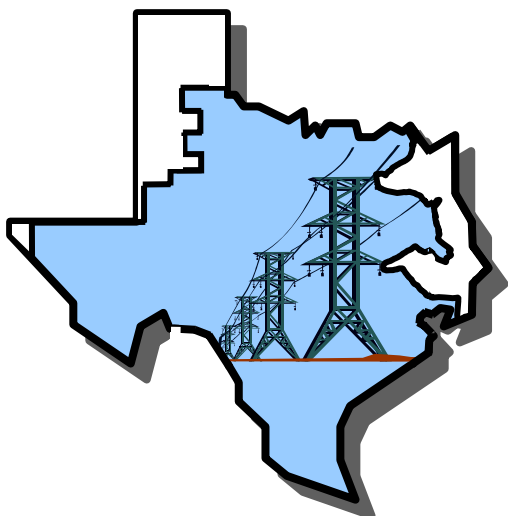




# System Planning Division



## Monthly Status Report to Reliability and Operations Subcommittee for February 2008

### Report Highlights

#### Item

1. ERCOT is currently tracking 233 [active generation interconnection requests](#) totaling over 103,000 MW. This includes almost 46,000 MW of wind generation.
2. [New Interconnect Agreements](#) signed:
  - Sherbino Mesa Wind Farm (06INR0012) for 300 MW in Pecos County
  - Coyote Run Wind Farm (07INR0036) for 184 MW in Borden County
3. The 2007 CSC Utilization Report was presented to WMS on February 20. Details at: [http://www.ercot.com/meetings/wms/keydocs/2008/0220/06\\_CSCuseJan-Dec\\_20080219.ppt](http://www.ercot.com/meetings/wms/keydocs/2008/0220/06_CSCuseJan-Dec_20080219.ppt)
4. [Regional Planning](#) is currently reviewing proposed transmission improvements with a total cost of \$180.00 M.
5. [The final results of the Wind Impact Study](#) presented to the ROS Wind Impact Task Force on Feb. 27 are posted at: <http://www.ercot.com/calendar/2008/02/20080227-WIND.html>
6. [Annual Load Data Request](#) (ALDR) Process Underway

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# 1. Generation Interconnection

Additional information regarding detailed generation interconnection and impact studies is contained in the “Generation Project Interconnection Information” folder in the “Operations and System Planning” area on the ERCOT website: <http://oldercot.ercot.com/tmaps>.

## 1.1. New Generation Beginning Commercial Operations

None for February

## 1.2. New Signed Interconnection Agreements (also found in 1.4 Table)

- 06INR0012, Sherbino Mesa Wind Farm for 300 MW in Pecos County
- 07INR0036, Coyote Run Wind Farm for 184 MW in Borden County

## 1.3. Summary of Active Generation Interconnection Requests

<b>GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED</b>					
Currently tracking 233 active generation interconnection or change requests					
As of February 29, 2008					
		North	South	West	Total
Security Screening Study		5	8	19	38
SSS Completed		9	9	10	28
Full Interconnect Study		27	31	70	128
FIS Completed		0	1	2	3
Interconnect Agreement Completed		8	6	23	37
Capacity for Grid, MW		<b>28,389</b>	<b>31,370</b>	<b>43,518</b>	<b>103,277</b>
Wind Capacity, MW		2,463	4,237	39,923	46,623

Fuel	Public (MW)	Non-public (MW)	Total (MW)
Natural gas	4,990	27,298	32,288
Nuclear	9,186	6,400	15,586
Coal	4,841	3,514	8,355
Wind	10,276	36,347	46,623
Other		425	425
<b>Totals</b>	<b>29,293</b>	<b>73,984</b>	<b>103,277</b>

## 1.4. Potential Future Generation Interconnections

The table below summarizes the publicly known potential future generation projects for the ERCOT region. (IA=Interconnect Agreement, PL=Public Letter)

