

2022 Qualifying Events Report

November 29, 2022 Event

Filed on
February 28, 2023



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Event Description

Event Date and Time

Start: 11/29/2022, 18:30

End: 12/02/2022, 23:00

Event Type

Wind, snow, ice

Service Areas Significantly Affected

Kitsap, North King, Thurston

Number of Customers Affected

System wide, approximately 136,529 customers were without power during the course of this event.

Summary of System Impacts

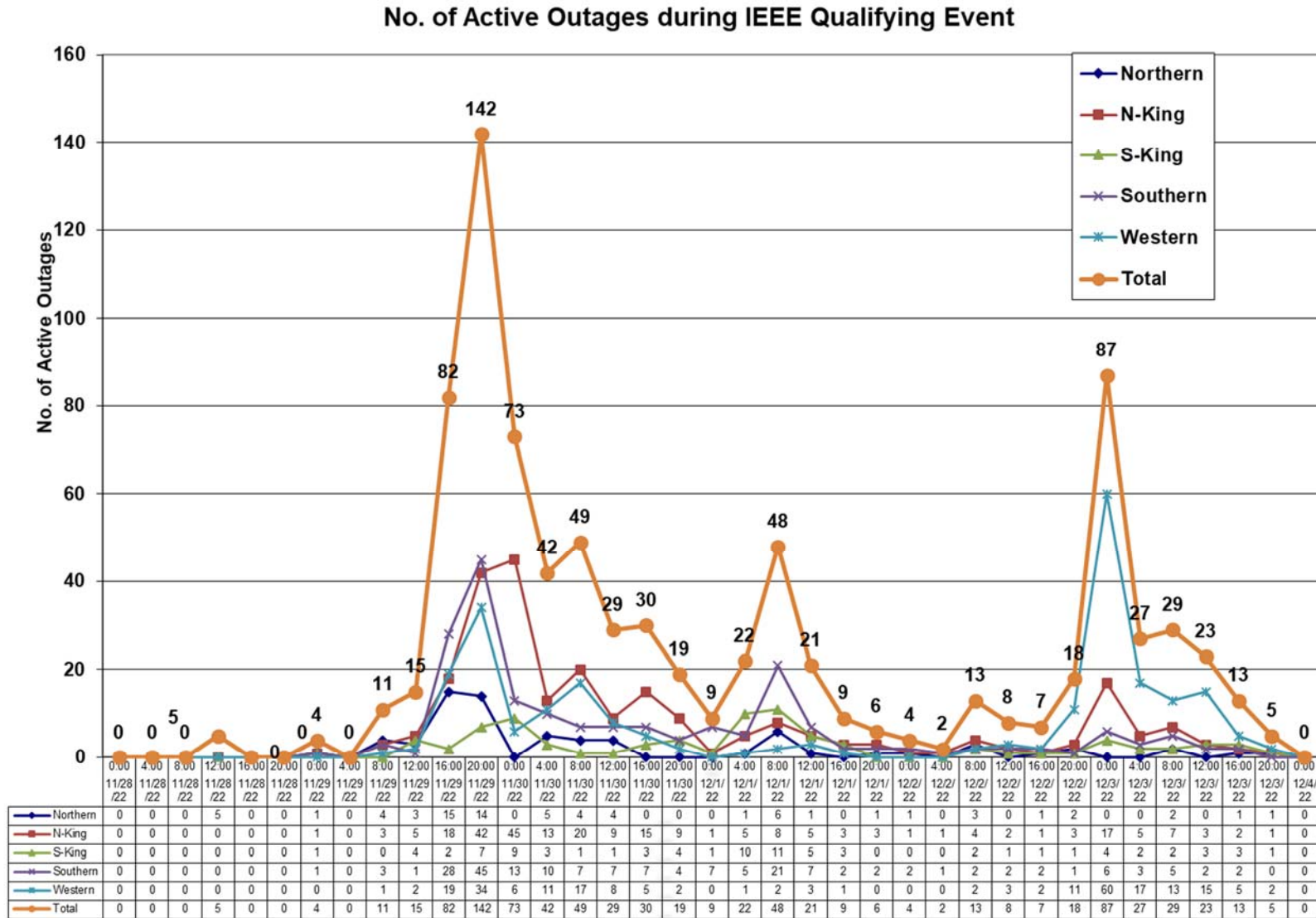
Total Number of Outages for the Event	607
Transmission Line Segments Affected	11
Impacted Substations	3
Distribution Circuits Out	16

Mobilization Summary

Regional Operating Bases and ECC (Emergency Coordination Center) Activations

District	Date Opened	Time Opened	Date Closed	Time Closed
ECC	11/29/2022	22:30	12/01/2022	12:00
ISLAND	N/A			
KITSAP	11/29/2022	21:30	12/01/2022	09:00
KITTITAS	N/A			
NORTH KING	11/29/2022	20:30	12/01/2022	16:00
PIERCE	N/A			
SKAGIT	N/A			
SOUTH KING	N/A			
THURSTON	11/29/2022	20:30	12/01/2022	08:00
WHATCOM	N/A			

Active Outages Chart



Major Event – Qualification Summary

IEEE1 Standard 1366

IEEE Standard 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of electric system service reliability indices, to identify factors which affect the indices, and to aid in consistent reporting practices among utilities. Also, it provides guidance for new personnel in the reliability area and tools for internal as well as external comparisons. The Major Event Day definition was created as part of IEEE Standard 1366 to allow for consistent calculation of reliability metrics between utilities and enable more valid comparisons with other utility reliability metrics.

