

Interconnection for Distributed Wind Turbines



Jim Green

September 2008

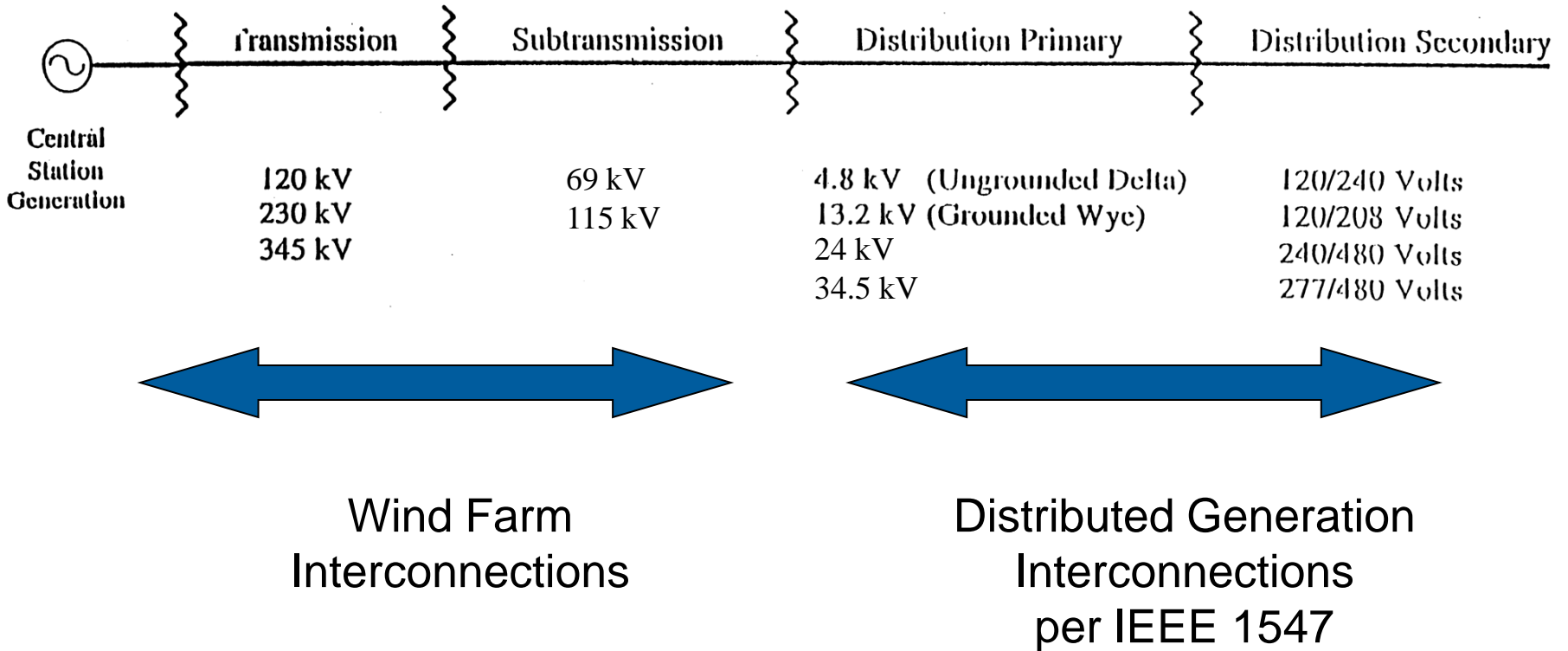
1547™

**IEEE Standard for Interconnecting
Distributed Resources with Electric
Power Systems**

Standards Coordinating Committee 21

Sponsored by the
Standards Coordinating Committee 21 on
Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage

Transmission and Distribution System Voltages



Interconnection Standards

IEEE 1547-2003

- Establishes minimum technical requirements for safe interconnection of distributed generation, < 10 MW
- Invoked by law: USA Federal Energy Policy Act of 2005

IEEE 1457.1-2005

- Specifies tests to demonstrate compliance with 1547

UL 1741

- Updated recently to be fully “harmonized” with 1547.1
- Has a larger scope that also includes electric shock, fire, and mechanical hazards.
- Certification per 1741 is gaining broad acceptance as a requirement for interconnection approval:
 - Utilities
 - State PUCs
 - State incentive programs