

Ms. Thara Johnson
City of Bellevue
PO Box 90012
Bellevue, WA 98009-9012

July 27, 2023

RE: 2022 Electric Service Reliability Report

Dear Ms. Johnson,

Enclosed please find Puget Sound Energy's Bellevue Electric Reliability Report for calendar year 2022. For the 18th consecutive year, service reliability experienced by Bellevue customers was well above that experienced by all PSE customers in the aggregate. Of the 98 distribution circuits serving Bellevue customers in 2022, 85 circuits had reliability numbers better than the system wide performance (25 circuits experienced no unplanned outages). 13 circuits had SAIDI or SAIFI figures that exceeded the 2022 PSE system wide performance values.

The report content for the 2022 report is the same as our 2021 report:

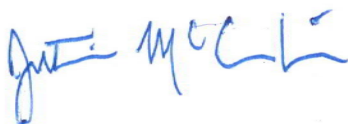
- Preface summarizing 2022 performance metrics reporting
- 2018 – 2022 System Average Interruption Duration Index (SAIDI) & System Average Interruption Frequency Index (SAIFI) Five Year History
- 2018 – 2022 SAIDI & SAIFI Five Year History Illustrated (graphed)
- 2022 Performance for Circuits Serving Bellevue
- 2022 Outages Summaries for Circuits Serving Bellevue
- 2022 Circuits Serving Bellevue Exceeding PSE SAIDI or SAIFI
- 2018 – 2022 Circuits That Exceeded PSE System SAIDI or SAIFI Five Year Overview
- 2022 Outage Events by Circuit list
- 2022 Report Codes Legend

We report PSE system-wide and Bellevue circuit SAIDI values consistent with reporting to the Washington State Utilities & Transportation Commission (WUTC).

Also included is our 2022 Service Quality Report Card available at PSE.com.

Please contact me at (206) 517-3432 or e-mail at justin.mcconachie@pse.com to discuss any questions or concerns you may have about the report materials.

Sincerely,



Justin McConachie
Senior Municipal Liaison Manager

CC:

Kate Nesse – City of Bellevue, Community Development
Ken Hageman – City of Bellevue, Right-of-Way Supervisor
RaeLynn Asah – PSE, Manager Municipal Relations
Matt Larson – PSE, Local Government Affairs & Public Policy Manager
David Landers – PSE, Director Planning
Ryan Lambert – PSE, Manager System Planning

Enclosures

BELLEVUE ELECTRIC RELIABILITY REPORT FOR 2022

This report summarizes electric service reliability for customers within the City of Bellevue for calendar year 2022. For the 18th consecutive year, service reliability as measured by SAIDI & SAIFI for Bellevue customers was well above that experienced by all PSE customers in the aggregate. Of the 98 distribution circuits serving Bellevue customers in 2022, 85 circuits had reliability numbers better than the system wide performance (25 circuits experienced no unplanned outages). 10 circuits had SAIDI and/or SAIFI figures that exceeded the 2022 service quality index. 3 circuits did not exceed the 2022 service quality index for either SAIDI or SAIFI, but exceeded the 2022 system wide performance for SAIFI.

SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI) SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI) FIVE YEAR HISTORY

PSE analyzes and reports on the performance of its distribution circuits using two standard benchmarks of the electric utility industry, SAIDI and SAIFI.

	SAIDI		SAIFI	
	BELLEVUE	PSE	BELLEVUE	PSE
2018	111.3	145.0	0.71	1.02
2019	102.7	136.0	0.79	0.98
2020	93.0	165.0	0.92	1.24
2021	111.0	207.0	0.65	1.35
2022	58.2	181.0	0.37	1.06

SAIDI figures in minutes per customer calculated using the IEEE 1366 method
SAIFI figures in outage events per customer

SAIDI_{IEEE}: The System Average Interruption Duration Index is a measure of how long the average customer is out of service during the year, and is determined as:

$$\frac{\text{Sum of the customer outage minutes}}{\text{Total number of customers served}}$$

SAIDI figures are single year figures excluding outages that exceed the annual adjusted Major Event Day Threshold

Some customers will experience more outage minutes than the average and some fewer.

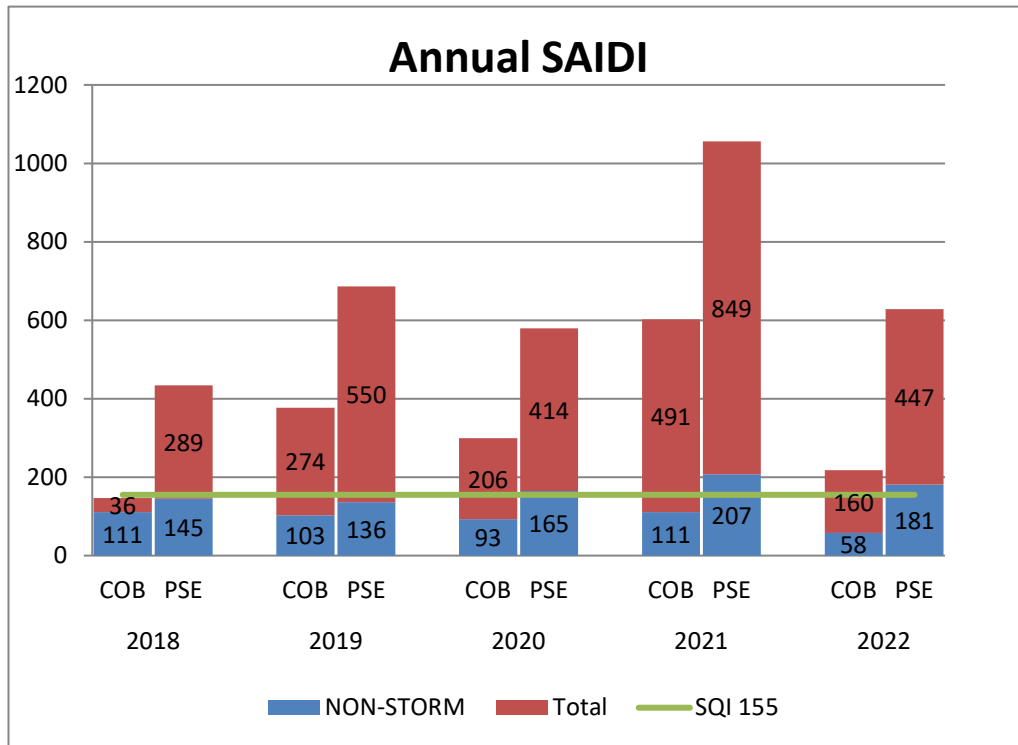
SAIFI: The System Average Interruption Frequency Index is a measure of how often the average customer in an area is out of service during a year, and is determined as:

$$\frac{\text{Sum of the number of customers affected by each outage}}{\text{Total number of customers served}}$$

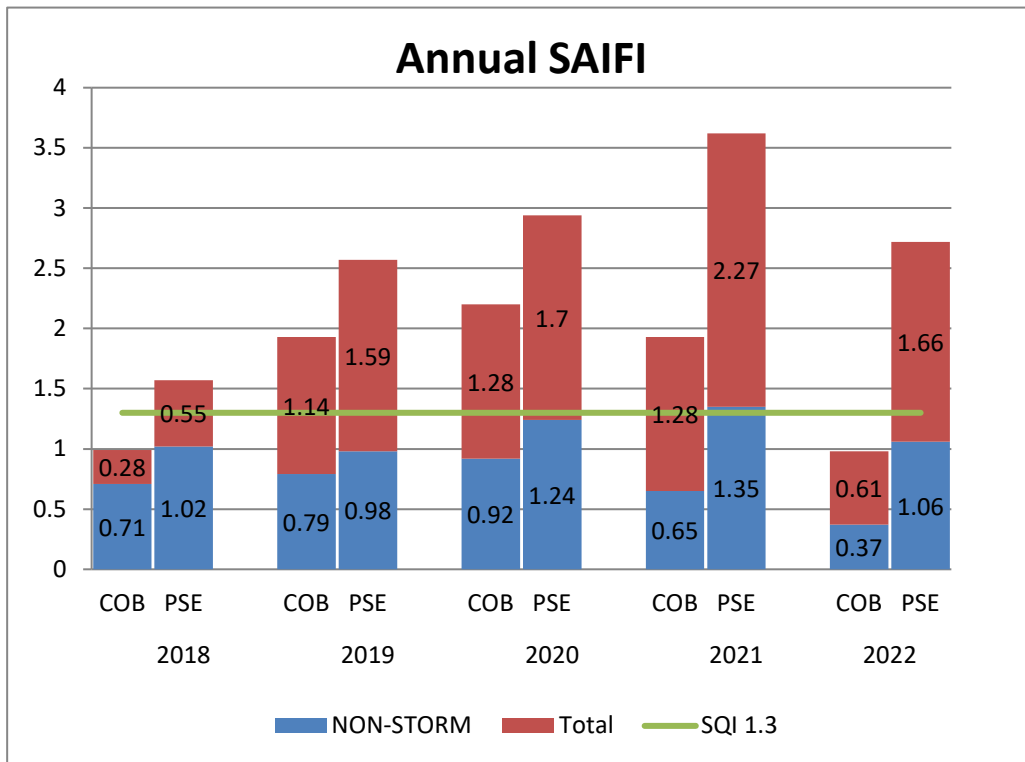
SAIFI figures are single year figures excluding 5% Exclusion Major Event Day outage events

Some customers will experience more outages than the average and some fewer.

**SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI)
SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI)
FIVE YEAR HISTORY**



Values in minutes for all years calculated using IEEE 1366 method



Values in outage events for all years

2022 PERFORMANCE FOR CIRCUITS SERVING BELLEVUE					
EXCLUDING STORM OUTAGES					
CIRCUIT	CUSTOMERS (METERS)	UNPLANNED OUTAGES ¹	OUTAGE MINUTES ¹	SAIDI ²	SAIFI ²
<i>2022 PSE Companywide performance figures</i>				181	1.06
ARD-11	229	1	84	0	0
ARD-13	860	5	389,532	462.19	2.11
ARD-14	248	0	0	0.71	0.01 ⁵
ARD-15	1,621	7	99,853	64.34	0.21
ARD-43	1,037	1	10,481	10.11	0.01
BTR-14	1,132	2	91,703	81.01	0.15
BTR-21	1,137	7	76,642	67.41	0.32
BTR-22	687	11	117,243	173.83	1.42
BTR-23	642	0	0	0.00	0.00
CEN-11	28	1	569	20.32	0.21
CEN-12	319	0	0	0.00	0.00
CEN-13	471	1	2,644	5.61	0.51
CEN-14	17	0	0	0.00	0.00
CEN-22	549	0	0	0.00	0.00
CEN-25	965	1	105	5.09	0.02
CLY-22	346	0	0	0.00	0.00
CLY-23	540	4	23,332	43.21	0.05
CLY-25	1,693	2	6,105	5.91	0.01
CLY-26	1,301	4	10,555	8.11	0.11
CLY-27	796	1	1,960	2.46	0.01
COL-22	2	0	0	0.00	0.50
COL-23	70	0	0	2.21	0.01 ⁵
COL-24	19	1	71	3.74	0.05
COL-25	241	0	0	0.00	0.00
COL-26	1,997	14	171,518	104.73	0.51
EGT-11	1,236	9	23,693	19.63	0.14
EGT-12	1,798	6	21,888	12.17	0.94
EGT-13	7	0	0	0.00	0.00
EGT-15	268	0	0	1.30	0.03 ⁵
EGT-16	528	2	8,022	29.38	0.40
EGT-25	985	7	78,535	79.73	0.95
EGT-26	27	0	0	0.00	0.00
EGT-27	597	7	11,830	19.82	1.05
EGT-28	1,771	12	71,089	58.90	0.26
EVE-23	2,975	19	53,964	18.77	0.09
FAC-12	1,271	17	47,728	38.46	0.19
FAC-13	492	3	48,522	99.48	0.24
FAC-14	475	0	0	0.00	0.00
FAC-21	96	0	0	0.00	0.00
FAC-23	226	0	0	3.39	0.01 ⁵
FAC-24	85	0	0	27.39	0.05 ⁵
FAC-25	1,488	3	5,600	3.93	0.01
GOO-13	2,259	6	168,804	74.87	0.15
GOO-21	402	7	21,459	117.22	0.55
HAZ-12	3,286	11	201,623	63.42	0.92
HAZ-13	1,246	9	17,852	14.92	0.10
HOU-23	1,318	4	21,667	18.98	0.08
HOU-25	534	7	7,785	56.70	0.14
KWH-22	1,251	6	5,151	4.12	0.06
KWH-23	939	19	227,226	241.99	1.52
KWH-25	1,647	26	91,110	56.31	0.17
KWH-26	372	4	1,827	4.91	0.05
LHL-22	1,019	11	108,823	128.86	1.17
LHL-23	1,378	4	37,958	37.53	0.18
LHL-25	2,510	11	40,631	16.19	0.04
LHL-26	549	5	11,557	40.97	0.27

CIRCUIT	CUSTOMERS (METERS)	UNPLANNED OUTAGES ¹	OUTAGE MINUTES ¹	SAIDI ²	SAIFI ²
LOC-22	2,624	2	1,942	0.84	0.01
LOC-23	1,918	4	45,760	23.86	0.08
LOC-24	45	0	0	0.00	0.00
LOC-25	153	1	20,624	134.80	1.00
LOC-32	230	1	30,045	130.63	1.00
LOC-33	287	1	35,503	131.38	1.08
LOC-34	408	0	0	0.00	0.00
LOC-35	21	2	3,050	145.24	2.00
MED-35	190	4	32,480	172.97	0.45
MED-36	677	6	50,316	74.32	0.65
MLK-12	428	5	27,013	63.11	0.41
MLK-13	1,437	6	66,443	46.24	0.25
MLK-15	1,624	9	112,206	73.78	0.28
MLK-16	1,589	7	40,193	36.05	0.15
NOB-11	63	1	21,792	346.70	0.65
NOB-12	538	1	4,263	8.01	0.03
NOB-13	11	0	0	0.00	0.00
NOB-14	1,016	0	0	3.50	0.00 ⁵
NOB-21	5	0	0	0.00	0.00
NOB-22	145	0	0	37.72	0.16 ⁵
NOB-23	961	0	0	0.00	0.00
NOB-24	1,013	8	29,632	29.68	0.06
NRU-14	24	0	0	0.00	0.00
NRU-23	757	8	14,608	19.30	0.14
NRU-25	846	16	70,687	85.31	0.44
NRU-26	785	2	38,128	51.05	1.05
NRU-27	499	11	134,258	293.36	1.29
OVE-12	587	4	15,194	40.88	0.22 ⁴
OVE-15	754	5	9,656	19.58	0.10 ⁴
PHA-13	1,051	14	146,485	140.54	0.47
PHA-15	178	5	8,250	46.35	0.34
PHA-16	2,084	14	369,569	182.92	1.76
PHA-17	703	13	44,315	63.68	1.23
ROS-17	1,231	7	19,333	16.10	0.25
SBE-22	422	2	4,529	10.73	0.07
SBE-23	120	0	0	20.53	0.15 ⁵
SBE-25	589	2	540	27.42	0.25
SBE-26	1,866	30	509,442	276.42	0.66
SOM-13	1,913	7	20,059	10.49	0.05 ³
SOM-15	1,745	9	291,762	169.42	1.10 ³
SOM-16	2,640	21	75,745	35.77	0.26 ³
SOM-17	1,711	7	18,043	10.72	0.05 ³
Scheduled Outages		127	345,522		
Unscheduled Outages		513	4,648,606		
Totals	85,870	640	4,994,128		
Notes					
1 Figures exclude Major Event Day and Major Storm outages.					
2 SAIDI are 2022 single year figures calculated using the IEEE 1366 method which excludes Major Event Day outage events. SAIFI are 2022 single year figures which exclude 5% Exclusion Major Event Day outage events.					
3 Includes one circuit outage resulting from substation bank outage.					
4 Includes one circuit outage resulting from transmission line outage.					
5 SAIDI & SAIFI figures greater than zero reflect inclusion of scheduled outages (including customer requested outages).					

2022 OUTAGES FOR CIRCUITS SERVING BELLEVUE
EXCLUDING STORM OUTAGES

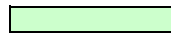
BY CAUSE

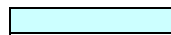
CAUSE CODE	CAUSE DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
AC	ACCIDENT	5	0.8%	121,276	2.6%
AO	ACCIDENT OTHER, WITH FIRES	1	0.2%	826	0.0%
AV	ACCIDENT/VANDALISM NOT RESULTING IN DC	2	0.3%	1,330	0.0%
BA	BIRD OR ANIMAL	50	8.1%	117,042	2.5%
CE	CUSTOMER EQUIPMENT	10	1.6%	190,622	4.1%
CP	CAR POLE	12	1.9%	107,703	2.3%
DU	DIG UP UNDERGROUND	16	2.6%	52,298	1.1%
EF	EQUIPMENT FAILURE	308	49.8%	2,738,979	58.4%
ND	NATURAL DISASTER	1	0.2%	43,934	0.9%
OD	OUTSIDE DISTURBANCE	1	0.2%	844	0.0%
OE	OPERATING ERROR	1	0.2%	150	0.0%
SO	SCHEDULED OUTAGE	128	20.7%	345,558	7.4%
TV	TREE - RIGHT OF WAY UNKNOWN	55	8.9%	788,159	16.8%
UN	UNKNOWN CAUSE	23	3.7%	146,415	3.1%
(blank)	BLANK	6	1.0%	33,963	0.7%
Totals		619	100%	4,689,099	100%

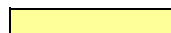
BY EQUIPMENT

EQUIP CODE	EQUIPMENT DESCRIPTION	OUTAGES		OUTAGE MINUTES	
		COUNT	PERCENT	COUNT	PERCENT
ACE	ALL CUSTOMER EQUIPMENT	16	2.6%	21,321	0.5%
OAR	DID NOT OPERATE	1	0.2%	7,407	0.2%
OCE	OVERHEAD ARRESTER	1	0.2%	110	0.0%
OCN	CUSTOMER EQUIPMENT	12	1.9%	2,735	0.1%
OCO	OVERHEAD SECONDARY CONNECTOR	29	4.7%	752,581	16.0%
OCR	OVERHEAD CONDUCTOR	3	0.5%	6,497	0.1%
OFC	OVERHEAD CROSSARM	4	0.6%	15,322	0.3%
OFU	OVERHEAD CUT-OUT	45	7.3%	573,876	12.2%
OIN	OVERHEAD LINE FUSE / FUSE LINK	2	0.3%	21,385	0.5%
OJU	OVERHEAD INSULATOR	1	0.2%	17,680	0.4%
OMP	OVERHEAD POLE (EDOP100)	1	0.2%	72	0.0%
OPO	OVERHEAD SERVICE	41	6.6%	331,837	7.1%
OSV	OVERHEAD SWITCH	27	4.4%	7,848	0.2%
OSW	OVERHEAD TRANSFORMER FUSE	2	0.3%	7,319	0.2%
OTF	OVERHEAD TRANSFORMER	51	8.2%	35,255	0.8%
OTR	PADMOUNT SWITCH FUSE	33	5.3%	47,239	1.0%
PMJ	PADMOUNT METER POINT (EDUM100)	1	0.2%	27,579	0.6%
SCB	PADMOUNT TRANSFORMER FUSE	7	1.1%	469,324	10.0%
UEL	POWER CIRCUIT BREAKER	45	7.3%	433,501	9.2%
UFJ	STATION POWER TRANSFORMER	11	1.8%	113,025	2.4%
UGF	UNDERGROUND ELBOW	7	1.1%	66,658	1.4%
UGV	UNDERGROUND FUSED ELBOW	5	0.8%	25,462	0.5%
UHH	UNDERGROUND J-BOX	27	4.4%	22,154	0.5%
UMP	UNDERGROUND SUBMERSIBLE FUSE	2	0.3%	246	0.0%
UOT	UNDERGROUND VAULT	9	1.5%	147,802	3.2%
UPC	UNDERGROUND HANDHOLE - SECONDARY	65	10.5%	924,277	19.7%
UPS	UNDERGROUND SUBMERSIBLE METER POINT	5	0.8%	200,386	4.3%
UPT	UNDERGROUND UNKNOWN	16	2.6%	97,809	2.1%
USC	UNDERGROUND OUTDOOR TERMINATION	4	0.6%	4,336	0.1%
USV	UNDERGROUND PRIMARY CABLE	93	15.0%	43,312	0.9%
UTC	UNDERGROUND PADMOUNT SWITCH (EDUS100)	4	0.6%	23,304	0.5%
UTR	UNDERGROUND PADMOUNT TRANSFORMER	29	4.7%	194,733	4.2%
UVS	UNDERGROUND SECONDARY CABLE	2	0.3%	3,050	0.1%
(blank)	UNDERGROUND PRIMARY SPLICE	18	2.9%	43,657	0.9%
Totals		619	100%	4,689,099	100%

