



# 2012 Qualifying Events Report

November 19, 2012 Event

Filed on February 12, 2013

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## Event Description

### Date of event

November 19, 2012

### Event Type

Wind storm.

### Service Areas Affected

Thurston County

### Number of Customers Affected

Approximately 43,450 customers were without power over the course of this event.

### Summary of System Impacts

|                                     |            |
|-------------------------------------|------------|
| <b>Total Number of Outages</b>      | <b>169</b> |
| Distribution Circuits Totally Out   | 10         |
| Distribution Circuits Partially Out | 159        |

|                                |   |
|--------------------------------|---|
| Transmission Circuits Affected | 3 |
| Substations Totally Off-line   | 3 |

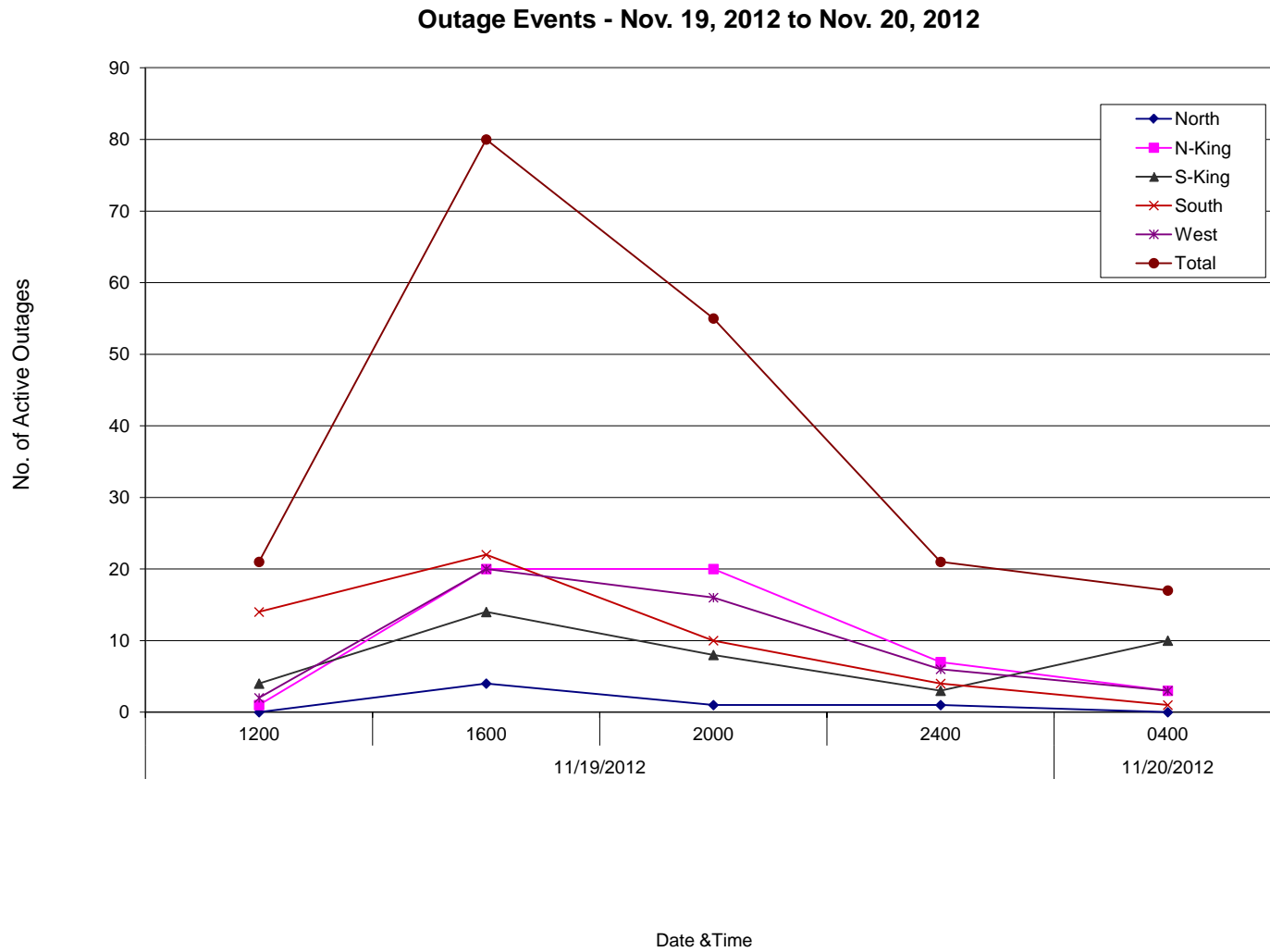
### Mobilization Summary

#### Operating Bases

| Base     | Date Opened | Time Opened | Date Closed | Time Closed |
|----------|-------------|-------------|-------------|-------------|
| Thurston | 11/19/2012  | 11:00       | 11/19/2012  | 21:30       |

#### Emergency Coordination Center

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



## Major Event Day – Qualification

### IEEE 1366 Method

IEEE 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of distribution 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 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 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 3.
6. Compute the threshold Tmed where  $Tmed = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > Tmed is a major event day.

