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**Electric Power Research Institute (EPRI) Control Center Research Program for the
Integrated Grid**

Adrian Kelly

Electric Power Research Institute (EPRI) Europe

Sponsors/Vendors Panel

As the electricity system has been evolving, the resource mix has changed from large centralized generation sources on the transmission system to smaller distributed generation sources on the distribution system. The “integrated grid” is a concept, developed by EPRI for studying, simulating and thinking about the needs for the future transmission and distribution systems. The integrated grid will require system operation engineers, and transmission and distribution control center operators to adapt to manage the system in a different way.

As the system evolves, the control center operators will require new tools, new methods to visualize the system parameters, and new data acquisition methods and analytics to be integrated into real time operations. Artificial intelligence and machine learning techniques are also being increasingly adopted in control center tools and data analytics. By monitoring the integrated grid in this manner, it is also critical to keep focus on the human factor’s elements of an operator’s work to avoid “out of the loop syndrome”.

Within EPRI’s long-running transmission operations research program, these issues are being investigated and analyzed in detail. New research software and guides are being developed to help system operations engineers and real time operators to manage the integrated grid today and into the future. With 52 years of experience of research, development and demonstration, in all aspects of power generation, delivery and utilization, EPRI is uniquely placed and connected to utilities around the world to lead the industries efforts using a collaborative approach between vendors and utilities. In 2019 EPRI is proud to announce the

incorporation of EPRI Europe based in Dublin, where we hope to lead a number of new initiatives in system operations in 2019 and beyond.

Please send the Abstract to dsobajic@gridengineering.com by April 12