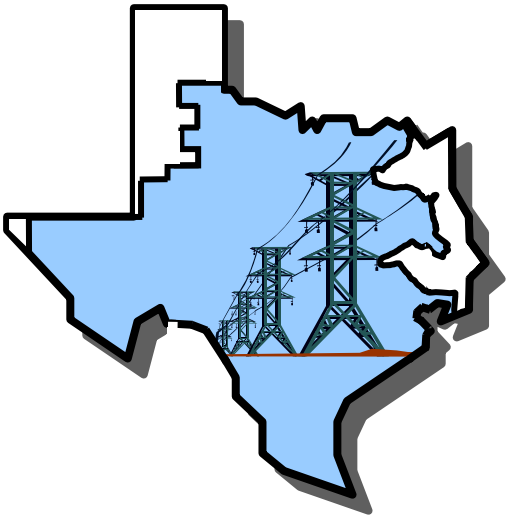
System Planning Division



Monthly Status Report to Reliability and Operations Subcommittee for September 2008

Report Highlights

Item

1.

- **ERCOT is currently tracking 253 active generation interconnection requests totaling over 108,000 MW. This includes almost 53,000 MW of wind generation.**
- **152 MW of new wind generation began commercial operation bringing the currently installed total of wind power capacity to 6,023 MW.**

2.

- **Regional Planning is currently reviewing proposed transmission improvements with a total cost of $548.9 Million**
- **Transmission Projects approved in 2008 to date total $255 Million**
- **All projects (in engineering, routing, licensing and construction) totals approximately $3.8 Billion**
- **Transmission Projects energized in 2008 total about $375 Million**
- **Oncor's Nacogdoches to Lufkin 345 kV Line Project received ERCOT Board recommendation this month**

Table of Contents

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://planning.ercot.com/login/login.

1.1. New Generation Beginning Commercial Operations

- Sherbino 1 Wind Farm (06INR0012a) in Pecos County for 150 MW
- Texas State Technical College Wind (non-modeled) in Nolan County for 2 MW
  - The total installed wind capacity is now 6,023 MW.

1.2. New Signed Interconnection Agreements

Papalote Creek Wind Farm (08INR0012) in San Patricio County for 180 MW

1.3. Summary of Active Generation Interconnection Requests

GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED
Currently tracking 253 active generation interconnection or change requests
As of September 30, 2008

		North	South	West	Total
Security Screening Study		3	8	19	30
SSS Completed		6	15	19	41
Full Interconnect Study		32	28	79	139
FIS Completed		1	9	0	10
Interconnect Agreement Completed		7	10	17	34
Capacity for Grid, MW		**25,938**	**37,593**	**45,120**	**108,651**
Wind Capacity, MW		2,160	10,321	40,972	53,453

