

## **November 24, 2020 Meeting Announcement**

**Sponsor:** IEEE Vehicular Technology Society (VTS) Philadelphia Chapter

**Topic:** Traction Power Energy Management Systems – Wayside Energy Storage Systems (WESS), Energy Recuperation Systems (ERS), and Automatic Receptivity Units (ARU).

**Speaker:** Patrick Savoie – ABB Business Development Manager – AMERICAS

Electrification Distribution Systems | | Railways Infrastructure AC / DC

**Professional Development Hours:** Attendees may apply for 1.0 PDH upon completion of lecture. Certificates will be provided through the IEEE Certificates Program, accepted in all states.

**Meeting date/time:** Tuesday, November 24, 2020, 12 pm to 1 pm (Eastern Standard Time)

**Meeting location:** Microsoft Teams virtual meeting format.

**Cost of meeting:** There is no charge for meeting attendance.

PDHs are paid by mailing a check to Brandon Swartley. Instructions will be given during meeting.

**Reservations:** *Attendees are required to register at* <https://events.vtools.ieee.org/m/248025>

A valid email address must be provided for a Microsoft Teams meeting link to be provided along with course evaluation forms required for PDHs. If you have any questions, please contact Brandon Swartley at [brandon.swartley@ieee.org](mailto:brandon.swartley@ieee.org).

**Abstract:** Energy Efficiency is a major concern for all transit agencies as cost of kWh and kW keep increasing. With higher efficiencies and continued cost reduction in battery and supercapacitor technology, the use of electrical energy storage systems (ESS) applications is expanding to the railway industry. Energy recuperation is also a technology to reduce both demand and energy consumption and to lower weight onboard car trains, the ARU is cost effective means to secure the potential overvoltage situation that could occur without onboard resistors. This panel session will explore these different solutions and benefits as well preliminary calculations on how to size any of these technologies.

### **Speaker**



With more than 17 years of business experience in Business Development, product management, project management and professional trainer, **Patrick Savoie** currently holds the role of Business Development Manager – AMERICAS for the Rail segment Infrastructure in ABB. ABB is a pioneering technology leader, serving utilities, industry, and transport and infrastructure globally. Previously having held a Sales Management role in the solar industry for both residential and commercial systems, Patrick is fully committed to energy efficiency and passionate about lowering our global carbon footprint. Patrick has a degree in Applied Physics from the University of Montreal.

### **IEEE VTS Philadelphia Chapter Officers:**

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