**Puget Sound Energy's Major Event Threshold for 2012: 5.38 Minutes**

### Qualified Events - 2012

#### Current Event – Calculation Detail

| Event Date | Total Customer Minutes | Average Customer Count | Daily SAIDI – Customer Minutes /Customer Count |
|------------|------------------------|------------------------|--|
| 01/18/2012 | 1,374,545,559          | 1,091,788              | 1,258.99                                       |
| 03/12/2012 | 11,004,046             | 1,092,611              | 10.07  |
| 11/19/2012 | 6,911,043              | 1,095,656              | 6.31   |

#### Cumulative list of events that have qualified

| Date(s)    | T-med Score | O&M – Deferrable Accumulation |
|------------|-------------|-------------------------------|
| 01/18/2012 | 1,258.99    | \$8,000,000                   |
| 03/12/2012 | 10.07       | \$0                           |
| 11/19/2012 | 6.31        | \$0                           |

### Event Restoration – Cost Summary

#### Restoration Cost Detail by Qualifying Event

| Date       | Qualified Events Deferred Account | Capital        | C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed) | O&M – Not Deferrable | O&M – Deferrable Accumulation | Total O&M       | Total           |
|------------|-----------------------------------|----------------|---|----------------------|-------------------------------|-----------------|-----------------|
| 01/18/2012 | \$58,370,860(r)                   | \$5,893,856(r) | \$0   | \$1,610,921(r)       | \$8,000,000                   | \$67,981,780(r) | \$73,875,636(r) |
| 03/12/2012 | \$420,528(r)                      | \$132,916(r)   | \$0   | \$42,432(r)          | \$0                           | \$462,959(r)    | \$595,876(r)    |
| 11/19/2012 | \$170,985                         | \$2,742        | \$0   | \$13,185             | \$0                           | \$184,170       | \$186,912       |

(r) Reflects updated repair costs through 11/19/12

#### YTD Storm Restoration Cost Detail – Through November 19, 2012

| Qualified Events Deferred Account | Capital        | C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed) | O&M – Not Deferrable | O&M Deferrable Accumulation | Total O&M       | Total           |
|-----------------------------------|----------------|---|----------------------|-----------------------------|-----------------|-----------------|
| \$58,962,373(r)                   | \$6,029,514(r) | \$0   | \$1,666,537(r)       | \$8,000,000                 | \$68,628,910(r) | \$74,658,424(r) |

(r) Reflects updated repair costs through 11/19/12

Qualifying Storm Event  
November 19, 2012

## **Detail Documents**

**Restoration Cost Detail – Current Event**

**Detailed List of Distribution Circuits with Outages**

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

**Newsprint Media Coverage**

### Restoration Cost Detail – Current Event

| <b>Puget Sound Energy</b>                            |                                       |                 |   |                         |                                     |                   |                  |
|--|---------------------------------------|-----------------|---|-------------------------|-------------------------------------|-------------------|------------------|
| <b>November 19, 2012 - Storm Damage Repair Costs</b> |                                       |                 |   |                         |                                     |                   |                  |
|  | Qualifying Events<br>Deferred Account | Capital         | C&D Recoverable from<br>Direct Billings (Costs Not<br>Yet Billed) | O&M - Not<br>Deferrable | O&M -<br>Deferrable<br>Accumulation | Total O&M         | Total            |
| Labor  |                                       |                 |   |                         |                                     |                   |                  |
| ST   |                                       | \$ 46           |   | \$ -                    | \$ 4,928                            | \$ 4,928          | \$ 4,974         |
| OT   |                                       | \$ 128          |   | \$ -                    | \$ 11,648                           | \$ 11,648         | \$ 11,776        |
| <b>Total Labor</b>                                   | <b>\$ -</b>                           | <b>\$ 174</b>   | <b>\$ -</b>   | <b>\$ -</b>             | <b>\$ 16,576</b>                    | <b>\$ 16,576</b>  | <b>\$ 16,750</b> |
| Labor OH   |                                       | \$ 99           |   | \$ (6,063)              | \$ 15,316                           | \$ 9,253          | \$ 9,353         |
| Materials  |                                       | \$ 434          |   | \$ -                    | \$ 6,467                            | \$ 6,467          | \$ 6,901         |
| Contractors  |                                       | \$ 1,591        |   | \$ -                    | \$ 144,268                          | \$ 144,268        | \$ 145,859       |
| Other Direct Charges                                 |                                       | \$ -            |   | \$ -                    | \$ 2,454                            | \$ 2,454          | \$ 2,454         |
| Fleet  |                                       | \$ 25           |   | \$ -                    | \$ 1,862                            | \$ 1,862          | \$ 1,886         |
| Other Assessments                                    |                                       | \$ 420          |   | \$ 19,247               | \$ (15,958)                         | \$ 3,289          | \$ 3,709         |
| Deferred Expenses                                    | \$ 170,985                            |                 |   |                         | \$ (170,985)                        | \$ (170,985)      | \$ 0             |
|  | <b>\$ 170,985</b>                     | <b>\$ 2,742</b> | <b>\$ -</b>   | <b>\$ 13,185</b>        | <b>\$ 170,985</b>                   | <b>\$ 184,170</b> | <b>\$ 15,927</b> |



