

## **2020 Qualifying Events Report**

February 23, 2020 Event

Filed on May 22, 2020



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## Event Description

### Event Date and Time

Start: 02/23/2020, 07:00

End: 02/24/2020, 14:00

### Event Type

Wind

### Service Areas Significantly Affected

King County

### Number of Customers Affected

System wide, approximately 41,117 customers were without power during the course of this event.

### Summary of System Impacts

Total Number of Outages for the Event	241
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Transmission Lines Affected	0
Impacted Substations	0

### Mobilization Summary

#### Operating Bases Placed In Emergency Status

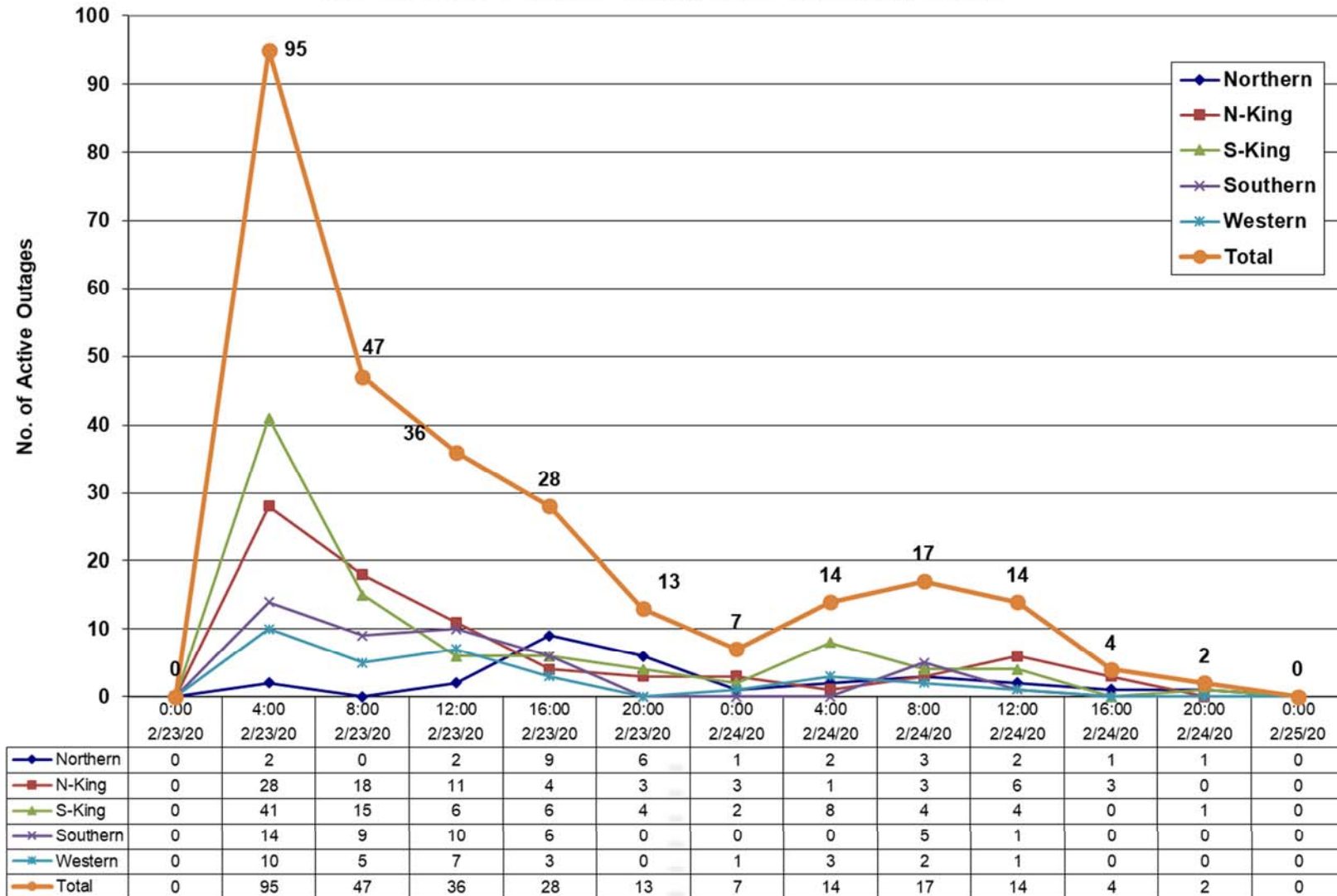
Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom/Skagit	N/A			
Island	N/A			
North King	2/23/2020	15:45	2/24/2020	00:30
South King	2/23/2020	15:45	2/24/2020	06:00
Pierce	N/A			
Thurston	N/A			
Kitsap	N/A			
Vashon Island	N/A			
Kittitas	N/A			

### Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	N/A			

Active Outage Events

No. of Active Outages during IEEE Qualifying Event



## Major Event Day – Qualification

### IEEE<sup>1</sup> 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 SAIDI<sup>2</sup> 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
- 8.

