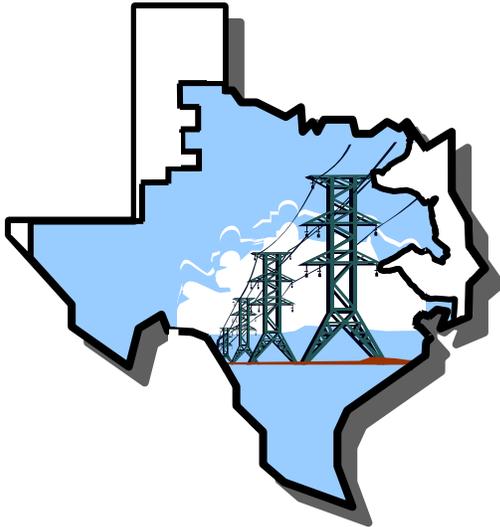




System Planning Division



Monthly Status Report to Reliability and Operations Subcommittee for October 2009

Report Highlights

Item

1.
 - ERCOT is currently tracking 222 active generation interconnection requests totaling over 77,000 MW. This includes over 44,000 MW of wind generation.

2.
 - Regional Planning is currently reviewing proposed transmission improvements with a total cost of \$1,031.70 Million
 - Transmission Projects approved in 2009 total \$284.4 Million
 - All projects (in engineering, routing, licensing and construction) total approximately \$9.2 Billion
 - Transmission Projects energized in 2009 total about \$416 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://planning.ercot.com/login/login>.

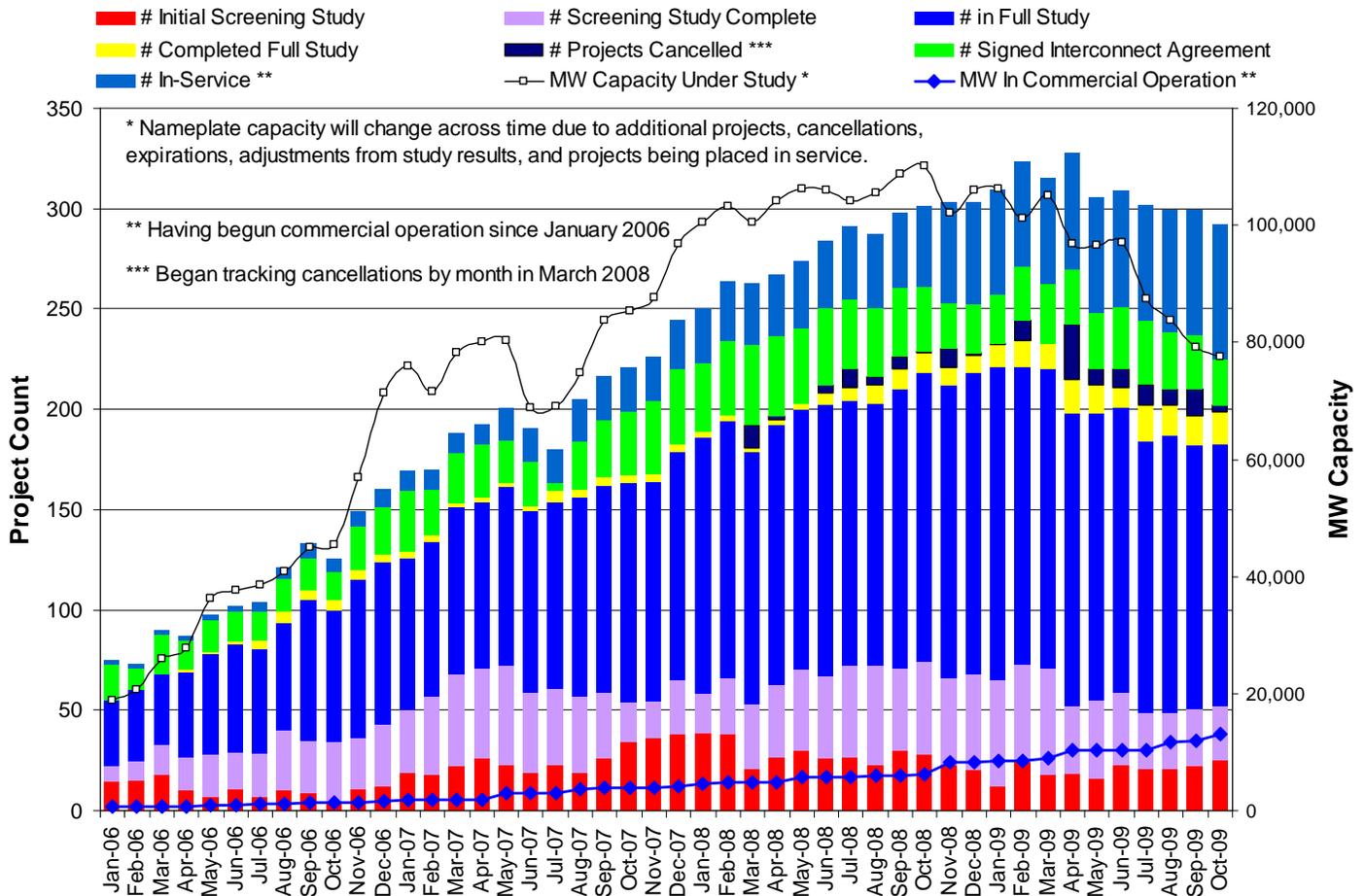
1.1 New Generation Registering for Commercial Operations

- Pearsall Gas Engine Plant Phase 1 (09INR0079a) in Frio County for 100 MW
- Dansby Unit 3 – Gas (09INR0072) in Brazos County for 48 MW
- Nueces Bay Repowering - Gas (09INR0039) in Nueces County for 701 MW (includes NB7 return to service)
- Langford Wind Power (10INR0026) in Tom Green County for 150 MW
- Lorraine Windpark (09INR0047) in Mitchell County for 251 MW
 - The total installed wind capacity is now 8,916 MW, of which 7,393 MW (83%) is located within the Western Congestion Management Zone.

