

**Please join us at the PES Energy Storage & Stationary Battery Committee Tutorial – The Evolving Needs for Energy Storage & Its Effect on the Grid**

**[REGISTER NOW: https://event-wizard.com/PESESSBEnergyStorageFeb2018/0/register/](https://event-wizard.com/PESESSBEnergyStorageFeb2018/0/register/)**

Date: 7 February 2018

Time: 8:45AM-4:45PM

Location: Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

About the Tutorial: This tutorial will provide a fairly comprehensive look at the factors shaping the state of energy storage today with the resulting effect on the grid. In addition to an overview of the major existing and evolving technologies, the session will explore current energy storage applications including the need for resiliency amidst changing climate conditions, the role of software as it affects energy storage and grid management, the economics of energy storage, the challenges that exist interconnecting to the grid along with the need for both industry and safety standards, codes and regulations. Attendees should leave the tutorial with an enhanced knowledge of where Energy Storage is today and where it is headed tomorrow.

**Who Should Attend:**

- Regulators
- Commission Staff
- Utilities

**Topics Include:**

- A Short Overview of the Evolution of Energy Storage – How We Got to Where We Are Today
- A Brief Look at the Current Dominant Battery (BESS) Technologies
- Other Potential Future Battery (BESS) technologies
- Other ESS Technologies – A Brief Look & Where They May or May Not Fit
- Energy Management Systems
- A Look at Some of the Major Energy Storage Applications
- The Need for Resiliency- A DoE Perspective
- The Rising Role of Microgrids & Smart Grids
- Economics, Application Benefits, Tools and Regulation Models
- Commissioning, Certification & Maintenance of Energy Storage Systems
- The Challenges of Grid Interconnectivity
- Safety Codes and Regulations

**Speakers [Reduced to 8/ w/ Dr. Gyuk – 9]:**

- Ben Schenkman
- Ray Byrne
- Babu Chalamala
- Imre Gyuk
- Ralph Masiello
- Jim McDowall
- Tu Nguyen
- Randy Schubert
- Chris Searles
- Vince Sprenkle
- Charlie Vartanian