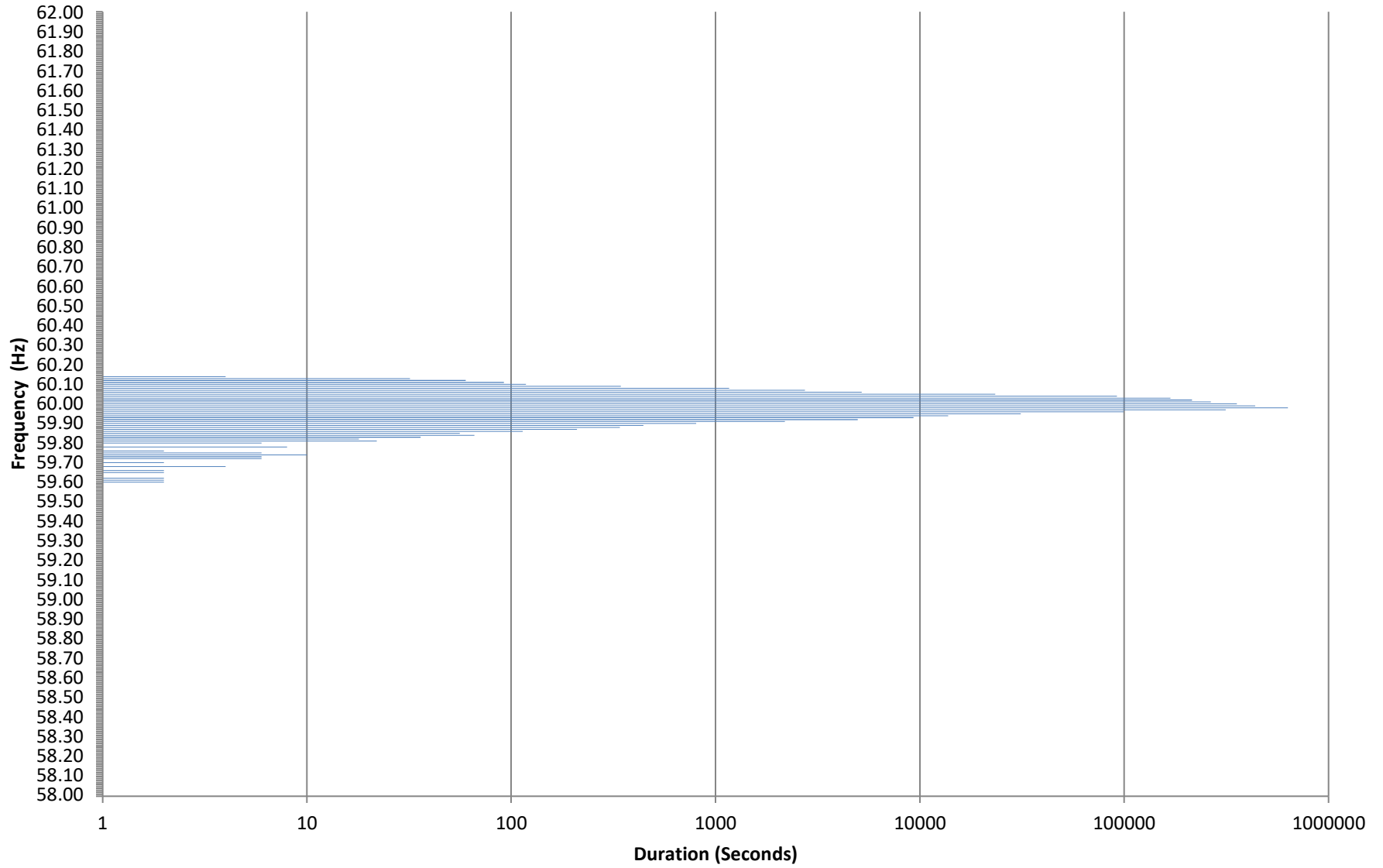
Enclosures

c: Service List

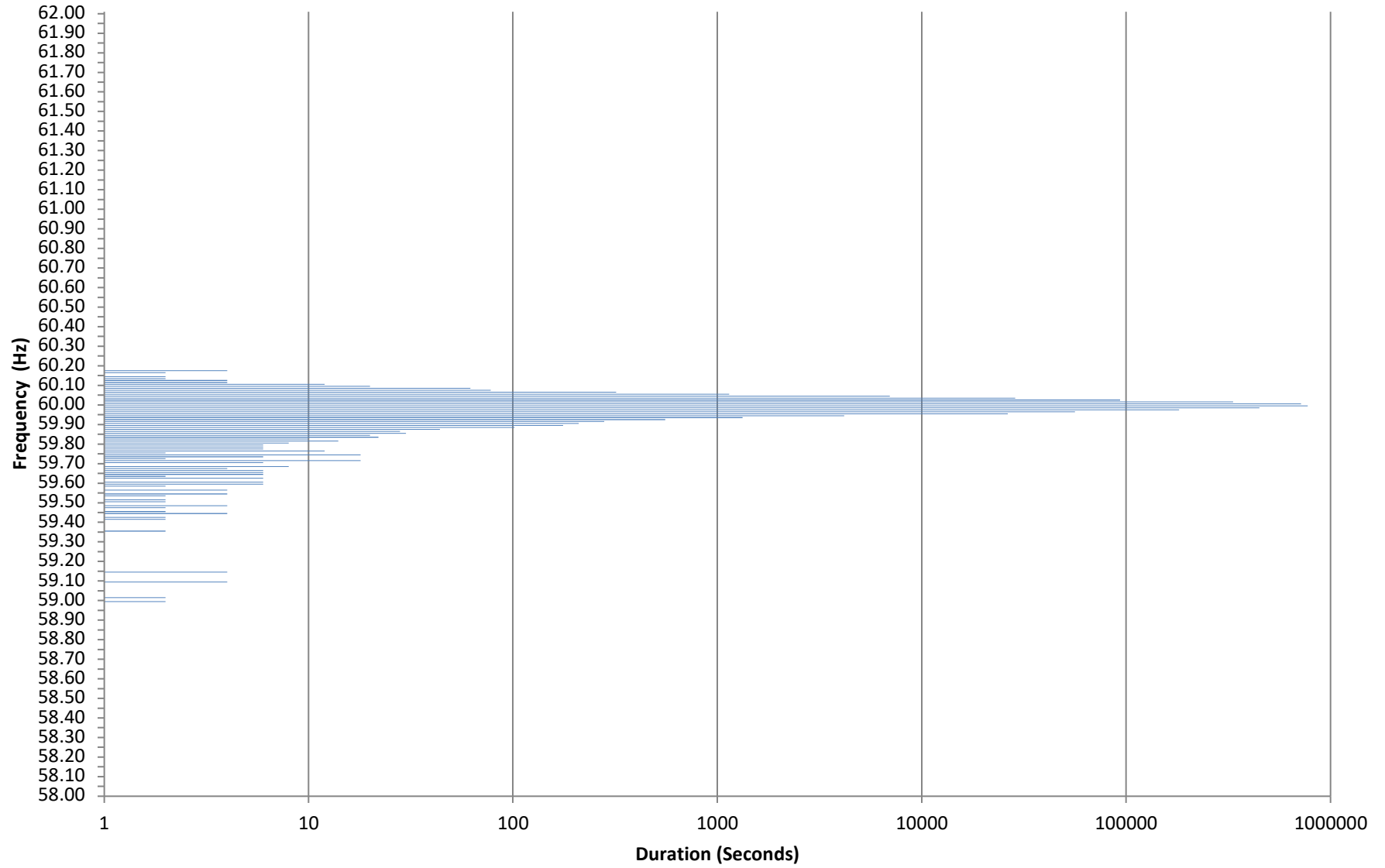
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<sup>1</sup> Hawaiian Electric Company, Inc., Maui Electric Company, Limited, and Hawai'i Electric Light Company, Inc. are each doing business as "Hawaiian Electric" and have jointly registered "Hawaiian Electric" as a trade name with the State of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

