

**Report to the Washington Utilities and Transportation Commission**

**Electric Service Reliability - Major Event Report**

Event Date: April 11-12, 2022  
Date Submitted: May 5, 2023  
Primary Affected Locations: Sunnyside and Yakima  
Primary Cause: Storm  
Exclude from Reporting Status: Yes  
Report Prepared by: April Brewer/Tia Solis  
Report Approved by: Kevin Benson

**Event Description and Restoration Summary**

<b>Event Outage Summary</b>	
<b># Interruptions (sustained)</b>	70
<b>Total Customers Interrupted (sustained)</b>	8,727
<b>Total Customer Minutes Lost</b>	1,493,591
<b>State Event SAIDI</b>	10.83 Minutes
<b>CAIDI</b>	171
<b>Major Event Start</b>	4/11/22 4:38 AM
<b>Major Event End</b>	4/12/22 3:56 AM

On the morning of April 11, 2022, a storm bringing high winds and snow began affecting services in the Yakima and Sunnyside service areas. During the event, 70 sustained outages across the two service territories affecting more than 8,700 customers. Over the course of the morning, the outages continued to grow, where in the first six hours of the event 35 separate outage events were recorded, affecting 2,792 customers.

During the event, six contract crews were brought in to assist with the restoration process. The crews found damaged equipment and pole fires due to the heavy accumulation of wet snow. Repairs included putting conductors back up, tightening sag, replacing damaged transformers and crossarms, patrolling lines, and re-energizing once it was verified no addition line damage occurred. In addition to the high volume of outage events spread across the two districts crews experienced low visibility due to heavy rain and snow, often traveling on roads covered with high water and slick wet snow. These factors slowed restoration times as crew located damaged equipment which often affected several portions of the circuit.

During the major event 91% of all customer minutes lost and 94% of all customers out were the result of damaged equipment which resulted from wind, heavy rain, and snow. As evidenced by the large volume of customers out in combination with the small accumulation of customer

minutes lost, crews focused restoration activities on restoring outages which impacted larger numbers of customers and then addressed the outages which occurred downstream of those larger events. Sustained outages durations during the major event ranged from 17 minutes to 21 hours 14 minutes with an average restoration duration of seven hours and 39 minutes. The map in figure 1 shows the duration and location of customer outages during the event period.

To date, there have been no commission or company complaints concerning this major event.