**Puget Sound Energy's IEEE Major Event Threshold ( $T_{MED}$ ) for 2020: 6.31 Minutes**

### Qualified Events - 2020 Current Event – Calculation Detail

Event Date, Time Range	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
2/23/2020, 07:00 – 2/24/2020, 14:00	8,547,628	1,177,553	7.26

<sup>1</sup> IEEE: Institute of Electrical and Electronics Engineers

<sup>2</sup> SAIDI: System Average Interruption Duration Index

**Daily SAIDI Detail YTD****First Day that Daily SAIDI Exceeded PSE's TMED of 6.31 Minutes by Qualifying Event**

<b>Date</b>	<b>Daily SAIDI (from midnight to midnight)</b>	<b>Total O&amp;M<sup>3</sup> Costs</b>
1/13/2020	10.25	\$5,484,536
1/31/2020	22.22	\$2,147,389
2/7/2020	9.82	\$1,674,294
2/23/2020	8.42	\$632,034

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<sup>3</sup> O&M: Operations and Maintenance

### 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)

#### 2020 Restoration Costs Detail by Qualifying Event

Event Date	Qualified Events Deferred Account	Capital Costs	O&M Costs Not Deferrable	O&M Costs Deferrable Accumulation	Total O&M Costs	Total Costs
1/13/2020	\$0	\$1,594,270	\$0	\$5,484,536	\$5,484,536	\$7,078,807
1/31/2020	\$0	\$610,986	\$0	\$2,147,389	\$2,147,389	\$2,758,374
2/7/2020	\$0	\$438,390	\$0	\$1,674,294	\$1,674,294	\$2,112,684
2/23/2020	\$0	\$367,074	\$0	\$632,034	\$632,034	\$999,108

#### 2020 YTD Storm Restoration Costs Detail

Qualifying Events Deferred Account	Capital Costs	O&M Costs - Not Deferrable	O&M Costs - Deferrable Accumulation	Total O&M Costs	Total Costs
\$0	\$3,409,090	\$419,115	\$9,938,254	\$10,357,369	\$13,766,459

**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						
February 23, 2020 Qualifying Storm Damage Repair Costs						
	Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
Labor						
ST	\$ -	\$ 49	\$ -	\$ 5,089	\$ 5,089	\$ 5,137
OT	\$ -	\$ 1,245	\$ -	\$ 100,668	\$ 100,668	\$ 101,913
Total Labor	\$ -	\$ 1,294	\$ -	\$ 105,757	\$ 105,757	\$ 107,051
Labor OH	\$ -	\$ 77,517	\$ -	\$ -	\$ -	\$ 77,517
Materials	\$ -	\$ 53,248	\$ -	\$ 19,463	\$ 19,463	\$ 72,711
Contractors	\$ -	\$ 232,794	\$ -	\$ 452,512	\$ 452,512	\$ 685,305
Other Direct Charges	\$ -	\$ 496	\$ -	\$ 2,203	\$ 2,203	\$ 2,699
Fleet	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Assessments	\$ -	\$ 1,726	\$ -	\$ 52,099	\$ 52,099	\$ 53,825
Deferred Expenses		\$ -	\$ -		\$ -	\$ -
	\$ -	\$ 367,074	\$ -	\$ 632,034	\$ 632,034	\$ 999,108