CIRCUITS THAT EXCEED 2022 PSE SYSTEM SAIDI AND/OR SAIFI SQI: SAIDI = 155 SAIFI = 1.30 PSE: SAIDI = 181 SAIFI = 1.06 BELLEVUE: SAIDI = 58 SAIFI = 0.37			<i>Notes: SAIDI figures reflect all non-med, scheduled & unscheduled SAIFI figures reflect all non-storm outages, scheduled & unscheduled</i>		
CIRCUIT	SAIDI	SAIFI	2022 Events Comments	Actions & Projects Completed in 2022	Planned Actions & Projects
Circuits with planned actions or investigations					
NRU-27	293.36	1.29	There were 3 separate outage events involving a failed switch and failed underground cable that contributed to 198.03 of the overall SAIDI and 1.03 of the overall SAIFI.	Both switch and underground cables were replaced and power restored.	A underground cable replacement project to help reduce outages from aging and failed cables, is in development and is estimated to be completed in 2024.
SBE-26	276.42	0.66	There were 11 separate outage events involving either a tree or branch falling onto overhead distribution lines that contributed to 184.16 of the overall SAIDI.	Trees and branches were removed and overhead distribution lines were repaired.	The distribution circuit has a tree trimming cycle of 4 years, the last time trees were trimmed and removed was in 2021 and the next scheduled trim will be in 2025.
BTR-22	173.83	1.42	There were 3 separate outage events involving either a tree or branch falling onto overhead distribution lines contributed to 157.27 of the overall SAIDI and 1.34 of the overall SAIFI.	Tree and branches were removed and overhead distribution lines were repaired.	The distribution circuit has a tree trimming cycle of 4 years, the last time trees were trimmed and removed was in 2018 and was due in 2022 but needed to be rolled into the 2023 schedule. Construction of a distribution underground conversion along 132nd Ave NE is currently in the design phase and is projected to start construction in 2024. There is also another underground conversion project along NE 60th St that is going through the permitting stage and is projected to start construction in 2023.
PHA-17	63.68	1.23	There was 1 outage event involving a tree branch falling onto the overhead distribution lines that contributed to 1.00 of the overall SAIFI.	The tree branch was removed and the overhead distribution lines were repaired.	The distribution circuit has a trimming cycle of 4 years, the last time trees were trimmed and removed was in 2022 and the next scheduled trim will be in 2026.
LHL-22	128.86	1.17	There was 1 outage event involving a tree branch falling onto the overhead distribution lines that contributed to 1.00 of the overall SAIFI.	The tree branch was removed and the overhead distribution lines were repaired.	The distribution circuit has a trimming cycle of 4 years, the last time trees were trimmed and removed was in 2019 and the next scheduled trim will be in 2023.
Circuits with completed 2022 actions - no additional corrective action needed					
ARD-13	462.19	2.11	There were 2 separate outage events involving a failed switch and failed underground cables that contributed to 401.16 of the overall SAIDI and 1.96 of the overall SAIFI.	Both switch and underground cables were replaced and power restored.	
NOB-11	346.70	0.65	There was 1 outage event involving an underground cable failure that contributed to 345.90 of the overall SAIDI.	The underground cable was replaced and power restored.	
KWH-23	241.99	1.52	There was 1 outage event involving a failed connector for underground cables that contributed to 126.02 of the overall SAIDI and 0.96 of the overall SAIFI.	The underground cable connector was repaired and power restored.	
LOC-35	145.24	2.00	There were 2 outage events involving the same failed underground switch that contributed to 2.00 of the overall SAIFI.	The underground switch was replaced and power restored.	
PHA-16	182.92	1.76	There was 1 outage event involving an overhead fuse failure that contributed to 164.72 of the overall SAIDI and 1.00 of the overall SAIFI.	The overhead fuse was repaired and power restored.	
MED-35	172.97	0.45	There was 1 outage event involving an underground cable failure that contributed to 166.90 of the overall SAIDI.	The underground cable was replaced and power restored.	
SOM-15	169.42	1.10	There was 1 outage event involving the circuit breaker opening due to an unknown fault event that contributed to 116.80 of the overall SAIDI and 1.00 of the overall SAIFI.	The crew investigated and tested the substation cables and circuit breaker but found no problems. The crew reclosed the circuit breaker with no problems and power was restored.	
LOC-33	131.38	1.08	There was 1 outage event involving an animal getting into an underground switch and causing a fault.	The dead animal was removed and power was restored.	
Circuits for which no corrective action is needed					

 Figure exceeded Service Quality Index

 Figure exceeding system wide average and Service Quality Index

 SAIFI figure results in part from circuit outages due to 2021 transmission or substation outage

**Note: Circuits NRU-27, PHA-17, LHL-22, SOM-15, LOC-33 exceed the PSE average for SAIFI, but do not exceed the Service Quality Index for SAIFI.*

**CIRCUITS THAT EXCEEDED PSE SYSTEM SAIDI OR SAIFI
2018 - 2022**

During the five year period 2018-2022 these circuits serving customers in Bellevue performed below PSE's average system wide performance in one or more years. Of these circuits...

- 25 (38%) circuits performed below system wide performance once in five years
- 24 (36%) circuits performed below system wide performance twice in five years
- 14 (21%) circuits performed below system wide performance in three of the five years
- 2 (3%) circuits performed below system wide performance in four of the five years
- 1 (2%) circuit performed below system wide performance in five of the five years

CIRCUIT	Repeat Counts					1	2	3	4	5
	2018	2019	2020	2021	2022					
ARD-13								3		
ARD-15								3		
BTR-21							2			
BTR-22									4	
BTR-23							2			
CEN-11						1				
CEN-25						1				
CLY-22						1				
CLY-23						1				
CLY-25						1				
CLY-26						1				
CLY-27						1				
COL-23								3		
COL-25						1				
COL-26						1				
EGT-11								3		
EGT-12									4	
EGT-13						1				
EGT-15						1				
EGT-16						1				
EGT-25							2			
EGT-28						1				
FAC-13						1				
FAC-25							2			
GOO-13							2			
GOO-21								3		
HAZ-12						1				
HAZ-13						1				
HOU-23						1				
HOU-25								3		
KWH-22								3		
KWH-23							2			
KWH-25							2			
KWH-26							2			
LHL-22								3		
LHL-23							2			
LHL-25								3		
LOC-22						1				
LOC-33							2			
LOC-35							2			
MED-35							2			
MED-36						1				

Repeat Counts

CIRCUIT	2018	2019	2020	2021	2022	Repeat Counts				
						1	2	3	4	5
MLK-13							2			
MLK-15								3		
NOB-11							2			
NOB-14						1				
NOB-21						1				
NOB-24								3		
NRU-23							2			
NRU-25							2			
NRU-26							2			
NRU-27										5
OVE-12							2			
OVE-15							2			
PHA-13							2			
PHA-15						1				
PHA-16								3		
PHA-17							2			
ROS-17						1				
SBE-22							2			
SBE-23							2			
SBE-26						1				
SOM-13						1				
SOM-15							2			
SOM-16								3		
SOM-17								3		
Totals	27	40	26	22	13	25	24	14	2	1
	2018	2019	2020	2021	2022	38%	36%	21%	3%	2%