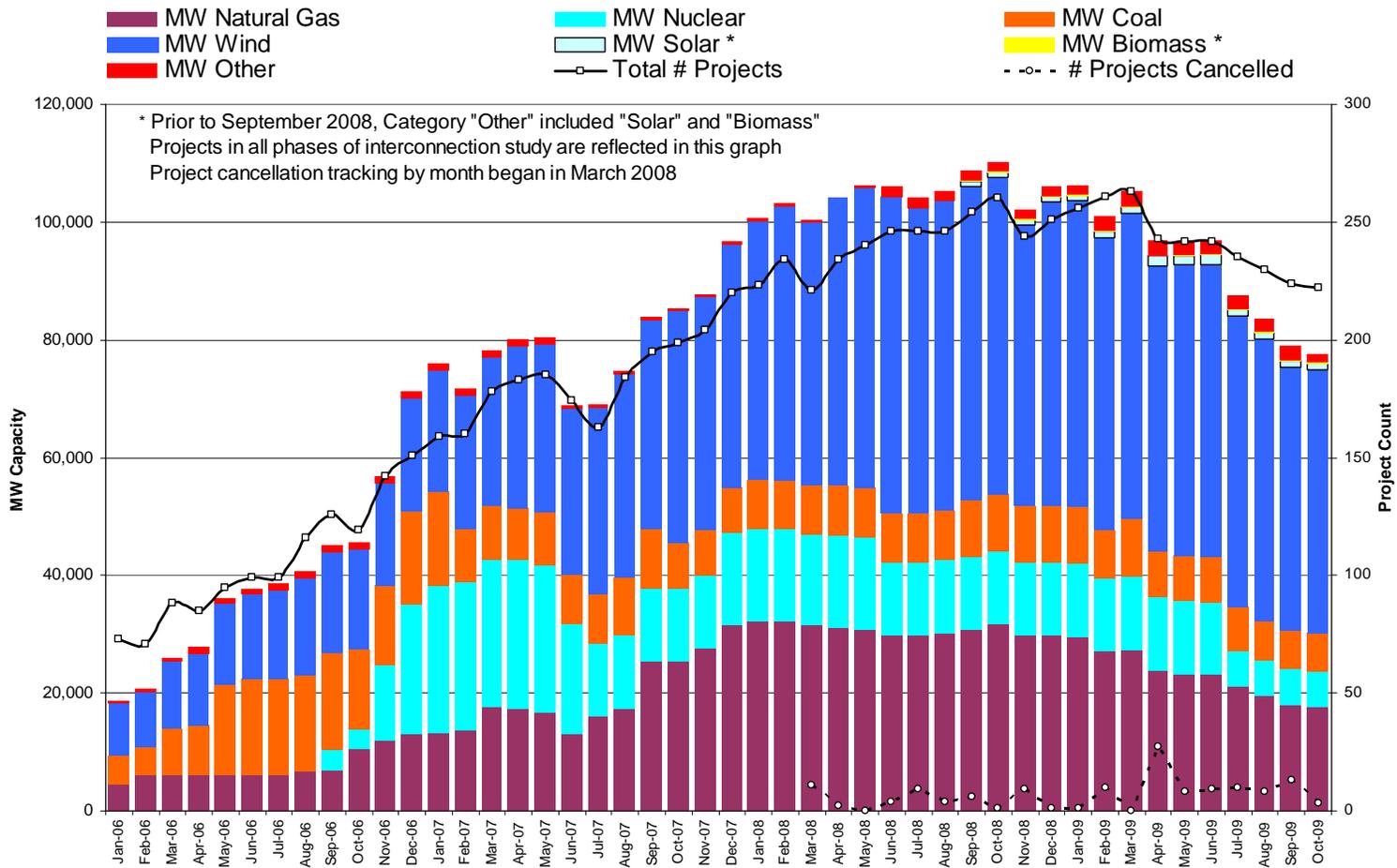
1.2 New Generation Interconnection Agreements – none for October

1.3 Summary of Active Generation Interconnection Requests

GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED				
Currently tracking 224 active generation interconnection or change requests				
As of September 30, 2009	North	South	West	Total
Security Screening Study	5	9	11	25
SSS Completed	6	8	13	27
Full Interconnect Study	25	22	84	131
FIS Completed	3	11	2	16
Interconnect Agreement Completed	7	9	7	23
Capacity under Interconnection Agreements	4,487	1,996	1,177	7,660
Capacity for Grid, MW	21,575	21,813	34,278	77,636
Wind Capacity, MW	4,415	8,241	31,998	44,654



