

Navigating a Transforming Utility Landscape

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Speaker: Jacob Reidt - Energy Infrastructure, Pacific Northwest National Laboratory (PNNL)

Title: The Grid Center for Reliable Electricity Delivery (GridCRED)

Abstract: Given the challenges facing the power system, a regional and multi-regional analysis capability that informs actionable, scenario-based decisions for planning and operating a reliable, resilient, and affordable grid would provide benefit to power system stakeholders. This presentation introduces GridCRED, a DOE Office of Electricity sponsored research center housing the people, data, and tools that provide the foundation for timely, replicable analyses of specific grid scenarios. The audience will gain an appreciation of the use-cases that stakeholders have designated as relevant and important, particularly focusing on the benefits and impacts of Integrated System Planning.

Bio: Jacob Reidt joined Pacific Northwest National Laboratory (PNNL) as a senior power systems research engineer in 2023. He is currently an advisor for PNNL's Grid Center for Reliable Electricity Delivery, where he directs high-impact research activities at the intersection of advanced analytics, modeling, and policy to enable a reliable and resilient power system.

At PNNL, he has led the research, design, and development of large-scale, distributed Internet of Things and intelligent energy systems by integrating power systems, telecommunications, and software platforms using advanced modeling, optimization, and control techniques.

Prior to working at PNNL, Reidt specialized in smart grid use cases, power system disturbance modeling, and information technology (IT) network engineering, with a focus on aligning technical execution with strategic objectives. He has extensive experience in utility communications, integration, and protection systems. He has led multidisciplinary teams in the design, implementation, and commissioning of IT and operational technology infrastructure, as well as power generation projects.

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