

# WI PSC/DOE ENERGY STORAGE WEBINAR SERIES:

## Introduction to Energy Storage

April 28, 2021 10:00 AM - 12:30 PM (CT)

Agenda & Speaker Biographies

Presented by Public Service Commission of Wisconsin,  
U.S. DOE Office of Electricity Energy Storage Program,  
and Sandia National Labs

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Meeting will be open ½ hour early so you can test your connections

Energy storage is the key to unleashing the power of renewables, relieving generation, transmission, and distribution demands, and hastening the energy transition to a decarbonized future. Public Service Commission of Wisconsin Commissioners and Staff are invited to participate in a series of energy storage webinars presented in collaboration with US DOE Office of Electricity Energy Storage Program and Sandia National Laboratories. Experts from the national labs, regional agencies and other organizations and institutions will provide content, with time for discussion and questions.

#### April 28, 2021 - Introduction to Energy Storage

10:00 - 10:15	Welcome & Introductions Rebecca Valcq, Chairperson, Public Service Commission of Wisconsin
10:15 - 10:30	Introduction Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program
10:30 - 11:00	Overview of State & Federal ES Policy and Deployments Across the U.S. Will McNamara, Sandia National Laboratories (SNL)
11:00 - 11:15	Q&A / Discussion
11:15 - 11:45	Intro to ES Technologies Dr. Howard Passell, Sandia National Laboratories (SNL)
11:45 - 12:15	Intro to ES Economics Dr. Di Wu, Pacific Northwest National Laboratory (PNNL)
12:15 - 12:30	Q&A / Discussion



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## Speaker Biographies



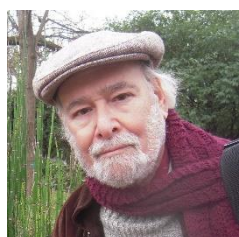
Rebecca Cameron Valcq was appointed by Governor Tony Evers as Commissioner at the Public Service Commission of Wisconsin for a six-year term beginning on January 7, 2019. Governor Evers also appointed her as Commission Chairperson for a two-year term effective March 2, 2019.

Prior to her appointments, Becky was a partner at Quarles & Brady, LLP in the Energy, Environment and Natural Resources practice group. Previous to that position, she was regulatory counsel for Wisconsin Electric Power Company where she advised management on all areas of regulatory law in multiple jurisdictions as well as compliance matters.

She is a member of the National Association of Regulatory Utility Commissioners and serves on the Committee on Water and the Subcommittee on Supplier and Workforce Diversity. She serves on the board of directors for the Organization of MISO States.

Becky earned her undergraduate degree from Drake University and her law degree from Marquette University. She was named a “40 Under 40” by the Milwaukee Business Journal in 2013 and received a Girl Scout Leadership G.I.R.L. award in 2019. She is a member of TEMPO Milwaukee and has served on a number of non-profit boards of directors including Centro Legal, Cristo Rey Jesuit High School, Hispanic Professionals of Greater Milwaukee and the Girl Scouts of Wisconsin Southeast. She was a member of United Way’s Teenage Pregnancy Prevention Committee as well as Marquette University Law School’s Diversity Recruitment Committee.

She resides in Whitefish Bay, Wisconsin with her husband Rob and their two daughters.



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.



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.



Howard Passell works in the Energy Storage Systems Department at Sandia National Laboratories (SNL) in Albuquerque, New Mexico. His work focuses on energy storage, grid modernization, energy security, and decarbonization. Over 23 years at Sandia he has worked on energy and water resource monitoring, modeling, management, capacity building, and policy-related projects at various scales in the US, Central Asia, the Middle East, and North Africa. This included helping to lead Sandia's efforts in DOE's Solar America Cities initiative and developing energy conservation software and methodology for large institutions. He has worked on emerging national security issues associated with energy, water, food, ecosystems, and population, with an emphasis on the relationships between resource scarcity and human security. He earned master's and doctorate degrees in conservation biology and hydrogeocology at the University of New Mexico. His undergraduate studies were in classical literature and the liberal arts at St. John's College in Santa Fe, NM and the Ohio State University in Columbus, Ohio.



Di Wu is a Chief Research Engineer and a Team Leader within the Optimization and Control Group at the Pacific Northwest National Laboratory (PNNL). He received the B.S. and M.S. degrees in electrical engineering from Shanghai Jiao Tong University, China, in 2003 and 2006, respectively, and the Ph.D. in electrical and computer engineering from Iowa State University, Ames, in 2012. At PNNL, Dr. Wu leads research work in areas of energy storage analytics, building-to-grid integration, and microgrid design. His other research interests include plug-in electric vehicles, distributed control, production cost modeling, advanced grid analytics, and hybrid energy systems. Dr. Wu is a Senior Member of IEEE and a member of the IEEE Power and Energy Society and the Control System Society. He serves as an Editor for the IEEE Open Access Journal of Power and Energy.



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