IEEE Major Event Day Calculation (2.5 BETA METHOD)

1. A threshold on daily SAIDI² is computed once a year, following year end
2. Assemble the 5 most recent years of historical values of SAIDI/day
3. Discard any days in the data set that has a SAIDI/day of zero
4. Find the natural logarithm of each value in the data set
5. Compute the average (Alpha) and the standard deviation (Beta) of the natural logarithms computed in step 4
6. Compute the threshold T_{MED} where $T_{MED} = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > T_{MED} is a major event day

Puget Sound Energy's IEEE Major Event Threshold (T_{MED}) for 2022: 7.80 Minutes

Qualified Event - Calculation Detail - Current Event

Event Date, Time Range	Total Outages	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
11/29/2022 18:30 - 12/02/2022 23:00	607	37,593,331	1,215,220	30.94

YTD Qualified Events - First Day the Daily SAIDI Exceeded T_{MED} of 6.38 Minutes

Date	Daily SAIDI (from midnight to midnight)	Total O&M Costs
1/3/2022	8.29	\$1,635,257
4/4/2022	28.17	\$3,940,756
11/4/2022	105.34	\$11,548,348
11/29/2022	21.12	\$4,376,159

¹ IEEE: Institute of Electrical and Electronics Engineers

² SAIDI: System Average Interruption Duration Index

* Update since last report

Event Restoration – YTD Cost Summary

Starting from the 2018 calendar year, PSE continues its existing Qualifying Storm Loss Deferral Mechanism for any storm restoration costs incurred on or after January 1, 2018, with the following modifications that were agreed to in settlement and the settlement was approved by the Commission in PSE's 2017 general rate case:

- (i) the cumulative annual cost threshold for deferral of storms under the Qualifying Storm Loss Deferral Mechanism shall be increased from \$8 million to \$10 million,
- (ii) qualifying events that cost less than \$500,000 will not qualify for deferral, and
- (iii) the cumulative annual cost threshold for the Qualifying Storm Loss Deferral Mechanism shall exclude storm events with costs less than \$500,000.

(Page 22 of Appendix B to Order 08 in consolidated Dockets UE-170033 and UG-170034)

2022 Restoration Costs Detail - By Storm Event (includes ALL storm events)

Event Date	Qualified Events Deferred Account	Capital Costs	O&M Costs Not Deferrable	O&M Costs Deferrable Accumulation	Total O&M Costs	Total Costs
(A)	(B)	(C)	(D)	(E)	(F) = (B)+(D)+(E)	(G)= (F) + (C)
1/3/2022	\$0	\$375,288	\$0	\$1,635,257	\$1,635,257	\$2,010,545
2/21/2022 **	\$0	\$401,708	\$153,499	\$0	\$153,499	\$555,208
4/4/2022	\$0	\$916,212	\$0	\$3,940,756	\$3,940,756	\$4,856,968
5/18/2022 **	\$0	\$476,955	\$235,544	\$0	\$235,544	\$712,499
11/4/2022	\$7,124,361	\$3,357,000	\$0	\$4,423,986	\$11,548,348	\$14,905,347
11/17/2022 **	\$0	\$520,302	\$203,231	\$0	\$203,231	\$723,533
11/29/2022	\$4,376,159	\$665,856	\$0	\$0	\$4,376,159	\$5,042,015

** Non-qualifying Event, costs associated with these events are not deferrable

2022 YTD Storm Restoration Cost Summary for ALL Events

Qualifying Events Deferred Account	Capital Costs	O&M Costs - Not Deferrable	O&M Costs - Deferrable Accumulation	Total O&M Costs	Total Costs
\$11,500,521	\$6,713,320	\$592,275	\$10,000,000	\$22,092,795	\$28,806,115

Detail Documents

Restoration Costs Detail – Current Event

Detailed List of Distribution Circuits with Outages

Terms, Codes and Definitions Used on Detail Reports

Restoration Costs Detail – Current Event

Puget Sound Energy						
November 29 Qualifying Storm Damage Repair Costs						
	Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
Labor						
ST	\$0	\$366	\$0	\$51,685	\$51,685	\$52,051
OT	\$0	\$0	\$0	\$535,492	\$535,492	\$535,492
Total Labor	\$0	\$366	\$0	\$587,177	\$587,177	\$587,543
Labor OH	\$0	\$142,009	\$0	\$0	\$0	\$142,009
Materials	\$0	\$94,032	\$0	\$145,924	\$145,924	\$239,957
Contractors	\$0	\$427,874	\$0	\$3,299,772	\$3,299,772	\$3,727,645
Other Direct Charges	\$0	\$0	\$0	\$45,655	\$45,655	\$45,655
Fleet	\$0	\$0	\$0	\$0	\$0	\$0
Other Assessments	\$0	\$1,574	\$0	\$297,632	\$297,632	\$299,206
Deferred Expenses	\$4,376,159	\$0	\$0	\$0		\$0
	\$4,376,159	\$665,856	\$0	\$4,376,159	\$4,376,159	\$5,042,015