2022 OUTAGES FOR CIRCUITS SERVING BELLEVUE

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
1/2/2022	NRU-27	EF	UPT	5	2,040	MEN
1/2/2022	SOM-15	EF	USV	1	1,725	MEN
1/3/2022	FAC-12	UN	USV	1	876	MEN
1/3/2022	KWH-23	EF	OFU	28	43,053	MEN
1/4/2022	FAC-25	EF	OTR	7	2,552	NON
1/5/2022	HOU-25	TV	OTF	7	4,139	NON
1/5/2022	HOU-25	EF	USV	1	627	NON
1/5/2022	HOU-25	SO	ACE	2	73	NON
1/5/2022	MLK-15	EF	USV	1	545	NON
1/6/2022	COL-26	EF	OTR	24	1,780	NON
1/6/2022	COL-26	OE	OFU	23	150	NON
1/6/2022	MED-36	TV	OFU	203	23,041	NON
1/7/2022	MLK-13	EF	USV	1	1,730	NON
1/7/2022	SBE-26	EF	UPC	88	21,913	NON
1/8/2022	ARD-43	EF	UEL	10	10,481	NON
1/8/2022	EVE-23	EF	USV	1	603	NON
1/8/2022	FAC-12	EF	USV	1	219	NON
1/9/2022	KWH-26	EF	USV	1	152	NON
1/10/2022	NRU-26	TV	OCO	783	33,447	NON
1/11/2022	EGT-28	EF	OSV	1	250	NON
1/11/2022	KWH-22	BA	OFU	32	2,433	NON
1/11/2022	LHL-22	TV	OCO	1,019	101,200	NON
1/11/2022	PHA-17	TV	OCO	703	9,455	NON
1/11/2022	SBE-26	TV	OCO	4	940	NON
1/12/2022	EVE-23	TV	OSV	1	96	NON
1/12/2022	KWH-22	UN	OPO	6	935	NON
1/14/2022	BTR-22	EF	OCN	1	761	NON
1/14/2022	KWH-25	EF	USV	1	522	NON
1/17/2022	PHA-13	EF	USV	1	181	NON
1/17/2022	SOM-15	ND	UEL	12	43,934	NON
1/18/2022	PHA-16	SO	UEL	2	341	NON
1/18/2022	ROS-17	CE	USV	1	169	NON
1/19/2022	FAC-12	EF	UTR	87	19,720	NON
1/20/2022	EVE-23	EF	OCN	1	66	NON
1/20/2022	KWH-26	EF	USV	1	222	NON
1/20/2022	SBE-26	CP	OFU	70	5,949	NON
1/21/2022	ARD-13	SO	OSW	2	234	NON
1/21/2022	KWH-25	EF	UHH	8	583	NON
1/21/2022	SOM-16	EF	UHH	4	333	NON
1/22/2022	EVE-23	EF	USV	1	514	NON
1/22/2022	SBE-26	EF	OFU	26	5,072	NON
1/24/2022	KWH-25	EF	USV	1	122	NON
1/25/2022	FAC-12	SO	UEL	1	9	NON
1/27/2022	MLK-16	EF	USV	1	353	NON
1/27/2022	MLK-16	SO	UEL	13	789	NON
1/27/2022	OVE-15	SO	UEL	4	832	NON
1/28/2022	ROS-17	EF	UTR	64	12,494	NON
1/29/2022	COL-24	CP	UPT	1	71	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
1/29/2022	EGT-11	SO	OFU	2	512	NON
1/29/2022	FAC-24	SO	UEL	4	2,328	NON
1/29/2022	NOB-22	SO	UEL	15	3,708	NON
1/31/2022	KWH-23	EF	UPC	45	12,824	NON
1/31/2022	MLK-15	EF	UPC	59	23,869	NON
2/1/2022	EGT-11	BA	UEL	21	3,346	NON
2/1/2022	SOM-17	SO	ACE	5	230	NON
2/2/2022	SOM-16	SO	UPC	78	9,495	NON
2/3/2022	SBE-26	EF	UPC	13	1,783	NON
2/5/2022	SOM-16	EF	UOT	130	11,020	NON
2/7/2022	LHL-25	EF	OTR	4	1,496	NON
2/7/2022	PHA-16	EF	UMP	1	161	NON
2/8/2022	LHL-23	SO	UPC	12	5,044	NON
2/8/2022	LHL-26	EF	OIN	18	3,501	NON
2/9/2022	MLK-16	SO	ACE	8	9,762	NON
2/11/2022	BTR-21	EF		2	230	NON
2/11/2022	SBE-26	EF	UTR	18	5,483	NON
2/11/2022	SOM-13	CE	USV	1	974	NON
2/13/2022	KWH-25	EF	UTR	9	8,025	NON
2/14/2022	BTR-22	TV	OCO	116	52,084	NON
2/14/2022	EGT-11	EF	USV	1	541	NON
2/14/2022	EVE-23	EF	USV	1	164	NON
2/14/2022	PHA-13	SO	UPT	8	632	NON
2/14/2022	PHA-16	EF	OFU	2,082	343,436	NON
2/14/2022	PHA-17	EF	OFU	66	25,075	NON
2/17/2022	FAC-12	EF	UTR	1	204	NON
2/17/2022	KWH-22	BA	UEL	28	1,249	NON
2/19/2022	HOU-25	EF	USV	1	288	NON
2/19/2022	NRU-27	SO	UPC	24	10,678	NON
2/19/2022	SOM-15	SO	ACE	7	3,718	NON
2/20/2022	EGT-27	EF	OTF	9	1,709	NON
2/22/2022	COL-26	EF	UOT	255	69,622	NON
2/23/2022	HAZ-13	UN	USV	1	464	NON
2/24/2022	ROS-17	EF	UTR	8	4,252	NON
2/25/2022	COL-26	EF	OCN	1	496	NON
2/26/2022	HAZ-13	EF	USV	1	91	NON
2/26/2022	KWH-23	EF	OFU	26	5,851	NON
2/26/2022	SOM-17	BA	OFU	46	5,239	NON
2/27/2022	CEN-11	EF	UPS	6	569	NON
2/27/2022	OVE-12	EF	OSV	4	492	NON
2/28/2022	GOO-21	EF	UFJ	5	4,572	NON
2/28/2022	NOB-24	EF	UPT	6	424	NON
3/1/2022	HAZ-13		OFU	19	5,848	NON
3/1/2022	HOU-25	EF	UHH	1	165	NON
3/1/2022	MLK-13	EF	UTR	8	2,391	NON
3/1/2022	SBE-26	EF	OFC	16	2,620	NON
3/2/2022	LHL-26	DU	UPC	24	7,248	NON
3/2/2022	OVE-15	SO	OFU	4	1,591	NON
3/2/2022	PHA-16	TV	OSV	1	170	NON
3/3/2022	NRU-27	SO	UEL	1	16	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
3/4/2022	SOM-15	EF	UPC	47	4,731	NON
3/5/2022	LHL-23	CP	OIN	85	17,884	NON
3/5/2022	SOM-16	EF	USV	1	286	NON
3/7/2022	NRU-27	EF	OFC	28	9,312	NON
3/7/2022	NRU-27	EF	SCB	504	87,433	NON
3/8/2022	COL-26	EF	UPC	226	43,272	NON
3/9/2022	COL-26	EF	USV	1	522	NON
3/9/2022	FAC-13	SO	UEL	1	424	NON
3/9/2022	HAZ-12	SO		62	2,566	NON
3/9/2022	HAZ-12	SO		9	168	NON
3/9/2022	SBE-26	EF	OTR	4	401	NON
3/10/2022	HAZ-13	EF	OSV	2	659	NON
3/10/2022	KWH-25	UN	USV	1	70	NON
3/11/2022	KWH-25	DU	USV	1	281	NON
3/13/2022	KWH-23	EF	UPC	114	26,677	NON
3/14/2022	KWH-25	EF	UHH	1	475	NON
3/15/2022	FAC-12	EF	USV	1	385	NON
3/15/2022	OVE-15	SO	OPO	7	1,412	NON
3/16/2022	LHL-23	EF	USC	2	844	NON
3/16/2022	PHA-13	SO	OFU	2	592	NON
3/17/2022	FAC-12	UN	USV	1	838	NON
3/17/2022	OVE-15	EF	USV	1	518	NON
3/18/2022	ARD-13	SO	UEL	4	7,718	NON
3/18/2022	EVE-23	SO	UEL	7	1,518	NON
3/19/2022	PHA-13	EF	OTR	1	144	NON
3/19/2022	PHA-13	BA	OFU	66	7,037	NON
3/20/2022	KWH-25	UN	USV	5	646	NON
3/21/2022	GOO-21	SO	UPS	12	36	NON
3/21/2022	KWH-25	EF	USV	1	165	NON
3/22/2022	MLK-12	EF	OTF	3	196	NON
3/23/2022	EGT-11	EF	UHH	7	648	NON
3/23/2022	KWH-25	EF	UTR	6	1,752	NON
3/25/2022	KWH-22	EF	USV	1	81	NON
3/28/2022	BTR-21	DU	USV	1	433	NON
3/28/2022	EGT-25	EF	OTR	4	361	NON
3/28/2022	GOO-13	CP	OPO	100	58,072	NON
3/28/2022	OVE-15	BA	OFU	47	5,413	NON
3/29/2022	ARD-15	EF	UEL	157	41,873	NON
3/29/2022	ARD-15	EF	UEL	154	41,726	NON
3/29/2022	CEN-13			242	2,644	NON
3/29/2022	NRU-27	SO	UEL	13	1,212	NON
3/30/2022	EGT-28	SO	UEL	43	6,065	NON
3/31/2022	EGT-11	TV	USV	1	132	NON
3/31/2022	KWH-22	DU	USV	1	141	NON
3/31/2022	LHL-26	SO	OTF	83	5,793	NON
3/31/2022	LOC-22	EF	OTR	3	1,028	NON
4/2/2022	GOO-21	SO	UPS	4	2,014	NON
4/2/2022	KWH-22	EF	OSV	1	312	NON
4/2/2022	NRU-27	SO	UEL	1	180	NON
4/4/2022	EGT-27	TV	OFU	5	1,908	MEJ