Fuel Type	Confidential Projects (MW)	Projects Under Full Study (MW)	Projects w/ Interconnect Agreement/Public Letter (MW)	Grand Total (MW)
Gas-CC			3,554	16,650
Gas-CT			379	1,029
Total Gas	1,279	12,467	3,933	17,679
Nuclear			5,986	5,986
Coal	15	3,712	2,958	6,685
Wind	7,922	30,041	6,691	44,654
Solar	544	459		1,003
Biomass	58	50	145	253
Other	176	1,200		1,376
Grand Total	9,994	47,929	19,713	77,636



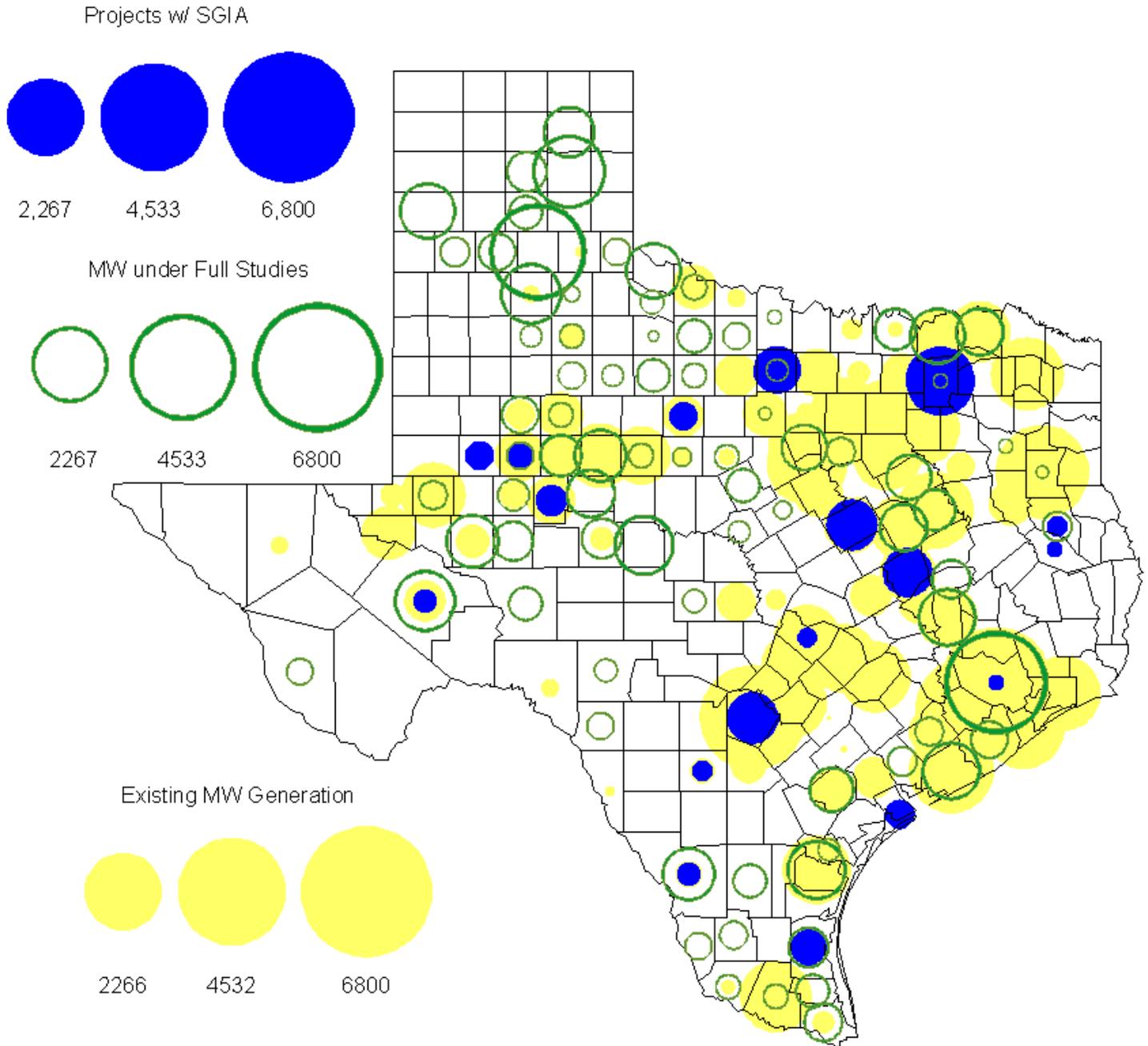
1.4 Publicly Disclosed Generation Interconnection Projects

The table below summarizes the publicly disclosed generation projects for the ERCOT region.

(IA=Interconnect Agreement, PL=Public Letter, XX= cancelled)

