

Monday May 4th Plenary Talk
8:15 -9:15 AM

Large Wind Integration Challenges and Solutions for Operations and System Reliability



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ABSTRACT: Bonneville Power Administration is experiencing an unprecedented growth of wind generation resources in its Balancing Authority Area. In order to accommodate the amount of wind that is planned, BPA has had to create new processes in order to limit the amount of balancing resources being used due to the variation of wind. The calculation of the balancing resource requirements and the resulting short-term solutions will be discussed, then the presentation will evolve to the solutions that are being worked on in BPA and across the industry, including multiple national labs, to mitigate the effects of variable generation on an interconnection.

Biographical Information on Mr. McManus

Obtained BSEE degree from University of Washington in 1993. I have worked at Bonneville Power Administration from 1994 through present. First programmed than was put in charge of the Automatic Generation Control system for BPA. For the past three years, I have been the technical lead on integrating wind resources into the BPA Balancing Authority Area and overcoming the issues that large penetration levels of variable resources bring to a Balancing Authority.