



“Reinventing & Transforming the Energy System”
Alder Commons Hall Auditorium
at the University of Washington
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Speaker: Louis Tibbs, PE and Senior Engineer, Puget Sound Energy

Title: *Case Study:* Inglewood Distribution Automation

Abstract: One application of distribution automation (DA) is the use of automated software to reconfigure the distribution system after protective devices have cleared and isolated a fault. The software takes in fault data and device status from the feeder breaker relays, reclosers and other smart switching devices on multiple feeders. Using this information, the distribution system is typically restored in a different protection configuration than the initial system.



This paper and presentation goes into the challenges encountered and possible solutions in dealing with multiple feeder sources in a radially fed distribution system. These challenges include maintaining protection standards and margins, load limits, protection setting groups, and utilizing aging infrastructure and relays in automation schemes.

Bio: Louis Tibbs, PE, received his B.S. degree in electrical engineering from Washington State University in 2008. Upon graduation, he joined the substation engineering group at Puget Sound Energy in Bellevue, WA. He has spent the past 9 years serving in a variety of roles including substation design, substation controls and system protection. He has extensive experience with distribution protection system, reclosers, switchgear, and distribution automation schemes. He is the recipient of the 2014 Outstanding Young Engineer Award from IEEE Power and Energy Society, Seattle Chapter. He is also the class instructor for the 4th year substation wireman apprenticeship program at Puget Sound Energy. Mr. Tibbs is a registered professional engineer in the state of Washington.