

# 2020-21 NM ENERGY STORAGE WORKSHOP SERIES:

## ENERGY STORAGE FOR MEETING PEAK LOAD

### NOV. 10, 2020 AGENDA / SPEAKER BIOS / WEBINAR LINK

Presented by DOE Office of Electricity Energy Storage Program,  
in collaboration with the New Mexico Public Regulation Commission and Sandia National Laboratories

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The Energy Transition Act of NM (NM ETA) requires the state's retail electricity sales to be carbon free by 2050. The New Mexico Public Regulation Commission (NM PRC) began meeting that objective recently when it unanimously approved a plan to replace the coal-fired San Juan Generating Station near Farmington, N.M., with 650 MW of photovoltaics (PV) and 300 MW of energy storage by 2022. These brief webinars will explore the energy storage and other technologies, and policies associated with them, necessary to achieve the NM ETA objectives, and to help inform regulators and policy makers, utilities, industry, and the public on the pathways to meeting them.

### November 10, 2020 - Energy Storage for Meeting Peak Load

10:00 – 10:10	<b>Webinar Introduction</b> Stephen Fischmann, Chair, NM Public Regulatory Commission
10:10 – 10:20	<b>Opening Comments</b> Dr. Imre Gyuk, Director, DOE Office of Electricity Energy Storage Program
10:20 – 10:45	<b>Energy Storage for Meeting Peak Load in California</b> Angie Gould, Energy Research and Development Division, California Energy Commission
10:45 – 10:55	<b>Q&amp;A/Discussion</b>
10:55 – 11:20	<b>Storage Options for Meeting Peak Load in Nevada</b> Roger "Hal" Halbakken, NV Energy Renewables & Origination Department
11:20 – 11:25	<b>Q&amp;A/Discussion</b>
11:25 – 11:45	<b>Policy Issues for Using Energy Storage for Peak Load in New Mexico</b> Will McNamara, Sandia National Laboratories
11:45 – Noon	<b>Q&amp;A/Discussion</b>



Steve Fischmann joined the New Mexico PRC as District 5 Commissioner in January 2019 and became Chair of the Commission in 2020. He represents the southwest quarter of the state. Steve is passionate about providing consumers the lowest possible utility costs while transitioning as rapidly as possible to a clean, carbon free energy environment. He sums it up this way: "We are fortunate to live in times when renewable energy is often the cheapest energy and new technologies are expanding our capabilities each and every year. There is no more exciting place to be than the PRC for advancing our economy and the unfolding energy revolution." Steve has a history of public service since moving to New Mexico in 2004. Most recently he co-chaired a coalition that successfully passed legislation to eliminate or put interest cap limits on rip off small loans. He also co-founded the Children's Reading Foundation of Dona Ana County to promote early childhood literacy and served on the board of Conservation Voters New Mexico, a leading environmental advocacy group at the New Mexico Legislature. As a State Senator from 2009-2012, Steve developed and successfully sponsored legislation requiring prompt no cost/low cost delivery of state and local government records to any citizen requesting them. He successfully sponsored legislation promoting greater collaboration between Universities, state government and private enterprise in developing new technologies to spur our economy. Steve also chaired the legislative Science and Technology Committee where he developed strong expertise in energy policy.



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 Award, and Lifetime Achievement Awards from ESA and NAATBatt. He is internationally recognized as a leader in the energy storage field.



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## NOVEMBER 10, 2020 - SPEAKERS, CONTINUED

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Angie Gould serves as the technical lead for the Renewable Integration unit of the California Energy Commission's Energy Research and Development Division. Her team focuses on advancing technologies and strategies that optimize higher penetrations of renewable generation and accelerate adoption of integrated distributed energy resources and electrification. Their research portfolio includes solar and storage projects at both the building- and community-scale that provide customer bill savings while reducing evening peak and providing other electricity grid benefits.



Roger "Hal" Halbakken began his career in the utility industry operating and leading the operations at power plants, from a lignite fired Circulating Fluid Bed Facility, Petroleum Coke Facility and then into Natural gas units, both older steam generating units to modern Combined Cycle plants. He then moved into Portfolio Optimization and Portfolio Analytics, becoming Manager of the Optimization and Analytics team in 2013, where he worked on ensuring the least cost optimization of resources was used to serve system load, as well as used to make economic transactions in the bilateral market as well as California Energy Imbalance Market ("EIM"). Hal then moved into the Renewables team in early 2018, where he has assisted in the contracting of 2,191 MW nameplate of Photovoltaic solar and 690 MW Nameplate of Battery Energy Storage – some of the largest procurements of any utility in North America. Among these procurements, 1,190 MW of the PV solar will be dispatchable, expected to be some of the largest dispatchable solar facilities in the world. Hal believe customers deserve the lowest cost, most reliable energy, which is trending towards renewable generation now.



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.