### IEEE-1366 - Detailed List of Distribution Circuits with Outages

| NUMBER     | DATE       | TIME        | CKT      | MPG | CAZ | EQT | CUST.OUT | CUST. MIN |
|------------|------------|-------------|----------|-----|-----|-----|----------|-----------|
| 11058036   | 11/19/2012 | 12:22:00 AM | OBY-17   | ECC | EF  | OFC | 1        | 232       |
| E093072433 | 11/19/2012 | 2:56:10 AM  | MVW-17   | EBJ | TV  | OFU | 50       | 3,376     |
| E063894294 | 11/19/2012 | 3:16:02 AM  | WLK-13   | ECA | TV  | OCO | 21       | 8,903     |
| E951813095 | 11/19/2012 | 3:17:32 AM  | SNQ-15   | EBF | TV  | OCO | 6        | 1,035     |
| E303371784 | 11/19/2012 | 3:23:47 AM  | RAI-13   | ECC | TV  | OCO | 14       | 1,704     |
| E280002711 | 11/19/2012 | 3:46:21 AM  | VAS-13   | EBL | EF  | OCO | 3        | 328       |
| E595689373 | 11/19/2012 | 3:59:13 AM  | FRA-12   | ECD | TV  | OCO | 14       | 3,587     |
| E673390069 | 11/19/2012 | 4:00:54 AM  | LON-22   | ECC | TV  | OTR | 7        | 1,968     |
| E733810060 | 11/19/2012 | 4:56:57 AM  | PMA-16   | ECE | EF  | OCO | 19       | 2,907     |
| E918804057 | 11/19/2012 | 5:10:43 AM  | PMA-15   | ECE | EF  | OCO | 7        | 3,047     |
| E185620092 | 11/19/2012 | 5:21:15 AM  | EAR-17   | EBJ | TV  | OPO | 7        | 3,617     |
| E194414553 | 11/19/2012 | 6:00:38 AM  | SIN-23   | ECD | TV  | OCO | 14       | 2,945     |
| E593894116 | 11/19/2012 | 7:12:44 AM  | SWD-12   | ECE | EF  | OTF | 1        | 82        |
| E459523426 | 11/19/2012 | 7:25:14 AM  | EGT-16   | EBE | TV  | OTF | 5        | 494       |
| E616377340 | 11/19/2012 | 7:48:21 AM  | AVO-15   | EBD | EF  | OJU | 30       | 4,310     |
| E365889149 | 11/19/2012 | 8:09:45 AM  | SHD-17   | EBI | TV  | OTF | 2        | 233       |
| E364094636 | 11/19/2012 | 8:15:00 AM  | YEL-27   | ECC | TV  | OCO | 8        | 1,194     |
| E020131881 | 11/19/2012 | 8:48:19 AM  | CHA-12   | ECC | EF  | OTF | 2        | 63        |
| 11059732   | 11/19/2012 | 8:52:34 AM  | RAI-12   | ECC | TV  | OCO | 181      | 71,935    |
| E700873988 | 11/19/2012 | 9:14:00 AM  | PLY-16   | EAA | SO  | UPT | 2        | 330       |
| E659212844 | 11/19/2012 | 9:20:38 AM  | ORT-22   | ECA | TV  | OSV | 1        | 131       |
| E848191355 | 11/19/2012 | 9:30:00 AM  | BTR-25   | EBE | SO  | UJU | 25       | 1,500     |
| E936907258 | 11/19/2012 | 9:39:10 AM  | TAN-13   | ECC | TV  | OFU | 21       | 1,005     |
| E422640035 | 11/19/2012 | 9:59:14 AM  | FRG-22   | ECC | TV  | OCO | 2        | 502       |
| E282786987 | 11/19/2012 | 10:00:00 AM | VIS-22   | EAA | SO  | OPO | 4        | 1,028     |
| E679064920 | 11/19/2012 | 10:08:33 AM | ROC-26   | ECC | TV  | OFU | 100      | 4,945     |
| E665479929 | 11/19/2012 | 10:10:00 AM | GRA-25   | EBJ | EF  | OCO | 1        | 31        |
| E741326234 | 11/19/2012 | 10:15:00 AM | LUH-14   | ECC | TV  | OTH | 3,573    | 930,171   |
| E076940735 | 11/19/2012 | 10:18:53 AM | HKX-16   | EAC | TV  | OPO | 218      | 156,331   |
| E655368731 | 11/19/2012 | 10:20:08 AM | SWA-15   | EAD | EF  | OCN | 1        | 74        |
| E699276514 | 11/19/2012 | 10:24:40 AM | KLA-17   | EBF | TO  | OCO | 1,164    | 63,244    |
| E745857792 | 11/19/2012 | 10:25:58 AM | LON-23   | ECC | TV  | OTH | 909      | 149,106   |
| E483838734 | 11/19/2012 | 10:27:27 AM | TLN-0154 | ECC | TV  | OCO | 4,294    | 122,594   |
| E305110753 | 11/19/2012 | 10:30:00 AM | RAI-13   | ECC | TV  | OCO | 1,801    | 179,750   |
| E788160299 | 11/19/2012 | 10:36:20 AM | PAT-17   | ECC | TV  | OCO | 270      | 99,810    |
| E019914591 | 11/19/2012 | 10:40:00 AM | RAI-12   | ECC | TV  | OCO | 727      | 251,494   |
| E532292655 | 11/19/2012 | 10:57:00 AM | PMA-12   | ECE | TV  | OIN | 2        | 688       |
| E659019047 | 11/19/2012 | 11:05:09 AM | LMD-16   | EBJ | TV  | OFU | 8        | 903       |
| E541190608 | 11/19/2012 | 11:06:51 AM | LON-17   | ECC | TV  | OCO | 75       | 45,611    |
| E744635689 | 11/19/2012 | 11:07:03 AM | HOB-15   | EBI | TV  | OCO | 22       | 5,545     |
| E052772573 | 11/19/2012 | 11:11:20 AM | BLU-16   | ECC | TV  | OCO | 755      | 181,703   |
| E137249406 | 11/19/2012 | 11:15:32 AM | YEL-23   | ECC | EF  | OTF | 1        | 82        |
| E094321719 | 11/19/2012 | 11:20:59 AM | ROC-26   | ECC | EF  | OJU | 20       | 5,100     |
| E133547304 | 11/19/2012 | 11:29:57 AM | SHD-18   | EBI | TV  | OHS | 207      | 13,465    |
| E099344370 | 11/19/2012 | 11:34:42 AM | GAR-13   | ECA | TV  | OCO | 15       | 3,536     |