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
4/4/2022	FAC-25	BA	OFU	53	848	MEJ
4/4/2022	HOU-25	TV	OCO	38	32,258	MEJ
4/4/2022	HOU-25	TV	OCO	533	35,480	MEJ
4/4/2022	NOB-24	TV	OCO	312	104,671	MEJ
4/5/2022	SOM-16	TV	OCO	50	2,919	NMJ
4/6/2022	CLY-26	EF	USV	1	179	NON
4/7/2022	HAZ-12	TV	OCO	2,742	192,488	NON
4/7/2022	MLK-15	EF	PMJ	67	27,579	NON
4/10/2022	FAC-12	EF	USV	1	685	NON
4/10/2022	PHA-17	TV	OTF	21	627	NON
4/11/2022	MED-35	EF	USV	1	462	NON
4/12/2022	CEN-25	CE	USV	4	105	NON
4/13/2022	SOM-17	EF	USV	1	87	NON
4/15/2022	SOM-16	BA	OTF	1	147	NON
4/18/2022	NRU-23	EF	UOT	51	5,360	NON
4/18/2022	NRU-27	BA	OTF	2	113	NON
4/18/2022	SOM-13	EF	USV	1	131	NON
4/25/2022	EVE-23	DU	USV	1	65	NON
4/25/2022	LHL-26	DU	USV	1	321	NON
4/26/2022	ARD-15	EF	UTR	4	2,892	NON
4/26/2022	ARD-15	EF	UGV	4	284	NON
4/26/2022	MLK-15	EF	UTR	33	4,273	NON
4/26/2022	SBE-26	TV	OSV	1	235	NON
4/28/2022	BTR-21	EF	USV	1	107	NON
4/28/2022	BTR-22	EF	UPT	4	282	NON
4/28/2022	BTR-22	EF	UPT	4	191	NON
4/28/2022	COL-23	SO	UPC	1	155	NON
4/29/2022	PHA-15	EF	OCR	38	4,471	NON
4/29/2022	PHA-15	EF	OCR	8	687	NON
4/30/2022	KWH-23	EF	UFJ	26	10,487	NON
5/1/2022	FAC-12	BA	OTF	10	734	NON
5/1/2022	LHL-25	EF	OTR	4	146	NON
5/3/2022	NRU-25	UN	UGV	1	192	NON
5/3/2022	NRU-25	UN	UPC	11	1,105	NON
5/4/2022	LHL-23	SO	UEL	54	5,713	NON
5/4/2022	MLK-15	CP	OSV	1	74	NON
5/4/2022	NRU-27	EF	UTR	26	8,490	NON
5/6/2022	NOB-24	BA	OTF	2	191	NON
5/6/2022	NRU-23	EF	UPC	14	6,192	NON
5/6/2022	PHA-13	EF	USV	1	481	NON
5/7/2022	LOC-33	SO	UEL	2	1,017	NON
5/8/2022	LOC-33	SO	UEL	1	230	NON
5/9/2022	ROS-17	EF	USV	1	112	NON
5/9/2022	SBE-22	BA	OFU	25	4,109	NON
5/11/2022	KWH-23	EF	SCB	918	120,474	NON
5/12/2022	EVE-23	AC	OFU	26	4,330	NON
5/12/2022	EVE-23	EF	OFU	104	10,598	NON
5/13/2022	ROS-17	SO	UEL	7	484	NON
5/14/2022	NRU-25	SO	UEL	1	59	NON
5/14/2022	SBE-26	TV	OCO	26	9,919	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
5/16/2022	COL-26	EF	USV	1	127	NON
5/16/2022	EGT-27	BA	OTF	6	472	NON
5/16/2022	GOO-13	SO	UEL	4	335	NON
5/16/2022	LHL-25	EF	OCN	1	78	NON
5/16/2022	SOM-17	EF	OTF	1	99	NON
5/18/2022	ARD-11	SO	UFJ	2	432	MEN
5/18/2022	CLY-27	TV	OCO	795	165,346	MEJ
5/18/2022	CLY-27	TV	OCO	51	4,746	MEJ
5/18/2022	EGT-12	TV	OFU	22	20,436	MEJ
5/18/2022	EGT-25	EF	OCO	1	1,025	MEJ
5/18/2022	EGT-27	TV	OTF	5	2,357	MEJ
5/18/2022	EGT-28	TV	OFU	266	47,598	MEJ
5/18/2022	NRU-27	TV	OFU	18	1,981	MEJ
5/18/2022	SOM-13	1 TV	OCO	1,671	629,967	MEJ
5/18/2022	SOM-15	1 TV	OCO	1,746	658,242	MEJ
5/18/2022	SOM-16	1 TV	OCO	2,642	1,611,620	MEJ
5/18/2022	SOM-17	1 TV	OCO	1,710	644,670	MEJ
5/19/2022	CLY-23	TV	OFU	21	13,010	NMJ
5/19/2022	EVE-23	TV	OFU	105	18,293	NMJ
5/19/2022	GOO-13	TV	OFU	19	6,704	NMJ
5/19/2022	SOM-16	UN	UOT	1	85	NMJ
5/20/2022	HAZ-12	EF	USV	1	168	NON
5/23/2022	SOM-16	UN	OFU	104	6,276	NON
5/24/2022	CLY-25	EF	UTR	10	5,759	NON
5/24/2022	EVE-23	EF	USV	1	481	NON
5/24/2022	PHA-16	EF	OTF	4	1,399	NON
5/25/2022	SBE-26	SO	OPO	4	873	NON
5/26/2022	COL-22			1	1	NON
5/26/2022	KWH-23	EF	USV	1	464	NON
5/27/2022	KWH-25	EF	UTR	80	21,755	NON
5/27/2022	PHA-16	TV	OFU	64	5,804	NON
5/27/2022	SBE-26	TV	OCO	245	85,638	NON
5/27/2022	SOM-13	EF	UPC	29	7,057	NON
5/27/2022	SOM-13	EF	UMP	1	85	NON
5/29/2022	SBE-26	TV	UOT	25	3,235	NON
5/31/2022	EGT-11	SO	OTR	2	59	NON
5/31/2022	NOB-12	SO	USV	1	46	NON
5/31/2022	NRU-23			1	424	NON
6/1/2022	CEN-25	SO		12	4,036	NON
6/1/2022	LHL-22	EF	OTF	7	810	NON
6/2/2022	ARD-11	EF	UTR	1	84	NON
6/2/2022	MLK-12	EF	UFJ	66	10,013	NON
6/3/2022	EGT-11	EF	OAR	43	7,407	NON
6/4/2022	FAC-23	SO		1	140	NON
6/5/2022	COL-26	EF	OFU	28	4,057	NON
6/6/2022	COL-26	EF	USV	1	429	NON
6/6/2022	PHA-13	CE	OCN	1	94	NON
6/7/2022	KWH-23	EF	UHH	7	329	NON
6/8/2022	FAC-13	EF	UFJ	111	45,462	NON
6/8/2022	HOU-23	CP	OPO	8	2,057	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
6/8/2022	SOM-17	SO	OPO	1	65	NON
6/9/2022	EGT-28	EF	USV	1	607	NON
6/9/2022	FAC-13	TV	OCO	1	586	NON
6/9/2022	HOU-25	SO	OPO	2	127	NON
6/9/2022	NRU-25	BA	OTF	1	83	NON
6/9/2022	PHA-16	EF	OMP	1	72	NON
6/10/2022	PHA-15	BA	OTF	8	1,199	NON
6/11/2022	CEN-25	SO	UEL	1	212	NON
6/11/2022	LHL-23	EF	UFJ	65	17,882	NON
6/12/2022	LHL-22	BA	OTF	2	127	NON
6/13/2022	BTR-22	TV	OCO	7	4,603	NON
6/13/2022	NRU-23	EF	OFC	6	214	NON
6/13/2022	SBE-26	TV	OTF	2	221	NON
6/13/2022	SOM-15	AV	UEL	8	267	NON
6/14/2022	ARD-15	SO		1	3,246	NON
6/14/2022	EGT-25	UN	OSV	1	369	NON
6/14/2022	EGT-28	EF	UHH	1	467	NON
6/14/2022	SBE-26	EF	USV	1	640	NON
6/15/2022	KWH-25	UN	USV	7	1,925	NON
6/15/2022	LHL-23	BA	OTR	21	1,348	NON
6/16/2022	LHL-22	EF	OSV	1	129	NON
6/16/2022	OVE-12	SO	OPO	20	7,480	NON
6/17/2022	CLY-23	EF	OTF	3	351	NON
6/17/2022	HAZ-12	SO		16	3,062	NON
6/18/2022	SBE-23	SO	ACE	3	2,176	NON
6/18/2022	SOM-16	SO	OSW	14	7,085	NON
6/20/2022	PHA-17	BA	OFU	16	1,904	NON
6/21/2022	COL-26	EF	UPT	117	20,843	NON
6/21/2022	HOU-25	EF	OFU	4	1,664	NON
6/22/2022	EGT-12	EF	UHH	6	2,452	NON
6/22/2022	EGT-12	DU	USV	-	327	NON
6/22/2022	EGT-12	BA	OTF	1	114	NON
6/23/2022	KWH-23	EF	USV	1	206	NON
6/25/2022	EGT-27	EF	OTF	3	229	NON
6/25/2022	NRU-27	EF	UFJ	-	10,080	NON
6/25/2022	NRU-27	EF	UFJ	-	2,167	NON
6/25/2022	NRU-27	EF	UFJ	-	1,336	NON
6/26/2022	ARD-13	EF	UTR	115	42,962	NON
6/26/2022	KWH-25	EF	USV	2	1,072	NON
6/26/2022	NRU-25	UN	USV	1	638	NON
6/27/2022	GOO-21	SO	OPO	52	21,625	NON
6/27/2022	GOO-21	SO	OPO	52	2,026	NON
6/27/2022	KWH-25	EF	USV	1	169	NON
6/28/2022	ARD-13	EF	UTR	10	1,163	NON
6/28/2022	HAZ-12	TV	OCO	2	273	NON
6/28/2022	MLK-15	BA	OFU	4	354	NON
6/28/2022	PHA-16	BA	OTF	3	251	NON
6/28/2022	SBE-25	TV	OSV	1	166	NON
6/29/2022	CEN-25	SO	OTR	5	563	NON
6/30/2022	ARD-14	SO	ACE	2	177	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
6/30/2022	PHA-13	EF	OTR	7	2,803	NON
6/30/2022	PHA-17	EF	USV	1	263	NON
6/30/2022	SBE-22	BA	OTF	6	420	NON
7/1/2022	HAZ-12	EF	UTR	17	5,919	NON
7/1/2022	KWH-23	EF	UTC	40	7,266	NON
7/1/2022	MLK-15	EF	UPC	236	50,555	NON
7/2/2022	EGT-12	EF	OFU	1,680	17,804	NON
7/2/2022	PHA-13			12	1,636	NON
7/3/2022	SOM-15	UN	USV	1	119	NON
7/4/2022	EGT-25	UN	OFU	34	4,214	NON
7/4/2022	HAZ-12	BA	OFU	22	1,567	NON
7/5/2022	LHL-22	CE	OCN	1	137	NON
7/5/2022	SBE-26	EF	UPC	156	60,158	NON
7/8/2022	EGT-28	CE	USV	1	700	NON
7/8/2022	FAC-25	SO	UEL	2	247	NON
7/8/2022	NOB-12	CE	UTR	15	4,263	NON
7/9/2022	CLY-26	UN	UTC	139	9,088	NON
7/9/2022	KWH-25	DU	USV	1	151	NON
7/9/2022	SBE-26	EF	USV	1	620	NON
7/10/2022	HAZ-12	UN	OTF	3	213	NON
7/11/2022	CLY-26	CE	OTR	1	591	NON
7/11/2022	PHA-16	EF	OSV	1	118	NON
7/11/2022	SBE-26	SO	UEL	23	4,234	NON
7/12/2022	EGT-16	EF	SCB	168	1,497	NON
7/12/2022	EGT-27	EF	UFJ	2	488	NON
7/12/2022	EGT-27	EF	SCB	597	5,320	NON
7/13/2022	COL-26	SO	UOT	170	37,621	NON
7/14/2022	NRU-27	TV	OFU	20	2,020	NON
7/15/2022	NOB-24	EF	OTF	2	268	NON
7/15/2022	OVE-12	SO	UEL	25	1,324	NON
7/15/2022	PHA-17	EF	UPC	5	2,229	NON
7/15/2022	SOM-16	EF	OTF	1	186	NON
7/15/2022	SOM-16	EF	OCN	1	148	NON
7/16/2022	LOC-23	EF	UPC	88	30,175	NON
7/17/2022	LOC-23	EF	UPC	16	5,282	NON
7/17/2022	LOC-23	EF	OFU	42	8,406	NON
7/19/2022	PHA-17	BA	OTF	5	376	NON
7/19/2022	PHA-17	EF	OTR	3	96	NON
7/20/2022	FAC-12	EF	UGF	41	9,948	NON
7/21/2022	KWH-25	TV	OCO	11	4,628	NON
7/21/2022	MLK-13	EF	UGV	34	13,906	NON
7/22/2022	EGT-12	BA	OTF	2	321	NON
7/22/2022	EGT-16	SO	OPO	8	2,267	NON
7/22/2022	FAC-12	DU	UHH	10	5,036	NON
7/22/2022	KWH-25	BA	OTF	4	521	NON
7/22/2022	SBE-25	SO	OPO	13	6,256	NON
7/22/2022	SBE-26	TV	OTF	3	367	NON
7/23/2022	EGT-16	SO	OPO	11	4,048	NON
7/24/2022	KWH-26	EF	OSV	5	301	NON
7/24/2022	NRU-26	EF	UFJ	27	4,681	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
7/25/2022	SBE-25	BA	OFU	4	374	NON
7/26/2022	BTR-22	TV	OCO	117	28,893	NON
7/26/2022	COL-26	EF	UTR	99	15,520	NON
7/26/2022	MED-36	EF	USV	1	508	NON
7/26/2022	MED-36	UN	OFU	204	23,973	NON
7/26/2022	PHA-15	TV	OSV	1	294	NON
7/27/2022	SOM-16	EF	UPC	23	8,541	NON
7/28/2022	FAC-25	EF	UTR	7	1,591	NON
7/29/2022	EGT-16	SO	OPO	4	827	NON
7/29/2022	EGT-16	SO	OPO	11	351	NON
7/29/2022	LHL-26	EF	UHH	2	354	NON
7/29/2022	PHA-16	EF	OFU	22	10,595	NON
7/29/2022	SBE-23	SO	ACE	1	146	NON
7/29/2022	SBE-23	SO	ACE	1	41	NON
7/30/2022	KWH-23	EF	UPC	39	18,364	NON
7/30/2022	LOC-23	EF	OTF	4	1,897	NON
7/30/2022	PHA-13	EF	UTR	8	1,981	NON
7/30/2022	ROS-17	EF	OSV	9	2,014	NON
8/2/2022	ARD-15	SO	ACE	1	472	NON
8/2/2022	EVE-23	BA	OTF	3	412	NON
8/2/2022	PHA-13	BA	OTR	4	937	NON
8/3/2022	NRU-25	EF	USV	1	640	NON
8/5/2022	LHL-22	AC	OFC	28	3,176	NON
8/5/2022	NRU-25	EF	UGF	66	7,445	NON
8/6/2022	NOB-22	SO	UPC	2	718	NON
8/6/2022	NRU-25	EF	UTR	1	471	NON
8/8/2022	HOU-23	EF	UEL	64	17,557	NON
8/8/2022	NRU-23	EF	OFU	4	511	NON
8/9/2022	EGT-12	BA	OTR	2	870	NON
8/9/2022	LHL-25	EF	USV	1	673	NON
8/9/2022	MLK-15	EF	OCN	1	498	NON
8/9/2022	SOM-15	EF	USV	1	523	NON
8/10/2022	PHA-13	AC	OPO	217	113,440	NON
8/11/2022	LHL-25	EF	UHH	6	477	NON
8/13/2022	MLK-16	SO	ACE	19	459	NON
8/13/2022	NRU-25	SO	ACE	2	752	NON
8/13/2022	SOM-16	EF	OFU	5	203	NON
8/14/2022	KWH-26	BA	OTF	12	1,152	NON
8/14/2022	SOM-16	EF	OTR	1	240	NON
8/16/2022	NRU-27	SO	USV	1	45	NON
8/16/2022	PHA-13	EF	OTR	9	440	NON
8/17/2022	EGT-28	EF	UPC	54	22,313	NON
8/17/2022	EVE-23	BA	OTF	4	409	NON
8/17/2022	KWH-22	EF	UHH	1	4	NON
8/17/2022	SBE-26	EF	UPC	9	6,924	NON
8/18/2022	KWH-23	EF	UPC	40	3,009	NON
8/18/2022	NOB-24	BA	OTR	6	738	NON
8/19/2022	EVE-23	TV	OCO	1	197	NON
8/19/2022	GOO-21	UN	UGF	64	5,468	NON
8/19/2022	GOO-21	TV	OTF	1	79	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
8/20/2022	NOB-24	BA	OTR	5	282	NON
