Wind Plant Models in IEC 61400-27-2 and WECC - latest developments in international standards on wind turbine and wind plant modeling

This paper describes the latest developments in the standardization of wind plant and wind plant controller models. As a first step, IEC TC88 WG 27 and WECC jointly developed generic wind turbine models which have been published by WECC in 2014 and IEC in 2015 as IEC 61400-27-1, which also included a draft plant controller model in an informative annex. In a second step, parallel activities have been going on in WECC and IEC TC88 WG 27 to create plant models that can include a number of wind turbines, a plant controller and optional equipment. The WECC models are intended to be finalized in 2015, the IEC models are expected to be published in 2017.

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