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Energy Storage in Power Grids

Abstract:

Energy storage provides a new and complementary element to electric power grid capabilities and operations. The variety of energy storage technologies, coupled with the wide array of design choices for charge-discharge rates and total energy stored, make storage versatile. Once procured and installed, storage can serve the application for which it was designed, and at times adapt to other uses through its life. This presentation will provide a perspective on the range of uses and state of development for power grids. It will include a review of Oncor's experience with energy storage for reliability of utility delivery and for microgrid use.

Biography:

Bill Muston is Manager of R&D at Oncor Electric Delivery Company LLC, a regulated electric utility in Texas. The role of emerging technologies to improve electric delivery services are his core work. He is as a member Oncor's corporate strategy & technology group.

His recent work is the role of energy storage in utility distribution systems, the role and functionalities of microgrids to complement utility distribution services, the growth of distributed energy resources by utility customers and third parties, and utility adaptations to accommodate smooth grid operation with all the above.

Bill graduated from The University of Texas at Austin with a B.S. in Electrical Engineering and an M.S. in Engineering. He is a Registered Professional Engineer in Texas, and Member of the IEEE Power & Energy Society.