ST: Standard time

OT: Over time

OH: Overhead

**Detailed List of Outages – 2/23/2020, First TMED-Exceeding Day**

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00600869-1	2/23/2020	5:01:38 AM	ROC-17	ECC	EF	OTR	160	8,499
P00600872-1	2/23/2020	5:23:08 AM	CAP-13	ECC	TV	OCO	2,059	137,600
P00600874-1	2/23/2020	5:32:30 AM	RAI-12	ECC	EF	OFC	157	20,185
P00600875-1	2/23/2020	5:58:05 AM	SLA-16	EAA	TV	OCO	11	4,250
P00600996-1	2/23/2020	6:11:05 AM	PAT-17	ECC	TV	OFC	297	32,084
P00600882-1	2/23/2020	6:22:53 AM	FNW-13	ECD	TV	OCO	720	64,164
P00600887-1	2/23/2020	6:40:19 AM	HAZ-15	EBE	EF	OTF	4	282
P00600888-1	2/23/2020	6:41:08 AM	LTA-18	ECA	TV	OCO	4,037	295,713
P00600925-1	2/23/2020	6:51:12 AM	PLG-16	ECC	TV	OCO	107	25,662
P00600897-1	2/23/2020	6:51:21 AM	FNW-16	ECD	TV	OCO	5	2,260
P00601431-1	2/23/2020	6:54:15 AM	FRA-12	ECD	TV	OCO	25	7,433
P00600916-1	2/23/2020	6:54:30 AM	FRA-12	ECD	TV	OCO	1,118	144,626
P00600900-1	2/23/2020	6:54:45 AM	FRA-16	ECD	TV	OCO	20	6,333
P00600903-1	2/23/2020	6:55:12 AM	FRA-15	ECD	TV	OCO	11	2,132
P00600928-1	2/23/2020	6:55:40 AM	VAS-23	EBL	TV	OPO	2,671	303,892
P00600919-1	2/23/2020	6:56:26 AM	VAS-13	EBL	TV	OCO	14	13,981
P00600929-1	2/23/2020	6:57:29 AM	GRV-15	ECA	TV	OCR	23	22,754
P00600931-1	2/23/2020	6:57:47 AM	FRA-13	ECD	TV	OCO	11	1,746
P00600932-1	2/23/2020	6:58:04 AM	FRA-16	ECD	TV	OCO	45	18,225
P00601290-1	2/23/2020	6:59:00 AM	VAS-12	EBL	TV	OCO	828	260,942
P00601400-1	2/23/2020	6:59:15 AM	FRA-12	ECD	EF	OCO	-	22,115
P00600934-1	2/23/2020	6:59:17 AM	PAT-17	ECC	TV	OCO	144	71,753
P00600946-1	2/23/2020	7:00:56 AM	WCA-17	EBJ	TV	OCO	951	66,686
P00600945-1	2/23/2020	7:02:11 AM	LAT-13	EBJ	TV	OCO	183	111,474
P00600949-1	2/23/2020	7:03:43 AM	ZEN-25	EBJ	TV	OCO	207	153,363
P00600951-1	2/23/2020	7:03:52 AM	RDO-16	EBJ	TV	OSV	17	6,454
P00600960-1	2/23/2020	7:04:21 AM	CTR-22	EBJ	TV	OCO	1,666	141,874
P00600879-1	2/23/2020	7:05:57 AM	SOO-25	EBI	TV	OCO	46	854
P00600968-1	2/23/2020	7:07:02 AM	WAU-22	EBJ	TV	OPO	1,069	339,881
P00600962-1	2/23/2020	7:07:23 AM	MVW-13	EBJ	TV	OCO	105	46,262
P00600964-1	2/23/2020	7:07:42 AM	BEL-25	EBJ	TV	OCO	193	53,683
P00600973-1	2/23/2020	7:07:47 AM	CAM-24	EBJ	TV	OCO	1,440	304,224
P00600981-1	2/23/2020	7:08:22 AM	SWE-23	EBJ	TV	OPO	575	212,551
P00600976-1	2/23/2020	7:09:43 AM	PET-13	EAC	TV	OCO	12	896
P00600983-1	2/23/2020	7:10:43 AM	VAS-12	EBL	TV	OCO	11	7,169
P00600984-1	2/23/2020	7:10:55 AM	HIG-16	EBE	TV	OCO	70	42,435
P00600990-1	2/23/2020	7:11:57 AM	MVW-13	EBJ	TV	OCO	5	5,132
P00600999-1	2/23/2020	7:13:07 AM	GLC-14	EBJ	TV	OCO	1,187	232,474
P00600992-1	2/23/2020	7:13:21 AM	SEQ-22	EBJ	TV	OCO	202	89,005
P00600994-1	2/23/2020	7:13:28 AM	SHD-18	EBI	TV	OCO	30	34,673
P00601000-1	2/23/2020	7:14:56 AM	SOO-25	EBI	TV	OCO	102	38,069
P00601001-1	2/23/2020	7:14:58 AM	VAS-22	EBL	TV	OCO	6	2,148

