

Texas Renewables Integration Plan
Quarterly Update for the 3-Month Period
Ending December 31, 2009

Prepared by the Renewable Technologies Working Group of
the ERCOT Technical Advisory Committee

January 2010

Status of Renewable Generation Resources in ERCOT

At the end of December 2009, ERCOT had 8,916 MW of “new” wind generation in operation, where “new” represents capacity added since September 1, 1999. In addition, there were approximately 1.2 MW of new solar, 37.3 MW of new biomass, 33.1 MW of new hydro and 80.3 MW of new landfill gas renewable generation in operation. Thus, the total new renewable capacity in ERCOT as of December 31, 2009 is approximately 9,068 MW.

For the three months ending December 31, 2009, the following new renewable resources became operational:

- Langford Wind Power 150 MW (Tom Green County)
- Loraine Wind Park I 126 MW (Mitchell County)
- Loraine Wind Park II 125 MW (Mitchell County)

Wind generation provided 6.2% of the total energy produced in ERCOT from January 1, 2009 through December 31, 2009. The monthly ERCOT generation fuel mix is available at:

<http://planning.ercot.com/reports/demand-energy/>

In addition to wind generation capacity that is installed and operating, there are a substantial number of renewable generation projects in various stages of study by ERCOT as part of the Generation Interconnection Process as shown in Figure 1 below.

Project Description	Capacity (MW)		
	Wind	Solar	Biomass
Projects with Interconnect Agreement/Public Letter	6,889	0	145
Projects Under Full Interconnect Study	31,301	459	50
Confidential Projects	7,476	544	58
Total	45,666	1,003	253

Figure 1 – New Renewable Generation Capacity Under Study

There are 12 wind generation projects and 1 biomass project with Interconnect Agreements or public letters. In addition, there are 103 wind generation projects undergoing full interconnect studies. There are 4 solar projects and 1 biomass project undergoing full interconnect studies.

For the 3-month period ending December 31, 2009, the following renewable resources signed Generation Interconnection Agreements:

- Papolote Creek Wind Farm II (198 MW) in San Patricio County

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The annual ERCOT installed wind generating capacities since 1999 are shown in Figure 2 below.