Generation Interconnections as of October 31, 2009								Change From Last Report
INR	SiteName	Status	County	Region	COD	FT	MWFor Grid	
09INR0015	Comanche Peak 1&2 Upgrade	PL	Somervell	North	Oct-09	Nuclear	86	
09INR0028	V H Braunig 6	IA	Bexar	South	Oct-09	Gas-CT	185	
09INR0002	J K Spruce 2	IA	Bexar	South	Nov-09	Coal	750	Date
09INR0034	Gatesville Wind Farm	PL	Coryell	North	Dec-09	Wind	200	
08INR0038	M Bar Wind	PL	Andrews	West	Dec-09	Wind	194	
11INR0014	TECO Central Plant	IA	Harris	South	Feb-10	Gas-CC	50	
09INR0037	Scurry County Wind III	PL	Scurry	West	Mar-10	Wind	350	
08INR0033	Lufkin	IA	Angelina	North	Apr-10	Biomass	45	
09INR0082	Cedro Hill Wind	IA	Webb	South	May-10	Wind	150	
09INR0006b	Oak Grove SES 2	IA	Robertson	North	May-10	Coal	855	
09INR0079b	Pearsall Expansion Phase 2	IA	Frio	South	Jun-10	Gas-CT	100	Date/MW
09INR0045	Sand Hill Peakers	IA	Travis	South	Jul-10	Gas-CT	94	
06INR0012b	Sherbino Mesa Wind Farm 2	IA	Pecos	West	Jul-10	Wind	150	
05INR0015c	Gulf Wind 3	PL	Kenedy	South	Sep-10	Wind	400	
05INR0015b	Gulf Wind 2	PL	Kenedy	South	Oct-10	Wind	400	
08INR0011	Senate Wind Project	IA	Jack	North	Nov-10	Wind	150	
04INR0011b	Cedar Elm	IA	Shackelford	West	Dec-10	Wind	136	
09INR0029	CFB Power Plant Units 11&12	IA	Calhoun	South	Dec-10	Coal	263	
12INR0003	Throckmorton Wind Farm	PL	Throckmorton	West	Dec-10	Wind	400	
06INR0022c	Penascal Wind Farm 2	IA	Kenedy	South	Dec-10	Wind	202	
08INR0065	Buffalo Gap 4 and 5	PL	Nolan	West	Mar-11	Wind	465	
10INR0020	Panda Temple Power	PL	Bell	North	May-11	Gas-CC	1,092	
10INR0010	Jack County 2	IA	Jack	North	Jun-11	Gas-CC	620	
08INR0018	Gunsight Mountain	IA	Howard	West	Aug-11	Wind	120	
04INR0011c	Cottonwood Wind	IA	Shackelford	West	Dec-11	Wind	100	
06INR0026	Wild Horse Mountain	IA	Howard	West	Dec-11	Wind	120	
08INR0025	Pistol Hill Energy Center	PL	Ector	West	Dec-11	Wind	300	
06INR0022b	Penascal Wind Farm 3	IA	Kenedy	South	Dec-11	Wind	202	
09INR0007	Nacogdoches Project	IA	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	
09INR0026	Sterling Energy Center	IA	Sterling	West	Jun-12	Wind	300	
09INR0026a	Sterling Energy Center	PL	Sterling	West	Jun-12	Wind	200	
12INR0004	Fort Concho Wind Farm	PL	Tom Green	West	Jul-12	Wind	400	
08INR0040	Lenorah Project	IA	Martin	West	Sep-12	Wind	251	
09INR0036	McAdoo Energy Center II	PL	Dickens	West	Dec-12	Wind	500	
06INR0006	Cobisa-Greenville	IA	Hunt	North	May-13	Gas-CC	1,792	
15INR0002	Comanche Peak 3 and 4	PL	Somervell	North	Jan-15	Nuclear	3,200	
15INR0008	STP 3 and 4	PL	Matagorda	South	Jan-15	Nuclear	2,700	
							Total	19,713

County Location of Installed Generation and Interconnection Requests (all fuels)



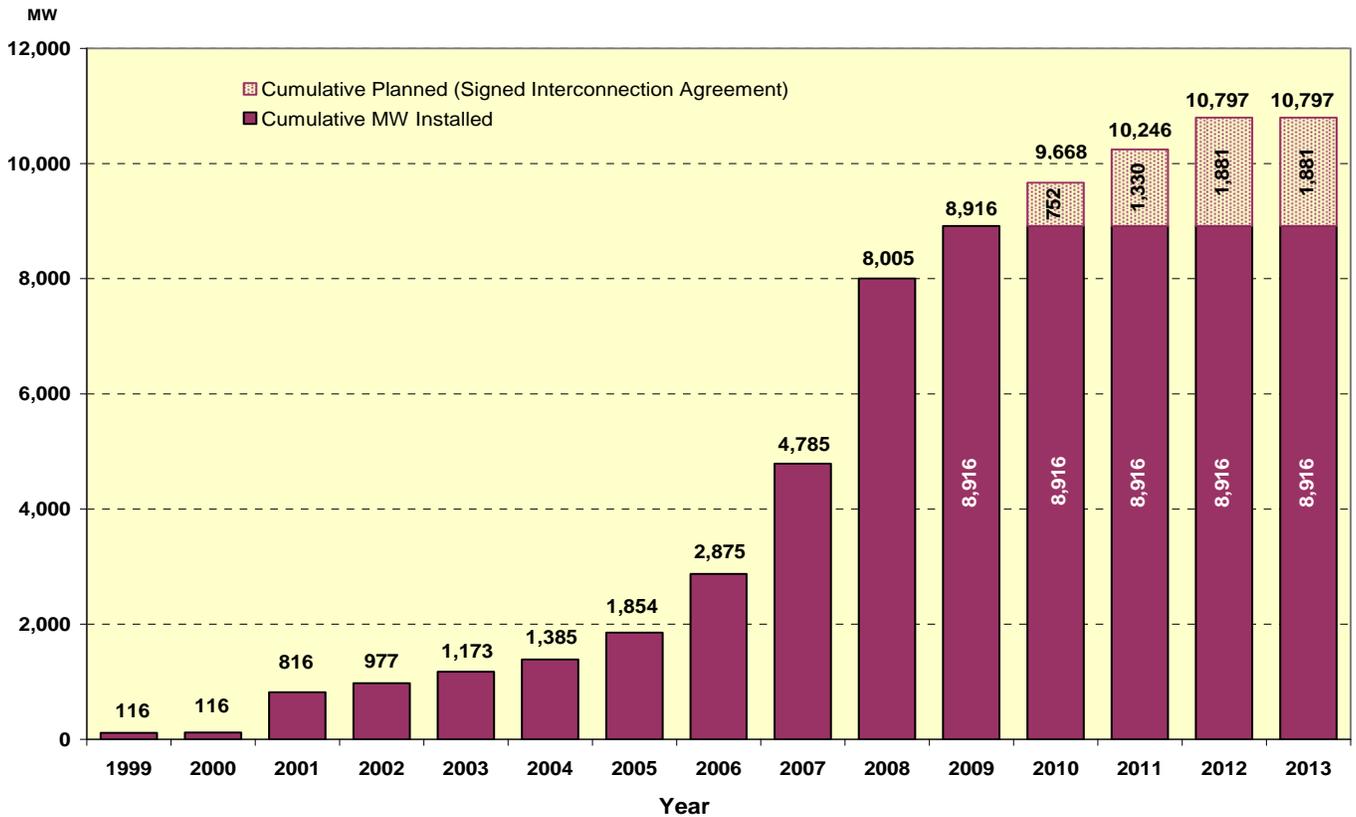
1.5 Generation Projects Undergoing Full Interconnection Studies

