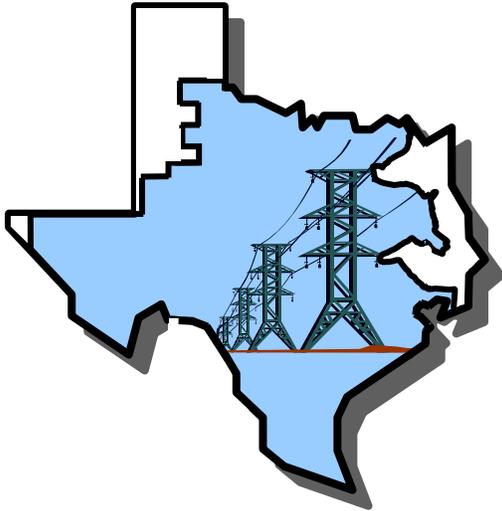




# System Planning Division



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

### Report Highlights

#### Item

1.
  - ERCOT is currently tracking 246 [active generation interconnection requests](#) totaling almost 106,000 MW. This includes almost 54,000 MW of wind generation
  - [New Interconnect Agreements](#) signed:
    - Lufkin Biomass (08INR0033) in Angelina County for 45 MW
2.
  - Regional Planning is currently reviewing proposed transmission improvements with a total cost of \$575 Million
  - Transmission Projects approved in 2008 to date total \$169 Million
  - All projects (in engineering, routing, licensing and construction) totals approximately \$3.6 Billion
  - Transmission Projects energized in Q2 of 2008 total about \$160 Million

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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
- The installed wind capacity is 5,519 MW.

## 1.2. New Signed Interconnection Agreements

- Lufkin Biomass Generation (08INR0033) in Angelina County for 45 MW

## 1.3. Summary of Active Generation Interconnection Requests

<b>GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED</b>					
<b>Currently tracking 242 active generation interconnection or change requests</b>					
<b>As of June 30, 2008</b>					
		<b>North</b>	<b>South</b>	<b>West</b>	<b>Total</b>
Security Screening Study		2	14	10	26
SSS Completed		8	5	28	41
Full Interconnect Study		29	29	77	135
FIS Completed		0	6	0	6
Interconnect Agreement Completed		8	7	23	38
Capacity for Grid, MW		<b>25,143</b>	<b>35,493</b>	<b>45,343</b>	<b>105,979</b>
Wind Capacity, MW		2,415	9,366	42,023	53,804

<b>Fuel</b>	<b>Non-Public (MW)</b>	<b>Public (MW)</b>	<b>Total (MW)</b>
<b>Combined Cycle - Gas</b>	24,102	4,832	28,934
<b>Combustion Turbine - Gas</b>	400	505	905
<b>Nuclear</b>	3,200	9,186	12,386
<b>Coal</b>	4,144	4,131	8,275
<b>Wind</b>	43,714	10,090	53,804
<b>Other</b>	1,630	45	1,675
<b>Totals</b>	<b>77,190</b>	<b>28,789</b>	<b>105,979</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 June 30, 2008