## Future Generation Interconnections (Public Projects) as of February 29, 2008

INR #	Site Name	Status	County	Region	Fuel	In Service Date	MW into Grid	Change from Last Report
071NR0049	J T Deely Upgrade	PL	South	80	Coal	Nov-07	80	
031NR0034	Silver Star Project - Clipper	IA	North	60	Wind	Apr-08	60	
071NR0028	Goat Wind	IA	West	150	Wind	Apr-08	150	
071NR0030	Louis (Buffalo Gap 3)	IA	West	138	Wind	Apr-08	138	
061NR0036	Quail Run Energy Center 2 Colorado Bend Energy Center	IA	West	275	Gas	May-08	275	
061NR0035	Airtricity Panther Creek Wind Farm	IA	South	275	Gas	Jun-08	275	
071NR0022	Airtricity Panther Creek Wind Farm	IA	West	150	Wind	Jun-08	150	
071NR0027	South Houston Green Pwr Exp	IA	South	244	Gas	Jun-08	244	Date Change
081NR0028	McAdoo Energy Center	IA	North	300	Wind	Jul-08	300	
031NR0030	Wild Horse Wind Farm 2	IA	West	39	Wind	Aug-08	39	
041NR0011b	Mesquite Wind Phase 4	IA	West	136	Wind	Aug-08	136	
041NR0011c	Cottonwood Wind	IA	West	100	Wind	Aug-08	100	
041NR0017	Ocotillo Wind Farm 1	IA	West	59	Wind	Aug-08	59	
081NR0038	M Bar Wind	PL	West	194	Wind	Sep-08	194	
061NR0012	Sherbino Mesa Wind Farm	IA	West	300	Wind	Oct-08	300	New IA
071NR0025	Airtricity Lamesa Wind Plant	IA	West	183	Wind	Oct-08	183	
071NR0034	Wolf Ridge Wind Farm	IA	North	201	Wind	Oct-08	201	
071NR0037	Bull Creek Wind Plant	IA	West	180	Wind	Oct-08	180	
071NR0045a	Airtricity Pyron Wind Farm	IA	West	303	Wind	Nov-08	303	
071NR0045b	Airtricity Inadale	IA	West	212	Wind	Nov-08	212	
041NR0011e	Hackberry Wind Farm	IA	West	165	Wind	Dec-08	165	
051NR0015a	Gulf Wind 1	IA	South	283	Wind	Dec-08	283	
061NR0022a	Penascal Wind Farm 1	IA	South	202	Wind	Dec-08	202	
071NR0005	Notrees-1	IA	West	150.75	Wind	Dec-08	151	
071NR0011	Turkey Track Energy Center	IA	West	300	Wind	Dec-08	300	
071NR0029	South Trent Wind Farm	IA	West	101.2	Wind	Dec-08	101	
081NR0018	Gunsight Mountain	IA	West	120	Wind	Dec-08	120	
081NR0025	Pistol Hill Energy Center	PL	West	300	Wind	Dec-08	300	
081NR0037	Airtricity Panther Creek 2	IA	West	220	Wind	Dec-08	220	
081NR0053	Elbow Creek Wind Project	IA	West	117.3	Wind	Dec-08	117	
081NR0059	Gray Wind Project	PL	West	141	Wind	Dec-08	141	
091NR0026a	Sterling Energy Center	PL	West	200	Wind	Dec-08	200	
071NR0036	Coyote Run Wind Farm	IA	West	184	Wind	Mar-09	184	New IA
081NR0046	Bosque Expansion	IA	North	255	Gas	Mar-09	255	
081NR0065	Buffalo Gap 4 and 5	PL	West	465	Wind	Mar-09	465	
081NR0040	Lenorah Project	PL	West	350	Wind	May-09	350	
091NR0028	V H Braunig 6 Wind Tex Stephens Wind Farm	PL	South	185	Gas	May-09	185	
091NR0060	Wind Tex Stephens Wind Farm	PL	West	141	Wind	May-09	141	
081NR0035	Cedar Bayou 4	IA	South	539	Gas	Jun-09	539	
091NR0026	Sterling Energy Center	PL	West	300	Wind	Jun-09	300	
091NR0027	Winchester Peaking Plant	PL	South	178	Gas	Jun-09	178	
091NR0036	McAdoo Energy Center II	PL	West	500	Wind	Jun-09	500	
091NR0045	Sand Hill Peakers	PL	South	90	Gas	Jun-09	90	
081NR0003	Sandow 5	IA	North	581	Coal	Jul-09	581	