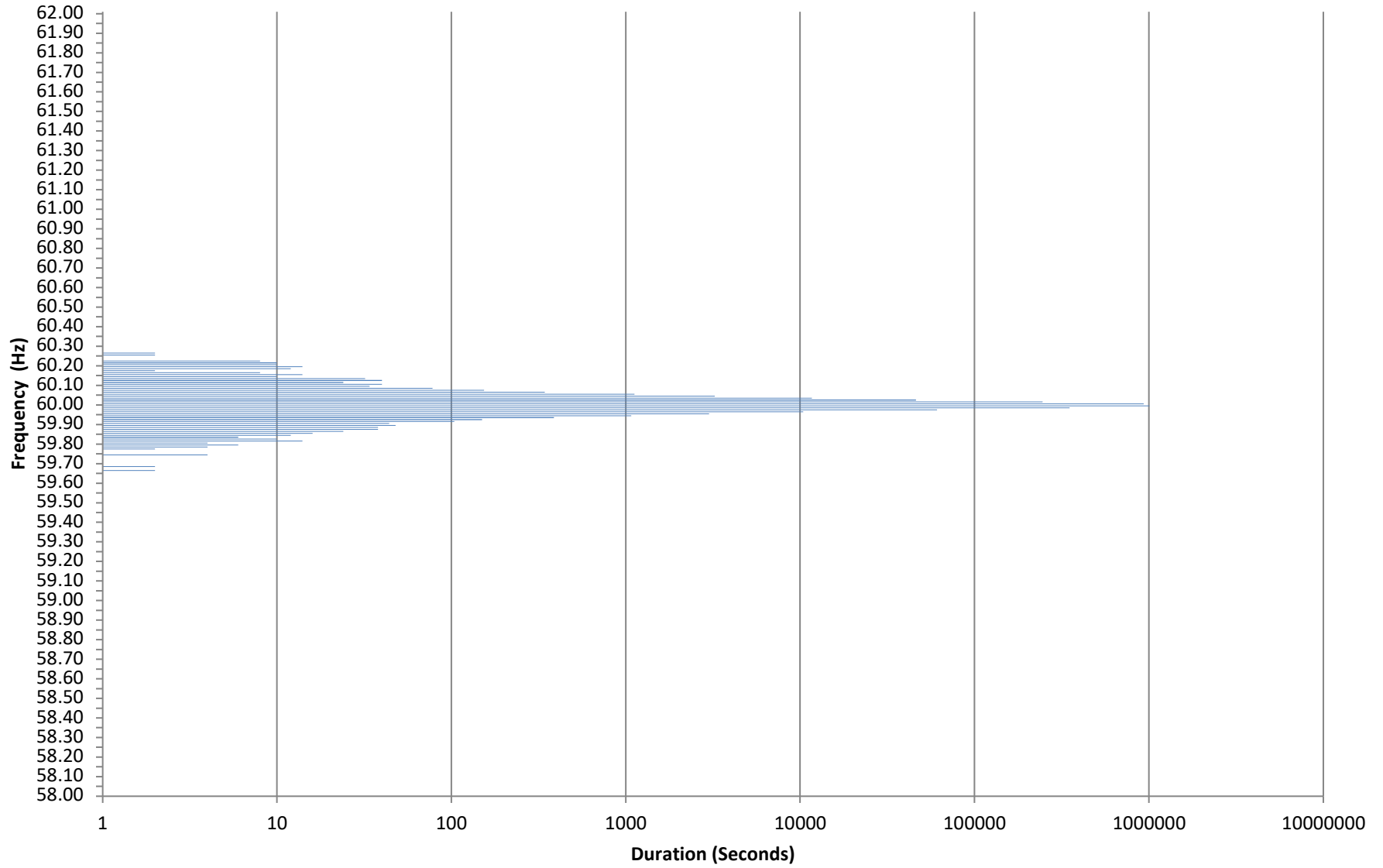
## Frequency Distribution Plot - Hawaiian Electric January 2025



## Frequency Distribution Plot - Hawai'i Island January 2025



## Frequency Distribution Plot - Maui Electric January 2025



Hawaiian Electric Frequency Excursion Statistics January 2025		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	2195	1334
Maximum Duration (sec)	680	838
Maximum Deviation (Hz)	59.604	60.143
Total Duration of Excursions (sec)	44230	16494

Hawai'i Island Frequency Excursion Statistics		
January 2025		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2909	176
Maximum Duration (sec)	596	60
Maximum Deviation (Hz)	58.988	60.175
Total Duration of Excursions (sec)	19958	880

Maui Electric Frequency Excursion Statistics January 2025		
	<59.95 Hz	>60.05 Hz
Number of Excursions	590	66
Maximum Duration (sec)	118	78
Maximum Deviation (Hz)	59.657	60.257
Total Duration of Excursions (sec)	4996	838

HAWAIIAN ELECTRIC COMPANY, INC.  
CONTINGENCY RESERVE ACTIVATION EVENTS  
January 2025

Event #	Date & Time	Frequency (Hz)			Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	1/31/2025 13:50	59.99	59.60	NA	0.00	0:00	K6 tripped offline while generating ~72 MW. W10 called online for spinning reserves.



UNDERFREQUENCY LOADSHEDDING EVENTS  
January 2025

Event #	IR #	Island	Date & Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
				Prior to Event	Nadir	Levels UFLS Occurred			
1	68	Molokai	1/24/2025 10:30AM	59.96	55.67	57.75, 57.5, 57.25	1.34	1:30	Molokai unit 8 tripped offline causing system frequency dipped causing circuit 106B, 110B and 111A breakers to trip on UFLS scheme.

HAWAIIAN ELECTRIC COMPANY, INC.  
DEMAND RESPONSE EVENTS  
January 2025

Event #	Date & Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	1/31/2025 13:50	59.99	59.60	59.70	NA	0:02	K6 tripped offline while generating ~72 MW. RDLC activated.

Hawaiian Electric Company, Inc. Curtailment Report January 2025

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP/Facility	Reason for Curtailment
01/07/25 17:12	0.0	0.50	01/07/25 18:48	0	*	KLS2	System Constraints
01/08/25 05:33	0.0	0.40	01/08/25 16:04	0	*	NPM	System Constraints
01/08/25 05:36	0.0	0.00	01/08/25 06:48	0	*	Kahuku WF	System Constraints
01/08/25 05:38	0.0	0.00	01/08/25 06:49	0	*	KSMakai	System Constraints
01/08/25 05:38	0.0	2.80	01/08/25 06:49	0	*	KWMakai	System Constraints
01/08/25 06:18	0.0	0.00	01/08/25 06:47	0	*	MFO	System Constraints
01/08/25 14:35	0.0	0.00	01/08/25 16:03	0	*	MFO	System Constraints
01/08/25 14:36	0.0	0.30	01/08/25 16:06	0	*	Kahuku WF	System Constraints
01/08/25 14:37	0.0	0.00	01/08/25 16:11	0	*	KWMakai	System Constraints
01/08/25 14:38	0.0	1.50	01/08/25 16:11	0	*	KSMakai	System Constraints
01/10/25 05:37	0.0	24.00	01/10/25 17:26	0	*	NPM	System Constraints
01/10/25 05:39	0.0	0.00	01/10/25 17:49	0	*	MFO	System Constraints
01/10/25 05:43	0.0	11.30	01/10/25 07:50	0	*	Kahuku WF	System Constraints
01/10/25 05:45	0.0	10.40	01/10/25 07:50	0	*	KWMakai	System Constraints
01/10/25 05:46	0.0	0.00	01/10/25 07:52	0	*	KSMakai	System Constraints
01/10/25 15:22	0.0	0.00	01/10/25 17:28	0	*	MFO	System Constraints
01/10/25 15:23	0.0	4.10	01/10/25 17:29	0	*	Kahuku WF	System Constraints
01/10/25 15:24	0.0	7.30	01/10/25 17:30	0	*	KSMakai	System Constraints
01/10/25 15:24	0.0	3.00	01/10/25 17:30	0	*	KWMakai	System Constraints
01/15/25 05:55	0.0	8.70	01/17/25 12:00	0	*	NPM	System Constraints
01/16/25 06:09	0.0	0.00	01/16/25 07:44	0	*	MFO	System Constraints
01/16/25 06:11	0.0	0.00	01/16/25 07:45	0	*	Kahuku WF	System Constraints
01/16/25 06:13	0.0	0.00	01/16/25 07:48	0	*	KSMakai	System Constraints
01/16/25 06:13	0.0	0.00	01/16/25 07:47	0	*	KWMakai	System Constraints
01/16/25 14:08	0.0	0.00	01/16/25 15:13	0	*	MFO	System Constraints
01/16/25 14:10	0.0	2.30	01/16/25 15:15	0	*	Kahuku WF	System Constraints
01/16/25 14:11	0.0	2.70	01/16/25 15:16	0	*	KSMakai	System Constraints
01/16/25 14:11	0.0	2.50	01/16/25 15:16	0	*	KWMakai	System Constraints
01/16/25 21:43	0.0	4.10	01/16/25 23:09	0	*	KWMauka	System Constraints
01/16/25 21:44	0.0	0.00	01/16/25 23:10	0	*	KSMauka	System Constraints
01/17/25 05:21	0.0	0.00	01/17/25 05:50	0	*	KSMauka	System Constraints
01/17/25 05:21	0.0	0.70	01/17/25 05:49	0	*	KWMauka	System Constraints
01/17/25 12:01	0.0	0.00	01/17/25 14:39	0	*	NPM	System Constraints
01/19/25 13:55	0.0	9.00	01/19/25 15:23	0	*	KSMakai	Oversupply
01/19/25 13:55	0.0	5.70	01/19/25 15:31	0	*	KSMauka	Oversupply
01/19/25 13:56	0.0	4.00	01/19/25 15:11	0	*	Aloha2	Oversupply
01/19/25 13:57	0.0	0.00	01/19/25 15:10	0	*	MFO	Oversupply
01/19/25 13:58	0.0	13.40	01/19/25 15:00	0	*	NPM	Oversupply
01/19/25 14:00	6.6	11.40	01/19/25 14:55	0	*	Lani	Oversupply
01/19/25 14:00	23.4	39.70	01/19/25 14:55	0	*	Waipio	Oversupply
01/23/25 06:18	0.0	3.80	01/23/25 13:54	0	*	NPM	System Constraints
01/24/25 06:06	0.0	0.00	01/24/25 17:58	0	*	MFO	System Constraints
01/24/25 06:11	0.0	0.00	01/24/25 16:53	0	*	Kahuku WF	System Constraints
01/24/25 06:13	0.0	0.00	01/24/25 16:49	0	*	KSMakai	System Constraints
01/24/25 06:13	0.0	0.00	01/24/25 07:20	0	*	KSMauka	System Constraints
01/24/25 06:13	0.0	0.00	01/24/25 16:47	0	*	KWMakai	System Constraints
01/24/25 06:13	0.0	0.00	01/24/25 07:18	0	*	KWMauka	System Constraints
01/24/25 16:12	0.0	4.70	01/24/25 16:49	0	*	KSMauka	System Constraints
01/24/25 16:12	0.0	2.70	01/24/25 16:49	0	*	KWMauka	System Constraints
01/27/25 05:30	0.0	0.00	01/27/25 07:07	0	*	WestL	System Constraints
01/27/25 05:32	0.0	0.00	01/27/25 07:06	0	*	KREP	System Constraints
01/27/25 15:37	0.0	0.60	01/27/25 16:13	0	*	KREP	System Constraints
01/27/25 15:37	0.0	2.70	01/27/25 16:13	0	*	WestL	System Constraints
01/28/25 06:05	0.0	3.50	01/28/25 15:41	0	*	NPM	System Constraints
01/28/25 06:07	0.0	0.00	01/28/25 06:59	0	*	MFO	System Constraints
01/28/25 06:10	0.0	2.60	01/28/25 07:01	0	*	Kahuku WF	System Constraints
01/28/25 06:12	0.0	1.50	01/28/25 07:04	0	*	KWMakai	System Constraints
01/28/25 06:13	0.0	0.00	01/28/25 07:04	0	*	KSMakai	System Constraints
01/28/25 06:20	0.0	0.00	01/29/25 09:25	0	*	WestL	System Constraints
01/28/25 06:31	0.0	0.00	01/28/25 08:05	0	*	KREP	System Constraints