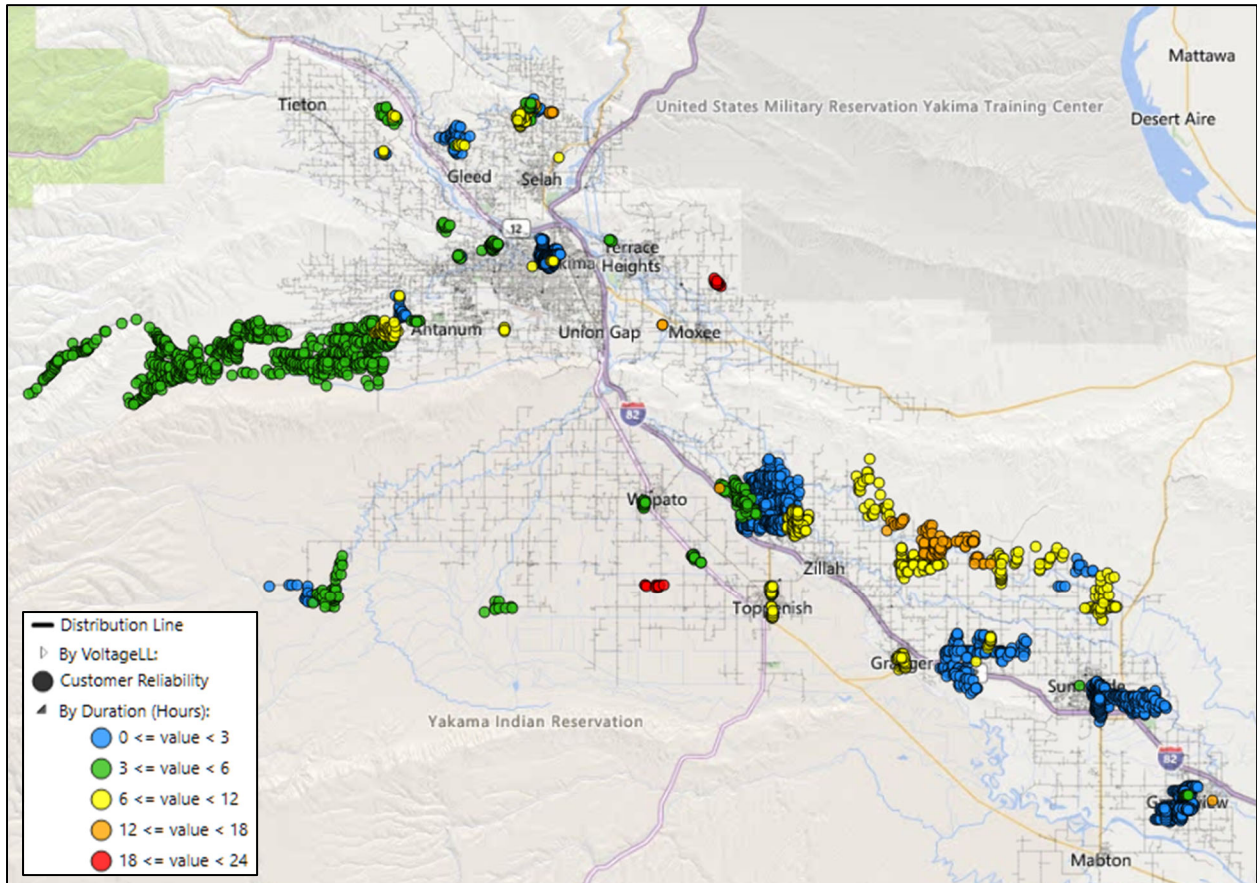


Figure 1. Major event outages.

### Restoration Intervals

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24-48 Hrs.
<b>8,727</b>	5,891	2,836	0

## Restoration Resources <sup>1</sup>

Personnel Resources			
Internal local crew members	19	Tree crewman	3
Internal local crew members	36	Warehouseman	4
# Support staff	5	<b>Total</b>	<b>67</b>

Resources			
Distribution Poles	11	Conductor line ft	2,690
Transformers	18	Crossarms	27
Insulators	123	Cutouts	53
Line fuses	107	Line Splices	311
Guy Wire	250	Pole Top Extensions	12