INR	County	Capacity	COD	Fuel	INR	County	Capacity	COD	Fuel
08INR0049	Clay	50	TBD	Wind	09INR0073	Scurry	200	TBD	Wind
09INR0077	Reagan	500	Dec-09	Wind	09INR0051	Borden	249	Dec-09	Wind
08INR0022	Floyd	100	Dec-09	Wind	08INR0023	Floyd	100	Dec-09	Wind
09INR0058	Howard	250	Dec-09	Wind	08INR0056	Nolan	149	Dec-09	Wind
11INR0012	Duval	400	Dec-09	Wind	08INR0039	Hamilton	90	Dec-09	Wind
11INR0013	Mills	150	Dec-09	Wind	08INR0012b	San Patricio	151	Dec-09	Wind
09INR0054	Stonewall	149	Dec-09	Wind	09INR0065	Webb	150	Dec-09	Wind
09INR0061	Kent	258	Dec-09	Wind	10INR0011	Johnson	275	Jan-10	Gas
10INR0048	Hardeman	1,000	Jan-10	Wind	11INR0033a	Cameron	200	Jan-10	Wind
10INR0024	Briscoe	2,940	Jan-10	Wind	10INR0045	Webb	734	Apr-10	Wind
10INR0046	Jim Hogg	264	Apr-10	Wind	09INR0070	Reagan	42	May-10	Wind
10INR0023	Haskell	386	May-10	Wind	09INR0069	Reagan	36	May-10	Wind
10INR0054	Palo Pinto	36	May-10	Wind	10INR0062a	Pecos	50	May-10	Wind
09INR0018	Concho	249	May-10	Wind	09INR0035	Concho	750	May-10	Wind
10INR0079	Nolan	60	May-10	Wind	10INR0016	Childress	150	May-10	Wind
07INR0032	Tom Green	249	May-10	Wind	10INR0069	Rusk	13	May-10	Coal
09INR0082	Webb	150	May-10	Wind	09INR0081	Rusk	18	Jun-10	Coal
10INR0035	Harris	416	Jun-10	Gas	10INR0029	Hood	810	Jun-10	Gas
10INR0070	Hunt	50	Jul-10	Gas	10INR0012	Nacogdoches	300	Jul-10	Gas
10INR0057	Taylor	200	Jul-10	Wind	10INR0052a	Knox	21	Jul-10	Wind
10INR0013	Upton	400	Jul-10	Wind	10INR0071	Matagorda	88	Sep-10	Wind
09INR0074	Motley	70	Oct-10	Wind	10INR0015	Mitchell	350	Oct-10	Wind
10INR0081a	Clay	30	Oct-10	Wind	10INR0041	Floyd	135	Oct-10	Wind
10INR0039	Dickens	200	Nov-10	Wind	11INR0029	Throckmorton	200	Nov-10	Wind
10INR0032	Navarro	775	Dec-10	Gas	10INR0080	Presidio	144	Dec-10	Solar
08INR0062	Archer	249	Dec-10	Wind	07INR0015	Foard	180	Dec-10	Wind
07INR0035	Tom Green	270	Dec-10	Wind	07INR0013	Coke	200	Dec-10	Wind
10INR0019	Deaf Smith	609	Dec-10	Wind	08INR0061	Hardeman	200	Dec-10	Wind
10INR0077	Callahan	101	Dec-10	Wind	09INR0076	Jackson	300	Dec-10	Wind
10INR0042	Mason	170	Dec-10	Wind	10INR0056	Borden	249	Dec-10	Wind
10INR0033	Armstrong	399	Dec-10	Wind	10INR0008	Pecos	500	Dec-10	Wind
07INR0026	Baylor	400	Dec-10	Wind	10INR0051	Brazoria	200	Dec-10	Wind
10INR0060	Willacy	401	Dec-10	Wind	10INR0059	Zapata	251	Dec-10	Wind
09INR0041	Mitchell	300	Dec-10	Wind	11INR0033b	Cameron	200	Jan-11	Wind
08INR0014	Webb	183	Mar-11	Wind	11INR0050	Crosby	149	Mar-11	Wind
11INR0037	Smith	50	May-11	Biomass	11INR0046	Brazoria	300	May-11	Gas
11INR0028	Grimes	1,280	May-11	Gas	11INR0048	Harris	300	May-11	Gas
11INR0058	Pecos	135	May-11	Solar	11INR0061	Presidio	90	May-11	Solar
11INR0060	Tom Green	90	May-11	Solar	09INR0075	Kinney	248	May-11	Wind
10INR0009	Castro	300	May-11	Wind	10INR0062b	Pecos	50	May-11	Wind
11INR0062	Nueces	149	May-11	Wind	09INR0050	Fannin	1,200	Jun-11	Gas
11INR0057	Cameron	144	Jun-11	Wind	08INR0020	Eastland	200	Jun-11	Wind
11INR0019	Upton	200	Jun-11	Wind	11INR0006	Lamar	579	Jul-11	Gas