05INR0015b	Gulf Wind 2	PL	South	400	Wind	Sep-09	400
09INR0015	Comanche Peak 1&2 Upgrade	PL	North	86	Nuclear	Oct-09	86
03INR0030	Wild Horse Wind Farm 1	IA	West	60	Wind	Nov-09	60
09INR0006	Oak Grove SES 1	IA	North	855	Coal	Nov-09	855
09INR0034	Gatesville Wind Farm	PL	North	200	Wind	Dec-09	200
10INR0010	Jack County 2	PL	North	499	Gas	Jan-10	499
09INR0037	Scurry County Wind III	PL	West	350	Wind	Mar-10	350
06INR0006	Cobisa-Greenville	PL	North	1750	Gas	May-10	1,750
09INR0006	Oak Grove SES 2	IA	North	855	Coal	May-10	855
09INR0002	J K Spruce 2	IA	South	750	Coal	Jun-10	750
05INR0015c	Gulf Wind 3	PL	South	400	Wind	Sep-10	400
09INR0001	Sandy Creek 1	IA	North	925	Coal	Sep-10	925
06INR0026	Wild Horse Mountain	IA	West	120	Wind	Dec-10	120
12INR0003	Throckmorton Wind Farm	PL	West	400	Wind	Dec-10	400
11INR0007	Mountain Creek	PL	North	700	Gas	Apr-11	700
11INR0001	Twin Oaks 3	PL	North	630	Coal	Jun-11	630
07INR0004	Pampa Energy Center	PL	West	165	Coal	May-12	165
09INR0024	B&B Panhandle Wind	PL	West	1001	Wind	Jun-12	1,001
12INR0004	Fort Concho Wind Farm	PL	West	400	Wind	Jul-12	400
11INR0011	Victoria City Nuclear	PL	South	3200	Nuclear	Jan-15	3,200
15INR0002	Comanche Peak 3 and 4	PL	North	3200	Nuclear	Jan-15	3,200
15INR0008	STP 3 and 4	PL	South	2700	Nuclear	Jan-15	2,700
<b>Total</b>							<b>29,293</b>

## 2. Regional Planning Group Project Reviews

- Luminant has submitted two interrelated, yet independent projects for review. The first project is the planned upgrade of the Tyler Northeast to Tyler East 138 kV line, which was planned to be complete in May 2012, but will be accelerated to May 2009 with an estimated total project cost of \$4 M. The second related project is the addition of the Tyler Grande (Tyler Southeast) 345/138 kV autotransformer and an increase in the planned capacity of Tyler Grande (Southeast) to Tyler South from 326 MVA to 400 MVA. The second project is planned to be complete in May 2009 with a cost of approximately \$10 M and will require ERCOT Board approval due to the new 345/138 kV Tyler Grande switching station and associated autotransformer. The ERCOT review of this project is complete and will be presented to TAC on March 6, 2008 and the ERCOT Board of Directors on March 18, 2008.
- Oncor submitted a two phase project to relieve congestion that will occur when two new Wind units are connected to the transmission system in the Lamesa area. The first phase of the project will upgrade both ends, but not the middle of the Lamesa to Bluff Creek 138 kV line, rebuild the Bluff Creek to China Grove 138 kV line, rebuild the Lamesa to Ackerly Vealmoor 69 kV line to 138/69 kV double circuit, rebuild the Lamesa 138 kV switching station, and build a new 138 kV Ackerly Vealmoor station. All transmission rebuilds will utilize double circuit construction with one circuit in place, except the Lamesa to Ackerly Vealmoor 138/69 kV double circuit. The cost of the first phase of these upgrades is \$40.3 M. The second phase of the project has additional work to be done if a third wind unit signs and interconnect agreement that will add second circuits to all rebuilt lines and include station upgrades at China Grove and Big Spring. The additional cost of the second phase upgrades is \$40.5 M. The first phase was included as an

economic project in the 2007 Five Year Plan. The second phase will be studied separately. Both phases of this project are still being reviewed.