ST: Standard time

OT: Over time

OH: Overhead

Detailed List of Outages – First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00854633-2	11/29/2022	1:08:11 AM	ARD-15	EBE	CP	UPT	1	98
P00854705-1	11/29/2022	1:30:54 AM	SUM-22	EAC	EF	OFU	1	125
P00854689-2	11/29/2022	3:00:31 AM	RAI-13	ECC	CP	OPO	116	1,668
P00854707-1	11/29/2022	3:08:12 AM	CLE-13	EBH	EF	OCN	1	247
P00825589-1	11/29/2022	8:29:38 AM	WOB-23	EAA	SO	OHR	8	2,874
P00854739-1	11/29/2022	9:02:00 AM	CUS-16	EAA	EF	OTR	1	50,477
P00854713-1	11/29/2022	9:02:07 AM	WIN-15	ECE	SO	UPC	4	939
P00850980-1	11/29/2022	9:08:11 AM	BON-17	ECA	SO	OPO	62	22,322
P00853824-1	11/29/2022	9:35:41 AM	LON-25	ECC	SO	UPC	1	156
P00854749-1	11/29/2022	9:46:19 AM	NBE-12	EBD	BA	OTF	4	255
P00841700-1	11/29/2022	9:59:16 AM	LGY-12	EAD	SO	UPT	19	3,451
P00854753-1	11/29/2022	10:11:51 AM	BRI-17	EAA	EF	USV	1	364
P00854712-1	11/29/2022	10:15:22 AM	FLD-15	EAD	SO	UTR	9	1,369
P00854768-1	11/29/2022	11:08:15 AM	KNM-26	EBD	EF	USV	1	158
P00827773-1	11/29/2022	11:17:38 AM	MIL-22	ECE	SO	OCO	77	2,400
P00854784-1	11/29/2022	11:18:56 AM	MKI-14	ECC	EF	UHH	5	849
P00854709-2	11/29/2022	11:28:51 AM	WAY-16	EBD	CE	USV	6	10,686
P00854748-1	11/29/2022	11:42:16 AM	HAM-15	EAC	SO	OPO	17	3,322
P00854789-1	11/29/2022	12:28:49 PM	SBE-26	EBE	SO	OPO	2	457
P00610805-2	11/29/2022	12:55:54 PM	VAS-23	EBL	EF	OPO	31	6,684
P00854806-1	11/29/2022	12:57:49 PM	LAU-12	EAA	BA	OTR	3	154
P00841700-1	11/29/2022	1:01:09 PM	LGY-12	EAD	SO	UPT	3	164
P00854810-1	11/29/2022	1:15:48 PM	RDO-12	EBJ	EF	OTR	40	1,731
P00854815-1	11/29/2022	1:32:33 PM	BEL-23	EBJ	EF	UPT	3	108
P00854737-2	11/29/2022	1:50:50 PM	CAS-16	EBH	EF	UPS	5	876
P00854827-1	11/29/2022	2:38:20 PM	ROL-17	EBJ	EF	USV	1	453
P00854830-1	11/29/2022	2:49:47 PM	UHL-21	EBD	TV	OCO	3,169	(1)
P00854832-1	11/29/2022	2:53:31 PM	UHL-22	EBD	EF	OTF	5	65
P00814598-2	11/29/2022	2:53:37 PM	COT-15	EBD	SO		-	12
P00854838-1	11/29/2022	2:57:56 PM	UHL-22	EBD	EF	OCO	1	8
P00854845-1	11/29/2022	3:30:37 PM	KIN-22	ECE	TV	OCO	9	620
P00854848-1	11/29/2022	3:48:20 PM	ROE-13	EAA	EF	OTR	4	431
P00854849-1	11/29/2022	3:50:44 PM	AIR-23	ECC	EF	UPC	1	2,598
P00854851-1	11/29/2022	3:52:18 PM	SIN-23	ECD	TV	OCO	2	88
P00854852-1	11/29/2022	3:56:35 PM	CRE-15	EAD	TV	OFU	21	1,910
P00854854-1	11/29/2022	4:03:12 PM	KIN-21	ECE	EF	OFU	2	239
P00854855-1	11/29/2022	4:09:08 PM	SIN-23	ECD	EF	OFU	137	41,976
P00854948-1	11/29/2022	4:57:51 PM	SIL-15	ECE	TV	OCO	4,994	2,093,577
P00855199-1	11/29/2022	4:57:59 PM	TLN-0052	ECE	TV	OCO	3,756	54,338
P00855217-1	11/29/2022	4:58:13 PM	TLN-0063	ECE	TV	OCO	3,404	40,906
P00855226-1	11/29/2022	4:58:19 PM	TLN-0075	ECD	TV	OCO	2,879	55,804
P00855061-1	11/29/2022	5:01:52 PM	CLV-16	EAD	UN	OHR	1,246	171,263
P00854760-2	11/29/2022	5:02:12 PM	PLG-13	ECC	EF	UTR	2	128
P00855236-1	11/29/2022	5:17:49 PM	ORT-23	ECA	TV	OCO	10	1,688