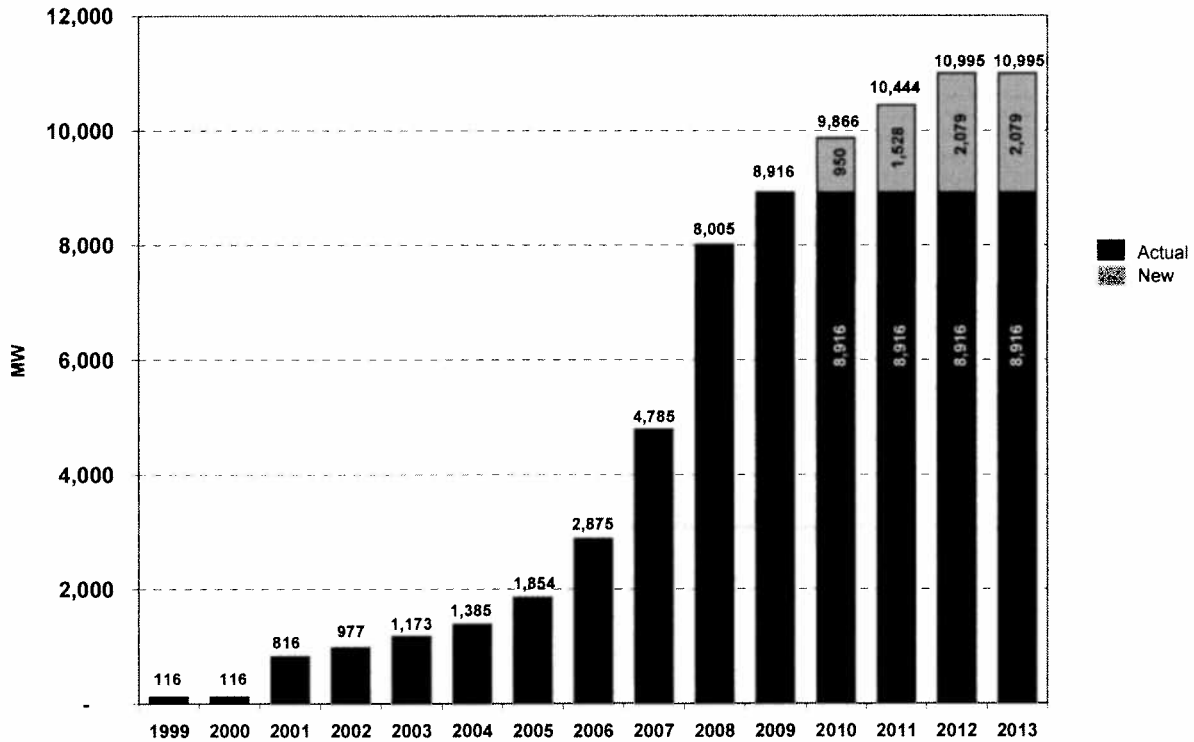


Figure 2 – ERCOT Installed Wind Generating Capacity (End of Year)

Significant Events

In November, the ERCOT Board approved Protocol Revision Request (PRR) 830 - Reactive Power Capability Requirement. This PRR clarifies the Reactive Power capability requirement for all Generation Resources, including existing Wind-powered Generation Resources (WGRs) who are not able to meet the 0.95 lead/lag requirement with the Generation Resource’s Unit Reactive Limit (URL). WGRs that commenced operation on or after February 17, 2004, and have a signed Standard Generation Interconnection Agreement (SGIA) on or before December 1, 2009 may meet the Reactive Power requirements through a combination of the WGR’s URL and/or automatically switchable static VAR capable devices and/or dynamic VAR capable devices. Because of the potential impact of this PRR on existing wind generation facilities, several parties have appealed the Board’s approval of PRR 830 to the Public Utility Commission of Texas (PUCT). Hearings are likely to be held later this year to consider this appeal and a final decision by the PUCT is not likely for several months..

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In addition, near the end of December, 2009, the PUCT issued a draft strawman rule for establishing a non-wind Renewable Portfolio Standard (PUCT Project No. 35792) of 500 MW by January 1, 2015. The final rule adopted by the PUCT in this project will likely have a significant impact on the amounts and types of non-wind (e.g., solar photovoltaic, solar thermal, biomass, landfill gas, etc.) renewable resources that will be developed in the ERCOT market in the next few years.

Completed Issues

During the 3-month period ending December 31, 2009, the following Issues were completed:

- MD-8: Reactive and Voltage Requirements Applicable to Wind Generators
- SO-9: SCADA Control of Generator Circuit Breakers
- SO-15: Communications between Wind Farms and TSPs
- SO-28: SPS Actuation for N-0 Conditions
- WT-2: Wind Workshop III - Summer 2009
- WT-4: Wind in the Nodal Market

For a detailed list of all Issues and their current status, see the Appendix.

In addition, the following Protocol Revision Requests (PRRs) and Nodal Protocol Revision Requests (NPRRs) impacting renewable resources in the ERCOT zonal market, were approved and/or became effective:

- PRR 824 - Primary Frequency Response from WGRs
- PRR 830 - Reactive Power Capability Requirement
- NPRR 195 - Removal of McCamey Congestion Management from Nodal Protocols

New Issues

During the 3-month period ending December 31, 2009, the RTWG began consideration the following new issue related to the integration of renewable resources into the ERCOT market:

- SP 9 - Wind Turbine Model Validation

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Recap for Calendar Year 2009

For the calendar year 2009, a total of approximately 918 MW of new renewable resources were added to the ERCOT region. The amounts and types of new renewable resources added in 2009 are shown below in Figure 3.

Technology	Capacity (MW)
Wind	911
Solar	0
Biomass	0
Landfill Gas	8
Total	919

Figure 3 – New Renewable Resources Added in 2009

In addition, ERCOT market participants addressed and completed 18 issues related to renewable resources in 2009 through changes in the ERCOT Protocols and Operating Guides.

