

# NECPUC/DOE/SNL/PNNL ENERGY STORAGE WEBINAR SERIES:

## Decarbonization and Energy Storage

April 2, 2021 12:00 PM – 2:00 PM (ET)

Agenda & Speaker Biographies

Presented by New England Conference of Public Utilities Commissioners,  
U.S. DOE Office of Electricity Energy Storage Program,  
Sandia National Labs, Pacific Northwest National Lab, and Clean Energy States Alliance

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

Energy storage is a key ingredient in helping the region meet our energy goals. Storage can play an important role in unleashing the power of renewables, relieving generation, transmission, and distribution demands, and hastening our energy transition to a cleaner future. To further our knowledge and share information, NECPUC 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, Sandia National Laboratories, and Pacific Northwest National Laboratory. Experts from the national labs, regional agencies and other organizations and institutions will provide content, with time for discussion and questions.

### April 2, 2021 – Decarbonization and Energy Storage

12:00 – 12:10	Introduction Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage (ES) Program
12:10 – 12:50	Decarbonization, ES, and Electrification Jamil Farbes, Evolved Energy
12:50 – 1:00	Q&A/Discussion
1:00 – 1:45	CA Self Generation Incentive Program, Watt Time, and Getting GHGs out of ES Brian Bishop, Pacific Gas & Electric (PG&E) Gavin McCormick, WattTime
1:45 – 2:00	Q&A/Discussion



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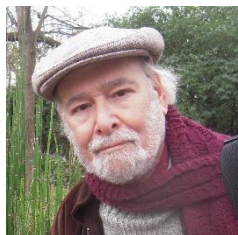


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## Speaker Biographies



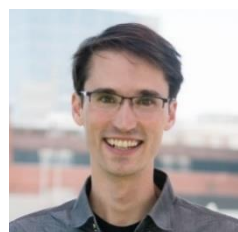
After taking a B.S. from Fordham University, Dr. Imre Gyuk did graduate work at Brown University on Superconductivity. Having received a Ph.D. in Theoretical Particle Physics from Purdue University he became a Research Associate at Syracuse. As an Assistant Professor he taught Physics, Civil Engineering, 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.



Jamil Farbes is a principal at Evolved Energy Research. He has a breadth of experience and expertise in energy system long-term planning, strategic electric portfolio development, and wholesale market design enabling new products and services. His work has centered around informing decision-making and strategy based on insights developed from deep, rigorous analysis of energy systems that drive at understanding the most critical dimensions of complex problems. Jamil's range of experience in the electricity industry — working for and with regulators, utilities, and consultancies — coupled with his analytical toolkit enables him to help clients navigate the many institutional and policy barriers on the path to deep decarbonization. He holds a master's in Energy and Resources from U.C. Berkeley and a bachelor's degree in biochemical sciences from Harvard University.



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.



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