8/22/2022	HAZ-12	TV	OSV	1	243	NON
8/23/2022	EVE-23	EF	UHH	5	290	NON
8/23/2022	KWH-23	EF	USV	6	281	NON
8/23/2022	OVE-12	TV	OCO	38	7,825	NON
8/24/2022	HOU-23	EF	UPC	8	1,957	NON
8/25/2022	MLK-16	SO	UHH	16	361	NON
8/25/2022	PHA-15	EF	OPO	6	1,599	NON
8/26/2022	KWH-23	EF	UTR	8	3,185	NON
8/26/2022	NRU-25	UN	UGF	61	10,596	NON
8/28/2022	BTR-21	EF	UPC	252	57,073	NON
8/29/2022	HOU-25	SO	OCO	47	22,294	NON
8/29/2022	KWH-25	DU	UPC	14	3,457	NON
8/30/2022	EGT-28	DU	UPC	215	26,395	NON
8/30/2022	KWH-23	TV	OCO	44	6,002	NON
8/30/2022	MLK-13	EF	UPC	196	25,294	NON
8/30/2022	MLK-13	UN	UGF	117	20,865	NON
8/30/2022	SOM-15	EF	USV	1	544	NON
8/30/2022	SOM-16	EF	UPT	6	376	NON
8/31/2022	EGT-11	EF	USV	9	668	NON
8/31/2022	EGT-11	EF	USV	1	309	NON
9/1/2022	GOO-21	EF	UPC	19	5,374	NON
9/1/2022	SOM-16	BA	OTF	5	568	NON
9/2/2022	HAZ-12	BA	OTF	3	162	NON
9/3/2022	LHL-25	BA	OTF	5	769	NON
9/5/2022	NRU-25	EF	USV	1	221	NON
9/6/2022	MED-35	DU	OCN	1	130	NON
9/6/2022	NOB-14	SO	UEL	3	3,560	NON
9/6/2022	NRU-26	SO		1	193	NON
9/6/2022	OVE-12	EF	UTR	38	6,465	NON
9/8/2022	EVE-23	EF	UEL	31	12,523	NON
9/8/2022	MED-35	EF	USV	1	177	NON
9/8/2022	SBE-26	SO	ACE	2	1,253	NON
9/8/2022	SOM-15	SO	UHH	9	161	NON
9/9/2022	KWH-23	EF	UPC	41	5,748	NON
9/10/2022	NOB-24	EF	UPC	27	22,854	NON
9/11/2022	LOC-25	UN	SCB	153	20,624	NON
9/11/2022	LOC-32	UN	SCB	229	30,045	NON
9/11/2022	SOM-15	EF	UPC	79	37,313	NON
9/12/2022	CLY-23	EF	UPC	16	9,167	NON
9/12/2022	LHL-22	CP	OSV	1	136	NON
9/13/2022	LHL-26	SO	OTR	17	5,143	NON
9/13/2022	SBE-26	BA	OTR	17	1,901	NON
9/14/2022	ARD-15	EF	UTR	4	3,271	NON
9/14/2022	NOB-11	EF	UPC	40	21,792	NON
9/15/2022	BTR-21	CP	UPT	110	13,717	NON
9/15/2022	EGT-28	SO	OPO	1	468	NON
9/15/2022	GOO-21	DU	USV	1	402	NON
9/15/2022	LHL-22	CE	OSV	11	454	NON
9/15/2022	LOC-33	BA	UPS	276	35,503	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
9/16/2022	NRU-23	BA	OFU	4	242	NON
9/18/2022	HOU-23	TV	OCO	3	96	NON
9/18/2022	NRU-26	SO		1	335	NON
9/19/2022	EGT-28	SO	OPO	1	510	NON
9/19/2022	NRU-26	SO		2	61	NON
9/20/2022	EGT-28	SO	OPO	1	476	NON
9/20/2022	GOO-21	EF	UPC	7	2,933	NON
9/20/2022	KWH-25	EF	UPC	4	2,772	NON
9/20/2022	KWH-25	EF	UPC	6	2,000	NON
9/20/2022	MED-36	EF	UHH	10	1,012	NON
9/20/2022	SOM-16	EF	USV	1	339	NON
9/21/2022	ARD-15	SO	USV	6	727	NON
9/21/2022	EGT-28	SO	OPO	1	447	NON
9/21/2022	FAC-12	SO	OPO	8	1,143	NON
9/21/2022	FAC-12	EF	OFU	9	710	NON
9/21/2022	MED-36	BA	OTF	2	117	NON
9/22/2022	EGT-28	SO	OPO	1	288	NON
9/22/2022	KWH-25	EF	USV	1	78	NON
9/22/2022	SOM-15	EF	USV	1	400	NON
9/25/2022	ARD-15	EF	UTR	4	2,070	NON
9/26/2022	LHL-22	SO	OPO	87	17,542	NON
9/26/2022	MLK-16	EF	UHH	5	132	NON
9/26/2022	PHA-16	DU	UPC	8	1,653	NON
9/27/2022	EGT-27	EF	UPT	5	2,273	NON
9/27/2022	LHL-22	SO	OPO	25	4,944	NON
9/28/2022	GOO-13	EF	UPT	8	443	NON
9/28/2022	HAZ-12	SO	OTR	4	965	NON
9/28/2022	HAZ-12	EF	OTR	4	111	NON
9/29/2022	EGT-27	BA	OCR	5	1,339	NON
9/29/2022	PHA-16	SO	UPC	32	10,410	NON
9/30/2022	BTR-14	EF	UPC	173	91,616	NON
9/30/2022	PHA-16	SO	OPO	10	890	NON
10/1/2022	BTR-14	EF	OCN	1	87	NON
10/1/2022	NOB-24	SO	UEL	4	158	NON
10/1/2022	SBE-26	EF	USV	1	185	NON
10/3/2022	KWH-23	EF	UPC	45	5,167	NON
10/3/2022	KWH-23	EF	UPC	1	85	NON
10/4/2022	MED-35	EF	UPC	78	31,711	NON
10/4/2022	SBE-26	EF	UPC	23	4,717	NON
10/5/2022	FAC-12	EF	UHH	2	1,249	NON
10/5/2022	LHL-25	EF	UPC	45	23,018	NON
10/6/2022	EVE-23	CP	USC	3	1,443	NON
10/7/2022	COL-26	EF	UPC	62	13,557	NON
10/7/2022	SOM-13	EF	UPC	45	10,358	NON
10/8/2022	ARD-15	EF	UTR	11	7,737	NON
10/8/2022	LHL-25	EF	UPC	36	12,214	NON
10/8/2022	NRU-27	EF	UPC	19	4,940	NON
10/9/2022	KWH-25	EF	UPC	6	1,469	NON
10/11/2022	EGT-28	SO	OPO	1	369	NON
10/11/2022	KWH-25	DU	USV	1	335	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
10/12/2022	NOB-24	SO	USV	6	274	NON
10/12/2022	SOM-17	EF	UHH	5	372	NON
10/13/2022	FAC-25	EF	USC	2	1,457	NON
10/13/2022	NRU-25	EF	USV	1	487	NON
10/13/2022	OVE-15	SO	UPT	5	1,257	NON
10/14/2022	EGT-28	SO	OPO	67	22,100	NON
10/14/2022	HAZ-12	AC	OSV	1	319	NON
10/14/2022	HAZ-12	AC	OSV	8	11	NON
10/14/2022	HAZ-13	EF	UHH	4	111	NON
10/15/2022	EGT-28	EF	UPC	49	16,134	NON
10/15/2022	MLK-16	EF	UPC	52	16,563	NON
10/16/2022	MLK-16	UN	UGF	37	7,270	NON
10/18/2022	EGT-28	TV	OSV	1	20	NON
10/18/2022	EVE-23	BA	UOT	78	2,756	NON
10/18/2022	FAC-12	EF	UHH	6	257	NON
10/19/2022	HAZ-13	SO	USV	9	737	NON
10/19/2022	LHL-22	EF	OPO	5	1,229	NON
10/19/2022	MLK-16	EF	UPC	3	1,359	NON
10/19/2022	MLK-16	EF	UPC	1	119	NON
10/20/2022	HOU-23	SO	UGV	21	1,727	NON
10/21/2022	GOO-21	EF	UPC	5	2,631	NON
10/22/2022	ARD-13	CE	UEL	825	183,135	NON
10/22/2022	ARD-13	EF	UPS	861	162,264	NON
10/22/2022	ARD-13	EF	UEL	-	8	NON
10/22/2022	HAZ-13	EF	USV	1	760	NON
10/23/2022	GOO-13	TV	OCO	34	31,215	NON
10/23/2022	MLK-13	EF	OTR	7	2,257	NON
10/24/2022	EGT-28	SO	OPO	8	1,936	NON
10/24/2022	MLK-12	EF	UFJ	36	5,857	NON
10/24/2022	NRU-26	SO		2	614	NON
10/25/2022	EGT-25	TV	OCO	836	65,654	NON
10/25/2022	KWH-25	TV	OCO	85	28,649	NON
10/25/2022	MED-36	CP	UPT	21	1,665	NON
10/26/2022	EGT-25	TV	OSV	1	181	NON
10/26/2022	MLK-12	EF	UEL	66	10,678	NON
10/27/2022	GOO-13	TV	OCO	34	20,167	NON
10/27/2022	HAZ-13	TV	OCO	78	7,379	NON
10/27/2022	LOC-33	SO	ACE	11	631	NON
10/27/2022	LOC-33	SO	ACE	18	167	NON
10/27/2022	MLK-12	EF	UEL	4	269	NON
10/27/2022	MLK-15	SO	ACE	6	438	NON
10/27/2022	NRU-25	EF	UPC	7	692	NON
10/27/2022	PHA-17	BA	OTF	4	300	NON
10/27/2022	ROS-17	EF	UHH	3	153	NON
10/28/2022	BTR-22	SO	OPO	7	2,175	NON
10/28/2022	OVE-15	EF	UTR	1	223	NON
10/28/2022	PHA-13	TV	OTF	4	693	NON
10/28/2022	PHA-16	EF	OTR	4	156	NON
10/28/2022	SBE-26	EF	UPC	11	2,137	NON
10/28/2022	SBE-26	EF	OPO	272	30,328	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
10/29/2022	NRU-25	EF	OTR	1	142	NON
10/30/2022	EGT-16	CP	OTR	7	6,525	NON
10/30/2022	EGT-25	TV	OTF	1	230	NON
10/30/2022	SOM-16	EF	UPC	205	34,580	NON
10/31/2022	BTR-22	TV	OFU	9	303	NON
10/31/2022	FAC-12	DU	UPC	51	5,923	NON
10/31/2022	FAC-13	EF	UOT	5	2,474	NON
10/31/2022	HAZ-12	EF	OCN	1	160	NON
10/31/2022	NRU-25	TV	OCO	132	6,101	NON
10/31/2022	OVE-12	EF	OTF	3	412	NON
10/31/2022	PHA-13	UN	OTR	4	482	NON
10/31/2022	PHA-16	BA	UGF	44	5,066	NON
10/31/2022	SOM-13	TV	OCO	2	1,009	NON
11/1/2022	LOC-22	EF	OTF	11	914	NON
11/2/2022	FAC-23	SO		1	627	NON
11/2/2022	NRU-27	EF	UTR	1	338	NON
11/3/2022	HAZ-13	EF	USV	5	2,216	NON
11/3/2022	MLK-15	SO	UEL	32	7,175	NON
11/3/2022	SBE-23	SO	UTC	13	100	NON
11/4/2022	EGT-11	TV	OCO	3,874	712,202	MEJ
11/4/2022	EVE-23	TV	OFU	3	284	MEN
11/4/2022	FAC-25	TV	OCO	427	276,761	MEJ
11/4/2022	HAZ-12	EF	OFU	141	40,877	MEN
11/4/2022	LHL-22	TV	OCO	99	99,373	MEJ
11/4/2022	NRU-25	TV	OFU	54	100,564	MEJ
11/4/2022	PHA-16	TV	OCO	1,382	149,576	MEN
11/5/2022	EGT-25	TV	OCO	1	338	MEJ
11/5/2022	FAC-25	TV	OTR	1	1,765	MEJ
11/5/2022	FAC-25	TV	OCO	84	47,535	MEJ
11/5/2022	KWH-26	TV	OTF	3	3,436	MEJ
11/7/2022	BTR-22	TV	OFU	1	247	NMJ
11/7/2022	FAC-12	EF	USV	1	407	NMJ
11/7/2022	KWH-23	EF	USV	1	721	NMJ
11/7/2022	NOB-24	EF	OTR	1	4,569	NMJ
11/8/2022	EGT-28	EF	USV	1	225	NMJ
11/8/2022	LOC-35	EF	UVS	21	1,658	NON
11/8/2022	LOC-35	EF	UVS	21	1,392	NON
11/9/2022	KWH-23	EF	USV	1	86	NMJ
11/9/2022	PHA-17	EF	UHH	1	537	NMJ
11/10/2022	PHA-16	EF	OSV	1	136	NON
11/10/2022	SOM-16	EF	USV	1	162	NON
11/11/2022	SOM-16	BA	UTC	84	6,850	NON
11/13/2022	EVE-23	EF	OFU	4	324	NON
11/13/2022	SOM-15	EF	SCB	1,744	203,931	NON
11/14/2022	OVE-15	SO	OFU	1	15	NON
11/14/2022	SBE-26	BA	UOT	80	13,671	NON
11/14/2022	SBE-26	BA	UOT	30	2,043	NON
11/14/2022	SOM-13	EF	USV	1	445	NON
11/14/2022	SOM-16	CP	OCE	1	110	NON
11/15/2022	COL-26	AV	UPT	13	1,063	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
11/16/2022	NOB-11	SO	UEL	1	50	NON
11/17/2022	EGT-28	SO	UEL	5	412	NON
11/17/2022	FAC-12	EF	USC	1	592	NON
11/17/2022	HOU-25	TV	OFU	4	740	NON
11/18/2022	EVE-23	SO	UPT	2	362	NON
11/18/2022	SOM-16	SO	OTF	12	2,102	NON
11/19/2022	LOC-22	SO		4	264	NON
11/19/2022	LOC-33	SO	UEL	2	157	NON
11/21/2022	HOU-23	SO	OPO	5	1,627	NON
11/21/2022	NRU-26	SO	UEL	11	747	NON
11/21/2022	PHA-17	EF	OTR	10	2,088	NON
11/21/2022	SBE-26	BA	OTR	8	362	NON
11/23/2022	HOU-25	TV	OFU	4	162	NON
11/23/2022	OVE-15	EF	UHH	3	123	NON
11/23/2022	PHA-17	OD	OTF	10	844	NON
11/24/2022	PHA-16	BA	OTF	7	552	NON
11/25/2022	CLY-23	EF	UEL	8	804	NON
11/26/2022	BTR-22	TV	OCO	11	1,592	NON
11/27/2022	HAZ-13	EF	OTF	3	324	NON
11/28/2022	ROS-17	EF	USV	1	139	NON
11/29/2022	ARD-15	CP	UPT	1	98	MEN
11/29/2022	BTR-21	TV	OCO	42	44,510	MEJ
11/29/2022	SBE-26	TV	OCO	1	460	MEN
11/29/2022	SBE-26	SO	OPO	2	457	MEN
11/30/2022	BTR-22	TV	OCO	1	1,297	MEJ
11/30/2022	BTR-22	TV	OTF	4	3,420	MEJ
11/30/2022	BTR-22	TV	OCO	117	57,697	MEJ
11/30/2022	CLY-23	TV	OCO	541	459,339	MEJ
11/30/2022	LHL-22	TV	OSV	1	864	MEJ
11/30/2022	LHL-22	TV	OTF	6	4,538	MEJ
11/30/2022	NRU-23	TV	OCO	3	4,055	MEJ
11/30/2022	NRU-25	TV	OTF	2	1,132	MEJ
11/30/2022	PHA-17	TV	OCO	329	286,691	MEJ
11/30/2022	ROS-17	TV	OCO	6	2,199	MEJ
11/30/2022	SBE-26	TV	OFU	15	2,655	MEJ
11/30/2022	SOM-13	TV	OCO	10	13,283	MEJ
12/1/2022	NRU-23	EF	UTR	2	1,526	NMJ
12/1/2022	SBE-26	TV	OCO	19	8,921	NMJ
12/2/2022	CLY-26	EF	OCN	1	697	NMJ
12/3/2022	EVE-23	TV	OCO	1	1,467	MEN
12/3/2022	NRU-23	TV	OCO	23	14,664	MEN
12/3/2022	ROS-17	TV	OCO	213	147,468	MEN
12/3/2022	SOM-13	TV	OCO	5	7,538	MEN
12/3/2022	SOM-13	TV	OFU	4	1,640	MEN
12/4/2022	LHL-25	EF	USV	1	1,621	NON
12/5/2022	EGT-25	EF	UPC	58	7,526	NON
12/5/2022	LHL-26	EF	UHH	3	133	NON
12/6/2022	NRU-25			8	23,410	NON
12/6/2022	NRU-25	EF	OJU	67	17,680	NON
12/7/2022	CLY-25	SO	OPO	14	3,905	NON