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00601015-1	2/23/2020	7:15:32 AM	LWS-12	EBJ	TV	OCO	1,931	295,572
P00601006-1	2/23/2020	7:15:36 AM	SME-12	EBE	TV	OCO	4	5,140
P00601044-1	2/23/2020	7:17:32 AM	KWH-25	EBE	TV	OCO	1,628	315,251
P00601019-1	2/23/2020	7:17:46 AM	KNT-37	EBJ	TV	OCO	4	5,117
P00601020-1	2/23/2020	7:17:49 AM	PIP-23	EBI	TV	OCO	69	46,846
P00601021-1	2/23/2020	7:17:55 AM	SHA-15	ECA	TV	OCO	694	81,578
P00601022-1	2/23/2020	7:17:57 AM	LYO-15	EBJ	TV	OSV	1	902
P00601027-1	2/23/2020	7:18:27 AM	PRE-11	EBE	TV	OSV	4	2,394
P00601074-1	2/23/2020	7:18:47 AM	OVE-15	EBE	TV	OCO	450	249,985
P00601031-1	2/23/2020	7:18:51 AM	MWD-15	EBE	TV	OCO	38	33,323
P00601033-1	2/23/2020	7:19:00 AM	GRV-16	ECA	TV	OCO	2	1,559
P00601040-1	2/23/2020	7:19:18 AM	HOB-17	EBI	TV	OCO	111	67,804
P00601077-1	2/23/2020	7:19:23 AM	KLA-18	EBD	TV	OPO	19	19,652
P00601052-1	2/23/2020	7:19:53 AM	HOB-16	EBI	TV	OTR	4	2,832
P00601071-1	2/23/2020	7:20:34 AM	BDI-13	EBI	TV	OCO	357	82,514
P00601083-1	2/23/2020	7:21:56 AM	LON-25	ECC	TV	OCO	22	9,324
P00601983-1	2/23/2020	7:22:07 AM	FCR-12	EBI	TV	OCO	71	36,496
P00601092-1	2/23/2020	7:22:23 AM	LYO-15	EBJ	TV	OCO	43	22,532
P00601108-1	2/23/2020	7:22:23 AM	HOB-15	EBI	TV	OCO	1,380	199,555
P00602279-1	2/23/2020	7:22:24 AM	FCR-12	EBI	TV	OCO	-	11,724
P00601094-1	2/23/2020	7:22:36 AM	MIR-17	EBF	TV	OCO	103	65,860
P00601095-1	2/23/2020	7:22:47 AM	LWS-16	EBJ	TV	OFU	8	9,542
P00601097-1	2/23/2020	7:23:00 AM	PIP-23	EBI	TV	OCO	6	7,021
P00601098-1	2/23/2020	7:23:09 AM	FCR-14	EBI	TV	OCO	62	6,030
P00601099-1	2/23/2020	7:23:12 AM	ROC-17	ECC	TV	OCO	14	8,351
P00601572-1	2/23/2020	7:23:16 AM	OVE-15	EBE	TV	OCO	114	62,315
P00601100-1	2/23/2020	7:23:17 AM	PHA-13	EBE	TV	OCO	44	44,846
P00601101-1	2/23/2020	7:23:23 AM	WIS-12	EBF	TV	OCO	15	22,309
P00601110-1	2/23/2020	7:24:54 AM	FRG-25	ECC	TV	OTF	1	185
P00601111-1	2/23/2020	7:24:54 AM	HOB-16	EBI	TV	OFU	12	10,582
P00601114-1	2/23/2020	7:25:39 AM	MIR-16	EBF	TV	OCO	207	79,488
P00601826-1	2/23/2020	7:26:02 AM	HOB-15	EBI	TV	OCO	34	32,021
P00601117-1	2/23/2020	7:26:10 AM	PIN-01	EBD	TV	OCO	7,922	1,723,368
P00601122-1	2/23/2020	7:26:28 AM	OSC-23	EBI	TV	OFU	8	6,355
P00602018-1	2/23/2020	7:27:33 AM	PLA-23	EBD	TV	OCO	1,082	670,281
P00601151-1	2/23/2020	7:27:34 AM	SBE-26	EBE	TV	OCO	26	9,181
P00601192-1	2/23/2020	7:29:03 AM	GRV-12	ECA	TV	OSV	6	4,300
P00601259-1	2/23/2020	7:29:33 AM	SOO-25	EBI	TV	OCO	641	174,203
P00601240-1	2/23/2020	7:30:15 AM	PLA-23	EBD	TV	OCO	6	5,838
P00601268-1	2/23/2020	7:32:08 AM	NNO-13	EBJ	TV	OCO	23	13,398
P00601274-1	2/23/2020	7:32:38 AM	HOB-16	EBI	TV	OCO	1	1,584
P00601275-1	2/23/2020	7:32:50 AM	LMC-23	EBE	TV	OCO	252	65,283

