

AWEA Grid Code

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AWEA Grid Code History & Purpose

- Growing worldwide recognition of economics of wind energy and need to design for “high penetration.”
- History of poor communication among wind developers, turbine manufacturers, grid operators, and “engineering community.”
- Order 2003 is Standard Process for Standard Generator. Wind does not meet this definition.
- Northeast Blackout highlights need for better planning, clearer rules sooner rather than later.

AWEA Grid Code Development Process

- Assemble critical mass of “wind industry” (turbine manufacturers, component suppliers, developers/operators, engineering consultants)
- Examine other “Grid Code” efforts worldwide (e.g., Germany, Spain, UK, Greece, Australia, ERCOT, WECC, NYISO)
- Assess near term product development plans that could result in “grid friendly” wind turbines/wind farms.
- Reach industry consensus.

AWEA Grid Code Contents

- Point of Interconnection technical standards:
 - Low voltage ride-through
 - Voltage support/reactive power
 - SCADA functionality
- Order 2003 process considerations:
 - Front end interconnection study flexibility
 - Institutional support for modeling software development