Hawaiian Electric Company, Inc. Curtailment Report January 2025

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP/Facility	Reason for Curtailment
01/28/25 14:33	0.0	0.20	01/28/25 16:58	0	*	KREP	System Constraints
01/28/25 15:12	0.0	0.00	01/28/25 15:42	0	*	MFO	System Constraints
01/28/25 15:14	0.0	0.60	01/28/25 15:43	0	*	Kahuku WF	System Constraints
01/28/25 15:16	0.0	7.50	01/28/25 15:44	0	*	KSMakai	System Constraints
01/28/25 15:16	0.0	1.70	01/28/25 15:44	0	*	KWMakai	System Constraints
01/29/25 05:18	0.0	0.00	01/29/25 07:54	0	*	KREP	System Constraints
01/29/25 14:29	0.0	0.40	01/29/25 15:36	0	*	KREP	System Constraints
01/29/25 14:30	0.0	6.30	01/29/25 15:35	0	*	WestL	System Constraints
01/30/25 04:18	0.0	16.30	01/30/25 10:42	0	*	Kahuku WF	System Constraints
01/30/25 07:07	0.0	0.00	01/30/25 07:40	0	*	NPM	System Constraints
01/30/25 13:29	0.0	0.00	01/30/25 16:27	0	*	NPM	System Constraints

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

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

\* Data has not been provided by IPP.

9/6 Aloha Solar II curtailment was Facility Initiated and not System Constraints.

Hawai'i Electric Light Company Curtailment Report January 2025

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released <sup>1</sup>	IPP	Reason for Curtailment
01/10/25 09:16	5.9 MW	01/10/25 09:20	4.0 MW	Tawhiri	Facility Requested
01/10/25 09:26	7.6 MW	01/10/25 09:27	4.1 MW	Tawhiri	Facility Requested
01/10/25 09:31	2.4 MW	01/10/25 10:15	2.0 MW	Tawhiri	Facility Requested
01/10/25 10:36	16.2 MW	01/10/25 12:45	15.5 MW	Tawhiri	Facility Requested
01/17/25 17:51	10.3 MW	01/25/25 09:37	7.1 MW	Tawhiri	Facility Requested
01/19/25 12:38	0.9 MW	01/19/25 14:07	0.0 MW	TGUHI	Oversupply
01/19/25 12:45	0.2 MW	01/19/25 14:03	0.0 MW	West Hawaii Civic Center	Oversupply
01/19/25 12:46	8.9 MW	01/19/25 13:58	9.0 MW	Tawhiri	Oversupply
01/20/25 08:41	6.1 MW	01/20/25 13:05	3.4 MW	Hawi Renewable Dev	Facility Requested

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



Lanai Curtailment Report

January 2025

Start Date and Time	Duration (h:mm)	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
No curtailment for January 2025					
<b>Notes:</b>					
On June 27, 2012, Maui Electric notified Lanai Sustainability Research (LSR) that although LSR has not operated in compliance with the revised ramp rate of 360 kW/minute, Maui Electric would conditionally allow LSR to operate at the allowed capacity of 1.2 MW while the Maui Electric-Lanai Diesel Operator was in the control room.					
LSR possible output data is not available. Therefore, Maui Electric assumes LSR is curtailed if the LSR curtailment set point is less than 1,200 kW and LSR's output is within 70 kW of the curtailment set point.					
The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies' metrics.					
Facility Requested curtailment includes but is not limited to conditions that are attributed to IPPs such as communication problems and curtailment control testing.					



Maui Curtailment Report

January  
2025

Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/1/2025 0:05	0:01	KWPPII	0.00585	11.92656	Oversupply
1/1/2025 0:26	0:07	KWPPII	0.16618	11.71699	Oversupply
1/1/2025 2:21	0:07	KWPPII	0.13190	11.92756	Oversupply
1/1/2025 2:43	0:18	KWPPII	0.93583	11.91060	Oversupply
1/1/2025 6:07	0:01	AWE	0.00333	0.20000	Oversupply
1/1/2025 6:27	0:01	AWE	0.00167	0.10000	Oversupply
1/1/2025 15:35	0:03	BS 250	Data is not available	available	Oversupply
1/1/2025 15:36	0:03	KWPPII	0.05825	11.82377	Oversupply
1/1/2025 15:49	0:01	BS 250	Data is not available	available	Oversupply
1/1/2025 15:52	0:15	BS 250	Data is not available	available	Oversupply
1/1/2025 15:52	0:16	KWPPII	0.89582	11.88066	Oversupply
1/1/2025 16:11	0:04	BS 250	Data is not available	available	Oversupply
1/1/2025 16:12	0:04	KWPPII	0.05794	11.92557	Oversupply
1/1/2025 16:20	0:01	KWPPII	0.01188	11.93554	Oversupply
1/2/2025 0:30	0:31	KWPPII	0.97386	11.85970	Oversupply
1/2/2025 10:27	2:02	BS 250	Data is not available	available	Oversupply
1/2/2025 10:27	0:56	KWPPII	4.23999	9.13329	Oversupply
1/2/2025 10:38	0:01	AWE	0.00182	19.80000	Oversupply
1/2/2025 10:41	0:01	AWE	0.00143	19.80000	Oversupply
1/2/2025 10:46	0:01	AWE	0.00110	20.50000	Oversupply
1/2/2025 11:13	0:01	AWE	0.00182	19.10000	Oversupply
1/2/2025 11:15	0:02	AWE	0.02923	19.60000	Oversupply
1/2/2025 11:24	1:06	KWPPII	6.65302	12.94448	Oversupply
1/2/2025 13:03	0:01	KWPPII	0.00101	0.06088	Oversupply
1/3/2025 3:00	0:01	AWE	0.00338	20.40000	Oversupply
1/3/2025 3:04	0:03	AWE	0.00561	20.70000	Oversupply
1/3/2025 3:14	0:01	AWE	0.00186	20.60000	Oversupply
1/3/2025 3:43	0:01	AWE	0.00191	19.80000	Oversupply
1/3/2025 3:46	0:01	AWE	0.00595	20.70000	Oversupply
1/3/2025 3:50	0:01	AWE	0.00420	19.90000	Oversupply
1/3/2025 3:54	0:04	AWE	0.01966	20.30000	Oversupply
1/3/2025 3:59	0:01	AWE	0.00051	20.40000	Oversupply
1/3/2025 22:58	0:01	AWE	0.00167	0.10000	Oversupply
1/3/2025 23:03	0:01	AWE	0.00167	0.10000	Oversupply
1/5/2025 13:50	0:02	AWE	0.00500	0.20000	Oversupply
1/5/2025 13:58	0:01	AWE	0.00333	0.20000	Oversupply
1/5/2025 14:02	0:01	AWE	0.00333	0.20000	Oversupply
1/5/2025 23:38	0:01	KWPPII	0.00078	0.04690	Oversupply
1/6/2025 12:03	0:03	BS 250	Data is not available	available	Oversupply
1/6/2025 12:04	0:02	5A	Data is not available	available	Oversupply
1/6/2025 12:04	0:02	KWP	0.01522	0.50341	Oversupply
1/6/2025 14:48	0:01	KWPPII	0.00145	0.08682	Oversupply
1/6/2025 15:42	0:01	KWPPII	0.00067	0.03992	Oversupply
1/6/2025 22:56	0:01	KWPPII	0.00013	0.00798	Oversupply
1/7/2025 2:34	0:01	KWPPII	0.00141	0.08483	Oversupply
1/7/2025 12:07	0:01	BS 250	Data is not available	available	Oversupply
1/7/2025 12:08	0:19	AWE	0.06833	0.50000	Facility Requested
1/7/2025 12:28	0:02	AWE	0.01000	0.40000	Facility Requested
1/8/2025 16:10	0:01	AWE	0.00167	0.10000	Oversupply
1/8/2025 16:17	0:01	AWE	0.00167	0.10000	Oversupply
1/9/2025 9:58	0:02	BS 250	Data is not available	available	Oversupply
1/9/2025 9:59	0:01	KWPPII	0.00346	2.14261	Oversupply
1/9/2025 10:45	0:04	BS 250	Data is not available	available	Oversupply
1/9/2025 10:45	0:04	AWE	0.12028	20.50000	Oversupply
1/9/2025 10:57	0:04	BS 250	Data is not available	available	Oversupply
1/9/2025 10:58	0:03	AWE	0.09418	20.20000	Oversupply
1/9/2025 11:02	0:07	BS 250	Data is not available	available	Oversupply
1/9/2025 11:03	0:06	KWPPII	0.04211	1.54683	Oversupply
1/9/2025 11:04	0:05	AWE	0.14334	19.40000	Oversupply
1/9/2025 11:10	0:01	KWPPII	0.00038	0.75246	Oversupply
1/9/2025 12:22	0:01	BS 250	Data is not available	available	Oversupply
1/10/2025 0:16	0:02	KWPPII	0.01864	9.04447	Oversupply
1/10/2025 0:46	0:23	KWPPII	1.19298	16.18683	Oversupply
1/10/2025 1:30	0:03	KWPPII	0.04704	14.06219	Oversupply
1/10/2025 1:34	0:32	KWPPII	1.39792	16.23075	Oversupply
1/10/2025 2:36	0:06	KWPPII	0.15658	17.48817	Oversupply

