ENSURING POWER SYSTEM RESILIENCE AGAINST EXTREME WEATHER EVENTS: CHALLENGES AND OPPORTUNITIES

~ by ~

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Tuesday, March 22 • 11:00 AM – Noon (PT) • TEAMS ONLY
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OVERVIEW

Extreme weather events, such as hurricanes, wildfires, and ice storms have been an escalating problem in many countries for decades, causing devastating damage to property and human life. In particular, the power grid been significantly affected by such events, which have caused significant damage along with large and extended blackouts in several regions, thus pressing utilities, system operators, and policy makers to prioritize the development of tools and methods to enhance the power grid resilience during those events. This talk aims to present some recent works on power system resilience against extreme weather events conducted by the Power Systems Research Group (PSRG) at WSU Vancouver. The talk will also briefly present select challenges, barriers, and opportunities for future research and development in this important area.

BIO

Dr. Josue Prado received his bachelor's degree in electrical engineering from Santa Catarina State University in Brazil in 2012 and his PhD in electrical engineering from the University of Nebraska-Lincoln in 2020. From 2018 to 2020, he conducted research on power system flexibility and resilience at the National Renewable Energy Laboratory (NREL). Since August 2020, he has been with Washington State University Vancouver where he is currently an Assistant Professor with the School of Engineering and Computer Science. His research areas include power systems planning and optimization, electricity markets, grid and market integration of distributed energy resources, renewable energy systems, smart grids, energy policy, and cybersecurity.