Qualifying Storm Event  
November 19, 2012

| NUMBER     | DATE       | TIME        | CKT      | MPG | CAZ | EQT | CUST.OUT | CUST. MIN |
|------------|------------|-------------|----------|-----|-----|-----|----------|-----------|
| E079596313 | 11/19/2012 | 11:35:21 AM | RAI-14   | ECC | TV  | OCO | 6        | 3,898     |
| E852965157 | 11/19/2012 | 11:40:31 AM | OSC-23   | EBI | TV  | OCO | 6        | 1,863     |
| E656030195 | 11/19/2012 | 11:46:23 AM | HOL-12   | ECA | TV  | OCO | 1,229    | 112,597   |
| E656664420 | 11/19/2012 | 11:48:12 AM | WIS-16   | EBF | TF  | OCO | 791      | 41,765    |
| E716660762 | 11/19/2012 | 11:48:47 AM | BLU-13   | ECC | TV  | OCO | 27       | 12,588    |
| E752582434 | 11/19/2012 | 11:50:30 AM | GOO-13   | EBE | TV  | OCO | 3,584    | 8,960     |
| E148948491 | 11/19/2012 | 12:02:00 PM | LON-25   | ECC | TV  | OTH | 1,276    | 135,248   |
| E060568900 | 11/19/2012 | 12:06:32 PM | AIR-26   | ECC | TV  | OCO | 25       | 8,737     |
| E198573761 | 11/19/2012 | 12:11:30 PM | PRI-13   | ECC | TV  | OCO | 15       | 3,668     |
| E687986253 | 11/19/2012 | 12:29:52 PM | RHO-15   | ECA | TV  | OCO | 1,921    | 167,383   |
| E303421380 | 11/19/2012 | 12:35:22 PM | GRV-12   | ECA | PO  | OSV | 1        | 121       |
| E245355553 | 11/19/2012 | 12:56:36 PM | WIS-12   | EBF | TV  | OCO | 5        | 432       |
| E739248306 | 11/19/2012 | 1:02:16 PM  | FRA-12   | ECD | TV  | OCO | 1,063    | 37,985    |
| E754002733 | 11/19/2012 | 1:05:15 PM  | MAN-12   | ECD | TV  | OCO | 143      | 63,742    |
| E735774166 | 11/19/2012 | 1:05:24 PM  | LAC-17   | ECC | TV  | OCO | 30       | 6,738     |
| E946581661 | 11/19/2012 | 1:05:26 PM  | CHI-12   | ECD | TV  | OFU | 1        | 210       |
| E101403415 | 11/19/2012 | 1:06:16 PM  | DUV-12   | EBD | TV  | OCO | 140      | 18,443    |
| E280621146 | 11/19/2012 | 1:11:00 PM  | TLN-0283 | ECE | TV  | OCO | 5,235    | 1,985,085 |
| E630959461 | 11/19/2012 | 1:11:21 PM  | SAH-15   | EBD | TV  | OCO | 78       | 56,679    |
| E141908985 | 11/19/2012 | 1:13:42 PM  | PIN-26   | EBF | TV  | OCO | 80       | 6,984     |
| E006333006 | 11/19/2012 | 1:16:00 PM  | VAS-13   | EBL | UI  | VCB | 1,847    | 151,454   |
| E328061097 | 11/19/2012 | 1:20:37 PM  | LOL-21   | ECD | TV  | OCO | 29       | 17,208    |
| E143311265 | 11/19/2012 | 1:21:02 PM  | LTA-17   | ECA | CP  | OPO | 1        | 554       |
| E854765587 | 11/19/2012 | 1:21:06 PM  | PMA-13   | ECE | TV  | OIN | 99       | 48,995    |
| 11059740   | 11/19/2012 | 1:22:00 PM  | VAS-12   | EBL | EF  | OPO | 1,685    | 313,318   |
| E906735106 | 11/19/2012 | 1:24:18 PM  | STA-26   | EBJ | TO  | OCO | 1,411    | 87,059    |
| E799207742 | 11/19/2012 | 1:24:24 PM  | MWD-16   | EBE | TO  | OCO | 738      | 83,837    |
| E642463445 | 11/19/2012 | 1:25:56 PM  | BRW-15   | EAC | EF  | OTR | 3        | 1,310     |
| E327790302 | 11/19/2012 | 1:26:04 PM  | PMA-16   | ECE | TV  | OFU | 12       | 2,435     |
| E399869757 | 11/19/2012 | 1:30:09 PM  | HWD-25   | EBD | TV  | OCO | 417      | 177,162   |
| E025084652 | 11/19/2012 | 1:32:35 PM  | DUV-13   | EBD | TF  | OCO | 1,718    | 110,824   |
| E328974633 | 11/19/2012 | 1:36:16 PM  | KWH-25   | EBE | TV  | OCO | 2        | 821       |
| E300462773 | 11/19/2012 | 1:39:51 PM  | WAY-15   | EBD | TO  | OCO | 808      | 266,489   |
| E390317359 | 11/19/2012 | 1:40:07 PM  | UHL-25   | EBD | TV  | OCO | 64       | 16,701    |
| E009466050 | 11/19/2012 | 1:42:14 PM  | MST-23   | EBI | TF  | OCO | 1,653    | 109,429   |
| E170633114 | 11/19/2012 | 1:42:25 PM  | ING-16   | EBD | TV  | OCO | 5        | 1,873     |
| E545620001 | 11/19/2012 | 1:42:38 PM  | LMC-25   | EBF | TV  | OCO | 10       | 1,714     |
| E560611542 | 11/19/2012 | 1:44:28 PM  | ING-15   | EBD | TV  | OCO | 48       | 24,602    |
| E405262590 | 11/19/2012 | 1:45:48 PM  | ORC-17   | EBJ | TV  | OFU | 10       | 1,432     |
| E725460797 | 11/19/2012 | 1:47:00 PM  | SCH-16   | EAA | EF  | OTR | 1        | 282       |
| E160201651 | 11/19/2012 | 1:47:07 PM  | MVW-15   | EBJ | TV  | OCO | 13       | 6,546     |
| E382873329 | 11/19/2012 | 1:48:17 PM  | LWS-16   | EBI | TV  | OCO | 35       | 14,235    |
| E618772555 | 11/19/2012 | 1:50:39 PM  | CLY-25   | EBE | TV  | OCO | 36       | 10,506    |
| E479066008 | 11/19/2012 | 1:52:08 PM  | SNQ-13   | EBF | TV  | OCO | 26       | 8,463     |
| E291096632 | 11/19/2012 | 1:52:24 PM  | COT-16   | EBD | EF  | OFC | 19       | 10,333    |
| E232212662 | 11/19/2012 | 1:52:24 PM  | MAP-13   | EBF | TV  | OCO | 11       | 1,327     |
| E719962862 | 11/19/2012 | 1:53:56 PM  | HOU-25   | EBE | TV  | OCO | 7        | 4,403     |
| E361694638 | 11/19/2012 | 2:00:45 PM  | FRA-12   | ECD | TV  | OCO | 5        | 1,451     |