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00855246-1	11/29/2022	5:31:31 PM	WOO-26	ECA	TV	OCO	129	10,030
P00855250-1	11/29/2022	5:35:11 PM	MCW-16	ECE	EF	OCO	195	33,355
P00855259-1	11/29/2022	5:41:08 PM	RPT-17	ECD	TV	OFU	38	3,226
P00855265-1	11/29/2022	5:50:54 PM	SBE-26	EBE	TV	OCO	1	460
P00855397-1	11/29/2022	5:57:24 PM	COT-13	EBD	TV	OCO	2,279	121,243
P00854859-1	11/29/2022	6:00:07 PM	BRS-13	EAC	EF	OFU	2	65
P00855274-1	11/29/2022	6:10:39 PM	MIR-15	EBD	TV	OCO	109	23,491
P00855276-1	11/29/2022	6:12:39 PM	HAM-13	EAC	TV	OFU	9	2,351
P00855280-1	11/29/2022	6:14:04 PM	ROC-26	ECC	EF	OPO	49	25,136
P00855286-1	11/29/2022	6:15:27 PM	LLT-16	EBD	TV	OCO	-	91,860
P00855298-1	11/29/2022	6:24:53 PM	WOL-25	ECC	TV	OCO	12	600
P00855303-1	11/29/2022	6:29:00 PM	RAI-13	ECC	TV	OCO	1,506	355,821
P00855308-1	11/29/2022	6:32:46 PM	SLA-16	EAA	TV	UGF	40	5,549
P00855333-1	11/29/2022	6:36:47 PM	HAP-13	EAA	TV	SCB	2,532	196,610
P00856554-1	11/29/2022	6:42:13 PM	COT-16	EBD	TV	OCO	130	117,852
P00855372-1	11/29/2022	6:43:14 PM	HOB-16	EBI	TV	OFU	29	2,636
P00855373-1	11/29/2022	6:45:15 PM	POU-16	ECE	TV	OPI	153	153,093
P00855374-1	11/29/2022	6:46:11 PM	MIR-15	EBD	TV	OCO	191	34,058
P00855375-1	11/29/2022	6:46:34 PM	SIL-16	ECE	EF	OFU	73	6,670
P00855382-1	11/29/2022	6:50:00 PM	BLU-17	ECC	TV	OCO	218	20,129
P00855379-1	11/29/2022	6:50:23 PM	ROC-15	ECC	EF	OFU	63	25,726
P00855387-1	11/29/2022	6:52:17 PM	ALG-12	EAC	TV	OFU	32	8,115
P00855395-1	11/29/2022	6:54:07 PM	BRW-15	EAC	TV	OFU	161	85,861
P00855401-1	11/29/2022	6:56:16 PM	AVO-17	EBD	TV	OCO	273	46,738
P00855403-1	11/29/2022	6:59:19 PM	SUM-22	EAC	TV	OFU	9	872
P00857420-1	11/29/2022	7:02:00 PM	LON-26	ECC	TV	OFU	15	18,908
P00855957-1	11/29/2022	7:08:23 PM	COT-13	EBD	TV	OCO	5	5,013
P00855419-1	11/29/2022	7:09:06 PM	SIL-16	ECE	TV	OTR	3	4,491
P00855418-1	11/29/2022	7:09:49 PM	COT-13	EBD	TV	OCO	29	3,839
P00855424-1	11/29/2022	7:11:21 PM	AIR-23	ECC	EF	OFU	5	5,211
P00855427-1	11/29/2022	7:11:22 PM	UHL-25	EBD	TV	OCO	417	58,248
P00855425-1	11/29/2022	7:12:03 PM	HAM-13	EAC	TV	OFU	20	5,068
P00855428-1	11/29/2022	7:12:42 PM	CHA-16	ECC	TV	OFU	14	15,272
P00855987-1	11/29/2022	7:12:58 PM	UHL-25	EBD	TV	OCO	74	67,238
P00855430-1	11/29/2022	7:14:14 PM	COT-13	EBD	TV	OCO	17	4,652
P00855437-1	11/29/2022	7:16:18 PM	WOB-23	EAA	TV	SCB	1,566	124,627
P00855434-1	11/29/2022	7:17:45 PM	GBK-15	EAD	BA	OTR	5	246
P00856418-1	11/29/2022	7:17:58 PM	LON-22	ECC	TV	OCO	44	34,337
P00855440-1	11/29/2022	7:18:32 PM	PGA-12	ECE	TV	OCO	23	57,443
P00855442-1	11/29/2022	7:19:49 PM	LAB-25	EAA	TV	OFU	2	689
P00855444-1	11/29/2022	7:21:12 PM	WOB-23	EAA	TV	OHR	110	89,973
P00855450-1	11/29/2022	7:21:13 PM	FRG-25	ECC	TV	OCO	1,695	33,526
P00855454-1	11/29/2022	7:22:43 PM	PLG-15	ECC	TV	SCB	1,210	104,565
P00855456-1	11/29/2022	7:23:39 PM	BRW-15	EAC	TV	OFU	2,838	343,793
P00855455-1	11/29/2022	7:25:24 PM	PRI-13	ECC	TV	OFU	26	24,256
P00855457-1	11/29/2022	7:26:19 PM	GRI-13	ECC	TV	OFU	101	27,329

