



January 2024 Edition

IN THE NEWS

CARL IMHOFF, ELECTRICITY INFRASTRUCTURE

MANAGER, TO RETIRE FROM PNNL

PNNL's Carl Imhoff, who has been at PNNL for 44 years, has announced his plans to retire later this year. He currently serves as PNNL's Electricity Infrastructure Manager, where he has championed for U.S. grid modernization through programs like the Pacific Northwest Smart Grid Demonstration and the DOE's Grid Modernization Laboratory Consortium. In 2019, he appeared before the U.S. Senate to talk about the consortium's work, and in 2021 he was recognized as a Grid Innovator by industry association GridForward.

"During his time at PNNL, Carl earned the respect of his colleagues, not only here at the Lab, but throughout DOE, the national lab system, utilities, and industry," said Jud Virden, Associate Lab Director, Energy and Environment Directorate, PNNL. "Please join me in wishing Carl well as he looks forward to this next phase of his life."



HYDROGEN SAFETY RESOURCES TAKE CENTER STAGE

The Department of Energy (DOE) Hydrogen and Fuel Cells Technology Office's Hydrogen Safety Panel, led by PNNL, is entering its 20th year. The panel serves as a trusted resource for best practices for hydrogen energy and provides services from pre-project training to on-site evaluations. [Read more about the](#)

panel in this story.



PNNL RESEARCHER DISCUSSES DECARBONIZATION,

DIVERSIFICATION, AND DIGITALIZATION AT POWER SYSTEMS TECHNOLOGY MAGAZINE PANEL

PNNL's Kevin Schneider, Lab Fellow and manager of PNNL's Office of Electricity subsector, recently joined the "Green Energy: An Evolution, not a Revolution" panel hosted by *Power Systems Technology* magazine to discuss with other experts how the investments from the Inflation Reduction Act and Infrastructure Act are enabling the U.S. to modernize their energy grid and reduce or eliminate reliance on fossil fuels. [View the panel here.](#)

The graphic features a dark grey background with a subtle wavy pattern. At the top left, the text "Green Energy: An Evolution, not a Revolution" is displayed in white. To the right is the "POWER PANELS" logo, which includes a circular icon with three dots and the text "POWER PANELS". Below the title, there are two time-related icons: a calendar icon followed by "23rd January, 2024" and a clock icon followed by "11:00 am EST". Underneath these, three circular portraits of the speakers are shown. From left to right: Dr. Denis Phares (Dragonfly CEO), Bud Collins (AESI CEO), and Kevin Schneider (Pacific Northwest PNNL's Office of Electricity Program Manager). Each portrait has a small caption below it. To the right of the speakers, the text "Sponsored by:" is followed by the "dragonfly" logo, which consists of a green stylized dragonfly icon above the word "dragonfly" in a lowercase sans-serif font.

Green Energy:
An Evolution, not a Revolution

23rd January, 2024 11:00 am EST

Dr. Denis Phares
Dragonfly
CEO

Bud Collins
AESI
CEO

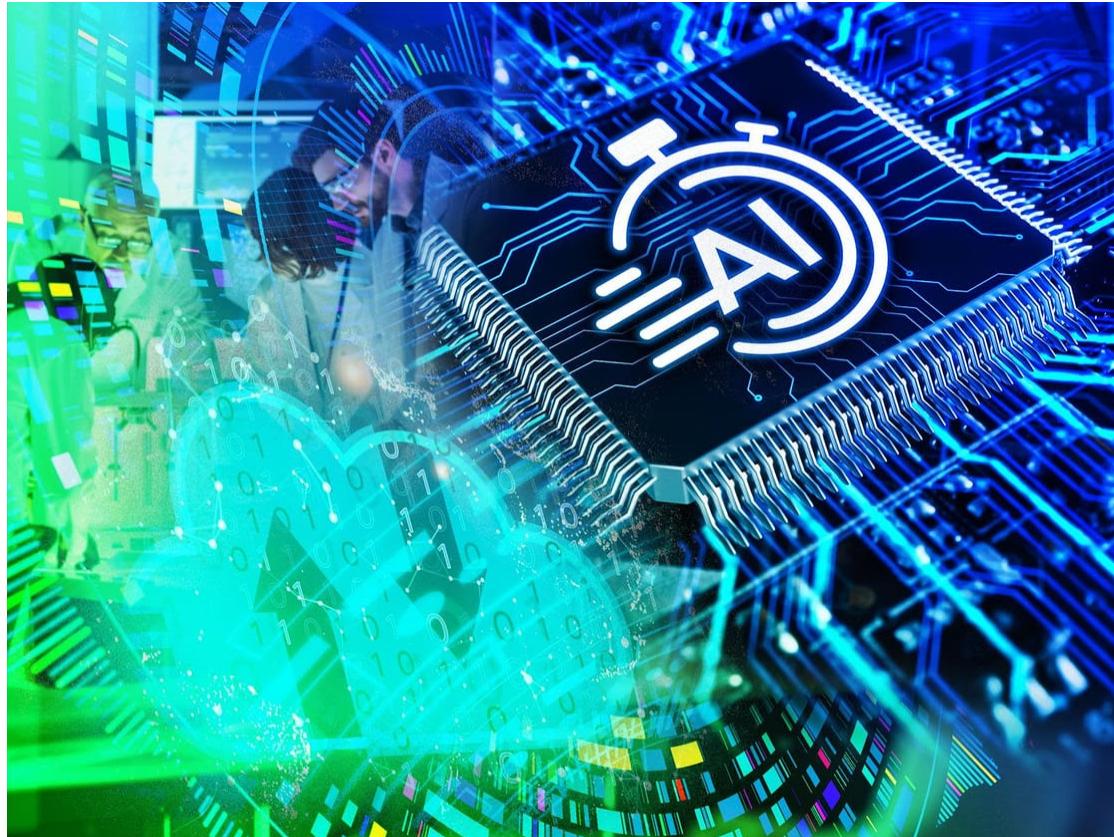
Kevin Schneider
Pacific Northwest
PNNL's Office of Electricity Program Manager

