



Microgrids and Energy Storage for Emergency Grid Resilience Webinar Series

Session 5: Microgrids & Energy Storage for Emergency Grid Resilience Policy and Regulatory Topics

Friday, December 10, 2021
10:00 AM to 12:10 PM (CT)

Presented by:
U.S. DOE Office of Electricity Energy Storage Program,
Iowa State University Electric Power Research Center,
and Sandia National Laboratories

As extreme weather events and other potential disruptions to the electric grid increase in frequency, the need for new technologies and approaches for providing resilience in the grid increase as well. This five-session series will explore technologies, policies, economics, applications, and case studies associated with microgrids and battery energy storage as options to help emergency management agencies provide greater electricity resilience across the states in FEMA Regions 5 (IL, IN, MI, MN, OH, WI) & 7 (IA, KS, MO, NE).

Agenda

December 10, 2021 - Microgrids & ES for Emergency Grid Resilience Policy and Regulatory Topics

10:00 - 10:10	Introductory Remarks Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program
10:10 - 10:30	Public Service Commission of Wisconsin Case Study Megan Levy, Resilience Strategist, Energy Emergency Assurance Coordinator Wisconsin Office of Energy Innovation
10:30 - 10:50	FERC Order 2222 Will McNamara, Sandia National Laboratories
10:50 - 11:00	Discussion/Q&A
11:00 - 11:30	Microgrids for Resilience Kirsten Verclas, Managing Director, National Association of State Energy Officials (NASEO) Kiera Zitelman, Technical Manager, Center for Partnerships & Innovation National Association of Regulatory Utility Commissioners (NARUC)
11:30 - 11:50	Mobile Microgrids for Disaster Recovery Dr. Anne Kimber, Executive Director, Iowa State University Electric Power Research Center
11:50 - 12:00	Discussion/Q&A
12:00 - 12:10	Closing Remarks Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program



Speaker Biographies



Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program

After taking a B.S. from Fordham University, Dr. Imre Gyuk did graduate work at Brown University on Superconductivity. Having received a Ph.D. in Theoretical Particle Physics from Purdue University he became a Research Associate at Syracuse. As an Assistant Professor he taught Physics, Civil Engineering, and Environmental Architecture at the University of Wisconsin. Dr. Gyuk became an Associate Professor in the Department of Physics at Kuwait University where he became interested in issues of sustainability. Dr. Gyuk joined the Department of Energy to manage the Thermal and Physical Storage program. For the past two decades he has directed the Electrical Energy Storage research program in the Office of Electricity, developing a wide portfolio of storage technologies for a broad spectrum of applications. He supervised the \$185M ARRA stimulus funding for Grid Scale Energy Storage Demonstrations and is now partnering with the States on numerous storage projects for grid resilience. His work has led to 12 R&D 100 awards, two EPA Green Chemistry Challenge Awards, and Lifetime Achievement Awards from ESA and NAATBatt. He is internationally recognized as a leader in the energy storage field.



Megan Levy, Resilience Strategist, Energy Emergency Assurance Coordinator Wisconsin Office of Energy Innovation

A graduate of the University of Wisconsin, Madison; Megan has spent more than a decade working with building energy efficiency both with the low-income weatherization program and with the Wisconsin State Energy Office (now known as the Wisconsin Office of Energy Innovation). Megan is currently the Energy Emergency Assurance Coordinator for the state and also oversees the Energy Independent Communities program which counts more than 147 communities as members. Megan designed and is the manager of the Municipal Energy Efficiency Technical Assistance Program (MEETAP) in which the Energy Office provides expertise to municipalities, tribes, and schools across the state to facilitate successful energy efficiency projects. Formerly a member of the Board of Directors, Megan serves on the Midwest Renewable Energy Association Advisory Board (www.midwestrenew.org). In August of 2017, Megan was named Co-Chair of the National Association of State Energy Officials Energy Security Committee. A chanteuse for the last 20 years, Megan performs jazz, jump blues, and swing all over Wisconsin under the moniker [Madison Red, with her four piece band](#).



Will McNamara, Sandia National Laboratories

Will McNamara serves as Grid Energy Storage Policy Analyst for Sandia National Laboratories with a focus on energy storage policy development at the federal and state levels. Will has spent his entire 23-year career in the energy and utilities industry with a concentration on regulatory and legislative policy. He has served as a lobbyist in California and has represented major utilities across the U.S. in numerous jurisdictions in proceedings pertaining to integrated resource planning, procurement, cost recovery, rate design, and the development of policymaking best practices. Will's areas of subject matter expertise, in addition to energy storage policy, include distributed energy resources, AMI/smart grid, renewables, and competitive retail markets.



Kirsten Verclas, Managing Director, National Association of State Energy Officials (NASEO)

Kirsten Verclas leads NASEO's electricity program, which informs and educates the states on a wide variety of issues including grid modernization, energy security planning, microgrids and renewable energy, and cybersecurity. Prior to NASEO, Ms. Verclas was an ORISE Science and Technology Policy Fellow at the U.S. Department of Energy, where she worked on clean energy, state and local energy policy, cybersecurity issues and emergency response. She also served as a Program Manager in the International Department of the National Association of Regulatory Utility Commissioners (NARUC) working on regulatory partnerships in Africa, as well as a Senior Program Manager at the American Institute for Contemporary German Studies (AICGS) at Johns Hopkins University. Ms. Verclas has written extensively on energy and climate as well as security policy in the transatlantic context. She holds a Bachelor of Arts in International Relations from Franklin and Marshall College, a Master of Arts in International Relations from The George Washington University, and a Master of Science in Energy Policy and Climate from Johns Hopkins University.



Kiera Zitelman, Technical Manager, Center for Partnerships and Innovation, National Association of Regulatory Utility Commissioners (NARUC)

Kiera Zitelman, Technical Manager at the Center for Partnerships and Innovation at the National Association of Regulatory Utility Commissioners (NARUC), manages cooperative agreements with the U.S. Department of Energy on coal and carbon capture; nuclear energy; natural gas; and microgrids. She develops technical assistance for State public utility commissions across these topical areas, coordinating webinars, briefing papers, trainings, workshops, and other resources. Prior to joining NARUC, Kiera was an analyst with ICF, providing regulatory support, research, and economic analysis to federal rulemaking efforts. Kiera has a Master's degree in Public Policy from Georgetown University and a Bachelor's degree from the University of Maryland.



Dr. Anne Kimber, Executive Director, Iowa State University Electric Power Research Center

As Director of the Electric Power Research Center (EPRC) at Iowa State University I work with ISU power program faculty research teams and industry partners to build collaborations that advance education and research in electric power systems. Together we work to solve the most challenging problems of the electric grid, from development of better tools for customer-side energy efficiency, demand-response and AMI analysis, to projects that include energy storage integration at multiple scales ranging from microgrid development to large scale co-optimized grid expansion planning. EPRC's industry members jointly select and fund projects of common interest to the group, and also participate in ISU DOE and NSF grants, as well as in grants from non-profits and state agencies. Before joining ISU in 2014, I worked for over 14 years with Iowa municipal electric, gas and water utilities at the Iowa Association of Municipal Utilities.