Maui Curtailment Report

January  
2025



Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/10/2025 2:43	0:42	KWP	6.96476	18.06499	Oversupply
1/10/2025 3:57	0:03	KWP	0.08223	8.88380	Oversupply
1/10/2025 4:01	0:28	AWE	2.48708	21.00000	Oversupply
1/10/2025 4:01	0:31	KWP	3.38477	8.89078	Oversupply
1/10/2025 4:54	0:02	KWP	0.05608	17.45025	Oversupply
1/10/2025 5:19	3:51	KWP	41.42397	19.57888	Oversupply
1/10/2025 6:25	2:44	BS 250	Data is not available	available	Oversupply
1/10/2025 7:44	0:01	AWE	0.00090	17.20000	Oversupply
1/10/2025 8:02	0:08	KWP	0.12295	6.38092	Oversupply
1/10/2025 8:11	0:09	KWP	0.01039	0.10202	Oversupply
1/10/2025 8:23	0:07	KWP	0.01025	0.10714	Oversupply
1/10/2025 8:31	0:38	KWP	0.05734	0.16908	Oversupply
1/10/2025 9:03	1:56	AWE	31.29250	17.20000	Oversupply
1/10/2025 9:12	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 9:14	0:02	KWP	0.00000	0.00000	System Constraint
1/10/2025 9:15	0:16	KWP	1.17352	10.14222	System Constraint
1/10/2025 9:17	0:04	KWP	0.00000	0.00000	System Constraint
1/10/2025 9:24	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 9:26	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 9:29	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:06	0:06	5A	Data is not available	available	Oversupply
1/10/2025 11:06	0:06	BS 250	Data is not available	available	Oversupply
1/10/2025 11:08	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:21	0:06	5A	Data is not available	available	Oversupply
1/10/2025 11:21	0:06	BS 250	Data is not available	available	Oversupply
1/10/2025 11:22	0:02	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:25	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:28	0:02	5A	Data is not available	available	Oversupply
1/10/2025 11:28	0:02	BS 250	Data is not available	available	Oversupply
1/10/2025 11:36	2:16	BS 250	Data is not available	available	Oversupply
1/10/2025 11:36	0:37	5A	Data is not available	available	Oversupply
1/10/2025 11:36	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:38	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:44	0:04	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:51	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 11:58	0:08	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:02	1:50	AWE	5.46451	10.30000	Oversupply
1/10/2025 12:07	0:03	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:11	0:03	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:15	0:26	5A	Data is not available	available	Oversupply
1/10/2025 12:15	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:22	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:25	0:05	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:25	0:22	KWP	0.24891	2.29230	System Constraint
1/10/2025 12:31	0:01	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:33	0:04	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:38	0:04	KWP	0.00000	0.00000	System Constraint
1/10/2025 12:43	0:01	5A	Data is not available	available	Oversupply
1/10/2025 12:48	0:08	KWP	0.05986	1.13168	Oversupply
1/10/2025 13:02	0:03	KWP	0.01694	0.59179	Oversupply
1/10/2025 13:28	0:01	KWP	0.00047	0.02794	Oversupply
1/10/2025 13:31	0:02	KWP	0.00072	0.02295	Oversupply
1/10/2025 13:57	0:01	BS 250	Data is not available	available	Oversupply
1/10/2025 14:09	0:01	BS 250	Data is not available	available	Oversupply
1/10/2025 14:12	0:35	BS 250	Data is not available	available	Oversupply
1/10/2025 14:12	0:01	AWE	0.00120	15.90000	Oversupply
1/10/2025 14:12	0:35	KWP	2.75260	9.11732	Oversupply
1/10/2025 14:14	0:02	AWE	0.01831	16.30000	Oversupply
1/10/2025 14:17	0:09	AWE	0.16603	18.60000	Oversupply
1/10/2025 14:27	0:12	AWE	0.37957	21.00000	Oversupply
1/10/2025 14:49	0:09	BS 250	Data is not available	available	Oversupply
1/10/2025 14:49	0:03	KWP	0.01945	5.78315	Oversupply
1/10/2025 14:53	0:06	KWP	0.13514	6.71624	Oversupply
1/10/2025 14:59	0:01	BS 250	Data is not available	available	Oversupply
1/10/2025 15:01	0:07	BS 250	Data is not available	available	Oversupply
1/10/2025 15:02	0:06	KWP	0.26356	8.71714	Oversupply



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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/10/2025 15:14	0:01	BS 250	Data is not available	available	Oversupply
1/10/2025 15:19	0:02	BS 250	Data is not available	available	Oversupply
1/10/2025 15:20	0:25	KWPPI	1.41151	18.01609	Oversupply
1/10/2025 15:22	0:23	BS 250	Data is not available	available	Oversupply
1/10/2025 15:46	0:04	BS 250	Data is not available	available	Oversupply
1/10/2025 15:46	0:04	KWPPI	0.04752	18.98710	Oversupply
1/10/2025 19:27	0:04	KWPPI	0.02916	18.06100	Oversupply
1/10/2025 19:59	0:41	KWPPI	2.75688	18.06798	Oversupply
1/10/2025 20:44	0:08	KWPPI	0.20410	18.06100	Oversupply
1/10/2025 20:53	0:13	KWPPI	0.40991	18.05800	Oversupply
1/10/2025 21:29	0:19	KWPPI	0.53662	18.06100	Oversupply
1/10/2025 21:50	0:15	KWPPI	0.70103	18.05601	Oversupply
1/10/2025 22:06	0:03	KWPPI	0.01222	17.98415	Oversupply
1/10/2025 22:17	0:13	KWPPI	0.28108	17.99014	Oversupply
1/10/2025 22:48	0:04	KWPPI	0.10055	18.05401	Oversupply
1/10/2025 23:09	0:03	KWPPI	0.03922	17.96419	Oversupply
1/10/2025 23:17	6:03	KWPPI	45.57218	18.06199	Oversupply
1/11/2025 3:04	0:03	AWE	0.06404	19.90000	Oversupply
1/11/2025 5:23	0:07	KWPPI	0.19974	16.53312	Oversupply
1/11/2025 5:33	0:07	KWPPI	0.16827	16.52015	Oversupply
1/11/2025 8:28	1:05	BS 250	Data is not available	available	Oversupply
1/11/2025 8:29	1:02	KWPPI	5.34177	18.07097	Oversupply
1/11/2025 9:32	0:01	KWPPI	0.01133	17.92328	Oversupply
1/11/2025 9:40	5:38	BS 250	Data is not available	available	Oversupply
1/11/2025 9:41	5:37	KWPPI	83.44759	18.06698	Oversupply
1/11/2025 10:53	0:10	AWE	0.33942	21.00000	Oversupply
1/11/2025 11:24	2:43	AWE	18.98802	21.00000	Oversupply
1/11/2025 14:09	0:04	AWE	0.01142	18.50000	Oversupply
1/11/2025 14:15	0:02	AWE	0.07085	21.00000	Oversupply
1/11/2025 14:18	0:01	AWE	0.01521	21.00000	Oversupply
1/11/2025 15:21	0:03	BS 250	Data is not available	available	Oversupply
1/11/2025 15:21	0:01	KWPPI	0.00069	18.00311	Oversupply
1/11/2025 15:23	0:01	KWPPI	0.02051	18.06000	Oversupply
1/11/2025 19:43	0:01	KWPPI	0.00263	18.06698	Oversupply
1/11/2025 23:44	0:10	KWPPI	0.19513	18.06898	Oversupply
1/12/2025 3:35	0:01	KWPPI	0.00472	18.03605	Oversupply
1/12/2025 3:37	0:03	KWPPI	0.01476	18.05301	Oversupply
1/12/2025 3:59	0:03	KWPPI	0.03746	18.02307	Oversupply
1/12/2025 4:04	0:32	KWPPI	3.04823	18.04004	Oversupply
1/12/2025 4:38	0:06	KWPPI	0.14056	18.04303	Oversupply
1/12/2025 8:26	0:14	BS 250	Data is not available	available	Oversupply
1/12/2025 8:27	0:15	KWPPI	0.30291	16.27964	Oversupply
1/12/2025 9:10	0:01	BS 250	Data is not available	available	Oversupply
1/12/2025 10:20	0:11	BS 250	Data is not available	available	Oversupply
1/12/2025 10:21	0:06	KWPPI	0.10120	6.24520	Oversupply
1/12/2025 10:28	0:04	KWPPI	0.03809	4.17944	Oversupply
1/12/2025 10:42	0:07	BS 250	Data is not available	available	Oversupply
1/12/2025 10:43	0:04	KWPPI	0.06972	4.76424	Oversupply
1/12/2025 10:48	0:02	KWPPI	0.00695	3.47588	Oversupply
1/12/2025 11:01	0:04	BS 250	Data is not available	available	Oversupply
1/12/2025 11:01	0:04	KWPPI	0.04561	3.00983	Oversupply
1/12/2025 11:07	0:08	BS 250	Data is not available	available	Oversupply
1/12/2025 11:07	0:08	KWPPI	0.17095	6.45078	Oversupply
1/12/2025 11:24	0:07	BS 250	Data is not available	available	Oversupply
1/12/2025 11:24	0:07	KWPPI	0.07038	5.82008	Oversupply
1/12/2025 11:34	0:01	BS 250	Data is not available	available	Oversupply
1/12/2025 11:36	0:01	KWPPI	0.00825	5.09456	Oversupply
1/12/2025 11:37	0:02	BS 250	Data is not available	available	Oversupply
1/12/2025 11:38	0:01	KWPPI	0.01521	6.36995	Oversupply
1/12/2025 11:58	0:07	BS 250	Data is not available	available	Oversupply
1/12/2025 11:58	0:08	KWPPI	0.17209	9.28797	Oversupply
1/12/2025 12:06	2:02	BS 250	Data is not available	available	Oversupply
1/12/2025 12:07	2:01	KWPPI	13.15755	15.23878	Oversupply
1/12/2025 12:21	0:35	AWE	1.71585	21.00000	Oversupply
1/12/2025 13:15	0:11	AWE	0.28399	21.00000	Oversupply
1/12/2025 13:33	0:02	AWE	0.02472	21.00000	Oversupply