Sponsored by:

dragonfly®

PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL) KICKS OFF MULTI-YEAR ENERGY STORAGE, SCIENTIFIC DISCOVERY COLLABORATION WITH MICROSOFT

PNNL is teaming with Microsoft to use high-performance computing in the cloud and advanced artificial intelligence to accelerate scientific discovery on a scale not previously demonstrated. The initial focus of the partnership is chemistry and materials science, and PNNL researchers are currently testing the ability of Microsoft's Azure Quantum Elements platform to identify promising new materials for energy applications. [Read more here.](#)



UPCOMING EVENTS

ENERGY TRANSITION SUMMIT – AGENDA NOW AVAILABLE!



The banner features a dark blue background with a city skyline at night. A yellow diagonal line divides the banner into two sections. The top section is for the Grid Modernization Initiative, and the bottom section is for Clean Energy Cybersecurity.

ENERGY TRANSITION SUMMIT

Grid Modernization Initiative
Creating the modern grid of the future
Feb. 6-8, 2024

Clean Energy Cybersecurity
Fostering collaborative security solutions
Feb. 5-8, 2024

Crystal Gateway Marriott
1700 Richmond Hwy, Arlington, VA 22202

U.S. DEPARTMENT OF
ENERGY

Led and hosted by the U.S. Department of Energy Grid Modernization Initiative and the Office of Cybersecurity, Energy Security, and Emergency Response.

The DOE Grid Modernization Initiative and Office of Cybersecurity, Energy Security, and Emergency Response are excited to host the Energy Transition Summit: Grid Modernization Initiative and Clean Energy Cybersecurity in Arlington, Virginia, Feb. 5 - 8, 2024.

The event will feature keynote speakers from Congress, the White House Office of the National Cyber Director, the White House Office of Science and Technology

Policy, and DOE leadership.

Tuesday's plenary sessions will include the following speakers:

DOE's Vision for a Modern Grid

- Sue Tierney, Board of Directors Chair, Resources for the Future
- Gene Rodrigues, Assistant Secretary for Electricity of the DOE Office of Electricity
- Jeff Marootian, Principal Deputy Assistant Secretary of the DOE Office of Energy Efficiency and Renewable Energy
- Brad Crabtree, Assistant Secretary for the DOE Office of Fossil Energy and Carbon Management
- Maria Robinson, Director of the DOE Grid Deployment Office
- Puesh Kumar, Director of the DOE Office of Cybersecurity, Energy Security and Emergency Response

Market Solutions to Advance the Grid Transition

- Shalanda Baker, Director of the DOE Office of Economic Impact and Diversity
- Marissa Hummon, Chief Technology Officer, Utilidata
- John Franzino, Founder & Chief Executive Officer, GridSecurity, Inc.
- Frank Prager, Senior Vice President of Strategy, Planning & External Affairs at Xcel Energy
- Lidiya Sekaric, Vice President of Innovation and Emerging Technologies at NRECA
- Colette Honorable, Executive Vice President, Public Policy and Chief External Affairs Officer, Exelon Corporation

The agenda for the event is now available [here](#).

ENERGY STORAGE SAFETY AND RELIABILITY FORUM – REGISTRATION OPEN!



The 9th annual Energy Storage Safety and Reliability Forum will be held from May 14 to 16 at PNNL's campus in Richland. The event is sponsored by the DOE Office of Electricity's Energy Storage Program, and will focus on the current state of energy storage safety and reliability and identify additional efforts to advance the DOE roadmap for energy storage.

Optional lab tours, including PNNL's new Grid Storage Launchpad facility, will be available to attendees.

Registration for the event is now open! [Register here.](#)

About Energy Storage at PNNL

PNNL research provides a clear understanding of the technology needs for integrating energy storage into the grid. We work with utilities and industry to assess the optimal role for energy storage installations under local operational and market conditions. Our research teams support field deployments where we work with stakeholders to characterize the value, understand usage and controls, and generally improve the benefits that energy storage systems provide to the grid. These data, provided to all stakeholders, assure that research development and deployment is working toward a cleaner power future for America.

Understanding the benefits of the wide variety of storage technologies and developing the critical advancements required to bring down the cost of energy storage will help integrate renewable power sources such as wind, solar, and marine energy...and energize a modern, flexible, and resilient power grid.

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Pacific Northwest National Laboratory draws on its
distinguishing strengths in chemistry, Earth sciences, biology



and data science to advance scientific knowledge and address challenges in sustainable energy and national security. Founded in 1965, PNNL is operated by Battelle for the U.S. Department of Energy's Office of Science, which is the single largest supporter of basic research in the physical sciences in the United States. DOE's Office of Science is working to address some of the most pressing challenges of our time. For more information, visit the [PNNL's News Center](#). Follow us on [Twitter](#), [Facebook](#), [LinkedIn](#) and [Instagram](#).

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