

BIO –

James T. Reilly, principal of Reilly Associates, is an independent consultant in the electric power industry in the U.S. and internationally. He has completed numerous projects and workshops in smart grid and microgrids for clients in North America, Japan, and Europe.

Jim provides consulting services to the U.S. Department of Energy Office of Electricity on programs for grid modernization, microgrids, and resiliency. As such he works closely with national laboratories, most particularly Argonne National Laboratory, Lawrence Berkeley National Laboratory and MIT-Lincoln Labs.

Jim is a technical advisor to Argonne National Laboratory, NREL and EPRI on the *Structuring DMS and Controller Interactive Demonstration Project* and Lawrence Berkeley National Laboratory for the *Distribution System Locational Performance Integrated Model Project*. He works closely with Argonne National Laboratory on the *Framework for Resilient Grid Operations*, supporting initiatives with NERC and the ISOs.

Jim provides consulting services to NIST for its *Smart Grid Interoperability Test Bed* and the lead for the NIST /SGIP Priority Action Plan #24 *Microgrid Operational Interfaces*.

Jim is a member of the working groups for standards for the interconnection and interoperability of distributed energy resources (IEEE P1547-REV), interoperability of storage with distribution systems (IEEE P2030.2), and microgrid controller specifications and testing (IEEE P2030.7/8).

Jim initiated the process for developing use cases for microgrid demonstration projects in the U.S. and Japan. These use cases provide descriptions and technical detail on cooperative control among microgrid energy management systems (μ EMS) and distribution management systems (DMS). He is a member of the Technical Advisory Group for the FOA 997 project on Microgrid Research, Development, and System Design.

The author of numerous articles and research studies, Jim is a contributor to the report *The Advanced Microgrid, Integration and Interoperability*, released by Sandia National Laboratories in March 2014 and co-author of *The Sendai Microgrid Operational Experience in the Aftermath of the Tohoku Earthquake: A Case Study*. He is the author of the *NEMA Microgrid Primer* (January 2016). Recently, he co-authored *Overview of Microgrid Controller Initiatives by the DOE* for the IEEE Power & Energy July/August 2017.

Jim regularly interfaces with stakeholders in the regulatory, industry, and the research communities, and is a frequent speaker at workshops and conferences in the U.S. and internationally. He is a Senior Member, IEEE PES and a member of CIGRÉ and IEC TC8. He holds degrees from Georgetown University and Columbia University.