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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/12/2025 13:36	0:02	AWE	0.00966	21.00000	Oversupply
1/12/2025 14:14	0:01	KWPPII	0.00614	14.05321	Oversupply
1/12/2025 14:43	0:01	KWPPII	0.00504	4.46984	Oversupply
1/13/2025 0:12	0:10	KWPPII	0.23511	16.53013	Oversupply
1/13/2025 0:26	0:07	KWPPII	0.21066	16.53213	Oversupply
1/13/2025 0:51	0:03	KWPPII	0.02560	16.52414	Oversupply
1/13/2025 1:07	0:02	KWPPII	0.01149	16.46227	Oversupply
1/13/2025 1:18	0:05	KWPPII	0.11060	16.50019	Oversupply
1/13/2025 1:24	0:23	KWPPII	0.73175	14.99328	Oversupply
1/13/2025 1:49	0:09	KWPPII	0.11112	14.99827	Oversupply
1/13/2025 2:00	0:08	KWPPII	0.05745	14.98929	Oversupply
1/13/2025 2:09	0:10	KWPPII	0.18490	14.99228	Oversupply
1/13/2025 2:20	0:01	KWPPII	0.00299	14.98330	Oversupply
1/13/2025 2:23	0:03	KWPPII	0.02949	14.97931	Oversupply
1/13/2025 2:34	0:09	KWPPII	0.21190	14.99428	Oversupply
1/13/2025 3:49	0:02	KWPPII	0.00753	16.39940	Oversupply
1/13/2025 3:52	0:01	KWPPII	0.00007	16.32755	Oversupply
1/13/2025 3:54	0:02	KWPPII	0.02678	16.41636	Oversupply
1/13/2025 8:51	0:36	BS 250	Data is not available	available	Oversupply
1/13/2025 8:51	0:33	KWPPII	1.06833	19.52100	Oversupply
1/13/2025 9:25	0:02	KWPPII	0.03031	18.83441	Oversupply
1/13/2025 9:28	0:02	BS 250	Data is not available	available	Oversupply
1/13/2025 9:28	0:01	KWPPII	0.00915	18.85038	Oversupply
1/13/2025 9:31	0:01	BS 250	Data is not available	available	Oversupply
1/13/2025 9:33	0:01	BS 250	Data is not available	available	Oversupply
1/13/2025 9:38	0:05	BS 250	Data is not available	available	Oversupply
1/13/2025 9:38	0:02	KWPPII	0.02225	19.46512	Oversupply
1/13/2025 9:41	0:01	KWPPII	0.00964	19.14078	Oversupply
1/13/2025 9:43	0:01	KWPPII	0.00259	19.09687	Oversupply
1/13/2025 9:44	0:54	BS 250	Data is not available	available	Oversupply
1/13/2025 9:45	0:53	KWPPII	2.98241	19.27551	Oversupply
1/13/2025 10:39	0:01	BS 250	Data is not available	available	Oversupply
1/13/2025 10:39	0:02	KWPPII	0.04268	18.14183	Oversupply
1/13/2025 10:42	0:02	BS 250	Data is not available	available	Oversupply
1/13/2025 10:42	0:03	KWPPII	0.04484	17.62389	Oversupply
1/13/2025 10:46	0:01	BS 250	Data is not available	available	Oversupply
1/13/2025 10:46	0:02	KWPPII	0.04200	17.83047	Oversupply
1/13/2025 10:48	0:01	BS 250	Data is not available	available	Oversupply
1/13/2025 10:50	0:04	BS 250	Data is not available	available	Oversupply
1/13/2025 10:50	0:04	KWPPII	0.04702	18.60787	Oversupply
1/13/2025 10:55	1:12	BS 250	Data is not available	available	Oversupply
1/13/2025 10:55	1:12	KWPPII	4.71687	18.73661	Oversupply
1/13/2025 12:08	0:09	BS 250	Data is not available	available	Oversupply
1/13/2025 12:08	0:10	KWPPII	0.46278	12.34371	Oversupply
1/13/2025 12:18	0:11	BS 250	Data is not available	available	Oversupply
1/13/2025 12:19	0:11	KWPPII	0.48515	13.19197	Oversupply
1/13/2025 13:26	0:15	BS 250	Data is not available	available	Oversupply
1/13/2025 13:27	0:01	KWPPII	0.00897	14.20589	Oversupply
1/13/2025 13:29	0:12	KWPPII	0.31382	15.68187	Oversupply
1/13/2025 13:54	0:54	BS 250	Data is not available	available	Oversupply
1/13/2025 13:55	0:54	KWPPII	3.02673	12.34870	Oversupply
1/13/2025 22:11	0:01	KWPPII	0.00239	8.71814	Oversupply
1/13/2025 22:13	2:28	KWPPII	14.52674	17.86540	Oversupply
1/13/2025 23:22	0:05	AWE	0.05291	17.70000	Oversupply
1/14/2025 0:42	0:01	KWPPII	0.00363	14.41946	Oversupply
1/14/2025 1:51	0:04	KWPPII	0.04372	3.16751	Oversupply
1/14/2025 1:58	0:24	KWPPII	0.87346	6.05659	Oversupply
1/14/2025 2:07	0:03	AWE	0.02044	15.60000	Oversupply
1/14/2025 2:27	0:14	KWPPII	0.33750	3.89801	Oversupply
1/14/2025 2:31	0:02	AWE	0.01194	15.50000	Oversupply
1/14/2025 2:34	0:01	AWE	0.00653	14.70000	Oversupply
1/14/2025 2:36	0:04	AWE	0.06072	15.50000	Oversupply
1/14/2025 2:42	0:01	KWPPII	0.02604	1.97096	Oversupply
1/14/2025 2:44	1:29	KWPPII	9.52831	16.19781	Oversupply
1/14/2025 3:13	0:01	AWE	0.00661	9.50000	Oversupply
1/14/2025 3:19	0:01	AWE	0.00473	8.90000	Oversupply