Qualifying Storm Event  
November 19, 2012

| NUMBER     | DATE       | TIME       | CKT    | MPG | CAZ | EQT | CUST.OUT | CUST. MIN |
|------------|------------|------------|--------|-----|-----|-----|----------|-----------|
| E143271825 | 11/19/2012 | 2:02:47 PM | DGR-15 | ECA | TV  | OPO | 2        | 856       |
| 11058045   | 11/19/2012 | 2:06:00 PM | CRE-12 | EAD | EF  | OJU | 1        | 127       |
| E662134377 | 11/19/2012 | 2:06:07 PM | KCR-17 | EBJ | TV  | OSV | 1        | 352       |
| E819400168 | 11/19/2012 | 2:07:16 PM | BEL-26 | EBJ | TV  | OTF | 7        | 2,875     |
| E916224932 | 11/19/2012 | 2:09:35 PM | GRV-15 | ECA | TV  | OCO | 891      | 78,559    |
| E653305562 | 11/19/2012 | 2:11:22 PM | KNT-37 | EBJ | TV  | OFU | 36       | 6,719     |
| E248175650 | 11/19/2012 | 2:17:14 PM | EDG-16 | ECA | TV  | OFU | 48       | 8,053     |
| E959798990 | 11/19/2012 | 2:17:35 PM | EVA-27 | EBJ | TV  | OHR | 318      | 30,343    |
| E655686027 | 11/19/2012 | 2:29:24 PM | SNQ-17 | EBF | TV  | OCO | 37       | 35,949    |
| E356644412 | 11/19/2012 | 2:42:25 PM | WLK-15 | ECA | TV  | OCO | 1        | 648       |
| E086811359 | 11/19/2012 | 2:47:19 PM | SEQ-22 | EBI | TV  | OTF | 2        | 553       |
| E071499971 | 11/19/2012 | 2:48:35 PM | OBY-17 | ECC | TV  | OFC | 6        | 1,149     |
| E734770341 | 11/19/2012 | 2:56:30 PM | KCR-16 | EBJ | TV  | OCO | 10       | 5,365     |
| E865618627 | 11/19/2012 | 3:07:51 PM | LAC-15 | ECC | TV  | OSV | 1        | 71        |
| E969570823 | 11/19/2012 | 3:09:58 PM | PEA-15 | EBJ | TV  | OPO | 4        | 2,220     |
| E855669756 | 11/19/2012 | 3:12:14 PM | BON-15 | ECA | TV  | OFU | 28       | 3,165     |
| E436339913 | 11/19/2012 | 3:15:07 PM | SPA-16 | ECA | TV  | OTF | 1        | 54        |
| E951181546 | 11/19/2012 | 3:17:41 PM | HOL-12 | ECA | TV  | OFU | 82       | 9,777     |
| E473872615 | 11/19/2012 | 3:18:46 PM | BLU-16 | ECC | TV  | OCO | 4        | 433       |
| E955738186 | 11/19/2012 | 3:19:50 PM | LON-25 | ECC | TV  | OCO | 170      | 70,918    |
| E873023222 | 11/19/2012 | 3:23:06 PM | BIG-12 | EAC | UN  | OFU | 20       | 1,676     |
| E475439633 | 11/19/2012 | 3:29:35 PM | PIN-26 | EBF | TV  | OCO | 3        | 879       |
| E133831695 | 11/19/2012 | 3:36:49 PM | DUV-12 | EBD | EF  | OCO | 51       | 6,462     |
| E583499146 | 11/19/2012 | 3:36:54 PM | MWD-16 | EBE | TV  | OCO | 24       | 8,445     |
| E733376437 | 11/19/2012 | 4:22:37 PM | DUV-12 | EBD | TV  | OCO | 66       | 21,247    |
| E008674301 | 11/19/2012 | 4:32:42 PM | LMD-16 | EBJ | TV  | OTF | 1        | 147       |
| E454194707 | 11/19/2012 | 4:34:18 PM | VAS-23 | EBL | TV  | OCO | 12       | 5,396     |
| E138078364 | 11/19/2012 | 4:39:49 PM | RAI-11 | ECC | TV  | OCO | 8        | 2,081     |
| E134887163 | 11/19/2012 | 4:43:06 PM | OSC-25 | EBI | TV  | OCO | 2        | 188       |
| E780066237 | 11/19/2012 | 4:43:38 PM | SOO-25 | EBI | TV  | OFU | 3        | 565       |
| E053260525 | 11/19/2012 | 4:45:52 PM | LUH-14 | ECC | TV  | OCO | 3        | 1,278     |
| E915793682 | 11/19/2012 | 4:47:16 PM | HKX-12 | EAC | TV  | OFU | 4        | 387       |
| E372359189 | 11/19/2012 | 4:55:10 PM | MIL-23 | ECE | TV  | OCO | 1        | 414       |
| 11058127   | 11/19/2012 | 4:57:48 PM | PEA-15 | EBJ | EF  | OPO | 1        | 447       |
| E977853340 | 11/19/2012 | 5:02:48 PM | VAS-12 | EBL | TV  | OFU | 39       | 3,674     |
| E548733980 | 11/19/2012 | 5:06:03 PM | LON-23 | ECC | TV  | OHR | 1        | 140       |
| E489054285 | 11/19/2012 | 5:20:38 PM | STW-12 | ECA | TV  | OTF | 1        | 155       |
| E300568774 | 11/19/2012 | 5:43:46 PM | VAS-13 | EBL | TV  | OFU | 5        | 481       |
| E827255957 | 11/19/2012 | 5:54:45 PM | CLA-13 | EBI | TV  | OHR | 8        | 7,522     |
| E788396112 | 11/19/2012 | 6:19:29 PM | SIL-13 | ECE | EF  | UPC | 1        | 762       |
| E274156180 | 11/19/2012 | 6:38:27 PM | TOL-17 | EBD | TV  | OCO | 4        | 1,958     |
| E146811075 | 11/19/2012 | 6:55:25 PM | FAL-13 | EBF | TV  | OCO | 19       | 5,564     |
| E908605177 | 11/19/2012 | 7:27:05 PM | ING-16 | EBD | EF  | UFJ | 214      | 52,762    |
| E763799676 | 11/19/2012 | 8:29:05 PM | VAS-13 | EBL | TV  | OCO | 5        | 2,775     |
| E259577657 | 11/19/2012 | 8:31:23 PM | VAS-12 | EBL | TV  | OCO | 15       | 11,619    |
| E825580750 | 11/19/2012 | 8:43:01 PM | MTV-16 | EAC | TV  | OPI | 6        | 1,565     |
| 11059735   | 11/19/2012 | 8:57:00 PM | LON-25 | ECC | TV  | OCO | 85       | 6,800     |
| E904322906 | 11/19/2012 | 8:59:12 PM | RAI-12 | ECC | TV  | OCO | 44       | 11,563    |

