

Technical Committee Prepares Document on Standard Wind Turbine Models



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Siemens PTI supports efforts of different committees, task forces and working groups, such as the U.S. Western Electricity Coordinating Council (WECC), North American Electric Reliability Corporation (NERC), Electric Power Research Institute (EPRI) and the IEEE, related to the development, generalization and standardization of wind turbine models for system planning and interconnection studies. Recently, we joined Technical Committee TC 88 of Working Group WG 27 of the International Electrotechnical Commission (IEC). As a nominated member of the IEC TC 88 WG 27 on "Electrical Simulation Models for Wind Power Generation," Dr. Yuriy Kazachkov attended a two-day meeting in Barcelona, Spain in January 2010, along with 19 other members, mostly from European manufacturers and electric utilities. Members from the U.S. brought along their vast experience in generic wind turbine simulation model development. Other members put on the table for discussion several important issues based on operating experience in Europe where the wind penetration is significantly higher than in the United States. Frequency control, sensitivity of the wind turbine functionality to unbalanced faults, and other topics were discussed. The draft document "Electrical Simulation Models for Wind Power Generation" was updated based on discussions held in Barcelona. In April, Ping-Kwan Kueng, a consultant from our Schenectady, NY, office, attended the next TC 88 meeting (held during the IEEE T&D Conference in New Orleans, LA) and participated in further discussions of the same document. After the document on standard wind turbine models has been finalized the Committee will proceed with preparation of the document on wind plant modeling where all concerns related to interconnection with utilities will be subject to discussions.