11INR0040	freestone	640	Aug-11	Gas	11INR0047	Deaf Smith	600	Sep-11	Wind
11INR0008a	Roberts	1,000	Sep-11	Wind	11INR0039	Starr	201	Sep-11	Wind
07INR0014a	Wilbarger	140	Oct-11	Wind	07INR0014b	Wilbarger	70	Oct-11	Wind
10INR0081b	Clay	19	Oct-11	Wind	10INR0021	Grayson	646	Nov-11	Gas
11INR0025	Crockett	400	Dec-11	Wind	11INR0067	Cameron	78	Dec-11	Wind
06INR0022d	Kenedy	200	Dec-11	Wind	11INR0043	Coke	300	Dec-11	Wind
11INR0005	Upton	500	Dec-11	Wind	09INR0048	Jack	150	Dec-11	Wind
12INR0021	Edwards	165	Jan-12	Wind	10INR0018	Madison	550	Mar-12	Gas
11INR0049	Wharton	275	May-12	Gas	12INR0007	Lamar	296	May-12	Gas
09INR0031	Ector	275	May-12	Gas	10INR0062c	Pecos	201	May-12	Wind
12INR0006	Limestone	875	Jun-12	Coal	10INR0022	Harris	3,500	Jun-12	Gas
08INR0031	Childress	100	Jun-12	Wind	12INR0002	Briscoe	750	Jul-12	Wind
08INR0041	Coke	200	Oct-12	Wind	12INR0016	Nueces	1,200	Nov-12	Other
08INR0044	Concho	200	Nov-12	Wind	08INR0019a	Gray	250	Nov-12	Wind
08INR0019b	Gray	250	Nov-12	Wind	08INR0019c	Gray	250	Nov-12	Wind
09INR0025	Concho	180	Dec-12	Wind	12INR0005	Floyd	1,100	Dec-12	Wind
08INR0042	Coke	200	Dec-12	Wind	12INR0018	Gray	600	Dec-12	Wind
06INR0022f	Kenedy	200	Dec-12	Wind	08INR0054	Comanche	401	Dec-12	Wind
12INR0022	Hidalgo	200	Dec-12	Wind	12INR0029	Swisher	500	Dec-12	Wind
13INR0005	Carson	600	Oct-13	Wind	13INR0006	Gray	750	Oct-13	Wind
06INR0022e	Kenedy	200	Dec-13	Wind	14INR0002	Goliad	756	Feb-14	Coal
14INR0003	Nolan	850	Jun-14	Coal	14INR0005	Matagorda	1,200	Jul-14	Coal
14INR0001	Pecos	500	Dec-14	Wind					

