

WI PSC/DOE ENERGY STORAGE WEBINAR SERIES:

Programs, Policies, and Carbon Impacts

May 26, 2021 10:00 AM - 12:00 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.

May 26, 2021 - Programs, Policies, and Carbon Impacts

10:00 - 10:10	Introductory Comments Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program
10:10 - 10:40	California's Self-Generation Incentive Program (SGIP) Brian Bishop, Pacific Gas & Electric (PG&E)
10:40 - 11:10	Getting GHGs Out of ES with Watt Time Gavin McCormick, WattTime
11:10 - 11:20	Q&A/Discussion
11:20 - 11:50	Dual Use Policy – ES for Transmission and Market Services Jeremy Twitchell, Pacific Northwest National Laboratory (PNNL)
11:50 - 12:00	Q&A/Discussion



U.S. DEPARTMENT OF
ENERGY



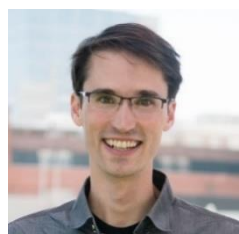
Speaker Biographies



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.



Brian Bishop has been with PG&E for 8 years managing the California Solar Initiative Thermal Program, as a Principal on the Public Safety Power Shutoff PMO team, and leading the Self-Generation Incentive Program. Under Brian's leadership SGIP has evolved from a focus on generation to a focus on overburdened communities, greenhouse gas emission reduction, wildfire mitigation and resiliency. Before joining PG&E Brian spent many years in the solar industry deploying residential solar projects on the west coast. Brian has a 'green' MBA, a MA in Environmental Science and Geography, and is from Albany-Berkeley CA.



Gavin McCormick is Executive Director of WattTime, a nonprofit devoted to enabling IoT devices to time their electricity use to cleaner moments. While a PhD student in energy econometrics at UC Berkeley, Gavin invented the first algorithms to empirically detect electricity marginal emissions in real time, making Automated Emissions Reduction (AER) technology possible. He also serves as the electricity lead for Climate TRACE, a coalition of environmental groups applying artificial intelligence to satellite imagery to monitor global GHG emissions from space. Gavin has been named a Grist 50 "Fixer", Echoing Green Fellow, Draper Richard Kaplan entrepreneur, Fast Forward Fellow, and Keeling Curve Prize winner. He previously worked at the US Pacific Northwest National Lab and NERA Economic Consulting, and is a graduate of Williams College.



Jeremy Twitchell is an energy research analyst at the Pacific Northwest National Laboratory, where he leads the equitable regulatory environment area of the PNNL Energy Storage Program and assists in distribution system planning research. In those roles, he is responsible for reaching out to states to provide technical assistance in analyzing energy storage and other developing energy resources and incorporating them into utility planning and procurement activities. Prior to joining PNNL, Jeremy spent five years at the Washington Utilities and Transportation Commission, where he was the staff lead for the development of policies associated with the treatment of energy storage in utility resource planning and rulemaking. His work has supported integrated resource planning, which included development of a distribution planning rule. He participated in multiple utility advisory groups on energy efficiency and resource planning, provided expert testimony in the areas of rate design and resource acquisition, and oversaw renewable resource portfolio standard compliance. He also testified before the Washington State Legislature and prepared a report to the Legislature on best practices in distribution system planning. He has presented on the topics of energy storage, renewable resource portfolio standards, and renewable resource integration at regional, national, and international conferences.