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
12/9/2022	BTR-22	TV	OCO	11	1,219	NON
12/9/2022	KWH-25	TV	OTR	11	9,448	NON
12/9/2022	MLK-16	SO	UHH	1	5,727	NON
12/10/2022	SOM-17	EF	OPO	31	6,733	NON
12/10/2022	SOM-17	EF	OPO	-	5,351	NON
12/11/2022	MLK-16	EF	UEL	78	14,397	NON
12/11/2022	NRU-25	EF	OTR	3	784	NON
12/11/2022	PHA-17	TV	OTF	10	521	NON
12/12/2022	FAC-12	EF	UHH	8	709	NON
12/12/2022	LHL-23	SO	OPO	15	3,005	NON
12/12/2022	LHL-25	EF	UHH	1	41	NON
12/14/2022	NRU-25	SO	OPO	6	671	NON
12/15/2022	COL-26	EF	OCN	1	80	NON
12/15/2022	SBE-25	SO	UGV	128	9,353	NON
12/18/2022	BTR-21	EF	OTF	2	175	NON
12/18/2022	PHA-13	EF	OFU	145	16,136	NON
12/19/2022	MLK-15	EF	OFU	16	4,459	NON
12/20/2022	EGT-11	EF	UPC	80	10,214	NON
12/20/2022	LHL-25	EF	OSV	1	98	NON
12/21/2022	CLY-27	TV	OCO	4	1,960	NON
12/21/2022	FAC-12	EF	USV	1	112	NON
12/21/2022	PHA-17	SO	OPO	8	453	NON
12/22/2022	EGT-28	EF	USV	1	3,723	NON
12/22/2022	SOM-16	EF	UPT	5	2,007	NON
12/23/2022	FAC-12	EF	USV	1	2,971	MEN
12/24/2022	BTR-21		OPO	5	4,907	NMJ
12/24/2022	OVE-15	EF	UHH	-	3,379	NMJ
12/25/2022	EGT-11	EF	USV	1	428	NMJ
12/25/2022	SBE-26	TV	OPO	109	228,184	NMJ
12/26/2022	BTR-22	TV	OFU	16	16,019	MEJ
12/26/2022	COL-26	TV	USV	13	186	MEJ
12/26/2022	EGT-11	EF	OPO	1,246	581,131	MEJ
12/26/2022	EVE-23	TV	OCO	395	136,268	MEJ
12/26/2022	HAZ-13	TV	OCO	2	2,595	MEJ
12/26/2022	HOU-23	TV	OFU	8	9,243	MEJ
12/26/2022	KWH-25	TV	OCO	1,666	814,152	MEJ
12/26/2022	MED-36	TV	OCO	50	14,217	MEJ
12/26/2022	NOB-24	TV	OCO	50	33,802	MEJ
12/26/2022	OVE-12	2 TV	OCO	587	255,932	MEJ
12/26/2022	OVE-15	2 TV	OCO	754	328,744	MEJ
12/26/2022	SBE-25	TV	OCO	13	7,612	MEJ
12/27/2022	OVE-12	TV	OTF	3	345	MEJ
12/27/2022	SBE-25	TV	OCO	37	31,165	MEJ
12/27/2022	SBE-26	EF	UPT	1	468	MEJ
12/28/2022	EGT-28	TV	OCO	1	152	NMJ
12/28/2022	EVE-23	EF	OPO	1	400	NMJ
12/28/2022	KWH-25	EF	OCO	3	40	NMJ
12/28/2022	NRU-23	EF	USV	1	139	NMJ
12/28/2022	NRU-27	EF	UPC	67	8,029	NMJ
12/28/2022	SBE-26	TV	OTF	3	476	NMJ

