Speaker Information



Murray Mueller is the Director of Operations Systems for the Alberta Electric Systems Operator (AESO). He has worked in the electrical industry over 30 years, primarily in the operations area. From the Field to the Control room, he learns something new every day

- Responsible for a 5-year plan which provides the direction of the investment needed to sustain and enhance our Energy Management System (EMS) and Market Systems
- This includes a 5-year rolling investment plan which will deliberately capture the investment required to sustain and enhance our existing systems, as well as explore new technologies to effectively meet AESO's mandate across the entire electricity value chain.
- PMU's Alberta is mandated across all renewable connections with only a limited number used by Operators

AESO PMU Information

Synchrophasor measurement data collection is required for net new generation connection projects. Where operational reliability criteria is met data is streamed directly to the AESO in addition to being locally stored.

- Utilizes the GE's Phasorpoint Wide Area Monitoring System (WAMS) software suite
- Collecting streaming data from 104 PMUs via Alberta Grid Operations WAN and WISP WAN networks
- Currently PMU data is not integrated into our EMS power system network applications, Phasor analytics in the 2023
- PMU data is integrated as additional information on our Vision Geographic display
- System controller console access for Phasorpoint awareness tools
- Dedicated display for System controllers on islanding awareness
- PMU servers fall under CIP V5