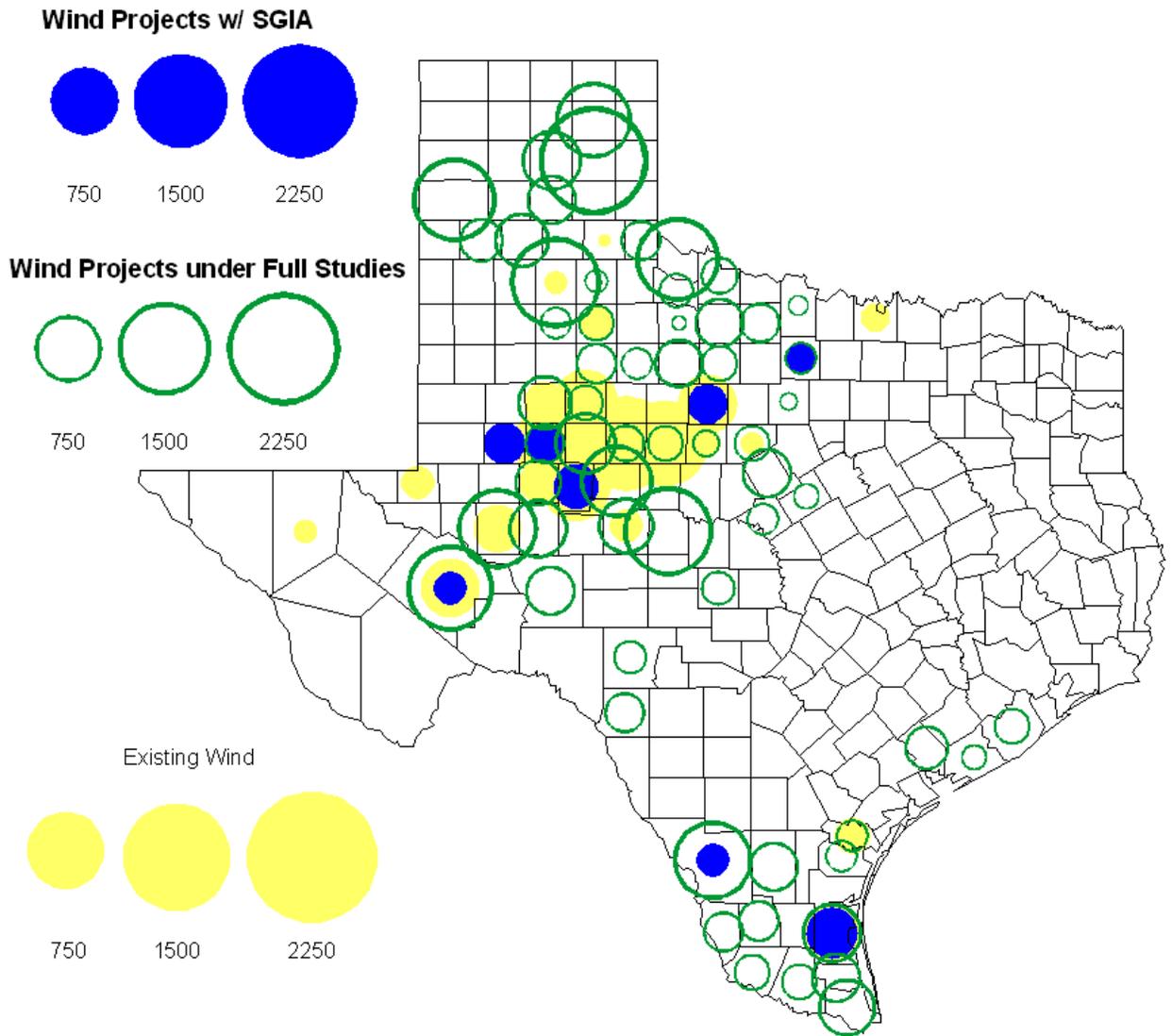
1.6 Wind Generation

Wind Capacity Installed by Year



(as of October 31, 2009)

County Location of Installed Capacity and Interconnection Requests (Wind only)



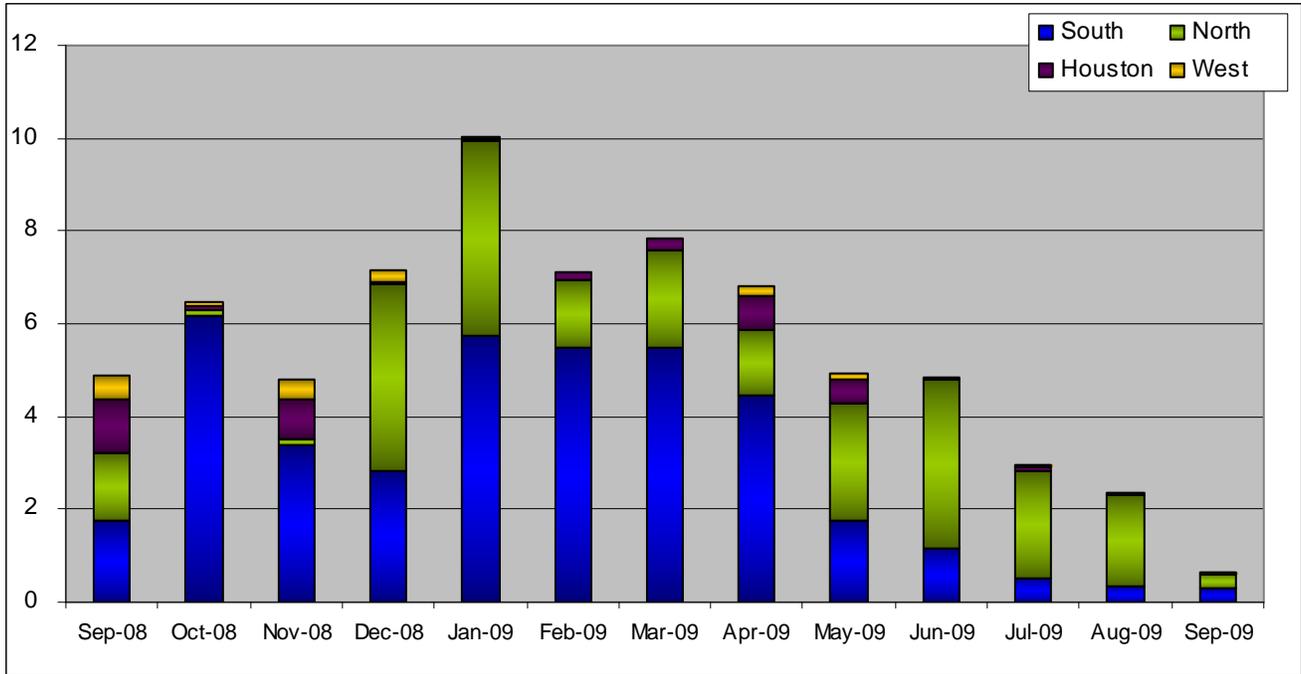
2. Regional Planning Group Project Reviews