INR	SiteName	Status	County	Region	In-Service Date	Fuel	MW Into Grid	Change from Last Report
07INR0022	Panther Creek Wind Farm	IA	Howard	West	Jul-08	Wind	150	Date Chg
08INR0028	McAdoo Energy Center	IA	Dickens	North	Jul-08	Wind	300	
08INR0050	Victoria Power Station	IA	Victoria	South	Jul-08	GasCC	332	
07INR0027	South Houston Green Pwr Exp Prj1	IA	Galveston	South	Aug-08	GasCC	244	Date Chg
04INR0011b	Mesquite Wind Phase 4	IA	Shackelford	West	Aug-08	Wind	136	
04INR0011c	Cottonwood Wind	IA	Shackelford	West	Aug-08	Wind	100	
04INR0017	Ocotillo Wind Farm 1	IA	Howard	West	Aug-08	Wind	59	
03INR0030b	Wild Horse Wind Farm 2	IA	Cottle	West	Aug-08	Wind	39	
08INR0055	Capricorn Ridge III	IA	Coke	West	Aug-08	Wind	249	
06INR0012a	Sherbino Mesa Wind Farm 1	IA	Pecos	West	Sep-08	Wind	150	
08INR0038	M Bar Wind	PL	Andrews	West	Sep-08	Wind	194	
07INR0034	Wolf Ridge Windfarm	IA	Cooke	North	Oct-08	Wind	113	
07INR0025	Lamesa Wind Plant	IA	Dawson	West	Oct-08	Wind	183	
07INR0037	Bull Creek Wind Plant	IA	Borden	West	Oct-08	Wind	180	
07INR0045b	Airtricity Inadale	IA	Scurry	West	Nov-08	Wind	212	
07INR0045a	Pyron Wind Farm	IA	Scurry	West	Nov-08	Wind	303	
05INR0015a	Gulf Wind 1	IA	Kenedy	South	Dec-08	Wind	283	
06INR0022a	Penascal Wind Farm 1	IA	Kenedy	South	Dec-08	Wind	202	
09INR0026a	Sterling Energy Center	PL	Sterling	West	Dec-08	Wind	200	
08INR0018	Gunsight Mountain	IA	Howard	West	Dec-08	Wind	120	
08INR0025	Pistol Hill Energy Center	PL	Ector	West	Dec-08	Wind	300	
07INR0029	South Trent Wind Farm	IA	Taylor	West	Dec-08	Wind	101.2	
07INR0005	Notrees-1	IA	Ector	West	Dec-08	Wind	150.75	
07INR0011	Turkey Track Energy Center	IA	Nolan	West	Dec-08	Wind	170	
08INR0037	Panther Creek 2	IA	Howard	West	Dec-08	Wind	220	
08INR0053	Elbow Creek Wind Project	IA	Howard	West	Dec-08	Wind	117.3	
08INR0059	Gray Wind Project	PL	Borden	West	Dec-08	Wind	141	
04INR0011e	Hackberry Wind Farm	IA	Shackelford	West	Dec-08	Wind	165	
08INR0046	Bosque Expansion	IA	Bosque	North	Mar-09	GasCC	255	
08INR0065	Buffalo Gap 4 and 5	PL	Nolan	West	Mar-09	Wind	465	
07INR0036	Coyote Run Windfarm	IA	Borden	West	Mar-09	Wind	225	
09INR0072	Dansby3	PL	Brazos	North	Apr-09	GasCT	48	
09INR0028	V H Braunig 6	PL	Bexar	South	May-09	GasCT	185	
08INR0040	Lenorah Project	PL	Martin	West	May-09	Wind	350	
09INR0060	Wind Tex - Stephens Wind Farm	PL	Borden	West	May-09	Wind	141	
08INR0035	Cedar Bayou 4	IA	Chambers	South	Jun-09	GasCC	539	
09INR0036	McAdoo Energy Center II	PL	Dickens	West	Jun-09	Wind	500	
09INR0026	Sterling Energy Center	PL	Sterling	West	Jun-09	Wind	300	

08INR0003	Sandow 5	IA	Milam	North	Jul-09	Coal	581	
09INR0006a	Oak Grove SES 1	IA	Robertson	North	Jul-09	Coal	855	
09INR0027	Winchester Power Park	IA	Fayette	South	Jul-09	GasCT	178	
08INR0033	Lufkin	IA	Angelina	North	Sep-09	Biomass	45	New IA
05INR0015b	Gulf Wind 2	PL	Kenedy	South	Sep-09	Wind	400	
09INR0015	Comanche Peak 1&2 Upgrade	PL	Somervell	North	Oct-09	Nuclear	86	
09INR0045	Sand Hill Peakers	PL	Travis	South	Nov-09	GasCT	94	
03INR0030a	Wild Horse Wind Farm 1	IA	Cottle	West	Nov-09	Wind	60	
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	GasCC	1750	
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	
06INR0026	Wild Horse Mountain	IA	Howard	West	Dec-10	Wind	120	
12INR0003	Throckmorton Wind Farm	PL	Throckmorton	West	Dec-10	Wind	400	
10INR0020	Panda Temple Power	PL	Bell	North	May-11	GasCC	1092	
10INR0010	Jack County 2	PL	Jack	North	Jun-11	GasCC	620	
07INR0004	Pampa Energy Center	PL	Gray	West	May-12	Coal	165	
09INR0001	Sandy Creek 1	IA	McLennan	North	Jun-12	Coal	925	
09INR0024	B&B Panhandle Wind	PL	Carson	West	Jun-12	Wind	1001	
12INR0004	Fort Concho Wind Farm	PL	Tom Green	West	Jul-12	Wind	400	
15INR0002	Comanche Peak 3 and 4	PL	Somervell	North	Jan-15	Nuclear	3200	
11INR0011	Victoria City Nuclear	PL	Victoria	South	Jan-15	Nuclear	3200	
15INR0008	STP 3 and 4	PL	Matagorda	South	Jan-15	Nuclear	2700	