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00855463-1	11/29/2022	7:27:59 PM	SPG-13	ECC	TV	OCO	715	63,528
P008556597-1	11/29/2022	7:30:13 PM	SIL-16	ECE	EF	OCO	2,164	991,687
P00855471-1	11/29/2022	7:31:26 PM	WOL-25	ECC	TV	OFU	31	31,706
P00855472-1	11/29/2022	7:31:28 PM	MKI-16	ECC	TV	OFU	22	19,996
P00855476-1	11/29/2022	7:32:36 PM	POU-16	ECE	TV	OCO	-	50,975
P00855478-1	11/29/2022	7:33:05 PM	MIR-15	EBD	TV	OCO	50	5,643
P008556601-1	11/29/2022	7:33:17 PM	SIL-15	ECE	EF	OCO	1,620	1,118,032
P00855482-1	11/29/2022	7:35:14 PM	OBY-17	ECC	EF	OFU	49	38,565
P00855484-1	11/29/2022	7:35:56 PM	GRI-15	ECC	TV	OFU	4	3,198
P00855487-1	11/29/2022	7:36:49 PM	RPT-17	ECD	TV	OSV	1	1,433
P00855488-1	11/29/2022	7:37:04 PM	SIL-15	ECE	TV	OCO	102	137,743
P00855491-1	11/29/2022	7:38:27 PM	AIR-23	ECC	TV	OPO	164	100,241
P00855497-1	11/29/2022	7:40:16 PM	BKB-14	EAC	TV	OFU	94	11,170
P00855499-1	11/29/2022	7:40:43 PM	LYO-15	EBI	TV	OFU	47	5,231
P00855506-1	11/29/2022	7:42:47 PM	GRI-13	ECC	TV	OCO	19	26,374
P00855518-1	11/29/2022	7:48:16 PM	MIR-17	EBD	TV	OHR	216	88,693
P00855636-1	11/29/2022	7:49:18 PM	MIR-13	EBD	TV	OCO	8	2,226
P00855529-1	11/29/2022	7:51:21 PM	COT-15	EBD	TV	OCO	959	176,976
P00855592-1	11/29/2022	7:54:00 PM	FRG-24	ECC	TV	OCO	-	10,623
P00855532-1	11/29/2022	7:54:06 PM	COT-16	EBD	TV	OCO	7	4,986
P00855533-1	11/29/2022	7:54:40 PM	ELD-27	ECC	TV	OFU	23	21,650
P00855535-1	11/29/2022	7:55:07 PM	MIL-22	ECE	TV	OSV	1	579
P00855541-1	11/29/2022	7:55:47 PM	GAR-13	ECA	TV	OCO	176	64,158
P008556588-1	11/29/2022	7:56:55 PM	SIL-13	ECE	EF	OHR	396	132,568
P00855557-1	11/29/2022	7:58:22 PM	BLU-16	ECC	TV	OCO	45	12,486
P00855909-1	11/29/2022	8:00:00 PM	POU-15	ECE	TV	OCR	1,762	1,576,304
P00855551-1	11/29/2022	8:00:17 PM	ROC-25	ECC	TV	OCO	32	38,169
P00855558-1	11/29/2022	8:00:22 PM	BLU-16	ECC	TV	OPO	24	66,728
P00858092-1	11/29/2022	8:00:23 PM	POU-15	ECE	TV	OFU	1	1,352
P00855553-1	11/29/2022	8:00:28 PM	GRI-15	ECC	TV	OFC	3	3,541
P00855556-1	11/29/2022	8:01:16 PM	ORT-23	ECA	TV	OCO	66	26,740
P00855561-1	11/29/2022	8:02:56 PM	POU-13	ECE	TV	OCO	620	852,595
P00855574-1	11/29/2022	8:03:25 PM	ORT-22	ECA	TV	OCO	366	29,683
P00855577-1	11/29/2022	8:04:24 PM	GRI-16	ECC	TV	OFU	8	8,160
P00855666-1	11/29/2022	8:06:44 PM	GRI-15	ECC	TV	OCO	11	17,593
P00855601-1	11/29/2022	8:07:36 PM	GRI-16	ECC	TV	OCO	11	7,246
P00857414-1	11/29/2022	8:08:00 PM	SPG-13	ECC	TV	OFU	52	47,366
P00855639-1	11/29/2022	8:11:07 PM	MIR-17	EBD	TV	OCO	-	14,900
P00855648-1	11/29/2022	8:11:49 PM	PMA-15	ECE	TV	OCO	3	2,873
P00855854-1	11/29/2022	8:14:08 PM	SPG-13	ECC	TV	OCO	34	43,540
P00855667-1	11/29/2022	8:14:16 PM	BAR-15	ECC	TV	OCO	6	6,592
P00855676-1	11/29/2022	8:19:05 PM	LON-26	ECC	TV	OCO	4	4,667
P00858136-1	11/29/2022	8:20:26 PM	GRI-13	ECC	EF	OFU	13	16,291
P00855684-1	11/29/2022	8:24:00 PM	BIG-15	EAC	TV	OFU	295	30,520
P00855688-1	11/29/2022	8:27:14 PM	ING-13	EBD	TV	OCO	173	183,686
P00855705-1	11/29/2022	8:28:15 PM	ROC-15	ECC	TV	OCO	956	167,332