Several significant events impacting renewable resource in Texas occurred during 2009. These include:

- During the 2009 legislative session, several important bills, such as increased Renewable Portfolio Standards, Non-Wind Portfolio Standards, and various incentives for increased solar generation were introduced. But because of other pressing legislative issues, none of these bills passed that had a significant impact on renewable resources.
- In May, ERCOT hosted Wind Workshop II. The primary focus of the workshop was data requirements from wind generators for the upcoming ERCOT low voltage ride-through study and a discussion with ERCOT's vendor regarding the wind power output forecasts used by ERCOT in its day-ahead planning.
- In August, the Public Utility Commission of Texas (PUC) held a workshop in Docket No. 37339 – Commission Review of Market and Operating Issues Related to Wind Generating Capacity in ERCOT. This workshop was well-attended and included panels of experts who discussed the following topics:
 - Identification of challenges related to reliability
 - Identification of reliability tools
 - Identification of incentives to implement such tools
 - Cost allocation issues
- In the fall of 2009, a new, privately-owned transmission line connecting wind farms in West Texas to the South Congestion Zone went into operation. This new line reduced congestion on existing transmission lines coming from West Texas, allowing wind farms to deliver more energy to the market.

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- In September, Electric Transmission Texas LLC (ETT) announced its plans to install a state-of-the-art, sodium-sulfur 4-megawatt sodium-sulfide (NaS) battery system, which will be installed in Presidio, Texas to improve transmission reliability in Presidio and surrounding areas. The NaS battery will be the first in Texas and the largest in the United States. The battery, along with construction of the Gonzales substation, is currently scheduled to be completed by first quarter 2010 in time for summer peak usage.
- As a result of changes in the ERCOT Operating Guides approved in November of 2008, wind generators were required to provide data related to the voltage-ride-through (VRT) capabilities of their generating units to ERCOT for use in a system-wide VRT study to be performed by Parsons Brinckerhoff (PB) World in June 2010. Parsons Brinckerhoff World was selected by ERCOT in early 2009 to perform the study in three phases. In Phase I (to be completed by end of 2009), PB World will perform dynamic fault studies with datasets updated by existing information from wind generators to prepare for the Phase III Study. In Phase II (to be completed by end of 2009), PB World will obtain detailed additional and updated information from individual wind generators to develop appropriate dynamic models. In Phase III (to begin in January 2010 and to be completed by May, PB World will perform dynamic fault studies with the improved modeling information from Phase II and Identify any reliability problems and investigate solutions.

Appendix

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List of Market Design Issues

December 2009

Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
MD	1	Ancillary Services Cost Allocations Applicable to Wind	Develop any ancillary services cost allocations applicable to wind generation resources.	TAC	Near Term	Medium	Market Participants	PRR/NPRR	WCATF is a new task force created by WMS to address this issue.
MD	4	New Ancillary Service Products Needed for Reliability	Determine if new ancillary services are needed to reliably integrate the large amounts of wind generation coming into the ERCOT market.	ROS	Long Term	Medium	ERCOT	PRR/NPRR	Dependent on results of SO-5
MD	5	Benefits of Storage Technologies	Determine benefit and potential applications of storage technologies in the ERCOT market.	RTWG	Long Term	Low	Market Participants	Other	Steve Isser has prepared a white paper to address this issue. The whitepaper will be discussed at the January RTWG meeting.
MD	7	Wind Generating Resources Providing Ancillary Services	Determine possible changes in the ERCOT Nodal Protocols to allow Wind Generation Resources to provide ancillary services.	QMWG	Long-Term	Medium	Market Participants	NPRR	List of issues has been circulated; Walter Reid will be developing a NPRR to address market facilitation issues
MD	9	Wind Generation Dispatch in the Nodal Protocols	Review of Nodal Protocols to ensure proper treatment of wind generation in regard to dispatch response.	QMWG	Near Term	Medium	Market Participants	NPRR	Under discussion at QMWG; a draft NPRR is under final discussion at QMWG and will likely be filed in December.
MD	10	Wind Generation Performance Metrics in the Nodal Protocols	Review of Nodal Protocols to ensure proper treatment of wind generation in regard to performance metrics when negative pricing exists.	QMWG	Near Term	Medium	ERCOT	NPRR	Under discussion at QMWG.
MD	11	Wind Generation and Base Point Deviation in the Nodal Protocols	Review of Nodal Protocols to ensure proper treatment of wind generation in regard to Base Point deviation.	QMWG	Near Term	Medium	ERCOT	NPRR	Under discussion at QMWG.

