

Skamania PUD #1 Accomplishments for 2018

Operations

2,743 feet of overhead cable was installed.

32,892 feet of underground cable was installed.

Tree Trimming was accomplished for 80 miles of the PUD's right of ways.

Brush clearing was accomplished for 4 miles of the PUD's right of ways.

The PUD and our subcontractors sprayed over 7 miles of right of way brush under the power lines.

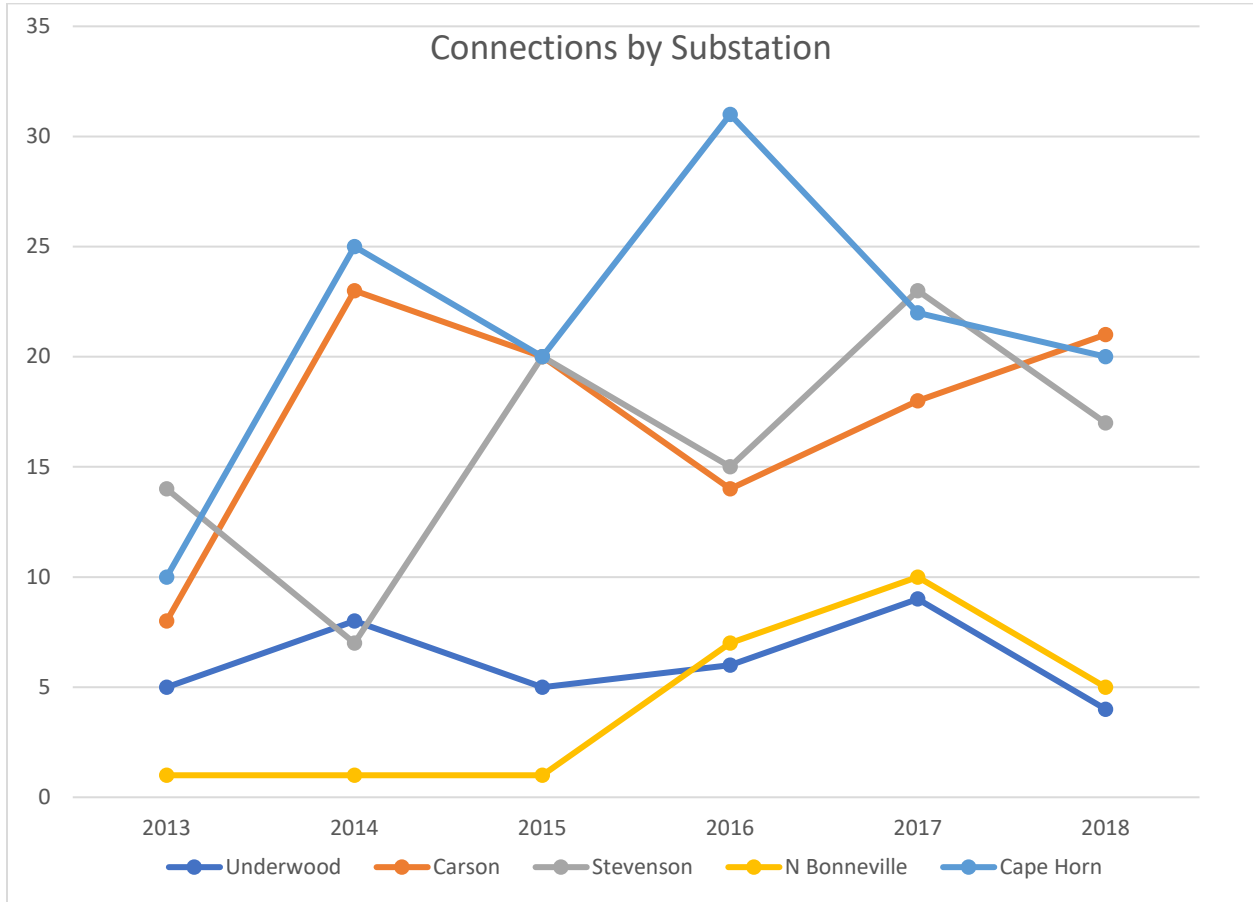
The PUD replaced 170 poles.