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00855707-1	11/29/2022	8:28:25 PM	PTR-14	EAA	TV	OHR	677	339,033
P00855699-1	11/29/2022	8:29:00 PM	PAT-15	ECC	TV	OCO	3	3,338
P00858085-1	11/29/2022	8:30:27 PM	GRI-13	ECC	TV	OCO	13	16,161
P00855713-1	11/29/2022	8:31:02 PM	CPV-15	EAD	TV	OFU	84	8,476
P00855714-1	11/29/2022	8:31:20 PM	GRI-15	ECC	TV	OFU	92	45,658
P00855749-1	11/29/2022	8:35:31 PM	KAP-13	ECA	TV	OCO	511	81,960
P00855795-1	11/29/2022	8:36:11 PM	CHI-12	ECD	TV	OCO	64	29,375
P00858097-1	11/29/2022	8:36:17 PM	POU-15	ECE	TV	OCO	2	2,680
P00855811-1	11/29/2022	8:36:19 PM	GRI-13	ECC	TV	OCO	794	252,704
P00856482-1	11/29/2022	8:36:58 PM	POU-16	ECE	TV	OCO	153	95,832
P00855745-1	11/29/2022	8:39:28 PM	CHI-12	ECD	TV	OCO	2	914
P00855761-1	11/29/2022	8:39:56 PM	BRS-13	EAC	TV	OFU	1	165
P00855763-1	11/29/2022	8:40:08 PM	WOB-25	EAA	TV	OFU	32	6,026
P00855792-1	11/29/2022	8:43:00 PM	TLN-0157	EBJ	TV	OCO	878	(1)
P00856577-1	11/29/2022	8:44:00 PM	GWR-13	EBJ	TV	OCO	-	172,934
P00855771-1	11/29/2022	8:44:44 PM	LLT-17	EBD	TV	OCO	10	22,375
P00855772-1	11/29/2022	8:44:46 PM	GRI-15	ECC	TV	OCO	4	7,111
P00855279-1	11/29/2022	8:45:46 PM	RPT-15	ECD	TV	OCN	1	244
P00855781-1	11/29/2022	8:47:30 PM	CHA-12	ECC	TV	OTF	3	2,243
P00855783-1	11/29/2022	8:48:11 PM	PLG-13	ECC	TV	OFU	1	1,461
P00855794-1	11/29/2022	8:50:09 PM	FRU-22	ECA	TV	OFU	5	3,471
P00855798-1	11/29/2022	8:50:59 PM	PIN-27	EBD	TV	OCO	82	10,950
P00855843-1	11/29/2022	8:51:21 PM	SPG-13	ECC	TV	OCO	264	150,084
P00855823-1	11/29/2022	8:52:00 PM	HAP-16	EAA	TV	OCO	41	5,772
P00855818-1	11/29/2022	8:54:24 PM	SHA-15	ECA	EF	OTF	1	839
P00855819-1	11/29/2022	8:54:25 PM	SWD-12	ECE	TV	OCO	69	78,713
P00857443-1	11/29/2022	8:56:05 PM	WLK-15	ECA	TV	OCO	47	53,083
P00855832-1	11/29/2022	8:56:27 PM	SWD-12	ECE	TV	OCO	57	38,848
P00855834-1	11/29/2022	8:56:38 PM	LAT-13	EBJ	TV	OFU	229	11,423
P00856604-1	11/29/2022	8:59:16 PM	SIL-13	ECE	TV	SCB	272	65,652
P00855870-1	11/29/2022	9:01:34 PM	ROC-17	ECC	EF	OTF	1	846
P00855869-1	11/29/2022	9:01:35 PM	HAP-16	EAA	UN	OTR	4	1,176
P00855258-2	11/29/2022	9:02:56 PM	SIL-17	ECE	TV	OCO	37	16,233
P00855879-1	11/29/2022	9:03:56 PM	BUC-16	ECA	TV	OCO	770	83,738
P00855880-1	11/29/2022	9:04:37 PM	PGA-12	ECE	TV	OCO	57	41,084
P00855901-1	11/29/2022	9:05:54 PM	SIL-17	ECE	TV	OCO	126	151,793
P00855910-1	11/29/2022	9:10:18 PM	LYO-15	EBI	TV	OFU	35	6,102
P00855941-1	11/29/2022	9:13:04 PM	WOB-23	EAA	TV	SCB	1,456	19,219
P00855931-1	11/29/2022	9:13:20 PM	BCH-12	EAA	TV	OFU	7	1,382
P00855933-1	11/29/2022	9:13:44 PM	SPG-13	ECC	TV	OCO	17	7,793
P00855942-1	11/29/2022	9:14:14 PM	FRG-22	ECC	TV	OCO	1,042	203,152
P00855951-1	11/29/2022	9:17:54 PM	LGY-12	EAD	TV	OFU	2	194
P00855953-1	11/29/2022	9:18:28 PM	SPG-13	ECC	TV	OCO	17	44,358
P00855959-1	11/29/2022	9:20:49 PM	SWD-12	ECE	TV	OCO	3	6,842
P00855962-1	11/29/2022	9:21:32 PM	POU-13	ECE	TV	OCO	143	52,619
P00855971-1	11/29/2022	9:24:21 PM	CEK-01	ECE	TV	OCO	3,756	158,503