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00601277-1	2/23/2020	7:33:13 AM	TOL-17	EBD	TV	OCO	47	28,654
P00601284-1	2/23/2020	7:34:35 AM	HOB-16	EBI	TV	OPO	2	2,586
P00601299-1	2/23/2020	7:39:13 AM	COT-13	EBD	TV	OCO	1	526
P00601301-1	2/23/2020	7:39:47 AM	TOL-15	EBD	TV	OCO	11	11,978
P00601305-1	2/23/2020	7:41:06 AM	DUV-12	EBD	TV	OCO	27	26,610
P00601316-1	2/23/2020	7:47:10 AM	MVW-17	EBJ	EF	OTR	3	2,274
P00601318-1	2/23/2020	7:47:40 AM	SHD-18	EBI	TV	OFU	12	6,886
P00601949-1	2/23/2020	7:49:10 AM	OSC-22	EBI	TV	OCO	85	7,481
P00601328-1	2/23/2020	7:53:09 AM	EPO-16	ECD	TV	OCO	5	1,864
P00601331-1	2/23/2020	7:55:45 AM	NBE-12	EBF	TV	UOT	10	3,928
P00601334-1	2/23/2020	7:57:39 AM	HOB-17	EBI	TV	OSV	2	1,505
P00601339-1	2/23/2020	8:02:02 AM	LAT-14	EBJ	TV	OSV	3	2,383
P00601378-1	2/23/2020	8:04:35 AM	SOO-25	EBI	TV	OCO	11	11,493
P00601401-1	2/23/2020	8:09:07 AM	EGT-27	EBE	TV	OSV	1	471
P00601406-1	2/23/2020	8:10:58 AM	LAC-13	ECC	EF	OCN	4	2,760
P00601665-1	2/23/2020	8:14:15 AM	HOB-16	EBI	TV	OCO	3	2,793
P00601412-1	2/23/2020	8:14:58 AM	STA-16	EBJ	TV	OCO	3	2,454
P00602215-1	2/23/2020	8:28:12 AM	CUM-13	EBI	TV	OCO	15	14,969
P00601430-1	2/23/2020	8:28:23 AM	PIP-22	EBI	TV	OSV	1	603
P00601433-1	2/23/2020	8:30:02 AM	NBE-13	EBF	TV	OCO	143	59,655
P00601436-1	2/23/2020	8:31:02 AM	MWD-13	EBE	TV	OCO	7	1,034
P00601441-1	2/23/2020	8:34:39 AM	LMC-25	EBE	TV	OSV	1	1,176
P00601443-1	2/23/2020	8:36:06 AM	PLG-13	ECC	TV	OCO	14	7,108
P00601452-1	2/23/2020	8:46:23 AM	UHL-25	EBD	TV	OCO	3	1,719
P00601454-1	2/23/2020	8:47:34 AM	UHL-23	EBD	EF	USV	1	466
P00601473-1	2/23/2020	8:51:49 AM	EDG-15	ECA	TV	OSV	3	715
P00601504-1	2/23/2020	8:57:51 AM	EDG-12	ECA	TV	OSV	5	1,363
P00601505-1	2/23/2020	8:58:19 AM	FRA-16	ECD	LI	OTR	3	1,651
P00601509-1	2/23/2020	9:02:57 AM	PIP-23	EBI	TV	OFU	16	13,622
P00601516-1	2/23/2020	9:10:30 AM	FRA-12	ECD	TV	OCO	-	893
P00601518-1	2/23/2020	9:11:20 AM	VAS-23	EBL	TV	OCO	9	4,046
P00601531-1	2/23/2020	9:14:19 AM	HOB-15	EBI	TV	OCO	287	7,936
P00601527-1	2/23/2020	9:15:02 AM	SNQ-16	EBF	TV	OCO	636	127,744
P00601524-1	2/23/2020	9:15:41 AM	FCR-11	EBI	TV	OFU	5	3,784
P00601555-1	2/23/2020	9:25:11 AM	MIR-17	EBF	TV	OSV	1	346
P00601559-1	2/23/2020	9:26:47 AM	FRA-12	ECD	TV	OCO	-	12,445
P00601563-1	2/23/2020	9:27:57 AM	KWH-25	EBE	EF	UTR	214	23,209
P00601515-1	2/23/2020	9:43:05 AM	HOB-15	EBI	TV	OSV	2	1,070
P00601592-1	2/23/2020	9:48:24 AM	BRE-14	ECD	EF	OSV	3	399
P00601595-1	2/23/2020	9:53:09 AM	MST-26	EBJ	SO	OCO	1	141
P00601609-1	2/23/2020	9:55:08 AM	UHL-25	EBD	TV	OFU	5	2,147
P00601642-1	2/23/2020	10:12:48 AM	WIN-13	ECE	TV	OCO	191	17,005