The Skamania PUD is investing in these upgrades because of the outages we have seen during these last few years. Our cables both overhead and underground are aging. The vegetation along our right of ways keeps growing; and birds and squirrels keep on getting onto our conductors.

This table shows the outages we have seen thru the middle of December for this year:

Outage Frequency by Cause		
		YTD
Equipment	Over head	37
Equipment	Underground	28
Lightning		2
Power Supply		0
Public		9
Vegetation		46
Weather		1
Wildlife		18
Unknown		9

Growth



Substations						
	Underwood	Carson	Stevenson	N Bonneville	Cape Horn	Total
2013	5	8	14	1	10	38
2014	8	23	7	1	25	64
2015	5	20	20	1	20	66
2016	6	14	15	7	31	73
2017	9	18	23	10	22	82
ytd 2018	4	21	17	5	20	67
Total	37	104	96	25	128	

Projects

Electrical

Carson substation upgrade. A new transformer and associated switch gear have been installed in the expanded Carson substation. The old transformer was rated at 15 MVA, the new unit is rated at 20 MVA. The old transformer is nearing the end of its life and the increase in capacity should address growth in the Wind River Valley for the foreseeable future.

As a portion of the overall planned Wind River Highway reconductor project, 2 miles of #2/0 ACSR Copper were upgraded to 795 KCM ACSR. Because of the new heavier conductors, 50 poles were replaced. As future loads develop more of the old conductors and the poles will be upgraded.

The PUD will be installing new 333 KVA regulators along the Wind River Highway project and replacing a bank of 114 kVA regulators with 333 kVA regulators.

With this portion of the reconductoring and the upgrading of these two sets of regulators an additional 2.5 MVA of power will be available in Stabler. When the load need develops the rest of the reconductoring can be accomplished to bring the total additional capacity for Stabler to 6 MVA.

A portion of BPA energy conservation funds are being used to help pay for more efficient transformers, conductors, regulators, etc.

Water

The Brooks water tank located in Carson is a key component in the Carson water system. It allows for 400,000 gallons of storage and increases the water pressure thereby supporting firefighting capabilities. A portion this project was the upgrading of the monitoring systems. Until these upgrades the Skamania PUD water technicians had to drive to the water treatment site and take manual readings of the system. Now monitoring is done continuously, and the results are available to the PUD on our computers and hand-held devices saving time and allowing for a better level of service to the Carson water system customers.

Redwood PRV in Carson project was built this year. It was installed on the Carson water system to reduce the pressure in the water lines as the piping system went downhill to the south side of Carson.

The Shepard tank and pumping station in Underwood is being replaced with a new and upgraded tank, pumping station, water treatment system and monitoring system that will enable the water technicians to remotely monitor the system. The old system was at its end of life and is vital in keeping the Underwood water system operational.

Administration

Your Skamania PUD #1 had a clean audit by the Washington State Auditors this year. Every year the State of Washington Auditors come to the Skamania PUD and conduct an onsite audit of our business and accounting practices to confirm that the PUD is conducting business properly according to Washington State regulations.

Public Records have become a real issue in the recent past for many governmental agencies. The Skamania PUD was fortunate to obtain a grant from Washington state to develop better storage of our documents, cataloging of documents we need to keep, and training temporary help to go through the documents that have been kept for all these years. Many of the records are kept on site, some are transferred to the Washington State archives, and what we are not obliged to maintain are properly disposed.

Used truck savings. Rather than buying a brand new \$300,000+ digger derrick truck, the PUD's mechanics spent 6 months following various auctions around the country until they found a truck for sale in Arizona that we successfully bid on and purchased for \$45,000. Tyler Turrietta, our new mechanic, flew down to pick it up and drove it back to Carson. It was upgraded with \$10,000 in additions and is in use.

New Employees

Tyler Turrietta joined the PUD as the new mechanic who is replacing the current mechanic who is retiring. Tyler is a very experienced mechanic with ASE certifications under his belt and a high level of experience in Altec systems.

Alex Delarosa joined the PUD as our meter reader replacing Nate Dales who moved to the tree crew, after Bobby O'Neal moved from the tree crew to begin his apprenticeship training as a lineman. Alex, Nate, and Bobby are all local residents with many years in the county.