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ERCOT Nodal Market

Abstract:

The Electric Reliability Council of Texas (ERCOT) manages the flow of electric power to more than 25 million Texas customers -- representing about 90 percent of the state's electric load. As the independent system operator for the region, ERCOT schedules power on an electric grid that connects more than 46,500 miles of transmission lines and 600+ generation units. It also performs financial settlement for the competitive wholesale bulk-power market and administers retail switching for 7 million premises in competitive choice areas.

This presentation will cover the basic of the ERCOT nodal market in the way transmission analyst/engineer will be focus. It starts from ERCOT market basis with market overview, LMP concept. The next topic will be on the power system network modeling. It continues to the concept of financial transmission instrument – Congestion Revenue Right(CRR) and Point to Point (PTP). Lastly, it briefly discuss the main reason of the congestion – Outage and its coordination.

Biography:

Feiran Huang currently works at Vistra Energy/Luminant as Senior Transmission Trader, mainly covering the MISO and ERCOT region. Her expertise are largely on financial transmission/congestion instrument trading, generation/asset locational hedging, fundamental congestion risk analysis and as well as congestion management planning. She receive her MSEE at University of Texas at Arlington and BE at Huazhong University of Science and Technology.