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| **SO-33 Real Time Wind-powered Turbine Availability:** WGRs are composed of many, sometimes hundreds, of individual wind-powered turbines. At any given time some of the wind-powered turbines may be out of service on a planned or forced outage basis. The maximum output of the WGR is dependent upon the available wind and the number of wind-powered turbines currently in operation. In addition, the reactive control capability of the WGR is dependent upon the number of wind-powered turbines in service. This initiative is to provide ERCOT with real time information about the actual number of wind-powered turbines available for service, out of service, and whose status is uncertain. | |
| **Priority** | Low |
| **Considerations** | Policy: None |
| Reliability: Provides additional detail to improve modeling and thus will have some positive effect on reliability. |
| Technical: None |
| Market: None |
| Performance/Compliance: New telemetry requirements will require additional compliance by WGRs with existing telemetry standards |
| Cost Allocation: None |
| **Strategy** | Recommendation: ERCOT develop needed protocol changes defining the new requirement. |
| **Activities** | ERCOT (E X): ERCOT develop needed protocol changes defining the new requirement. |
| Market Participants (MP X):  WGRs comply with the new requirements. |
| **Follow-Up** | None |
| **Schedule** | November 2009 - Protocol Revision 830 establishing reactive standards and including wind-turbine availability telemetry requirements was adopted |