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List of System Operations Issues

December 2009

Issue Category	System Ops Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
SO	1	Inventory of Wind Generation Facilities	Develop forms and collect wind turbine data from Wind Generation Resources to improve ERCOT's modeling and operations databases.	ERCOT/Consultant	Near Term	Low	ERCOT	Other	Much of the data from wind farms has been collected and reviewed. Changes to the RARF to accommodate new wind farm data will be done by ERCOT in the near future.
SO	4	Smart Grid Implications for Renewable Resources	Determine how development of a "smart grid" could benefit and improve integration of renewable resources into the ERCOT grid.	RTWG	Long Term	Low	Market Participants	Other	Steve Isser will develop a white paper
SO	5	Operational Studies Related to Wind Generation	Operational studies re: Wind (ramp rate, low load situations, forecasting) to identify if new ancillary services are needed.	RTWG	Long Term	Medium	ERCOT	NPRR	Finalize list of recommendations at January 2010 RTWG meeting to be provided to TAC.
SO	6	Testing Reactive Capability of Wind Generation	Determine the appropriate testing methodology to measure the reactive capability of wind generation.	ERCOT Operations	Near Term	Medium	ERCOT	OGRR	See MD-8 (follow up with John Dumas about ERCOT testing procedure)
SO	7	Wind Generation and High System Frequency	Determine impact of wind generation on high system frequency events and develop possible solutions.	WOTF	Near Term	Medium	Market Participants	PRR/NPRR	PRR824 "Primary Frequency response" approved by TAC and will go to ERCOT Board in December. PRR 833 - Primary Frequency Response Requirement from Existing WGRs has been tabled by TAC until January 2010.
SO	10	Voltage Management Practices Applicable to Wind Generation	Develop appropriate voltage management practices for ERCOT and Transmission Service Providers that would apply to wind generation resources.	ERCOT	Near Term	High	ERCOT/TSPs	NPRR	ERCOT reactive study of West Texas is scheduled for completion by 2nd quarter 2010.
SO	14	Impact of Advanced Transmission Outage Planning on Wind Generation	Examine possible ways to improve transmission outage planning to better coordinate with wind generation operations.	RPG	Long Term	High	ERCOT/TSPs	PRR	PRR 795 was approved by the Board - Policy issues still open
SO	23	Impact of Advanced Meters/ Smart Grid on Integration of Renewable Resources	Examine impact of advanced metering / Smart Grid capabilities on integration and deployment of renewable resources and demand-side management technologies.	DSWG	Long Term	Low	Market Participants	PRR/NPRR	On-going discussion in DSWG
SO	25	Generator Governor Response for Wind Generators	Determine proper generator governor response requirements for wind generators in the Nodal Market design.	WOTF	Short Term	Medium	Market Participants	NPRR	See SO-7
SO	26	Impact of Solar Generation on System Operations	Determine potential impact of new solar generation on ERCOT system operations through appropriate studies of solar ramp rate capabilities, forecasting of solar energy production, voltage and reactive control capabilities.	RTWG	Long Term	Medium	Market Participants	NPRR	Steve Isser to develop a white paper to be presented to RTWG by February 2010

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List of System Operations Issues