## State Estimated Major Event Costs

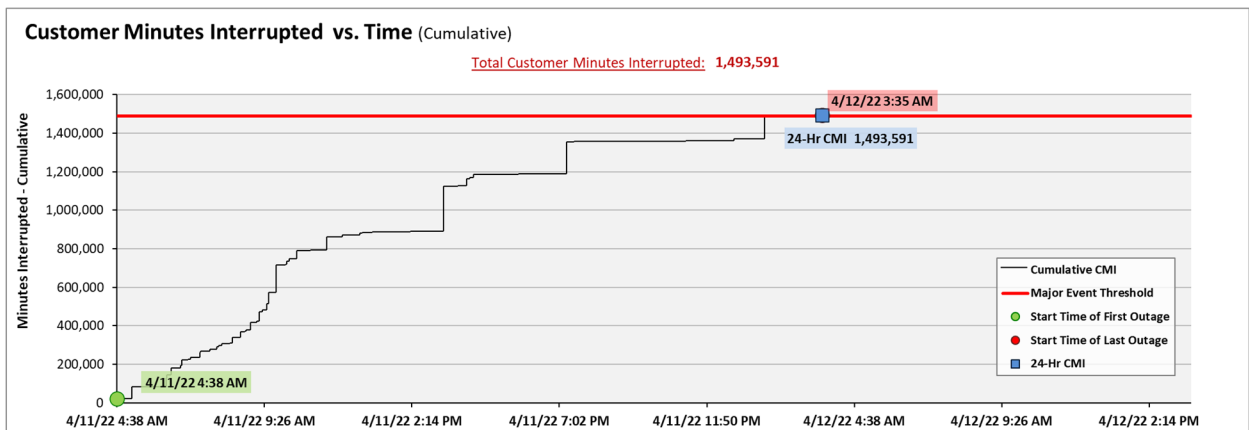
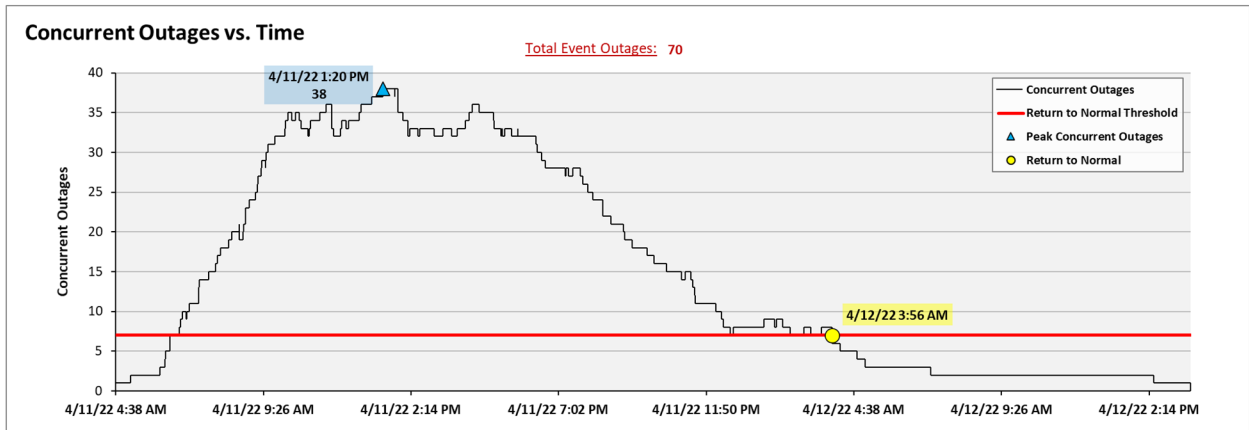
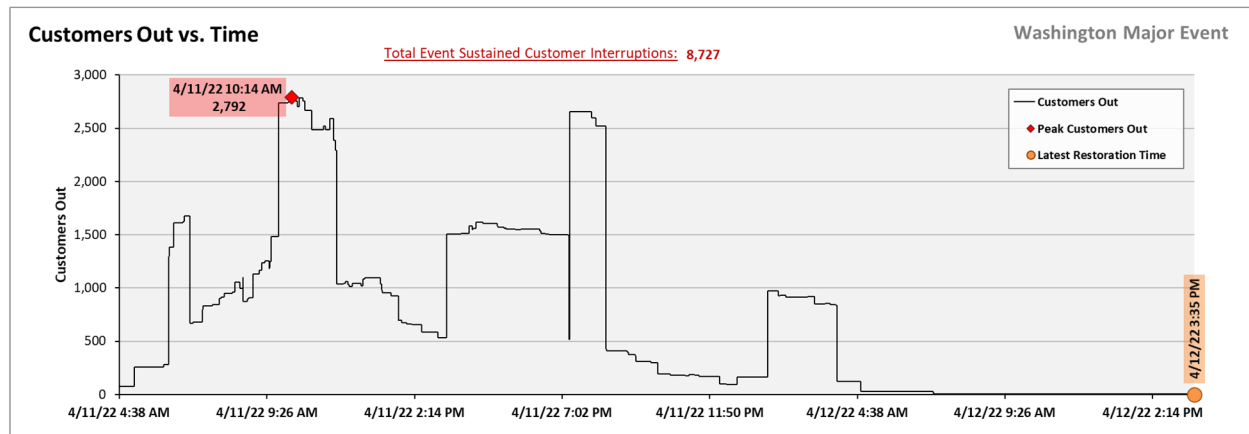
Estimate \$	Labor	Contracts	Materials	Overhead	Total
<b>Capital</b>	\$61,746	\$94,887	\$63,462	\$14,466	<b>\$234,561</b>
<b>Expense</b>	\$76,887	\$76,069	\$25,953	\$6,712	<b>\$185,621</b>
<b>Total</b>	<b>\$138,632</b>	<b>\$170,957</b>	<b>\$89,414</b>	<b>\$21,178</b>	<b>\$420,181</b>

## Major Event Declaration

Pacific Power is requesting designation of this event and its consequences to be classified as a “Major Event” for exclusion from network performance reporting with the IEEE 1366-2003/2012. This major event exceeded the company’s 2022 Washington threshold of 1,488,172 customer minutes lost (10.8 state SAIDI minutes) in a 24-hour period.

<sup>1</sup> Data provided represents specific system records for personnel, resources, and costs; and is specific to the event, not inclusive of state delineation. However additional resources whose participation did not get individually captured in transaction recording systems may have been utilized during the event, thus the data presented here effectively understates the resources, including cost, involved in restoring the system to normal.

# Event Detail



## SAIDI, SAIFI, CAIDI by Reliability Reporting Region

Please see the attached system-generated reports.