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CARILEC Renewable Energy Community

Renewable Energy & Smart Grid Conference & Tradeshow

with Post-Conference Training on the 19th September, 2019

15th - 19th September, 2019
InterContinental Miami,
Miami

Rethinking Resilience in an Era of Disruption

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ENERGY STORAGE WORKSHOP

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OVERVIEW

The power landscape is in a period of dramatic change. There is a shift from centralized fossil-fueled generation to more distributed and inherently variable renewable energy sources such as wind and solar, to name the two most popular ones. At the same time, loads are changing, including large-scale data centers, widespread use of air-conditioning and the deployment of electric vehicle (EV) charging infrastructure.

These fundamental changes in the architecture and controllability of the grid call for smart, efficient power transmission and distribution networks. And they require the storage of energy at appropriate times and locations – both to balance the rapid change in supply and demand between generation and consumption and to maintain grid stability.

ABB's Grid Edge Solutions group, which is currently executing a number of energy storage projects in island systems all over the world, will provide a morning of fundamentals training on energy storage systems. The training will cover the following areas:

- Battery storage system components
- Crates, Efficiency and degradation
- Commercial considerations
- Use cases and system impacts
- Project management considerations

PRESENTER

Vythahavya Vadlamani (Vytha) is the Senior Technical Manager for ABB's Grid Edge Solutions group which focuses on Microgrids and Energy Storage technologies. In this role, Vytha supports the Grid Edge Solutions team in applying ABB's microgrid and battery energy storage solutions to various opportunities and customers by performing required power systems stability studies. Prior to joining Grid Edge Solutions team, Vytha was Principal Consultant in Power Consulting group within ABB, where he studied impacts of renewable energy resources on transmission & distribution network and solved power quality issues by studying harmonic analysis, filter design, electromagnetic transient analysis, motor acceleration and stability studies for various industrial customers. Additionally, Vytha has also performed protection studies for generation, transmission and distribution substations for various utility customers. Vytha holds a Master's degree in Electrical & Computer Engineering from the Portland State University, Oregon, a registered professional engineer in the state of North Carolina and is a senior member of IEEE Power & Energy Society.

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