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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/14/2025 4:14	0:53	KWPPII	1.77221	17.63387	Oversupply
1/14/2025 5:21	0:01	AWE	0.00500	0.30000	Oversupply
1/14/2025 9:40	0:02	BS 250	Data is not available	available	Oversupply
1/14/2025 9:41	0:02	KWPPII	0.02029	17.21074	Oversupply
1/14/2025 9:49	4:32	BS 250	Data is not available	available	Oversupply
1/14/2025 9:50	0:01	KWPPII	0.00546	16.17985	Oversupply
1/14/2025 9:52	0:02	KWPPII	0.02727	16.10800	Oversupply
1/14/2025 9:55	0:01	KWPPII	0.01493	16.10400	Oversupply
1/14/2025 9:57	3:50	KWPPII	43.42157	18.64181	Oversupply
1/14/2025 10:45	0:02	AWE	0.00864	13.10000	Oversupply
1/14/2025 10:55	0:01	AWE	0.01229	9.90000	Oversupply
1/14/2025 11:00	0:01	AWE	0.03559	12.20000	Oversupply
1/14/2025 11:02	0:10	AWE	0.32883	13.70000	Oversupply
1/14/2025 11:13	0:02	AWE	0.01440	15.00000	Oversupply
1/14/2025 11:16	0:08	AWE	0.17141	16.40000	Oversupply
1/14/2025 11:32	0:03	AWE	0.10064	15.40000	Oversupply
1/14/2025 11:37	0:19	AWE	0.83418	18.40000	Oversupply
1/14/2025 11:57	0:01	AWE	0.00945	17.50000	Oversupply
1/14/2025 11:59	0:02	AWE	0.01006	18.90000	Oversupply
1/14/2025 12:08	0:21	AWE	0.89424	17.20000	Oversupply
1/14/2025 12:30	0:01	AWE	0.03861	14.40000	Oversupply
1/14/2025 12:33	0:02	AWE	0.04977	16.10000	Oversupply
1/14/2025 12:36	0:02	AWE	0.03439	17.30000	Oversupply
1/14/2025 12:39	0:05	AWE	0.06894	16.80000	Oversupply
1/14/2025 12:45	0:01	AWE	0.00721	16.80000	Oversupply
1/14/2025 13:16	0:01	AWE	0.01105	18.20000	Oversupply
1/14/2025 13:48	0:28	KWPPII	2.69669	15.13299	Oversupply
1/14/2025 14:17	0:05	KWPPII	0.16050	15.10405	Oversupply
1/14/2025 14:23	0:18	BS 250	Data is not available	available	Oversupply
1/14/2025 14:23	0:18	KWPPII	1.31021	15.89244	Oversupply
1/14/2025 14:44	0:05	KWPPII	0.03792	12.85965	Oversupply
1/14/2025 14:47	0:02	BS 250	Data is not available	available	Oversupply
1/14/2025 14:52	0:04	BS 250	Data is not available	available	Oversupply
1/14/2025 14:53	0:01	KWPPII	0.03434	16.62494	Oversupply
1/14/2025 14:55	0:01	KWPPII	0.00330	15.02023	Oversupply
1/14/2025 14:58	0:02	BS 250	Data is not available	available	Oversupply
1/14/2025 14:58	0:02	KWPPII	0.02739	15.96629	Oversupply
1/14/2025 15:01	0:01	BS 250	Data is not available	available	Oversupply
1/14/2025 15:01	0:02	KWPPII	0.01769	17.09398	Oversupply
1/14/2025 23:52	9:39	KWPPII	46.12640	11.81579	System Constraint
1/15/2025 0:18	0:01	AWE	0.00146	16.30000	Oversupply
1/15/2025 2:00	0:13	AWE	0.33167	11.40000	System Constraint
1/15/2025 4:40	0:04	AWE	0.06167	11.40000	System Constraint
1/15/2025 5:04	0:01	AWE	0.00833	10.50000	System Constraint
1/15/2025 9:39	0:05	BS 250	Data is not available	available	Oversupply
1/15/2025 9:42	0:02	KWPPII	0.03058	6.84098	Oversupply
1/15/2025 9:47	0:01	KWPPII	0.01174	6.44679	Oversupply
1/15/2025 9:51	0:06	BS 250	Data is not available	available	Oversupply
1/15/2025 9:54	0:04	KWPPII	0.09542	5.06762	Oversupply
1/15/2025 11:57	0:24	BS 250	Data is not available	available	Oversupply
1/15/2025 11:58	0:23	KWPPII	0.87109	4.15449	Oversupply
1/15/2025 12:03	0:03	AWE	0.04697	15.50000	Oversupply
1/15/2025 12:10	0:01	AWE	0.00830	15.90000	Oversupply
1/15/2025 15:03	0:06	BS 250	Data is not available	available	Oversupply
1/15/2025 15:03	0:02	AWE	0.02919	14.80000	Oversupply
1/15/2025 15:08	0:02	AWE	0.05684	15.50000	Oversupply
1/15/2025 15:10	0:01	BS 250	Data is not available	available	Oversupply
1/15/2025 15:13	0:25	BS 250	Data is not available	available	Oversupply
1/15/2025 15:14	0:07	AWE	0.26282	15.60000	Oversupply
1/15/2025 15:22	0:09	AWE	0.32788	16.20000	Oversupply
1/15/2025 15:32	0:01	AWE	0.01392	16.60000	Oversupply
1/15/2025 15:35	0:03	AWE	0.04055	17.80000	Oversupply
1/16/2025 18:21	0:01	KWPPII	0.00145	0.08682	Oversupply
1/16/2025 23:47	0:01	KWPPII	0.00212	6.28512	Oversupply
1/17/2025 15:06	0:02	BS 250	Data is not available	available	Oversupply
1/18/2025 10:25	0:01	KWPPII	0.00768	12.41157	Oversupply

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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/18/2025 10:29	0:05	BS 250	Data is not available	available	Oversupply
1/18/2025 10:30	0:04	KWPPII	0.12697	14.24182	Oversupply
1/18/2025 10:35	0:03	BS 250	Data is not available	available	Oversupply
1/18/2025 10:35	0:01	KWPPII	0.02033	14.30968	Oversupply
1/18/2025 10:38	0:01	KWPPII	0.00528	13.42350	Oversupply
1/18/2025 10:39	0:01	BS 250	Data is not available	available	Oversupply
1/18/2025 10:50	0:01	KWPPII	0.00197	14.53222	Oversupply
1/18/2025 10:53	0:18	BS 250	Data is not available	available	Oversupply
1/18/2025 10:53	0:01	KWPPII	0.01409	14.99827	Oversupply
1/18/2025 10:55	0:04	KWPPII	0.06107	15.29267	Oversupply
1/18/2025 11:00	0:12	KWPPII	0.25816	15.50823	Oversupply
1/18/2025 11:12	0:01	BS 250	Data is not available	available	Oversupply
1/18/2025 11:13	0:01	KWPPII	0.00082	12.81375	Oversupply
1/18/2025 11:30	0:31	BS 250	Data is not available	available	Oversupply
1/18/2025 11:32	0:11	KWPPII	0.21946	14.11907	Oversupply
1/18/2025 11:44	0:25	KWPPII	0.74316	13.96638	Oversupply
1/18/2025 12:02	0:02	BS 250	Data is not available	available	Oversupply
1/18/2025 12:05	0:02	BS 250	Data is not available	available	Oversupply
1/18/2025 12:05	0:01	AWE	0.00167	0.10000	Oversupply
1/18/2025 12:08	0:01	BS 250	Data is not available	available	Oversupply
1/18/2025 12:10	0:48	BS 250	Data is not available	available	Oversupply
1/18/2025 12:10	1:21	KWPPII	5.97968	13.96938	Oversupply
1/18/2025 12:59	0:31	BS 250	Data is not available	available	Oversupply
1/18/2025 13:32	0:11	BS 250	Data is not available	available	Oversupply
1/18/2025 13:32	0:26	KWPPII	0.82491	9.71310	Oversupply
1/18/2025 13:44	0:08	BS 250	Data is not available	available	Oversupply
1/18/2025 13:53	0:04	BS 250	Data is not available	available	Oversupply
1/18/2025 14:08	0:02	BS 250	Data is not available	available	Oversupply
1/18/2025 14:10	0:01	KWPPII	0.01538	9.19516	Oversupply
1/19/2025 10:21	0:01	BS 250	Data is not available	available	Oversupply
1/19/2025 10:21	0:01	KWPPII	0.00423	11.71899	Oversupply
1/19/2025 10:27	0:02	BS 250	Data is not available	available	Oversupply
1/19/2025 10:28	0:01	KWPPII	0.01343	11.86768	Oversupply
1/19/2025 10:30	0:01	KWPPII	0.00158	11.20404	Oversupply
1/19/2025 10:35	0:01	BS 250	Data is not available	available	Oversupply
1/19/2025 10:35	0:02	KWPPII	0.02347	11.65712	Oversupply
1/19/2025 10:39	4:26	BS 250	Data is not available	available	Oversupply
1/19/2025 10:39	4:27	KWPPII	39.87531	13.47040	Oversupply
1/19/2025 12:09	0:03	AWE	0.07875	3.50000	Oversupply
1/19/2025 12:13	2:35	AWE	21.92658	21.00000	Oversupply
1/19/2025 12:29	0:01	5A	Data is not available	available	Oversupply
1/19/2025 12:37	0:01	5A	Data is not available	available	Oversupply
1/19/2025 15:12	0:01	BS 250	Data is not available	available	Oversupply
1/19/2025 15:12	0:02	KWPPII	0.00469	10.81983	Oversupply
1/20/2025 10:27	0:01	AWE	0.00167	0.10000	Oversupply
1/20/2025 10:31	0:01	AWE	0.00167	0.10000	Oversupply
1/20/2025 10:42	0:01	AWE	0.00167	0.10000	Oversupply
1/20/2025 11:17	0:01	AWE	0.00167	0.10000	Oversupply
1/20/2025 12:05	0:03	BS 250	Data is not available	available	Oversupply
1/20/2025 12:06	0:01	KWPPII	0.00662	10.24201	Oversupply
1/20/2025 12:08	0:01	KWPPII	0.00478	9.40273	Oversupply
1/20/2025 12:23	0:02	BS 250	Data is not available	available	Oversupply
1/20/2025 12:24	0:01	KWPPII	0.01588	10.48252	Oversupply
1/20/2025 13:13	0:04	BS 250	Data is not available	available	Oversupply
1/20/2025 13:13	0:05	KWPPII	0.13398	9.27001	Oversupply
1/20/2025 13:19	0:03	BS 250	Data is not available	available	Oversupply
1/20/2025 13:19	0:03	KWPPII	0.05374	8.90875	Oversupply
1/20/2025 13:26	0:19	BS 250	Data is not available	available	Oversupply
1/20/2025 13:26	0:20	KWPPII	1.20656	10.27096	Oversupply
1/20/2025 16:34	0:01	BS 250	Data is not available	available	Oversupply
1/21/2025 12:41	0:01	KWPPII	0.00173	0.10379	Oversupply
1/21/2025 13:55	0:01	KWPPII	0.00133	0.07984	Oversupply
1/22/2025 12:14	0:09	BS 250	Data is not available	available	Oversupply
1/22/2025 12:14	0:09	KWPPII	0.14033	2.23642	Oversupply
1/22/2025 12:18	0:05	AWE	0.15727	9.60000	Oversupply
1/22/2025 12:26	0:01	KWPPII	0.00149	1.30732	Oversupply

