



## PSERC WEBINAR

# Transmission and Distribution (T&D) Coordination for DER Market Participation

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Federal Energy Regulatory Commission (FERC) Order 2222 has required the US independent system operators (ISOs) to allow intensive market participation of the aggregated distributed energy resources (DERs). This further requires the coordination of transmission and distribution (T&D) operations, in order to ensure both wholesale market efficiency and distribution system reliability.

In this presentation, a framework is proposed to coordinate the operation of ISO and distribution system operator (DSO). The framework has several desired characteristics: 1) it fully complies with the current practice of US wholesale market, which introduces minimal changes to today's wholesale market clearing procedure; 2) it requires minimal communication efforts between the T&D systems; 3) it does not exchange any confidential system models between the T&D systems; and 4) it ensures optimal T&D operation while satisfying all the T&D system operating constraints.

**SEPTEMBER 20, 2023**

[LINK TO WEBINAR](#)

**1:00-2:00 P.M. ET**

(10:00-11:00 A.M. PT)

**Meng Wu** received the B.E. degree in electrical engineering from Tianjin University, Tianjin, China, in 2010, the M.Eng. degree in electrical engineering from Cornell University, Ithaca, NY, USA, in 2011, and the Ph.D. degree in electrical engineering from Texas A&M University, College Station, TX, USA, in 2017. She is currently an Assistant Professor with the School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, AZ, USA. She was a Research Engineer with China Electric Power Research Institute, Beijing, China, from 2011 to 2012, and Beijing Sifang Automation Co. Ltd., Beijing, China, from 2012 to 2013. In 2016, she was a Research Intern with ISO New England, Holyoke, MA, USA. Her research interests include power system modeling, monitoring, control, and stability, electricity market, and integration of distributed energy resources.