## 2. Regional Planning Group Project Reviews

- 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. The review of this project has been completed and the RPG Acceptance letter was distributed on June 10<sup>th</sup>, 2008.
- AEPSC submitted a project to increase the reliability of service in the Presidio area. This project will install a second 138/69 kV autotransformer at Marfa in 2008, install 2-2.4 MW NaS battery units at Presidio in 2009, and replace the existing 69 kV line with a 138kV-capable but 69kV-operated line from Alamito Creek to Chinati to Presidio in 2012. Total cost of the project is estimated to be \$67 M. This project was presented to TAC on June 26<sup>th</sup>, 2008 and will be presented to the ERCOT Board of Directors on July 15<sup>th</sup>, 2008.
- Oncor submitted a project to upgrade the Hillsboro to Alvarado 69 kV line. This project will reconstruct the 27.2 mile line using conductor rated a minimum of 897 amperes on double circuit structures. The estimated cost is \$12.15 M. The review of this project has been completed and the RPG Acceptance letter was distributed on June 10<sup>th</sup>, 2008.
- Oncor submitted a project to add a 300 Mvar dynamic reactive device at Renner station (tentative) by summer 2010. This cost of this project will be \$35 M. This project is in ERCOT Independent Review.
- 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.
- Oncor submitted a project to add a second 345/138 kV autotransformer at Forney. This project was a result of the 2007 Five-Year Plan. It has completed the comment period with no comments and an RPG Acceptance letter is being prepared.
- 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 circuit 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 currently in the comment period.
- Oncor submitted a project to replace the Liggett #1 345/138 kV autotransformer with a 600 MVA autotransformer. This project is estimated to cost \$5.3 million and was a result of the 2007 Five-Year Plan. This project is currently in the comment period.
- Transmission Projects energized in Q2 of 2008 include:
  - Temple Pecan Creek - Lake Creek 138 kV line
  - Fairdale Load 69 kv to 138 kV voltage conversion
  - Walnut - Fairdale 69 kV line
  - Manvel
  - Hidalgo - S. McAllen 69 kV upgrade including transformers & equipment
  - Nolanville - Harker Heights 138 kV line

- Putnam, replace 69/138 kV transformer
- Waterport - Loma Alta 138 kV Circuit
- Key Substation equipment upgrade
- Exxon-Bertron Reconfiguration and Baytown - Rohmas substation
- Bunker – Hood rebuild
- Olney Auto
- Capote Substation conversion to 138 kV
- Exxon Sharon Ridge Substation upgrade
- Pancake – Gatesville rebuild

### 3. Other Notable Activities

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

- Individual TPIT Worksheets were sent out to TDSP June 19, 2008.
- Folder migrating from OLD SITE to NEW SITE is completed. Security rolls and metadata have been set for NEW SITE files.
  - Attend weekly PR60077 Registered Area Status meetings.
  - Beginning July 7, 2008 this website will be replaced by a redesigned Planning and Operations website. Registration for the current site is now closed. Please visit the new Planning and Operations Information site at <http://www.planning.ercot.com/login/register> to pre-register for the new site. The new site will be available July 7, 2008.
  - ERCOT Regional Planning has begun 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. Work on the 2009 Five-Year plan will begin in October 2008 after completion of the Steady State Working Group Data Set B.
  - ERCOT Regional Planning has started review of Reliability Standard Audit Worksheets (RSAWs) in preparation for the NERC compliance audit.