Qualifying Storm Event  
November 19, 2012

| NUMBER     | DATE       | TIME        | CKT    | MPG | CAZ | EQT | CUST.OUT | CUST. MIN |
|------------|------------|-------------|--------|-----|-----|-----|----------|-----------|
| 11059738   | 11/19/2012 | 10:01:00 PM | LOL-21 | ECD | TV  | OCO | 59       | 4,307     |
| 11058179   | 11/19/2012 | 10:17:00 PM | LYO-12 | EBI | EF  | USV | 1        | 95        |
| E025107454 | 11/19/2012 | 10:27:56 PM | LON-25 | ECC | EF  | OTF | 1        | 223       |
| E063179644 | 11/19/2012 | 10:43:00 PM | MUR-16 | ECE | TV  | OCO | 40       | 2,720     |
| E224728991 | 11/19/2012 | 10:46:40 PM | LYO-12 | EBJ | EF  | OJU | 20       | 767       |
| 11058135   | 11/19/2012 | 11:07:00 PM | PIN-25 | EBE | EF  | USV | 1        | 43        |
| E718782119 | 11/19/2012 | 11:34:36 PM | RAI-14 | ECC | TV  | OFU | 2        | 163       |
| 11058318   | 11/19/2012 | 11:35:00 PM | ORC-17 | EBJ | TV  | OCO | 22       | 6,820     |
| E244016331 | 11/19/2012 | 11:37:17 PM | WIN-13 | ECE | TV  | OCO | 27       | 1,247     |
| E573168131 | 11/19/2012 | 11:39:19 PM | TRA-23 | ECE | EF  | OTR | 1        | 711       |
| E093297715 | 11/19/2012 | 11:47:04 PM | ORC-17 | EBJ | TV  | OCO | 1        | 281       |

## Terms, Codes and Definitions Used on Detail Reports

|                     |  |
|---------------------|--|
| <b>Notification</b> | <b>[Notification Number]</b> A number assigned by SAP, identifying the outage record |
| <b>Date</b>         | The date of the outage   |
| <b>Time</b>         | The time of the outage   |
| <b>Circuit</b>      | <b>[Reference Circuit]</b> The circuit identifier for the affected circuit           |

|             |  |                      |
|-------------|--|----------------------|
| <b>Area</b> | <b>[Maintenance Planner Group]</b> A code representing the energy, region and service center |                      |
|             | EAA – Bellingham   | EBJ – South King     |
|             | EAB – Lynden   | EBK – Southwest King |
|             | EAC – Skagit   | EBL – Vashon         |
|             | EAD – Whidbey  | ECA – Puyallup       |
|             | EBD – Redmond  | ECC – Olympia        |
|             | EBE – Factoria   | ECD – Port Orchard   |
|             | EBF – Snoqualmie   | ECE – Poulsbo        |
|             | EBI – Enumclaw   | ECF – Port Townsend  |

|              |                         |                            |
|--------------|-------------------------|----------------------------|
| <b>Cause</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</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</b> | <b>[Customer Out]</b> The number of customers without power for any given outage record                 |
| <b>CUST MIN</b> | <b>[Customer Minutes]</b> The total number of minutes customers were without power for any given record |

## Media Coverage



Tuesday, November 20, 2012

### **Thousands lose power as winds topple trees**

*Gusty winds toppled trees and knocked tree limbs onto power lines Monday, resulting in scattered power outages throughout Thurston County that affected several thousand Puget Sound Energy customers.*

ROLF BOONE; STAFF WRITER

Gusty winds toppled trees and knocked tree limbs onto power lines Monday, resulting in scattered power outages throughout Thurston County that affected several thousand Puget Sound Energy customers.

About noon Monday, 7,500 PSE customers were without power. The number of outages was reduced to about 3,600 by 3 p.m., spokeswoman MacKenzie McDowell said.

Students at Rainier Middle School and Rainier High School were sent home early Monday after both schools lost power.

Power outages were triggered by a fall storm that brought heavy rain and gusty winds to Western Washington, resulting in rainfall of more than 2 inches in some areas.

Nearly two inches of rain had fallen in the Olympia area Monday, according to the National Weather Service. Rainfall was expected to ease Monday evening, although more rain and wind is in the forecast for today and the rest of the week. Daytime temperatures are expected to be in the upper 40s to lower 50s.