December 2009

Issue Category	System Ops Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
SO	29	Transmission Outage Planning for CREZ	Determine ways to accommodate large amounts of transmission outages associated with the CREZ buildout while still providing adequate transmission service to existing wind farms and maintaining adequate system reliability.	RPG	Near Term	High	ERCOT	Other	Under discussion and development by the RPG.
SO	30	Application of Wind Generation Forecast to PASA	Determine how the ERCOT wind generation output forecast could be used to improve the Projected Assessment of System Adequacy (PASA).	ERCOT Operations	Near Term	Medium	ERCOT	Other	To be discussed at a future RTWG meeting
SO	31	Tension Monitors on Transmission Lines	Determine the need (if any) to install tension monitors on certain existing transmission lines that will be affected by construction of CREZ transmission facilities.	RPG	Near Term	Low	Market Participants	Other	Pending potential Market Participant project submissions.
SO	32	Real-Time Wind Generation Capacity	Determine the value of having a real-time value of available wind generating capacity for use by ERCOT operations.	QMWG	Near Term	Medium	ERCOT	PRR	PRR 811 remanded by the ERCOT Board. Revised language will be reviewed by WMS at the December 3009. OGRR 223 has been approved and is waiting on final approval of PRR 811.
SO	33	Real-Time Wind Turbine Availability	Determine the value of having a real-time indication of the availability of each wind turbine for use by ERCOT operations.	QMWG	Near Term	Medium	ERCOT	PRR	ERCOT has implemented a temporary procedure for those facilities that volunteer to participate. PRR 830 covers real-time turbine availability.
SO	34	SCED Line Ratings	Increase the frequency of SCED's consideration of dynamic line ratings to better model current system conditions.	ROS	Long Term	High	ERCOT	Other	To be discussed at a future RTWG meeting

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List of System Planning Issues**

December 2009

Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
SP	2	Wind Turbine Computer Models	Collect and verify accuracy of computer models for each type of wind turbine installed on the ERCOT grid.	ERCOT Planning	Near Term	Low	ERCOT	Other	Included in ERCOT's VRT Study
SP	3	Wind Turbine Fault Tolerance	Prepare a study of the fault tolerance of wind turbines installed on the ERCOT grid.	ERCOT Planning	Near Term	Medium	ERCOT	OGRR	Included in ERCOT's VRT Study
SP	4	Voltage Transient and Small Signal Stability Study	Update ERCOT voltage transient and small signal stability study and prepare a West Zone to North Zone transfer study.	ERCOT Operations	Near Term	Medium	ERCOT	Other	Transfer study has been completed; a design study is underway to possibly improve transfer capability.
SP	5	Impact of Wind Turbines on System Inertia	Determine the potential impact on system reliability of large amounts of wind turbine generating capacity on ERCOT's system inertia requirements.	ERCOT Planning	Long Term	Medium	ERCOT	Other	Will be undertaken following completion of VRT study
SP	7	Voltage Control Process	Develop a process to better control voltage in areas with large amounts of wind generation.	ERCOT Planning	Long Term	Medium	ERCOT	OGRR/NOGRR	See SO-10
SP	8	Voltage Ride-Through (VRT) Study	Prepare a study of the system reliability and associated requirements applicable to all generators for voltage ride-through capability.	ERCOT Planning	Near Term	High	ERCOT	Other	Phase 1 of the study will be reported to ROS in December 2009, all study results due to ROS no later than June 2010
SP	9	Wind Turbine Model Validation	Validation of wind turbine non-steady-state planning models - WECC/EPRI has done some work in this area that might be useful to examine.	RTWG	Near Term	Medium	ERCOT	Unknown	Howard Daniel will investigate and provide an update to RTWG in early 2010.