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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/22/2025 19:56	0:01	AWE	0.00333	0.20000	Oversupply
1/22/2025 20:27	0:01	AWE	0.00167	0.10000	Oversupply
1/23/2025 14:40	0:01	5A	Data is not available	available	Oversupply
1/23/2025 14:40	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 10:04	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 10:09	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 10:11	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 10:12	0:01	KWP	0.00965	5.14845	Oversupply
1/24/2025 10:38	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 10:49	0:01	AWE	0.00167	0.10000	Oversupply
1/24/2025 11:01	0:01	AWE	0.00167	0.10000	Oversupply
1/24/2025 11:14	0:01	KWP	0.00935	7.26012	Oversupply
1/24/2025 11:16	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 11:16	0:02	KWP	0.00858	5.80211	Oversupply
1/24/2025 11:18	0:08	BS 250	Data is not available	available	Oversupply
1/24/2025 11:19	0:07	KWP	0.10292	6.77711	Oversupply
1/24/2025 11:27	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 11:27	2:36	KWP	10.76288	8.37185	Oversupply
1/24/2025 11:29	0:01	BS 250	Data is not available	available	Oversupply
1/24/2025 11:31	2:38	BS 250	Data is not available	available	Oversupply
1/24/2025 11:51	0:05	AWE	0.05152	2.50000	Oversupply
1/24/2025 11:57	0:01	AWE	0.00815	2.30000	Oversupply
1/24/2025 12:00	0:04	AWE	0.07184	2.70000	Oversupply
1/24/2025 12:02	0:01	5A	Data is not available	available	Oversupply
1/24/2025 12:06	0:10	AWE	0.19241	2.10000	Oversupply
1/24/2025 12:08	0:03	5A	Data is not available	available	Oversupply
1/24/2025 12:08	0:02	KWP	0.01465	1.00108	System Constraint
1/24/2025 12:12	0:01	5A	Data is not available	available	Oversupply
1/24/2025 12:12	0:02	KWP	0.00638	0.45830	System Constraint
1/24/2025 12:14	0:02	5A	Data is not available	available	Oversupply
1/24/2025 13:02	0:01	AWE	0.00839	5.00000	Oversupply
1/24/2025 13:04	0:02	AWE	0.01130	5.20000	Oversupply
1/24/2025 13:07	0:01	AWE	0.00084	5.20000	Oversupply
1/24/2025 13:13	0:02	AWE	0.02506	7.20000	Oversupply
1/24/2025 13:16	0:01	AWE	0.00197	6.20000	Oversupply
1/24/2025 13:18	0:01	AWE	0.00201	6.40000	Oversupply
1/24/2025 13:27	0:01	AWE	0.01084	8.20000	Oversupply
1/24/2025 13:29	0:07	AWE	0.12920	7.80000	Oversupply
1/24/2025 13:38	0:02	AWE	0.01307	6.50000	Oversupply
1/24/2025 13:41	0:01	AWE	0.00131	7.10000	Oversupply
1/24/2025 13:43	0:03	AWE	0.02702	7.30000	Oversupply
1/24/2025 13:47	0:01	AWE	0.00629	6.10000	Oversupply
1/24/2025 13:49	0:02	AWE	0.04113	7.70000	Oversupply
1/24/2025 13:52	0:03	AWE	0.02347	7.10000	Oversupply
1/24/2025 14:04	0:05	KWP	0.07248	4.27324	Oversupply
1/24/2025 14:10	0:05	BS 250	Data is not available	available	Oversupply
1/24/2025 14:11	0:04	KWP	0.08097	5.53566	Oversupply
1/24/2025 14:17	0:12	BS 250	Data is not available	available	Oversupply
1/24/2025 14:17	0:10	KWP	0.22611	5.87895	Oversupply
1/24/2025 14:28	0:01	KWP	0.01613	4.01178	Oversupply
1/24/2025 14:36	0:04	BS 250	Data is not available	available	Oversupply
1/24/2025 14:36	0:01	KWP	0.02316	4.05469	Oversupply
1/24/2025 14:38	0:02	KWP	0.01281	3.66050	Oversupply
1/24/2025 14:41	0:02	BS 250	Data is not available	available	Oversupply
1/24/2025 14:42	0:01	KWP	0.00198	3.72038	Oversupply
1/24/2025 23:10	0:01	AWE	0.00167	0.10000	Oversupply
1/24/2025 23:23	0:01	AWE	0.00167	0.10000	Oversupply
1/24/2025 23:31	0:01	AWE	0.00167	0.10000	Oversupply
1/25/2025 5:33	0:03	KWP	0.03866	15.88246	Oversupply
1/25/2025 9:42	0:01	BS 250	Data is not available	available	Oversupply
1/25/2025 9:44	0:02	BS 250	Data is not available	available	Oversupply
1/25/2025 9:44	0:03	KWP	0.03660	15.13599	Oversupply
1/25/2025 9:51	0:12	BS 250	Data is not available	available	Oversupply
1/25/2025 9:51	0:03	KWP	0.06328	14.43043	Oversupply
1/25/2025 9:55	0:08	KWP	0.22186	13.24786	Oversupply
1/25/2025 10:54	0:24	BS 250	Data is not available	available	Oversupply

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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/25/2025 10:55	0:01	KWPPII	0.01588	8.66425	Oversupply
1/25/2025 10:57	0:21	KWPPII	0.86670	11.89962	Oversupply
1/25/2025 11:19	2:36	BS 250	Data is not available	available	Oversupply
1/25/2025 11:19	2:36	KWPPII	19.11214	14.90845	Oversupply
1/25/2025 12:19	0:07	AWE	0.20235	21.00000	Oversupply
1/25/2025 13:07	0:03	AWE	0.01750	21.00000	Oversupply
1/25/2025 14:02	0:01	BS 250	Data is not available	available	Oversupply
1/25/2025 14:03	0:01	KWPPII	0.00928	11.85072	Oversupply
1/25/2025 14:54	0:01	KWPPII	0.00823	12.17505	Oversupply
1/25/2025 14:56	0:03	BS 250	Data is not available	available	Oversupply
1/25/2025 14:57	0:02	KWPPII	0.03497	11.52539	Oversupply
1/25/2025 15:03	0:02	BS 250	Data is not available	available	Oversupply
1/25/2025 15:03	0:01	KWPPII	0.00758	14.04323	Oversupply
1/25/2025 15:05	0:01	KWPPII	0.00463	13.98036	Oversupply
1/25/2025 23:23	1:07	KWPPII	6.35442	16.42734	Oversupply
1/26/2025 1:32	0:01	KWPPII	0.00411	16.37245	Oversupply
1/26/2025 1:48	0:05	KWPPII	0.07244	16.41636	Oversupply
1/26/2025 2:08	0:01	KWPPII	0.01103	16.43732	Oversupply
1/26/2025 3:16	0:43	KWPPII	2.94126	14.89249	Oversupply
1/26/2025 4:07	0:02	KWPPII	0.00571	14.48931	Oversupply
1/26/2025 4:43	0:15	KWPPII	0.53750	14.76275	Oversupply
1/26/2025 23:21	0:16	AWE	0.46144	14.30000	Oversupply
1/27/2025 10:41	0:01	AWE	0.00167	0.10000	Oversupply
1/28/2025 10:20	0:01	AWE	0.00333	0.20000	Oversupply
1/28/2025 11:23	0:06	BS 250	Data is not available	available	Oversupply
1/28/2025 11:24	0:05	KWPPII	0.06162	7.43078	Oversupply
1/28/2025 11:39	0:01	BS 250	Data is not available	available	Oversupply
1/28/2025 11:43	0:03	BS 250	Data is not available	available	Oversupply
1/28/2025 11:44	0:02	KWPPII	0.01516	11.36272	Oversupply
1/28/2025 12:15	0:01	KWPPII	0.00285	10.53541	Oversupply
1/28/2025 12:18	0:01	BS 250	Data is not available	available	Oversupply
1/28/2025 12:20	0:01	BS 250	Data is not available	available	Oversupply
1/28/2025 12:20	0:03	KWPPII	0.02081	9.91169	Oversupply
1/28/2025 12:24	0:15	BS 250	Data is not available	available	Oversupply
1/28/2025 12:25	0:17	KWPPII	0.47901	11.03339	Oversupply
1/28/2025 12:41	0:01	AWE	0.00167	0.10000	Oversupply
1/28/2025 12:44	0:01	AWE	0.00167	0.10000	Oversupply
1/28/2025 13:40	0:38	BS 250	Data is not available	available	Oversupply
1/28/2025 13:40	0:43	KWPPII	1.20672	9.04547	Oversupply
1/28/2025 14:21	0:01	BS 250	Data is not available	available	Oversupply
1/28/2025 14:41	0:02	BS 250	Data is not available	available	Oversupply
1/28/2025 14:41	0:02	KWPPII	0.05102	6.76913	Oversupply
1/28/2025 14:47	0:03	BS 250	Data is not available	available	Oversupply
1/28/2025 14:47	0:05	KWPPII	0.08371	6.48571	Oversupply
1/28/2025 14:56	0:01	BS 250	Data is not available	available	Oversupply
1/28/2025 15:02	0:04	BS 250	Data is not available	available	Oversupply
1/28/2025 15:03	0:03	KWPPII	0.03222	5.24825	Oversupply
1/28/2025 21:25	0:01	AWE	0.00333	0.20000	Oversupply
1/29/2025 11:03	0:06	BS 250	Data is not available	available	Oversupply
1/29/2025 11:04	0:03	AWE	0.06901	3.20000	Oversupply
1/29/2025 11:08	0:04	AWE	0.02178	3.20000	Oversupply
1/29/2025 11:10	0:01	BS 250	Data is not available	available	Oversupply
1/29/2025 11:21	0:01	BS 250	Data is not available	available	Oversupply
1/29/2025 11:21	0:07	AWE	0.05734	3.80000	Oversupply
1/29/2025 11:25	0:02	BS 250	Data is not available	available	Oversupply
1/29/2025 11:32	0:01	AWE	0.00374	4.40000	Oversupply
1/29/2025 11:36	0:01	BS 250	Data is not available	available	Oversupply
1/29/2025 11:36	0:02	AWE	0.00963	5.40000	Oversupply
1/30/2025 13:11	0:01	BS 250	Data is not available	available	Oversupply
1/30/2025 13:13	0:02	BS 250	Data is not available	available	Oversupply
1/30/2025 13:15	0:01	KWPPII	0.00198	8.88579	Oversupply
1/30/2025 13:18	0:29	BS 250	Data is not available	available	Oversupply
1/30/2025 13:18	0:29	KWPPII	1.81422	8.88380	Oversupply