Flood and wind warnings also were in effect Monday.

Meanwhile, the Washington State Patrol said it responded to 20 vehicle accidents Monday in Thurston and Pierce counties, and Thurston County Public Works reminded residents to clear storm drains to prevent urban flooding. Drivers are cautioned not to drive through standing water.

“The air intake on many cars is low at the front of the car,” county officials said in a news release. “Just a cup of water sucked into the combustion chamber can wreck an engine.”

Thurston County Emergency Management also said residents should not call 911 to report power outages.

“We want to remind people that 911 is for life-threatening emergencies, but that a simple power outage at your house should be reported to Puget Sound Energy,” Thurston County Emergency Management Division manager Kathy Estes said in a statement.



Tuesday, November 20, 2012

### Record Rain Swamps Puget Sound Region

**SEATTLE, Wash. (Metro)** -- Western Washington state is taking a beating as several storms pass over the region today leading to record rainfall and area mudslides.

Puget Sound Energy officials now report some 23 thousand people are without power due to the storms.

Sea-Tac airport was reporting record rainfall as of noon Monday, and snow is falling in some areas of the region, leading to a tough afternoon commute.

Several mudslides have also been reported in the area, including one between Seattle and Everett that has led to the cancellation of both local and Amtrak rail service.

More rain is expected well into the Thanksgiving holiday.



Monday, November 19, 2012

### 7,500 without power in Thurston County as storm rolls through

*Forty- to 50-mile-per-hour wind gusts have knocked out power to several thousand Puget Sound Energy customers in Thurston County, a spokeswoman for the utility said.*

ROLF BOONE; STAFF WRITER

Forty- to 50-mile-per-hour wind gusts have knocked out power to several thousand Puget Sound Energy customers in Thurston County, a spokeswoman for the utility said.

As of noon Monday, about 26 outages were reported in the county, totaling 7,500 customers, MacKenzie McDowell said.

A fall storm characterized by heavy rain and gusty winds has swept through Western Washington, resulting in rainfall of more than 2 inches in several areas. Through 4 a.m. Monday, 1.61 inches of rain has fallen in the Olympia area, according to the National Weather Service.

A river and small stream flood advisory is in effect for Western Washington, as is a strong wind advisory through Monday afternoon. Rainfall is expected to ease this evening.



# BAINBRIDGE ISLAND REVIEW

Monday, November 19, 2012

## UPDATE | Power out on Bainbridge Island

Officials with Puget Sound Energy report that approximately 5,000 customers on Bainbridge Island are currently without power.

Incidents such as trees falling on power lines are causing many of the outages. PSE is currently attempting to re-route power to those customers, but does not yet have an exact time frame for when power will be restored.

Downtown Winslow businesses began reporting outages along Winslow Way shortly after 1 p.m. Monday.

Eagle Harbor Book Co. posted on its Facebook page that it currently has power provided by a generator, but that the rest of downtown Winslow is in the dark.

Karin Lehotsky, owner of Lollipop's Children's Boutique, has continued to work despite the power outage. She has been putting up holiday decorations by candlelight, Lehotsky said.

Other reports of other power outages range up Madison Avenue, and as far down as Fort Ward.

The wet and windy weather is expected to stick around through Wednesday, according to the National Weather Service in Seattle, as one storm system after another moves through the area.

The Kitsap County Emergency Operations Center went to Phase 2 at 1:15 p.m. Monday to prepare for problems caused by heavy rains and breezy conditions, county officials said.

County officials said they have received reports of flooding, roadways congested with overflowing culverts, high tides and collisions.

COURTESY OF KARIN LEHOTSKY.  
This fallen tree blocked Buckskin Lane on the south end of  
Bainbridge Island Monday afternoon



# PuyallupPatch

Monday, November 19, 2012

Over 900 PSE Customers in East Pierce County Currently Without Power

*PSE reports that about 900 residents in the Puyallup and Bonney Lake-Summer areas are currently without power.*

High winds and rain brought power outages to East Pierce County on Thursday, according to a Puget Sound Energy spokeswoman.

As of 3 p.m. on Monday approximately 900 PSE customers are without power, mostly in the Puyallup area.

Across the PSE service area, 23,000 customers are experiencing power loss due to high winds and fallen tree limbs.

PSE crews are working with the National Weather Service to restore power when the forecast clears. Crews are ready but waiting until after 4 p.m. when the winds are forecasted to die down.

If you're experiencing an outage or suspect a natural gas leak, call Puget Sound Energy 1-888-225-5773. [Click here for real-time updates](#), or check [Twitter.com/PSETalk](https://twitter.com/PSETalk).

PSE can't tell us at this time exactly where the outages are occurring so please keep your neighbors informed by leaving your power status in the comment section below.

**Is the power out in your neighborhood?** Tell us in the comments.

## **Record-setting rains, gusty winds make travel a headache**

By SCOTT SISTEK, KOMO STAFF

Updated 9:13 p.m., Monday, November 19, 2012

A record-setting rain poured down and winds howled across much of Western Washington Monday, toppling trees, knocking out power and turning some streets into impromptu swimming pools.

Over two inches of rain fell in the Seattle metro area with greater amounts out toward the coast and in the hills. Several streets were flooded and there were dozens of accidents, crippling the morning commute.

Over on the northern Oregon and southern Washington coast, winds blasted to hurricane-force strength, even reaching triple digits on some of the exposed hilltops.

In Pacific County, a trooper and another driver miraculously escaped injury when a tree fell on the trooper's car Monday morning.

The trooper had stopped for a mudslide on U.S. 101 at milepost 30, said Trooper Russ Winger, a spokesman for the Washington State Patrol. As the trooper sat in the car, another car pulled up alongside him. Suddenly, a tree fell over on top of the trooper's car, setting it on fire.