**Texas Renewables Implementation Plan
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 List of Workshop/Training Opportunities**

December 2009

Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
WT	1	Resource Plan and Schedule Update Process	Determine potential improvements to the Resource Plan and Resource Schedule update process to improve performance and reliability.	RTWG/ERCOT Operations	Undetermined	Low	Market Participants	Other	Potential topic for future Wind Workshop
WT	3	Wind Turbine Operator Training	Develop list of topics for use in development of a training session for wind turbine generator operators.	ROS	Long Term	Low	Market Participants	Other	RTWG will raise the issue at November TAC meeting

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List of Completed Issues

December 2009

Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
MD	2	Ancillary Services Procurement Optimization for 2009	Develop any ancillary services cost allocations applicable to wind generation resources (see also MD-6).	QMWG	Complete	Medium	ERCOT	Other	COMPLETE: ERCOT Board approved the 2009 Ancillary Services Procurement methodology at the February Board Meeting
MD	3	Non-Spin Requirements	Determine if additional Non-Spin Service procurements are required to accommodate increased amounts of wind generation in ERCOT.	WMS	Complete	Medium	ERCOT	Other	COMPLETE:
MD	6	Ancillary Service Procurement Methodology	Determine impact and possible changes in amounts of ancillary services to be procured to ensure reliability with increasing amounts of wind generation being installed in the ERCOT market.	WOTF	Complete	Medium	ERCOT	Other	COMPLETE: WOTF reviewed draft procedure method and made comments that were incorporated in the AS methodology approved for 2009
MD	8	Reactive and Voltage Requirements Applicable to Wind Generators	Review of current ERCOT Protocols to ensure reactive and voltage control requirements are applicable to all generating technologies, including wind generation.	WOTF	Near Term	Low	ERCOT	PRR	COMPLETE: PRR 830 "Reactive Power Capability Requirement" has been approved by the ERCOT Board.
MD	12	Wind Generation Resource LSL as a Percentage of HSL	Establish a minimum percentage for the Low Sustained Limit (LSL) of the High Sustained Limit (HSL) for a wind generation resource.	QMWG	Complete	Medium	Market Participants and ERCOT	PRR	COMPLETE: PRR 773 approved by the ERCOT Board
MD	13	Use of State of the Art Wind Forecast	Requires Wind Generation Resources to use of a state-of-the-art wind production forecast (AWS Truewind) in their daily resource plan submissions.	N/A	Complete	Medium	Market Participants	PRR	COMPLETE: PRR 763 approved by the ERCOT Board
SO	2	Nodal Tools to Integrate Wind Generation	Determine tools applicable to the Nodal Protocols to successfully integrate wind generation into the ERCOT markets.	RTWG	Complete	Medium	Market Participants and ERCOT	NPRR	COMPLETE: (pending completion of Nodal market trials) - open issues are addressed in other specific issues. Review and discussion of the Nodal Protocols indicates that wind is addressed adequately.
SO	3	Wind Generation Response and SCE	Determine proper wind generation response to down balancing instructions from ERCOT and also address SCE issues.	QMWG	Near Term	Low	Market Participants	PRR	COMPLETE: - PRR 812 has been approved by BOD and went into effect on October 1.
SO	8	Wind Generation and System Inertia	Determine impact of wind generation on system inertia and develop possible solutions.	PDCWG	Complete	Low	Market Participants	Other	COMPLETE: PDCWG report to ROS in October 2008
SO	9	SCADA Control of Generator Circuit Breakers	Develop guidelines for better control of generator circuit breakers via SCADA.	OGRR TF	Near Term	Low	Market Participants	OGRR	COMPLETE: OGRR 226 "Generation Resource Response Time Requirements" was approved by TAC in December 2009.
SO	11	Technology-Specific Procedures and Protocols Changes	Develop renewable technology-specific changes in existing ERCOT Protocols, Operating Guides, Interconnection Agreements and interconnection procedures to recognize unique characteristics of various renewable generation technologies.	ROS	Near Term	Low	Market Participants	Other	COMPLETE: - This issue is covered by other individual issues in System Operations, Market Design and System Planning

