

## **Energy Storage Solutions for Clean Energy Transition**



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Monday, April 22, 2024, 10:00 AM (Houston Time) ZOOM meeting room (Meeting ID: 976 269 9678 | Passcode: K91Bwy): https://zoom.us/j/9762699678?pwd=RUp5ZmN3cHUyQ1FvUExVQjVsc1hVUT09

## LECTURE ABSTRACT

In this seminar, I will provide an overview of our research activities in Renewable Energy, Energy Storage, and Microgrid. Then I will discuss energy storage's role regarding different grid applications, followed by the virtual storage plant as a scalable framework incorporating different characteristics of energy storage devices with its application scenarios. The scenarios include voltage regulation, reserve provision, frequency regulation, etc. I will discuss with audience about certain aspects of outlook of energy storage in grid integration.

## **SPEAKER BIOSKETCH**

Dr. David Wenzhong Gao is an IEEE Fellow. He received his M.S. and Ph.D. degrees in electrical and computer engineering, from Georgia Institute of Technology, Atlanta, USA. He is with the Department of Electrical and Computer Engineering, University of Denver, Colorado, USA. His current teaching and research interests include renewable energy and distributed generation, microgrid, smart grid, power system protection, power electronics applications in power systems, power system modeling and simulation, and hybrid electric propulsion systems. He is an Associate Editor for Journal of Modern Power Systems and Clean Energy. He was an editor of IEEE Transactions on Sustainable Energy. He served as the General Chair for the 48th North American Power Symposium (NAPS2016) and the IEEE Symposium on Power Electronics and Machines in Wind Applications (PEMWA 2012).

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