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00855970-1	11/29/2022	9:24:21 PM	FRG-25	ECC	TV	OCO	138	4,830
P00855975-1	11/29/2022	9:26:00 PM	SPG-13	ECC	TV	OFU	5	5,230
P00856667-1	11/29/2022	9:26:56 PM	CHR-22	ECE	TV	OCO	39	33,777
P00855981-1	11/29/2022	9:26:57 PM	LGY-12	EAD	TV	OFU	67	17,715
P00855983-1	11/29/2022	9:27:27 PM	PGA-12	ECE	UN	OCO	11	9,037
P00855993-1	11/29/2022	9:31:18 PM	HOB-16	EBI	TV	OFU	8	1,122
P00856016-1	11/29/2022	9:34:19 PM	CHI-16	ECD	EF	OCO	784	125,240
P00856685-1	11/29/2022	9:34:28 PM	CHI-15	ECD	EF	SCB	1,083	243,242
P00856118-1	11/29/2022	9:37:02 PM	MIL-16	ECE	TV	OCO	33	29,858
P00856119-1	11/29/2022	9:37:05 PM	SMR-24	ECA	TV	OFU	4	3,154
P00856611-1	11/29/2022	9:42:19 PM	CHI-12	ECD	UN	OCO	294	75,480
P00857571-1	11/29/2022	9:46:25 PM	DUV-13	EBD	TV	OCO	72	82,315
P00856325-1	11/29/2022	9:46:32 PM	HWD-25	EBD	TV	OCO	9	6,037
P00856343-1	11/29/2022	9:47:26 PM	SWD-14	ECE	TV	OCO	117	80,094
P00856338-1	11/29/2022	9:47:49 PM	MIL-17	ECE	TV	OCO	9	5,774
P00856350-1	11/29/2022	9:49:40 PM	NBO-26	EBD	TV	OCO	318	224,472
P00856436-1	11/29/2022	9:51:20 PM	DUV-12	EBD	TV	OCO	1,286	1,426,578
P00856395-1	11/29/2022	9:53:23 PM	MKI-17	ECC	EF	SCB	1,987	373,590
P00856394-1	11/29/2022	9:54:30 PM	ORT-22	ECA	EF	OCO	1	535
P00856400-1	11/29/2022	9:58:00 PM	OBY-17	ECC	TV	OFU	10	6,631
P00856401-1	11/29/2022	9:58:15 PM	WAY-15	EBD	TV	OCO	69	70,411
P00856404-1	11/29/2022	9:59:08 PM	CHR-22	ECE	TV	OCO	12	16,799
P00856599-1	11/29/2022	9:59:28 PM	GRI-13	ECC	TV	OCN	5	5,335
P00856410-1	11/29/2022	10:02:06 PM	KAP-15	ECA	TV	OCO	3	3,562
P00856411-1	11/29/2022	10:02:37 PM	BLU-17	ECC	TV	OCO	6	3,075
P00856420-1	11/29/2022	10:06:41 PM	AVO-17	EBD	TV	OFU	26	2,179
P00857150-1	11/29/2022	10:11:07 PM	ING-13	EBD	TV	OCO	-	44,189
P00856437-1	11/29/2022	10:11:30 PM	CEK-14	ECE	TV	OCO	27	3,697
P00856447-1	11/29/2022	10:14:38 PM	PTR-14	EAA	EF	OTR	2	979
P00856450-1	11/29/2022	10:15:17 PM	KNM-26	EBD	TV	OCO	1	1,389
P00856469-1	11/29/2022	10:21:48 PM	KLA-17	EBD	TV	OCO	1,868	374,846
P00856475-1	11/29/2022	10:22:16 PM	UHL-25	EBD	TV	OCO	417	26,104
P00856478-1	11/29/2022	10:25:24 PM	GRI-16	ECC	TV	OCO	12	6,012
P00856619-1	11/29/2022	10:26:52 PM	CEK-14	ECE	TV	OCO	24	8,858
P00856483-1	11/29/2022	10:27:12 PM	WLK-15	ECA	TV	OCO	11	12,271
P00856484-1	11/29/2022	10:28:06 PM	PTR-14	EAA	TV	OFU	118	54,687
P00857222-1	11/29/2022	10:30:15 PM	DUV-15	EBD	EF	OCO	1,388	(1)
P00856515-1	11/29/2022	10:31:15 PM	BLU-16	ECC	TV	OFU	34	19,616
P00855246-1	11/29/2022	10:32:00 PM	WOO-26	ECA	TV	OCO	457	43,309
P00856530-1	11/29/2022	10:38:35 PM	SAH-15	EBD	TV	OCO	92	18,772
P00856532-1	11/29/2022	10:38:59 PM	KAP-15	ECA	TV	OCO	13	8,585
P00856324-1	11/29/2022	10:39:39 PM	DUV-13	EBD	TV	OCO	1,355	1,041,628
P00856540-1	11/29/2022	10:40:48 PM	ING-13	EBD	TV	OCO	7,875	2,049,827
P00857567-1	11/29/2022	10:41:05 PM	DUV-13	EBD	TV	OCO	32	37,839
P00856538-1	11/29/2022	10:41:43 PM	KNM-25	EBD	TV	OCO	69	72,643
P00856541-1	11/29/2022	10:42:51 PM	FRA-13	ECD	TV	OCO	4	2,050

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00856542-1	11/29/2022	10:43:10 PM	BTR-21	EBE	TV	OCO	42	44,510
P00856543-1	11/29/2022	10:43:27 PM	WAY-12	EBD	TV	OCO	29	9,964
P00857663-1	11/29/2022	10:44:35 PM	DUV-13	EBD	TV	OCO	35	39,026
P00857730-1	11/29/2022	10:45:00 PM	DUV-13	EBD	TV	OCO	34	30,484
P00857532-1	11/29/2022	10:45:19 PM	DUV-13	EBD	TV	OCO	20	23,591
P00857426-1	11/29/2022	10:48:20 PM	DUV-15	EBD	TV	OCO	7	15,019
P00856553-1	11/29/2022	10:49:15 PM	FAL-13	EBD	TV	OCO	11	1,327
P00858265-1	11/29/2022	10:50:42 PM	DUV-12	EBD	TV	OCO	2	4,558
P00856563-1	11/29/2022	10:54:01 PM	LLT-16	EBD	TV	OCO	458	42,899
P00855951-1	11/29/2022	10:57:05 PM	LGY-12	EAD	TV	OFU	-	574
P00856583-1	11/29/2022	11:01:43 PM	UHL-23	EBD	TV	OCO	36	2,395
P00856587-1	11/29/2022	11:06:36 PM	POU-15	ECE	TV	OCO	17	11,019
P00856589-1	11/29/2022	11:08:26 PM	HOB-17	EBI	TV	OFU	54	6,316
P00857197-1	11/29/2022	11:14:34 PM	POU-15	ECE	TV	OCO	47	33,716
P00856613-1	11/29/2022	11:24:09 PM	TOL-15	EBD	TV	OCO	591	701,740
P00856614-1	11/29/2022	11:24:18 PM	MAP-15	EBE	TV	OCO	40	12,287
P00857269-1	11/29/2022	11:24:23 PM	LMC-25	EBD	TV	OCO	42	13,410
P00858153-1	11/29/2022	11:29:07 PM	TOL-15	EBD	TV	OCO	67	97,664
P00856670-1	11/29/2022	11:34:00 PM	TOL-17	EBD	TV	OCO	109	138,648
P00856694-1	11/29/2022	11:34:31 PM	CHI-13	ECD	EF	OCO	975	146,691
P00856944-1	11/29/2022	11:35:18 PM	DUV-15	EBD	TV	OCO	958	255,866
P00856681-1	11/29/2022	11:36:36 PM	CEK-14	ECE	EF	OHR	315	69,741
P00856687-1	11/29/2022	11:37:00 PM	UHL-25	EBD	TV	OCO	3	2,802
P00856692-1	11/29/2022	11:38:19 PM	LYO-15	EBI	TV	OCO	276	43,534
P00856696-1	11/29/2022	11:42:07 PM	MWD-13	EBE	TV	OCO	6	535
P00857032-1	11/29/2022	11:51:39 PM	NHL-13	EBD	TV	OCO	13,675	2,377,718
P00856712-1	11/29/2022	11:51:39 PM	NHL-01	EBD	TV	OCO	-	546,640
P00855274-1	11/29/2022	11:53:07 PM	MIR-15	EBD	TV	OCO	185	15,373
P00856787-1	11/29/2022	11:53:22 PM	ING-17	EBD	TV	OCO	680	482,052
P00855743-1	11/29/2022	11:57:19 PM	GRI-13	ECC	TV	OCO	101	28,803
P00856820-1	11/29/2022	11:58:05 PM	TOT-26	EBD	TV	OCO	332	233,280

