



Workshop on Frequency Response of High PV U.S. Interconnection Grids

Overview

This workshop on Frequency Response of High PV U.S. Interconnection Grids will take place at 2-6pm on March 21, 2019 (In conjunction with the [ESIG 2019 Spring Technical Workshop](#)) at the [Hyatt Regency Tamaya Resort & Spa](#) in Albuquerque, NM.

Photovoltaic (PV) penetration is increasing rapidly in U.S. interconnection grids. However, most PV power plants usually can not provide “frequency regulation” service similar to that of synchronous generators. The U.S. Department of Energy Solar Energy Technologies Office sponsored a team led by Oak Ridge National Lab to conduct a study entitled “Frequency Response Assessment and Improvement of Three Major North American Interconnections due to High Penetrations of Photovoltaic Generation” to address the frequency stability issue for future high solar electric grids. This workshop will pull together experts on renewable integration across the country to discuss the results of this project, and importantly, to identify future R&D needs on frequency stability and other issues of high PV penetration power grids.

Agenda

March 21, 2019

- 2:00 PM Introduction
- 2:10 PM Presentation on high renewable model development and frequency response assessment
- 2:30 PM Discussion
- 2:50 PM Presentation on inverters in grid frequency improvement
- 3:10 PM Discussion
- 3:30 PM Break
- 3:50 PM EPRI Results on High Percentages of Inverters (EPRI)
- 4:10 PM Discussion
- 4:30 PM Recommendation for future studies
- 5:30PM Adjourn