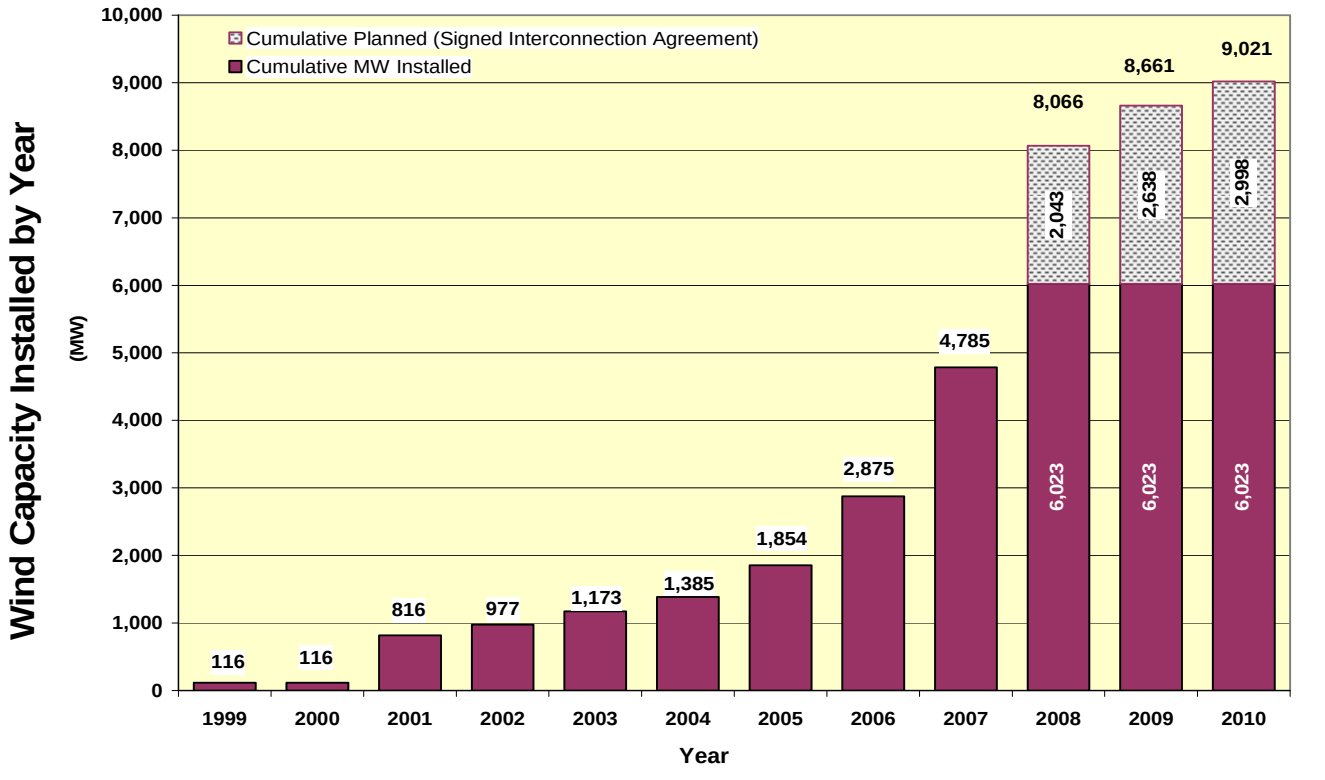
Fuel Type	Non-Public (MW)	Public (MW)	Grand Total (MW)
Gas-CC	23,910	5,519	29,429
Gas-CT	900	505	1,405
Nuclear	3,200	9,186	12,386
Coal	5,344	4,131	9,475
Wind	44,477	8,976	53,453
Solar	828	0	828
Biomass	50	145	195
Other	1,480	0	1,480
Grand Total	80,189	28,462	108,651

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, XX= cancelled)

