SEMINAR:

Wind Power Integration and Dispatching in China

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Abstract:

This presentation briefly introduces the current situation of wind power integration in China, irrational generation structure and backward transmission planning lead to severe wind energy curtailment. Based on the existing problems, some strategies and techniques are put forward to promote wind power accommodation: firstly, wind power priority dispatching is illustrated using two different province samples, this strategy improves wind energy utilization rate. Secondly, several supporting techniques are presented, including wind power operational data acquisition and monitoring, wind power forecasting, generation schedule and wind power regulation (AGC/AVC), these techniques prove effective for priority dispatching.

Bio:

Dr. Rongfu Sun received the B.Sc. degrees in electrical engineering from Shanghai University of Electric Power, Shanghai, China, in 2002, and the M.Sc. degrees in electrical engineering from Wuhan University, Wuhan, China, in 2005, and the Ph.D. degree in electrical engineering from Tsinghua University, Beijing, China, in 2009.

He is currently a System Operator Engineer at the State Grid Jibei Electric Power Company, Beijing, China. His interested research areas include renewable energy integration, wind power forecast and control strategies.