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00601576-1	2/23/2020	10:21:33 AM	VAS-12	EBL	TV	OCO	13	19,087
P00601668-1	2/23/2020	10:32:25 AM	TOL-17	EBD	TV	OSV	1	211
P00600973-1	2/23/2020	10:40:49 AM	CAM-24	EBJ	TV	OCO	1,167	38,141
P00601680-1	2/23/2020	10:43:03 AM	SPA-16	ECA	TV	OCR	24	3,870
P00601685-1	2/23/2020	10:48:10 AM	ORT-26	ECA	TV	OCO	7	3,010
P00601695-1	2/23/2020	10:52:23 AM	MIR-17	EBF	TV	OCO	5	3,868
P00601700-1	2/23/2020	10:55:37 AM	KAP-15	ECA	TV	OFU	12	1,883
P00601512-1	2/23/2020	10:57:14 AM	EDG-13	ECA	TV	OPO	22	15,194
P00601706-1	2/23/2020	10:59:51 AM	VAS-22	EBL	TV	OSV	1	752
P00601713-1	2/23/2020	11:08:57 AM	MVW-13	EBJ	TV	OFU	2	1,489
P00601714-1	2/23/2020	11:09:13 AM	LMC-25	EBE	TV	OTF	2	893
P00601723-1	2/23/2020	11:21:04 AM	ING-15	EBD	TV	OTR	1	786
P00601742-1	2/23/2020	11:44:26 AM	RHO-15	ECA	TV	OFU	1	295
P00601747-1	2/23/2020	11:51:09 AM	WCA-17	EBJ	TV	OCO	1	497
P00601748-1	2/23/2020	11:51:25 AM	LAT-16	EBJ	EF	OFC	8	7,926
P00600953-1	2/23/2020	11:59:28 AM	VAS-12	EBL	TV	OCO	34	10,418
P00601768-1	2/23/2020	12:05:52 PM	LYN-24	EAA	UN	OCO	4	266
P00601774-1	2/23/2020	12:13:26 PM	HEM-13	ECA	TV	OSV	4	1,419
P00601781-1	2/23/2020	12:20:50 PM	VAS-12	EBL	TV	OCO	28	2,609
P00601793-1	2/23/2020	12:34:03 PM	PIK-21	EBF	EF	OSW	1,280	137,943
P00601801-1	2/23/2020	12:46:27 PM	LTA-18	ECA	TV	OTF	3	635
P00601805-1	2/23/2020	12:58:26 PM	BON-15	ECA	TV	OSV	3	481
P00601808-1	2/23/2020	1:03:19 PM	EDG-16	ECA	TV	OCO	1	788
P00601811-1	2/23/2020	1:05:14 PM	GRI-16	ECC	TV	OGD	122	20,020
P00601820-1	2/23/2020	1:09:46 PM	PLA-21	EBD	TV	OCO	971	72,599
P00601821-1	2/23/2020	1:12:09 PM	NNO-12	EBJ	TV	OSV	3	1,615
P00601855-1	2/23/2020	1:45:59 PM	PRI-23	ECC	TV	OCO	1,053	139,667
P00601866-1	2/23/2020	1:54:36 PM	VAS-12	EBL	TV	OCO	20	8,698
P00601993-1	2/23/2020	1:56:59 PM	LWS-15	EBJ	TV	OCO	3	2,077
P00601872-1	2/23/2020	2:02:57 PM	FRA-15	ECD	TV	OCO	344	11,478
P00601314-1	2/23/2020	2:12:26 PM	SPA-16	ECA	TV	OCO	2	950
P00601906-1	2/23/2020	2:39:54 PM	HWD-25	EBD	TV	OFU	6	770
P00601839-1	2/23/2020	2:46:36 PM	FNW-15	ECD	TV	OCO	7	1,708
P00601913-1	2/23/2020	2:48:54 PM	LAT-14	EBJ	TV	OSV	1	462
P00601914-1	2/23/2020	2:49:52 PM	MAP-15	EBE	TV	OCO	40	3,771
P00601611-1	2/23/2020	2:49:57 PM	LWS-12	EBJ	TV	OCO	74	1,808
P00601915-1	2/23/2020	2:50:37 PM	PHA-15	EBE	TV	OSV	1	210
P00601920-1	2/23/2020	2:56:31 PM	FRG-22	ECC	TV	OSV	1	107
P00601856-1	2/23/2020	2:56:36 PM	ELD-23	ECC	TV	OCO	83	3,855
P00601011-1	2/23/2020	3:00:00 PM	LYO-15	EBJ	EF	OCO	51	9,948
P00601927-1	2/23/2020	3:01:38 PM	NNO-12	EBJ	TV	OCN	30	10,990
P00601934-1	2/23/2020	3:21:18 PM	VAS-13	EBL	TV	OCO	6	3,499