Future Generation Interconnections (Public Projects) as of September 30, 2008								
INR	Site Name	Status	County	Region	In-Service Date	Fuel	MW Into Grid	Change from Last Report
08INR0038	M Bar Wind	PL	Andrews	West	Oct-08	Wind	194	Date
06INR0022a	Penascal Wind Farm 1	IA	Kenedy	South	Oct-08	Wind	202	Date
08INR0050	Victoria Power Station	IA	Victoria	South	Oct-08	Gas	332	
07INR0037	Bull Creek Wind Plant	IA	Borden	West	Oct-08	Wind	180	
07INR0034	Wolf Ridge Windfarm	IA	Cooke	North	Oct-08	Wind	113	
07INR0045a	Airtricity Pyron Wind Farm	IA	Scurry	West	Nov-08	Wind	249	
07INR0045b	Airtricity Inadale	IA	Scurry	West	Nov-08	Wind	197	
08INR0037	Airtricity Panther Creek 2	IA	Howard	West	Nov-08	Wind	115	
07INR0027	S Houston Grn Pwr Exp	IA	Galveston	South	Nov-08	Gas	244	
09INR0026a	Sterling Energy Center	PL	Sterling	West	Dec-08	Wind	200	
08INR0059	Gray Wind Project	PL	Borden	West	Dec-08	Wind	141	
08INR0053	Elbow Creek Wind Project	IA	Howard	West	Dec-08	Wind	117	
08INR0025	Pistol Hill Energy Center	PL	Ector	West	Dec-08	Wind	300	
07INR0029	South Trent Wind Farm	IA	Taylor	West	Dec-08	Wind	101	
07INR0011	Turkey Track Energy Center	IA	Nolan	West	Dec-08	Wind	170	
04INR0011e	Hackberry Wind Farm	IA	Shackelford	West	Dec-08	Wind	165	
07INR0005	Notrees-1	IA	Ector	West	Dec-08	Wind	151	
05INR0015a	Gulf Wind 1	IA	Kenedy	South	Dec-08	Wind	283	
08INR0065	Buffalo Gap 4 and 5	PL	Nolan	West	Mar-09	Wind	465	
08INR0046	Bosque Expansion	IA	Bosque	North	Mar-09	Gas	255	
07INR0036	Coyote Run Windfarm	IA	Borden	West	Mar-09	Wind	225	
09INR0072	Dansby3	PL	Brazos	North	Apr-09	Gas	48	
07INR0028b	Goat Wind - phase 2	IA	Sterling	West	Apr-09	Wind	70	Date/MW
09INR0060	Stephens Wind Farm	PL	Borden	West	May-09	Wind	141	
09INR0028	V H Braunig 6	PL	Bexar	South	May-09	Gas	185	
08INR0040	Lenorah Project	PL	Martin	West	May-09	Wind	350	
08INR0012	Papalote Creek Wind Farm	IA	San Patricio	South	May-09	Wind	180	New
09INR0036	McAdoo Energy Center II	PL	Dickens	West	Jun-09	Wind	500	
09INR0026	Sterling Energy Center	PL	Sterling	West	Jun-09	Wind	300	
08INR0035	Cedar Bayou 4	IA	Chambers	South	Jun-09	Gas	539	
09INR0027	Winchester Power Park	IA	Fayette	South	Jul-09	Gas	178	
08INR0003	Sandow 5	IA	Milam	North	Jul-09	Coal	581	
09INR0006a	Oak Grove SES 1	IA	Robertson	North	Jul-09	Coal	855	
08INR0033	Lufkin	IA	Angelina	North	Sep-09	Biomass	45	
05INR0015b	Gulf Wind 2	PL	Kenedy	South	Sep-09	Wind	400	
08INR0018	Gunsight Mountain	IA	Howard	West	Oct-09	Wind	120	
09INR0015	Comanche Peak 1&2 Upgrade	PL	Somervell	North	Oct-09	Nuclear	86	
09INR0045	Sand Hill Peakers	PL	Travis	South	Nov-09	Gas	94	
09INR0039	Nueces Bay 7 Repowering	IA	Nueces	South	Nov-09	Gas	327	
09INR0038	Barney Davis 2 Repowering	IA	Nueces	South	Nov-09	Gas	360	
09INR0034	Gatesville Wind Farm	PL	Coryell	North	Dec-09	Wind	200	

09INR0006b	Oak Grove SES 2	IA	Robertson	North	Jan-10	Coal	855	
06INR0029	Jackson Mountain	IA	Nolan	West	Jan-10	Wind	90	
09INR0037	Scurry County Wind III	PL	Scurry	West	Mar-10	Wind	350	
06INR0006	Cobisa-Greenville	PL	Hunt	North	May-10	Gas	1,750	
09INR0002	J K Spruce 2	IA	Bexar	South	Jun-10	Coal	750	
05INR0015c	Gulf Wind 3	PL	Kenedy	South	Sep-10	Wind	400	
06INR0012b	Sherbino Mesa Wind Farm 2	IA	Pecos	West	Oct-10	Wind	150	
12INR0003	Throckmorton Wind Farm	PL	Throckmorton	West	Dec-10	Wind	400	
06INR0026	Wild Horse Mountain	IA	Howard	West	Dec-10	Wind	120	
10INR0020	Panda Temple Power	PL	Bell	North	May-11	Gas	1,092	
10INR0010	Jack County 2	PL	Jack	North	Jun-11	Gas	620	
09INR0007	Nacogdoches Project	PL	Nacogdoches	North	Apr-12	Biomass	100	
07INR0004	Pampa Energy Center	PL	Gray	West	May-12	Coal	165	
09INR0024	B&B Panhandle Wind	PL	Carson	West	Jun-12	Wind	1,001	
09INR0001	Sandy Creek 1	IA	McLennan	North	Jun-12	Coal	925	
12INR0004	Fort Concho Wind Farm	PL	Tom Green	West	Jul-12	Wind	400	
04INR0011c	Cottonwood Wind	IA	Shackelford	West	Jun-13	Wind	100	Date
04INR0011b	Mesquite Wind Phase 4	IA	Shackelford	West	Jun-13	Wind	136	Date
11INR0011	Victoria City Nuclear	PL	Victoria	South	Jan-15	Nuclear	3,200	
15INR0008	STP 3 and 4	PL	Matagorda	South	Jan-15	Nuclear	2,700	
15INR0002	Comanche Peak 3 and 4	PL	Somervel	North	Jan-15	Nuclear	3,200	
						TOTAL	28,462	