The trooper managed to crawl out the passenger door as the fire started, then broke out the window of the other car and freed the woman inside, Winger said.

The trooper then went back to his patrol car and removed the weapons to prevent ammunition from exploding.

The Washington State Department of Transportation reports there were more trees down on Highway 101 about 30 miles north along the Pacific and Grays Harbor County line. Trees were also reported down across state Route 107 near Preachers Slough Road.

The strong winds gusting over 60 mph were also knocking out power along the coast. Grays Harbor PUD says power was out to about 2,500 customers as of late Monday morning.

Wind gusts were even stronger along the southern Washington and Oregon coasts. A semi overturned on the Astoria-Megler Bridge as wind gauges nearby reported a gust to 101 mph. Across the border in Naselle, Wash., a wind gauge high up in the Willapa Hills hit a gust of 114 mph. Astoria had a gust to 92 mph, with gusts to 75-80 mph common along Newport and Tillamook.

Closer to home, in Lacey, gusty winds toppled a large tree into a car in the 6700 block of Martin Way East, witnesses said.

Around Seattle and the central Puget Sound area, rain was the biggest headache. State and city Department of Transportation and utility crews were busy clearing clogged storm drains where standing water was backing up into lanes of traffic.

The southbound lanes of Highway 99 approaching the Battery Street Tunnel were entirely covered with water during Monday morning's commute, slowing traffic to a crawl, and Mercer Street below the highway was also flooded. In the afternoon, Mercer Street was again the scene of problems as the traffic light went out at the busy intersection with Dexter, leading to a few accidents.

Overall, troopers in King County reported 66 car crashes through 4 p.m. with the evening commute yet to commence, while Thurston and Pierce counties had a combined 20 crashes.

Reports of other flooded streets were widespread across the Puget Sound area. Bothell was hit particularly hard with streets flooded around the 21400 block of 35th Avenue Southeast.

Wind combined with the rains and soggy grounds to topple trees into power lines. Puget Sound Energy reported 23,000 people in the dark Monday afternoon -- mainly on Vashon and Bainbridge islands, while Seattle City Light reported 4,000 people without power in the North Queen Anne, Discovery Park and Fremont areas.

Mudslides in North Seattle affected passenger train service between Seattle and points north. Sound Transit had to cancel Northline Sounder service between Seattle and Everett while Amtrak said service was disrupted between Seattle and Vancouver, B.C. It will remain that way until at least Wednesday due to a required 48-hour wait after a mudslide.

Over 10 mudslides fell along the route with some trees that fell measuring 40 feet tall and 2 feet in diameter, said Gus Melonas with Burlington Northern-Santa Fe.

In Everett, heavy rains caused 10 of 12 combined sewer outfalls to overflow into the Snohomish River and Port Gardner Bay, the city said. One of the sewer lift stations in the separated system also overflowed for approximately 55 minutes. Quantities are unknown at this time.

Qualifying Storm Event  
November 19, 2012

Everett has notified local agencies including state departments of Health and Ecology, Snohomish Health District and Port of Everett.

In Kitsap County, street flooding has been an issue in both Bremerton and Port Orchard.

In downtown Port Orchard, water was up about halfway on cars' tires as the rain poured down there. Flooding was also causing issues along Seabeck Highway and Arnold Avenue, off Beach Drive in South Kitsap.

Water also covered four blocks of Kirkland's Totem Lake Blvd from 120th Ave Northeast to 124th Ave Northeast late Monday morning. Other spots around that city also had urban flooding, including Billy Creek, the Plaza at Yarrow Bay and a slide reported at 405 Lake Street. In Bellevue, part of the new northbound Interstate 405 bypass ramp to Eastbound state Route 520 was closed due to rainwater causing erosion under the ramp.

Strong winds also caused a truck to overturn on the Chehalis Bridge. The National Weather Service is warning of increased risks of landslides and mudslides as the heavy rain falls. Heavier rains were falling in the mountains, prompting flood warnings for the Skokomish, Chehalis and Newakum Rivers. Moderate flooding was expected on the Newakum and Chehalis with minor flooding on the Skokomish.

Centralia declared a local state of emergency and opened up an emergency shelter as local rivers and streams were expected to climb over flood stage.

The heavy rainfall also prompted King County to open its Flood Warning Center on Monday evening.

### **Seattle weather calendar says Monday rain is no surprise**

For those who follow the Seattle weather calendar, rain today should not have been a surprise. Nov. 19 is statistically the most likely day to have rain in Seattle, as it has rained a whopping 88 times in the past 119 years. Make that 89 out of 120. No other day is even close (second-wettest is 81 times on Dec. 29). What's even more amazing about the gravitation of rain to this date is that the other dates surrounding the 19th have "only" had rain about 65 times -- about 20 percent less. But to give an idea of how wet Monday was, in all those 88 times it's rained before on this date, it's never rained this much. Through 10 a.m., Seattle had already set its daily rainfall record with 1.48" of rain, breaking the old record of 1.23" set in 1962, and the rain was still coming down.

Heavy rains were expected to taper off Monday evening but several more storms are lined up to keep the rain going through Thanksgiving weekend.

### **Peak Gusts In Windstorm:**

- Naselle Ridge: 114 mph (2,000 feet)
- Crystal Mountain Ski: 107 mph
- Megler Tower (1,200 feet; near Astoria): 101 mph
- Yaquina Head (Ore.): 98 mph
- Astoria: 92 mph
- Lincoln City: 85 mph
- Newport: 80 mph
- Cape Disappointment: 76 mph
- Pacific City (Ore.): 75 mph
- Warrenton: 69 mph
- Hoquiam: 61 mph
- Tillamook: 59 mph
- Everett: 49 mph
- Olympia: 41 mph
- Seattle (Boeing Field): 40 mph
- Alki Beach: 40 mph
- Tacoma: 39 mph
- Seattle: 36 mph