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00601938-1	2/23/2020	3:27:47 PM	FNW-16	ECD	TV	OCO	7	2,952
P00601944-1	2/23/2020	3:30:07 PM	LOL-25	ECD	TV	OCO	2,262	141,375
P00601946-1	2/23/2020	3:30:47 PM	FRA-12	ECD	TV	OCO	1,185	215,649
P00601954-1	2/23/2020	3:39:19 PM	GOO-21	EBE	TV	OCO	8	5,706
P00601956-1	2/23/2020	3:42:01 PM	PIK-21	EBF	TV	OCO	29	7,297
P00601963-1	2/23/2020	3:45:41 PM	FNW-17	ECD	TV	OCO	12	4,458
P00601960-1	2/23/2020	3:46:37 PM	LUH-14	ECC	TV	OCO	1	433
P00601961-1	2/23/2020	3:47:17 PM	MAX-13	EAD	EF	UPC	9	3,826
P00601967-1	2/23/2020	3:51:59 PM	FNW-17	ECD	TV	OCO	1,723	41,100
P00601969-1	2/23/2020	3:54:33 PM	MER-13	EBE	TV	OTF	5	1,353
P00602001-1	2/23/2020	4:19:31 PM	LTA-18	ECA	EF	OFC	1	94
P00601603-1	2/23/2020	4:20:06 PM	HOB-15	EBI	TV	OCO	1	18
P00602007-1	2/23/2020	4:22:07 PM	FNW-13	ECD	TV	OCO	1	340
P00602028-1	2/23/2020	4:32:52 PM	STW-13	ECA	TV	OFU	164	5,901
P00602094-1	2/23/2020	4:33:50 PM	GRV-15	ECA	TV	OCO	10	1,583
P00602055-1	2/23/2020	4:35:15 PM	BDI-13	EBI	TV	OCO	357	36,884
P00602060-1	2/23/2020	4:43:05 PM	PRI-13	ECC	EF	OCO	3	108
P00602102-1	2/23/2020	5:17:27 PM	COT-13	EBD	TV	OCO	26	3,781
P00602092-1	2/23/2020	5:22:19 PM	WLS-16	EAC	TV	OCO	90	20,841
P00601871-1	2/23/2020	5:23:42 PM	PRI-13	ECC	TV	OCO	4	1,496
P00602103-1	2/23/2020	5:42:15 PM	BCH-16	EAA	EF	UOT	5	1,346
P00602104-1	2/23/2020	5:42:54 PM	SUM-22	EAC	TV	OCO	16	4,731
P00601575-1	2/23/2020	6:20:32 PM	VAS-12	EBL	TV	OCO	226	2,791
P00602140-1	2/23/2020	6:20:36 PM	CLV-16	EAD	EF	OCO	5	2,794
P00602142-1	2/23/2020	6:22:30 PM	ALG-15	EAA	EF	OFC	3	337
P00602156-1	2/23/2020	6:23:41 PM	BTN-36	EAC	TV	OCO	252	64,335
P00602152-1	2/23/2020	6:27:27 PM	AVO-13	EBD	EF	OFC	12	1,225
P00602157-1	2/23/2020	6:30:49 PM	VAS-12	EBL	TV	OCO	29	4,909
P00602159-1	2/23/2020	6:31:28 PM	BRW-13	EAC	TV	OCO	3	419
P00602068-1	2/23/2020	6:34:16 PM	BRW-15	EAC	EF	OCO	243	315,618
P00602166-1	2/23/2020	6:37:57 PM	FNW-13	ECD	TV	OCO	75	4,952
P00602184-1	2/23/2020	7:17:51 PM	HOB-16	EBI	TV	OSV	1	342
P00602188-1	2/23/2020	7:28:14 PM	BHL-12	ECE	TV	OCO	15	6,105
P00602200-1	2/23/2020	7:45:54 PM	LAT-17	EBJ	TV	OCO	121	30,942
P00602204-1	2/23/2020	7:49:23 PM	LAT-17	EBJ	FI	OCO	12	3,050
P00602206-1	2/23/2020	7:51:20 PM	ANA-13	EAC	EF	OJU	1	95
P00602209-1	2/23/2020	7:53:20 PM	HOB-15	EBI	TV	OCO	3	2,256
P00602081-1	2/23/2020	7:54:12 PM	44182	ECC	TV	OSV	7	797
P00602216-1	2/23/2020	8:04:12 PM	LAT-17	EBJ	FI	OCO	1	238
P00602222-1	2/23/2020	8:18:05 PM	LLT-17	EBD	EF	UPC	101	19,636
P00602223-1	2/23/2020	8:22:13 PM	HKX-13	EAC	TV	OCO	44	17,726
P00602225-1	2/23/2020	8:28:35 PM	PLA-23	EBD	EF	OCN	1	402