Terms, Codes and Definitions Used on Detail Reports

Notification (NUMBER)	A number assigned by SAP, identifying the outage record	
Date (DATE)	The date of the outage	
Time (TIME)	The time of the outage	
Circuit (CKT)	The circuit identifier for the affected circuit	
Area (MPG)	Maintenance Planner Group A code representing the energy, region and service center	
	EAA – Bellingham	EBJ – South King
	EAC – Skagit	EBL – Vashon
	EAD – Whidbey	ECA – Puyallup
	EBD – Redmond	ECC – Olympia
	EBE – Factoria	ECD – Port Orchard
	EBF – Snoqualmie	ECE – Poulsbo
	EBI – Enumclaw	
Cause (CAZ)	Cause of Outage	
	AO – Accident Other	EF – Equipment Failure
	BA – Bird or Animal	EO – Electrical Overload
	CP – Car Pole	FI – Faulty Installation
	CR – Customer Request	TF – Tree Off Right-of-Way
	DU – Dig-up Underground	TO – Tree On Right-of-Way
	TV – Trees/Vegetation	SO – Scheduled Outage
	UN – Unknown	
Equipment (EQT)	Affected by, or involved in the outage	
	OCN – Connector	OSW – Overhead Switch
	OCO – Overhead Conductor	OTF – Overhead Transformer Fuse
	OCR – Crossarm	OTR – Overhead Transformer
	OFC – Overhead Cut-out	OUP – OH to UG Primary
	OFS – Overhead Fire Signal	OUS – OH to UG Secondary Service
	OFU – Fuse Link/OH Line Fuse	SBF – High-side Bank Fuse
	OGS – Span Guy	SCB – Power Circuit Breaker
	OHR – Overhead Recloser	UOT – Underground Outdoor Term
	OIN – Insulator	UPC – Underground Primary Cable
	OJU- Jump Wire	UPT – Padmount Transformer
	OPI – Overhead Pin Insulator	USV – Underground Service
	OPO – Pole	UTC – Underground Terminal Fuse
	OSV – Overhead Service	UTR – Submersible Transformer
	ORE – Regulator	
CUST OUT (CUST.OUT)	Customer Out , The number of customers without power for any given outage record	
CUST MIN (CUST. MIN)	Customer Minutes , The total number of minutes customers were without power for any given record	

Media & Communication Coverage

Power Outages Hit Northwest as Winter Storm Moves Through

Winter storm warnings began to drop, but some areas expected several more inches of snow, travel disruptions and icy conditions.

Seattle Times

By Derrick Bryson Taylor and Remy Tumin

Nov. 30, 2022



More than 70,000 customers across Washington and Oregon were still without power on Wednesday after strong winds and a winter storm slammed parts of the Pacific Northwest, meteorologists said.

Some flights at Seattle-Tacoma International Airport were canceled early Wednesday and others were delayed, but the airport said it had removed snow from runways, taxiways and ramps and was open for business. Officials warned that roads and other travel in some areas, especially in high elevations, could be dangerous.

Nearly four million people — in central and Northern California; parts of Idaho, Montana and Oregon; and most of Washington — were under a winter storm warning as of Wednesday morning, according to the National Weather Service. But as the storm moved toward the southeast, most of the warnings dropped. Still, forecasters in Seattle warned that any rain or slush that remained would most likely freeze as temperatures dropped below freezing across the region Wednesday night.

Portions of the region were also under a high wind warning, and by late Tuesday night, the Weather Service office in Seattle had reported winds of 78 miles per hour on Crystal Mountain, a ski area southeast of Seattle, and winds of 61 m.p.h. on Smith Island, northwest of Seattle.

Meteorologists in Seattle also noted there was a sharp difference across the region, with only wet roads and no snow just a few miles south of areas with many inches of snow. Dana Felton, a senior meteorologist for the National Weather Service in Seattle, said “it was an interesting storm,” with a band about 60 miles wide that largely spared Seattle while areas just north or south of the city saw between four and five inches of snow and hazardous road conditions.

A winter weather advisory remains in effect for the Northern Cascades, which is forecast to receive 10 to 20 inches of snow through the night with wind gusts as high as 45 m.p.h.

“With this heavy, wet snow, along with the gusty winds, expect additional tree limbs and power lines to potentially be impacted with additional outages around the region,” forecasters said.

At Seattle-Tacoma International Airport, at least 26 flights were canceled by early Wednesday, with Alaska Airlines making up the bulk of the cancellations, according to the flight-tracking site FlightAware. Nearly 200 flights were canceled at that airport on Tuesday.

On the roads, the Washington State Department of Transportation warned of an “extremely challenging day,” and Washington State Police on Twitter urged residents to travel with caution, reminding them to slow down, to increase their following distance and to be patient. The Federal Emergency Management Agency office serving the region also asked residents to prepare their homes, cars and families for the winter season.