DATE	CIRCUIT	CAUSE	EQUIPMENT	CUSTOMERS OUT	CUSTOMER MINUTES	STORM CODE
12/29/2022	SOM-16	EF	USV	1	369	NON
12/29/2022	SOM-17	EF	OSV	1	162	NON
12/30/2022	NOB-24	TV	OSV	1	306	NON

Totals				51,691	13,639,385	
	Substation and transmission outages			9,110	4,129,175	
	Totals excluding substation & transmission outages			42,581	9,510,210	
	Scheduled outages			1,723	346,447	

Notes:

- 1 Storm, tree limb in terminations took out sub
- 2 Storm, tree in transmission line

Storm Codes:

- MEJ Not included in SAIDI or SAIFI calculations
- MEN Not included in SAIDI calculation, included in SAIFI calculation
- NMJ Included in SAIDI calculation, not included in SAIFI calculation
- NON Included in SAIDI & SAIFI calculations

2022 RELIABILITY REPORT CODES LEGEND

DISTRIBUTION SUBSTATION CODES	OUTAGE CAUSE CODES
ARD ARDMORE (REDMOND) BTR BRIDLE TRAILS CEN CENTER CLY CLYDE HILL COL COLLEGE EGT EASTGATE EVE EVERGREEN (REDMOND) FAC FACTORIA GOO GOODES CORNER (ISSAQUAH) HAZ HAZELWOOD (NEWCASTLE) HOU HOUGHTON (KIRKLAND) KWH KENILWORTH (REDMOND) LHL LAKE HILLS LOC LOCHLEVEN MED MEDINA (MEDINA) MLK MIDLAKES NOB NORTH BELLEVUE NRU NORTHRUP OVE OVERLAKE (MEDINA) PHA PHANTOM LAKE ROS ROSE HILL (REDMOND) SBE SOUTH BELLEVUE SOM SOMERSET	AC ACCIDENT AO ACCIDENT OTHER, WITH FIRES AV ACCIDENT/VANDALISM NOT RESULTING IN DC BA BIRD OR ANIMAL CE CUSTOMER EQUIPMENT CP CAR POLE DU DIG UP UNDERGROUND EF EQUIPMENT FAILURE EO ELECTRICAL OVERLOAD EQ EARTHQUAKE FI FAULTY INSTALLATION LI LIGHTNING ND NATURAL DISASTER OD OUTSIDE DISTURBANCE OE OPERATING ERROR PO PARTIAL OUTAGE SO SCHEDULED OUTAGE TF TREE - OFF RIGHT OF WAY TO TREE - ON RIGHT OF WAY TV TREE - RIGHT OF WAY UNKNOWN UII USER - IMPROPER INSTALLATION UN UNKNOWN CAUSE VA VANDALISM
	STORM CODES
	MEJ IEEE MED & MAJOR STORM MEN IEEE MED but NON STORM NMJ NON IEEE MED but MAJOR STORM NON NON IEEE MED & NON STORM
EQUIPMENT CODES	EQUIPMENT CODES
ACE ALL CUSTOMER EQUIPMENT ARR SURGE ARRESTER CC CAPACITOR CAN CDH CONDUCTOR DOWN & HOT CFD CAPACITOR BANK FUSED DISCONNECT CHG CHARGER CON CONNECTIONS CTX TRANSFORMER INSTRUMENT (CURRENT) DNO DID NOT OPERATE ELT ELBOW - TRANSFORMER ERC RECLOSER CONTROLLER FCC FUSE - CAPACITOR CAN FHV FUSE - HIGH VOLTAGE (POWER) FLV FUSE - LOW VOLTAGE (CONTROL) GAR GUY ANCHOR ROD GCB GAS CIRCUIT BREAKER (POWER) INS INSULATOR LTC LOAD TAP CHANGER MAN MANUAL OPERATION MOT MOTOR OPERATOR MTR METER OAL OVERHEAD AREA LIGHT OAN OVERHEAD ANCHOR OAR OVERHEAD ARRESTER OAT OVERHEAD AUTO TRANSFORMER (EDOT110) OCA OVERHEAD CAPACITOR (EDOC100) OCB CIRCUIT BREAKER (POWER) - OIL OCE CUSTOMER EQUIPMENT OCN OVERHEAD SECONDARY CONNECTOR OCO OVERHEAD CONDUCTOR OCR OVERHEAD CROSSARM OFC OVERHEAD CUT-OUT OFI OVERHEAD FAULT INDICATOR OFL OVERHEAD FLOOD LIGHT OFS OVERHEAD FIRE SIGNAL OFU OVERHEAD LINE FUSE / FUSE LINK OGD OVERHEAD DOWN GUY OGS OVERHEAD SPAN GUY OHR OVERHEAD RECLOSER (EDOR100) OHS OVERHEAD SECTIONALIZER (EDOX100) OIN OVERHEAD INSULATOR OJU OVERHEAD JUMPER WIRE OMP OVERHEAD METER POINT (EDOM100) ONI OVERHEAD NEUTRAL ISOLATOR OPB OVERHEAD POLE BRACE (EDOP110) OPI OVERHEAD INSULATOR PIN OPO OVERHEAD POLE (EDOP100) OPS OVERHEAD POLE STUB (EDOP120) ORE OVERHEAD REGULATOR (EDOG100) OSL OVERHEAD STREET LIGHT (EDOL100) OSP OVERHEAD SPLICE PRIMARY OSS OVERHEAD SCHOOL SIGNAL OST OVERHEAD STEP TRANSFORMER (EDOT110) OSV OVERHEAD SERVICE OSW OVERHEAD SWITCH (EDOS100) OTF OVERHEAD TRANSFORMER FUSE OTH OVERHEAD OTHER	OTR OVERHEAD TRANSFORMER OTS OVERHEAD TRAFFIC CONTROL SIGNAL OUP OVERHEAD TO UNDERGROUND OUS HOT OUS OVERHEAD TO PED DISCONNECT PEDESTAL PFT PADMOUNT FAST TRANSFORMER (EDUT130) PMF PADMOUNT SWITCH FUSE PMJ PADMOUNT J-BOX PMP PADMOUNT METER POINT (EDUM100) PST PADMOUNT STEP TRNSFORMER (EDUT120) PTF PADMOUNT TRANSFORMER FUSE PTX PADMOUNT TRANSFORMER INSTRUMENT RLE RELAY - ELECTROMECHANICAL RLM RELAY - MICROPROCESSOR RLS RELAY - SOLID STATE SCB POWER CIRCUIT BREAKER SCS CIRCUIT SWITCHER SPT STATION POWER TRANSFORMER SRG STATION REGULATOR SWC SWITCH - CAPACITOR BANK SWD SWITCH - DISTRIBUTION DISCONNECT SWT SWITCH - TRANSMISSION TER TERMINATION (POWER CABLE) UCU UNDERGROUND COMMUNICATION CABLE UDC UNDERGROUND DUST CAP UEL UNDERGROUND ELBOW UFE UNDERGROUND FUSED ELBOW UFI UNDERGROUND FAULT INDICATOR UFJ UNDERGROUND J-BOX UFO UNDERGROUND FIBER OPTICS UFS UNDERGROUND FIRE SIGNAL UGF UNDERGROUND SUBMERSIBLE FUSE UGV UNDERGROUND VAULT UHH UNDERGROUND HANDHOLE - SECONDARY UHM UNDERGROUND HAMMERHEADS UIC UNDERGROUND INDOOR STRESS CONE UJU UNDERGROUND PRIMARY JUMPER UMP UNDERGROUND SUBMERSIBLE METER POINT UNK UNDERGROUND UNKNOWN UOT UNDERGROUND OUTDOOR TERMINATION UPC UNDERGROUND PRIMARY CABLE UPH UNDERGROUND PADMOUNT PHASE SHIFTER UPS UNDERGROUND PADMOUNT SWITCH (EDUS100) UPT UNDERGROUND PADMOUNT TRANSFORMER USC UNDERGROUND SECONDARY CABLE USE UNDERGROUND SECONDARY CONNECT USP UNDERGROUND PRIMARY SPLICE USS UNDERGROUND SCHOOL SIGNAL USV UNDERGROUND SERVICE UTC UNDERGROUND TERMINAL FUSE UTF UNDERGROUND SUBMERSIBLE TRA UTR UNDERGROUND SUBMERSIBLE TRANSFORMER UTS UNDERGROUND TRAFFIC CONTROL SIGNAL UUS UNDERGROUND SUBMERSIBLE UVS UNDERGROUND VISTA SWITCH VCB VACUUM CIRCUIT BREAKER (POWER) XFR TRANSFORMER - UNKNOWN TYPE XRT NEUTRAL REACTOR XSS TRANSFORMER - STATION SERVICE

2022 Service Quality Report Card

Each year Puget Sound Energy measures service-quality benchmarks established in cooperation with the Washington Utilities and Transportation Commission (UTC), the Public Counsel Unit of the Attorney General's Office, and other parties. These benchmarks ensure we are satisfying customer expectations, providing reliable service, and keeping customers safe. Failure to achieve these service-quality measurements would put us at risk of a penalty of up to \$12 million.

Key Measurement	Benchmark	2022 Performance	Achieved
Customer Satisfaction			
Percent of customers satisfied with our Customer Care Center services, based on survey	At least 90 percent	94 percent	✓
Percent of customers satisfied with field services, based on survey	At least 90 percent	97 percent	✓
Number of complaints to the UTC per 1,000 customers, per year	Less than 0.40	0.14	✓
Customer Services			
Percent of calls answered live within 60 seconds by our Customer Care Center	At least 80 percent	69 percent	
Operations Services			
Frequency of non-major-storm power outages, per year, per customer	Less than 1.30 outages	1.06 outages	✓
Length of power outages per year, per customer	Less than 2 hours, 35 minutes	3 hours, 1 minutes	
Time from customer call to arrival of field technicians in response to electric system emergencies	No more than 55 minutes	54 minutes	✓
Time from customer call to arrival of field technicians in response to natural gas emergencies	No more than 55 minutes	34 minutes	✓
Percent of service appointments kept	At least 92 percent	99 percent	✓

2022 Performance Highlights

We met seven of the nine service-quality measurements (see chart above) and improved our performance for three measurements: percent of customers satisfied with field services, based on survey; frequency of non-major-storm power outages, per year, per customer; and time from customer call to arrival of field technicians in response to electric system emergencies. We did not meet the benchmarks for percent of calls answered live within 60 seconds by our Customer Care Center and length of power outages per year, per customer.

The key causes of missing the benchmark for the percent of calls answered live within 60 seconds include resource constraints, technology issues, and increased call volumes due to winter weather events and the annual purchased gas rate adjustments. The penalty for not meeting the benchmark is \$742,500. PSE will contribute the entire \$742,500 to its electric and natural gas Schedule 129 energy bill assistance programs as additional funding to the programs.

While the length of power outages per year, per customer decreased in 2022 compared to 2021, weather events in January, November, and December of 2022 were significant contributors to the annual performance not meeting the benchmark. There is no performance penalty associated with the measurement, but we give customers a \$50 account credit when we don't restore the customer's power within 24 consecutive hours during a non-major-storm power outage.

In addition to committing to the nine service-quality measures, we have three service guarantees to our customers:

- Keeping scheduled appointments.
- If your power is out for 120 consecutive hours or longer during any power outage.
- If your power is out for 24 consecutive hours or longer during a non-major-storm power outage.

If we fail to meet any of these guarantees, we credit your bill \$50, conditions apply, and customer action required. Learn more at pse.com/pages/customer-service-guarantees or 1-888-225-5773.

In 2022, PSE paid \$17,400 for missing 348 of the total 31,538 service guaranteed appointments. We provided 303 customers with a \$50 credit for not restoring electric service within 24 consecutive hours during certain non-major-storm power outages. There were no customer claims issued on restoring electric service within 120 consecutive hours during any power outage.

Every day our employees aim to provide safe, dependable, and efficient service to meet your expectations.