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NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00602233-1	2/23/2020	9:10:17 PM	CPV-15	EAD	TV	OCO	14	847
P00602261-1	2/23/2020	9:46:57 PM	VAS-23	EBL	TV	OCO	36	5,284
P00602246-1	2/23/2020	9:49:22 PM	CPV-15	EAD	TV	OFC	7	142
P00602247-1	2/23/2020	9:49:32 PM	MVW-13	EBJ	EF	OTR	3	1,035
P00602262-1	2/23/2020	10:08:23 PM	WLS-16	EAC	TV	OCO	11	5,832
P00602264-1	2/23/2020	10:28:52 PM	SHD-16	EBI	TV	OCO	252	41,020
P00602270-1	2/23/2020	10:35:29 PM	CRE-15	EAD	TV	OCO	19	9,198
P00602276-1	2/23/2020	10:47:20 PM	CAS-16	EBH	EF	OFU	141	34,012
P00602278-1	2/23/2020	11:18:21 PM	SUM-22	EAC	TV	OCO	16	6,043



### Terms, Codes and Definitions Used on Detail Reports

<b>Notification (NUMBER)</b>	A number assigned by SAP, identifying the outage record	
<b>Date (DATE)</b>	The date of the outage	
<b>Time (TIME)</b>	The time of the outage	
<b>Circuit (CKT)</b>	The circuit identifier for the affected circuit	
<b>Area (MPG)</b>	<b>Maintenance Planner Group</b> 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	
<b>Cause (CAZ)</b>	<b>Cause of Outage</b>	
	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	
<b>Equipment (EQT)</b>	<b>Affected by, or involved in the outage</b>	
	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	
<b>CUST OUT (CUST.OUT)</b>	<b>Customer Out</b> , The number of customers without power for any given outage record	
<b>CUST MIN (CUST. MIN)</b>	<b>Customer Minutes</b> , The total number of minutes customers were without power for any given record	

## Media & Communication Coverage



### Strong winds bring down trees, power lines across Western Washington

By: KIRO 7 News Staff

Updated: February 23, 2020 - 9:06 PM

**A strong and wet system brought down trees and power lines across western Washington on Sunday morning.**

#### King County:

In North Seattle and Shoreline, the strong winds led to a power outage that affected more than 4,800 customers early Sunday. Officials with Seattle City Light said a tree branch fell onto power lines causing the outage around 8 a.m. Just before 9 a.m., power was restored to the area.

In Renton, paramedics and firefighters helped remove a man who was trapped after a tree fell onto an apartment complex. The tree fell around 8 a.m. near Shadow Lake. The man was freed around 9 a.m. and was taken to Harborview Medical Center where he remains in satisfactory condition.

On Mercer Island, power lines went down in the 4500 block of West Mercer Way around 8 a.m. Police closed the road to traffic and contacted Puget Sound Energy.

In Bellevue, officials restricted traffic in the 9500 block of Lake Washington Boulevard after a tree fell on power lines around 9:30 a.m. Crews with Puget Sound Energy came to help make repairs and drivers were advised to avoid the area.

Lake Washington Blvd. NE is restricted for through traffic in 9500/9600 block due a tree down falling on power lines. A few homes are without power. PSE crews are at site to make repairs. Pls avoid the area if possible & stay away from downed power lines.

In Issaquah, downed trees and power lines blocked Mountain Park Boulevard Southwest at Mt Fury Circle Southwest and Mt. Defiance Circle Southwest at Mountain Park Boulevard Southwest.

#### South Sound:

In Tacoma, a light pole went down on I-5 northbound near Port of Tacoma Road around 7 a.m. The debris was cleared around 10 a.m.

In Lakewood, trees and power lines went down around 8 a.m. at Gravelly Lake Drive and Nyanza Road. "We advise to stay away from the area until it's cleaned up," Lakewood police said in a tweet.

Just found out the roadway is partially open at Gravelly and Nyanza while they finish the repairs to the power pole.

Power lines also went down around 8 a.m. in the 5100 block of North Pearl Street in Ruston. Officers with the Tacoma Police Department and the Ruston Police Department responded and blocked the section of the street. The street reopened around 3:15 p.m.

Standing water on the roads led to a crash around 9 a.m. at the intersection of Canyon Road East and 176th Street in Frederickson. "Please give yourself extra time this morning," fire officials said.

There is a lot of standing water on the roads. Please give yourself extra time this morning.

Puyallup police closed Wildwood Park in Puyallup around 9:45 a.m. due to downed trees and power lines. Officials did not provide an ETA for when it would reopen.