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Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
SO	12	Low-Voltage-Ride-Through for Wind Generators	Develop low-voltage-ride-through requirements for wind generators.	N/A	Complete	Medium	Market Participants	OGR	COMPLETE: ROS approved OGR 208
SO	13	Performance Metrics for Wind Generation	Develop appropriate operational performance metrics for wind generation.	QMWG	Complete	Medium	Market Participants	PRR	COMPLETE: PRR793 approved by the ERCOT Board
SO	15	Communications between Wind Farms and TSPs	Examine possible improvements in real-time communications between wind farms and transmission service providers (TSPs).	WOTF	Near Term	Medium	Market Participants	OGR	COMPLETE: OGR 226 "Generation Resource Response Time Requirements" was approved by TAC in December 2009.
SO	16	Wind Generation Ramp Limits	Develop appropriate ramp rate limits for wind farms	ROS	Complete	Medium	Market Participants	PRR	COMPLETE: PRRs 771 and 788 approved by the ERCOT Board
SO	17	Mid-Term and Short-Term Load Forecast Weather Sensitivity	WOTF determined that this was not a determining factor in the February 26, 2008 event.	WOTF	Complete	Low	Market Participants and ERCOT	Other	COMPLETE: Issue resolved as result of ERCOT Operations response to SDWG comments. WOTF recommended no further action.
SO	19	Improve Competitively Sensitive Constraints (CSC) Process	Evaluate increasing the frequency of ERCOT CSC studies to more accurately determine congestion problems that affect wind generation.	WOTF	Complete	Medium	Market Participants and ERCOT	Other	COMPLETE: ERCOT implemented hourly limits effective June 10, 2008
SO	20	Dynamic Transmission Line Ratings	Evaluate cost and benefits of using dynamic transmission line ratings in ERCOT's planning processes to allow more efficient use of transmission lines serving wind farms.	WOTF	Complete	Low	Market Participants	Other	COMPLETE: RPG has agreed to consider dynamic line rating solutions to congestion problems
SO	21	Evaluate Emergency Electric Curtailment Plan (EECP) Steps	Determine if the existing EECP steps need to be modified to take into account the increasing amount of variable wind generation in the ERCOT system.	OWG	Complete	Low	Market Participants	PRR/NPRR	COMPLETE: PRR 769 approved by BOD and NPRR 142 at January 20 BOD meeting
SO	24	Settlement of Advanced Meters in the Nodal Market	Determine appropriate settlement timeline to accommodate use of advanced meters in the Nodal Market design.	AMIT	Complete	Medium	Market Participants	Other	COMPLETE: Go-live date is November 2009; all provisioned advanced meters will be settled on a 15-minute basis.
SO	27	Manual Curtailment of Wind Generation to Resolve Local Congestion	Determine if changes can be made in the existing zonal systems to allow for automating curtailment of wind to resolve local congestion problems.	CMWG	Complete	High	ERCOT	Other	COMPLETE: ERCOT Operations discussed this issue extensively at February 2009 CMWG meeting; no reasonable, timely or cost-effective solution is available in the existing zonal market; issue is resolved by the Nodal market design.
SO	28	SPS Actuation for N-0 Conditions	Determine possible changes to eliminate actuation of special protection systems (SPS) caused by variable output of wind farms.	CMWG	Near Term	Medium	ERCOT	OGR	COMPLETE: OGR 224 has been approved by TAC in September, 2009
SP	1	Verify Wind Turbine Technical Data	Create and maintain an inventory of installed wind turbine characteristics.	ERCOT Operations	Complete	Medium	ERCOT	Other	COMPLETE: Survey has been completed
WT	2	Wind Workshop III - Summer 2009	Develop list of topics and speakers for the ERCOT Wind Workshop III to be held in the summer of 2009.	RTWG/ERCOT Operations	Near Term	Low	Market Participants	Other	COMPLETE - Workshop held on June 26, 2009

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Issue Category	Issue No.	Title	Description	Current Group	Priority	Impact	Solution Implemented by	Revision Mechanism	Status
WT	4	Wind in the Nodal Market	Develop presentation for use in the Wind Workshop explaining how wind generation will be treated in the Nodal Market design.	RTWG/ERCOT Operations	Complete	Low	Market Participants	Other	COMPLETE: Presentation included in ERCOT On-Line Training Course for Wind