- Oncor submitted a two part project based on the 2007 Five Year Plan that will replace the 517 MVA 345/138 kV autotransformer at Roanoke Switch with a 600 MVA autotransformer in 2009 at a cost of \$7.25 M. In 2010 the old Roanoke auto will be installed at Eagle Mountain which showed high congestion levels in the Five Year Plan at a cost of \$2.0 M. The review of this two-part project is complete and a RPG Acceptance Letter was mailed on or around February 25, 2008.
- Oncor submitted a project to upgrade the Payne to Collin 138 kV to a rating of 326 MVA using double circuit structures with one circuit in place for a cost of \$19 M. This project is currently in ERCOT Independent Review.
- Oncor submitted a project to construct the Krum Tap Switching Station and rebuild the Krum – Decatur 69 kV line and the Krum Tap 138 kV line as a 138 kV double-circuit line with one circuit in place using a conductor with a minimum rating of 214 MVA. The estimated cost of this project is \$17.8 M and is currently in ERCOT Independent Review.
- LCRA submitted a project to add a 3<sup>rd</sup> 345/138 kV autotransformer at the Zorn substation. This project should be complete by summer peak 2013 and cost is estimated at \$15 M. This project is currently in ERCOT Independent Review.
- Oncor submitted a project to upgrade the Midland East – Stanton East – Big Spring West – Big Spring Switch 138 kV line. The proposed upgrade will replace the existing 4/0 ACSR 84 MVA circuit with a single circuit line with a long-term emergency rating of 394 MVA. The estimated completion date is peak 2010 with a cost of approximately \$ 24 M.

### 3. Congestion Management

**2007 CSC Utilization Report:** for the details of the table below (intervals, flows / limits, costs and quantities) see the **CSCuseJan-Dec 20080219** presentation to the February 20 WMS (Item 6 in the Key Documents) at the following link:

<http://www.ercot.com/calendar/2008/02/20080220-WMS.html>

<i>\$Million</i>	E_N	N_H	S_H	S_N	N_W	W_N	N_S	TOTAL
<i>01/2008</i>	--	--	--	-2.0	.1	6.6	2.6	7.3
<i>2007 total</i>	--	39.8	12.5	-1.5	5.1	4.4	--	60.2
<i>2006 total</i>	7.4	8.4	31.4	1.5	3.0	0.2	--	52.0

Settlement quality data available through November 2007

### 4. Other Notable Activities

All postings referred to below can be found at <http://oldercot.ercot.com/tmaps> unless otherwise indicated.

- GE gave the final presentation on the **Wind Impact/Ancillary Services Study** on February 27 at the MET Center. A copy of the presentation is available at:
  - <http://www.ercot.com/calendar/2008/02/20080227-WIND.html>
  - GE is preparing a final report describing the assumptions, methodology and results of their study. A draft copy of this final report is expected on March 15. Stakeholder comments on the report will be accepted through March 21, and the final Wind Impact Study report will be due on March 28.
- **CREZ Study (SB20)** continues
- System Planning is analyzing transmission solutions as part of the CREZ Transmission Optimization Study. The next RPG-CREZ Task Force meeting will be held on March 10 in room 206.
- The '**ERCOTFebruaryTPITNoCost02012008**' report was posted February 29. The 1999 – 2005 project information is posted separately as filename '**ERCOTTPIT1999 – 2005**'. Both these files can be found in the Transmission Project & Information Tracking (TPIT) folder.
- **Texas Renewable Energy Credit Trading Program** enhancements to the program software required by Senate Bill 20 have been successfully designed and implemented. Details are in the PUCT substantive rule 25.173 found at: <http://www.puc.state.tx.us/rules/subrules/electric/index.cfm> . Enhancements include:
  - Increased targets for renewable energy in Texas to 5,000 MW by year 2015. This includes a target of 500 MW of non-wind renewables
  - Compliance premiums to incent non-wind development
  - Redefined REC Aggregators and their responsibilities
- As a reminder, **ALDR** information was due to ERCOT by March 1, 2008. The final ALDR will be ready for SSWG by the end of March.