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Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1/30/2025 14:51	0:01	AWE	0.00167	0.10000	Oversupply
1/30/2025 21:12	0:03	KWPPII	0.22571	5.82307	Oversupply
1/30/2025 22:03	0:01	KWPPII	0.00008	5.80810	Oversupply
1/30/2025 22:05	0:02	KWPPII	0.02738	5.82107	Oversupply
1/30/2025 22:08	0:01	KWPPII	0.00369	5.82706	Oversupply
1/30/2025 22:11	0:02	KWPPII	0.00192	5.83205	Oversupply
1/30/2025 22:14	0:01	KWPPII	0.00486	5.82307	Oversupply
1/30/2025 22:21	0:02	KWPPII	0.00544	5.67637	Oversupply
1/30/2025 22:24	0:02	KWPPII	0.00997	5.81608	Oversupply
1/30/2025 22:27	0:02	KWPPII	0.00646	5.81808	Oversupply
1/30/2025 22:30	0:14	KWPPII	0.23443	5.82906	Oversupply
1/30/2025 22:36	0:04	AWE	0.10333	17.50000	System Constraint
1/30/2025 22:45	0:12	KWPPII	0.81900	5.83105	Oversupply
1/30/2025 22:58	7:54	AWE	81.62667	21.00000	System Constraint
1/31/2025 0:08	0:01	KWPPII	0.00207	7.19725	Oversupply
1/31/2025 0:11	0:01	KWPPII	0.00239	6.95575	Oversupply
1/31/2025 0:13	0:03	KWPPII	0.01691	7.34695	Oversupply
1/31/2025 0:38	0:01	KWPPII	0.00155	7.35293	Oversupply
1/31/2025 6:54	0:03	AWE	0.03333	7.90000	Oversupply
1/31/2025 7:11	0:02	AWE	0.00833	7.30000	Oversupply
1/31/2025 10:44	0:01	BS 250	Data is not available	available	Oversupply
1/31/2025 10:52	0:01	KWPPII	0.00555	12.06927	Oversupply
1/31/2025 10:54	0:02	BS 250	Data is not available	available	Oversupply
1/31/2025 10:55	0:01	KWPPII	0.01447	11.46750	Oversupply
1/31/2025 13:02	0:02	BS 250	Data is not available	available	Oversupply
1/31/2025 13:02	0:35	KWPPII	1.84394	12.94148	Oversupply
1/31/2025 13:05	0:30	BS 250	Data is not available	available	Oversupply
1/31/2025 13:36	0:04	BS 250	Data is not available	available	Oversupply
1/31/2025 13:38	0:03	KWPPII	0.09783	12.54829	Oversupply
1/31/2025 13:41	0:32	BS 250	Data is not available	available	Oversupply
1/31/2025 13:42	0:32	KWPPII	1.53874	13.75681	Oversupply
1/31/2025 14:15	1:30	BS 250	Data is not available	available	Oversupply
1/31/2025 14:15	0:09	KWPPII	0.38078	12.99937	Oversupply
1/31/2025 14:25	1:13	KWPPII	4.73838	10.58132	Oversupply
1/31/2025 14:48	0:01	AWE	0.00325	2.40000	Oversupply
1/31/2025 14:50	0:01	AWE	0.01161	1.60000	Oversupply
1/31/2025 15:01	0:04	5A	Data is not available	available	Oversupply
1/31/2025 15:01	0:04	AWE	0.06659	1.40000	Oversupply
1/31/2025 15:02	0:03	KWP	0.04168	10.40908	Oversupply
1/31/2025 15:06	0:01	AWE	0.00274	0.70000	Oversupply
1/31/2025 15:15	0:03	5A	Data is not available	available	Oversupply
1/31/2025 15:15	0:04	AWE	0.04833	1.00000	Oversupply
1/31/2025 15:15	0:04	KWP	0.11001	11.46237	Oversupply
1/31/2025 15:22	0:01	AWE	0.00165	1.30000	Oversupply
1/31/2025 15:25	0:02	AWE	0.01543	2.10000	Oversupply
1/31/2025 15:39	0:07	KWPPII	0.16871	8.31796	Oversupply
<b>Total Estimated Curtailed MWh</b>			<b>646.984</b>		

Notes:

- Curtailment for Kaheawa Wind Power ("KWP"), AAAAA Rent-A-Space Maui LTD ("5A"), Maui Solar, LLC (MS) fka Strategic Alliance Group ("SAG") fka 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 ("SSA3") fka South Maui Renewable Resources ("SMRR"), SSA Solar of HI 2 ("SSA3") fka Ku'ia Solar ("KS"), and Maui 17-2 ("17-2") may now be controlled by Maui Electric's Automatic Generation Control System ("AGC") or a Maui Electric operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ("MAVG") that Maui Electric can accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down requirement ("RRDR"), and available regulating reserve down ("ARRD"). Thus, the AGC MAVG - calculated is equal to CAVG
- Curtailment signals sent to 5A, MS (fka SAG fka BS), BS250, ESA, ESB, SSA3 (fka SMRR), SSA3 (fka KS) and 17-2 during nighttime hours only are not recorded as curtailment events because no energy generation is possible during that time.
- The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.
- Facility Requested curtailment includes but is not limited to conditions that are attributed to IPPs such as communication problems and curtailment control testing.
- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, MS, BS 250, ESA, and ESB.

**Maui Curtailment Report**

**January  
 2025**



Start Date and Time	Duration (minutes)	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
<p>- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information estimated or provided by AWE, KWP, KWP11, SSA 2 (fka KS), SSA 3 (fka SMRR) and 17-2. Maui Electric does not make any representation as to its accuracy.</p>					
<p>- ESA, and ESB facilities were offline for the month because of Seller equipment problems.</p>					
<p>- Kuia Solar was offline for the entire month due to the Lahaina Fire on November 12, 2022. The interconnection Substation was also destroyed in the August 8 2023 Lahaina Wind Storm and Fires. No return to service date available. As of June 12, 2024, SMRR was back online but at reduced capacity. The facility went offline again on July 3 and subsequently started a small fire at the facility. Seller is working on a root cause analysis, there is no</p>					
<p>- On March 23, 2024 MS (Bioreal 500) FIT project had a fire and lost their interconnection facilities. Owner is working to install new equipment and will coordinate with engineering as needed. Project is offline until repairs are made. Owner has reached out to schedule interconnection (pending). Last reported curtailment is March 23, 2024.</p>					
<p>-December 6th &amp; 7th Maui 17-2 had communication errors on their side of the comms system, as a result their system data reported 0 (zero) P_Possible, resulting in the site being curtailed until the comms error is fixed. They are still waiting on parts. Curtailment data only available up to Dec 6th, 2025. No further data available until the repairs are complete.</p>					



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**Chu, Michael**

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