

DER Extensions for Markets

For the past several years, WG16 has been working on extensions to the market model to cover objects and attributes related to distributed resources. This talk provides an overview of these extensions as published in the most recent IEC 62325 model update. The profile associated with these model extensions cover the full life-cycle of a DER, including qualifying to provide a market service, submitting an offer for that service, receiving a market award and subsequent dispatch instructions from the market, and finally reporting metering information and receiving a performance evaluation. In addition to this "command-and-control" style of interaction, WG16 also implemented a number of extensions to model the flexible pricing of market services. The associated profile for these extensions allow DERs which do not operate like fixed central generating facilities to change their operating mode based on changes in the market service value as derived from economic analyses and reliability assessments by the wholesale market operator or utility.