(as of September 30,2008)

2. Regional Planning Group Project Reviews

- American Electric Power Service Corporation submitted a project to construct 2 new 138 kV substations, rebuild a 138 kV circuit, build 2 new 138 kV circuits, and install a new 138/69 kV autotransformer in the Abilene/San Angelo area. The estimated cost of this project is $105.9 M. This project is in ERCOT Independent Review.

- Luminant Energy submitted the Twin Butte – Kendall 345 kV double circuit line with series compensation. It is a $327 million project comprised of 170 miles of 345 kV double circuits with both circuits in place, substation and breaker additions at Twin Butte and Kendall, and a 50% series compensation in each circuit. This project is in ERCOT Independent Review.

- Luminant submitted a set of projects to reduce North to South Congestion. It consists of several 138 kV line upgrades and series reactor installations. The total cost for all projects is approximately $31 M. This project is in ERCOT Independent Review.

- Oncor submitted a project to add a 345 kV transmission line from Nacogdoches Southeast to Lufkin Switch with an estimated cost of $29.2 M . This project was a result of the 2007 Five-Year Plan. This project was endorsed by TAC on September 4, 2008 and recommended by the ERCOT Board on September 16, 2008.

- CPS Energy submitted a project to add a 138 kV line from Westover Hills to their Anderson substation to complete a new circuit from VLSI substation to Anderson substation. The VLSI to Westover Hills 138 kV portion will be in-service in 2009 to serve new load at Westover Hills. This project was a result of the 2007 Five-Year Plan. The estimated cost of this project is $8.2 M with an in-service date of peak 2010. This review of this project is complete and a RPG acceptance letter was sent on September 24, 2008.

- AEPSC submitted a project to add a 345 kV Transmission Substation at the point in Haskell County where the Oklaunion to Mulberry Creek and Tonkawa to Graham 345 kV lines cross called Clear Crossing and construct a new 345 kV transmission circuit from the existing Oklaunion Substation to the Bowman Substation. This project was a result of the 2007 Five-Year Plan. Clear Crossing is projected to be in service by peak 2010 with a cost of $14 M. The Oklaunion to Bowman 345 kV line is estimated to be in service by the end of 2011 with a cost of $ 71 M.

3. Other Notable Activities

All postings referred to below can be found at http://planning.ercot.com/login/login unless otherwise indicated.

- ERCOT TPIT report for 08/01/2008 completed (3rd quarter) and posted on 08/18/2008.
- ERCOT TPIT report worksheets have been distributed to TO's in preparation for receiving updated information for the November TPIT report. All data is due to ERCOT no later than November 3, 2008.
- Updated SSWG 2008 Data Set A, 2008 Data Set B, and 2009 Data Set A cases have been posted.
- ERCOT Regional Planning is continuing work on the 2013 case to be used for reliability analysis and RPG analysis. The purpose of this effort is to extend the 2007 Five-Year plan from 2012 to 2013. Several generation units were selected for generation unavailable studies in accordance with Operations Guide 5.1.4. Reliability projects were added to eliminate all unserved energy encountered under the various generation unavailable scenarios. The absence of unserved energy will be confirmed with this set of projects for all selected generation unavailable. All Reliability Projects, including those determined with all generation available, will then be "backed out" individually to confirm their need. Subsequently, the list of Reliability projects will be sent to Transmission Owners for review.