- Oncor submitted a project to relieve congestion related to new wind units in the Lamesa area. The project will upgrade 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, build a new 138 kV Ackerly Vealmoor station, add second circuits to all rebuilt lines and include station upgrades at China Grove and Big Spring. The cost of this project is \$ 80.8 M. This project will be reviewed to ensure that the improvements fit into the likely CREZ transmission solution for the area. This project is in ERCOT Independent Review and will be studied as part of the 2009 Five-Year Transmission Plan.
- Oncor submitted a project to add several 345 kV circuits to support the addition of Comanche Peak units 3 and 4 in 2015 at an estimated cost of \$ 133 M. These upgrades include a new 345 kV double circuit line with one circuit in place from Comanche to Whitney, a new 345 kV line from Comanche to Johnson Switch, a new circuit on existing structures from Johnson Switch to Everman, a new 345 kV double circuit with one circuit in place from Comanche to DeCordova, and a new 345 kV line on existing structures from Comanche to Parker Switch. This project is in ERCOT Independent Review and will be studied when the 2009 Five-Year Transmission Plan is complete.
- Sharyland Utilities submitted a project to construct and operate the ERCOT Southeast Loop facilities consisting of a 345 kV double circuit from Lufkin to Canal 345 kV substation on the northeast side of Houston. This project will cost \$359 M with an estimated completion date of summer 2013. This project is in ERCOT Independent Review and will be studied as part of the 2009 Five-Year Transmission Plan.
- American Electric Power Service Corporation submitted a project to construct several improvements in the Corpus Christi area. The estimated completion date of this project is June 2012 and estimated cost is \$ 100.2 M. The ERCOT Independent Review has been completed and the project will be presented to TAC and the ERCOT Board of Directors in November.
- Centerpoint Energy has submitted a project to construct a new 345 kV double circuit line to allow greater power imports into the Houston area. The project involves expanding the Fayetteville and Zenith substations and constructing a new 345 kV double circuit from Fayetteville to Zenith. The proposal also includes looping the Fayette Power Project to Salem 345 kV circuit into Fayetteville and upgrading the Fayette Power Project to Fayetteville 345 kV double circuit lines. The project is estimated to be complete by September 2014 at a cost of \$222 M. This project is in ERCOT Independent Review.
- Luminant Energy has submitted the Comanche Peak Area Congestion Mitigation Plan project to loop the future Parker to Everman 345 kV CREZ line into the Comanche Peak 345 kV switch station. Luminant Energy's estimated completion date for this project is April 2010 and the estimated cost is \$3 M. This project is in ERCOT Independent Review.
- Brazos Electric Cooperative has submitted a project to rebuild the Kruegerville to Frisco 138 kV line. The estimated cost of this project is \$19.7 M and it is expected to be completed by the end of 2010. This project is in the comment period.
- Luminant Energy submitted a proposal to either accelerate the Waco West to Waco Atco 138 kV line rebuild that is currently scheduled to be completed by the fall of 2010 or to open the line in order to prevent congestion. This project is in the comment period.

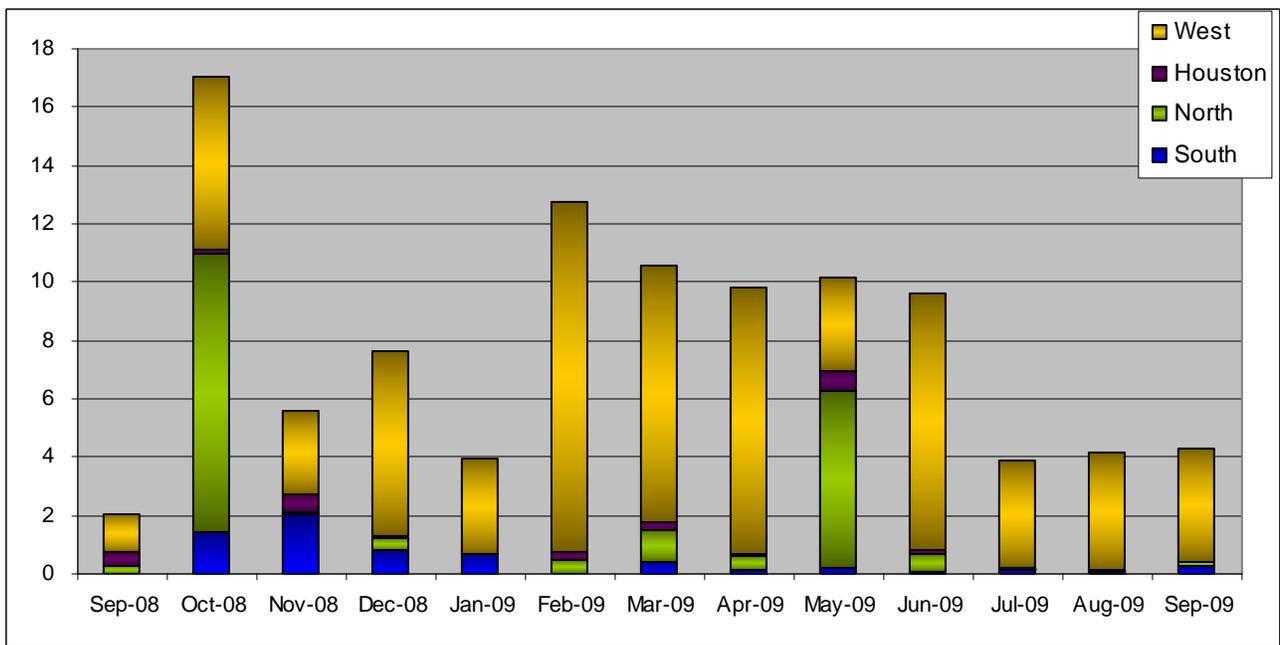
3. Congestion Costs

Dollars shown in graphs are settlement quality.

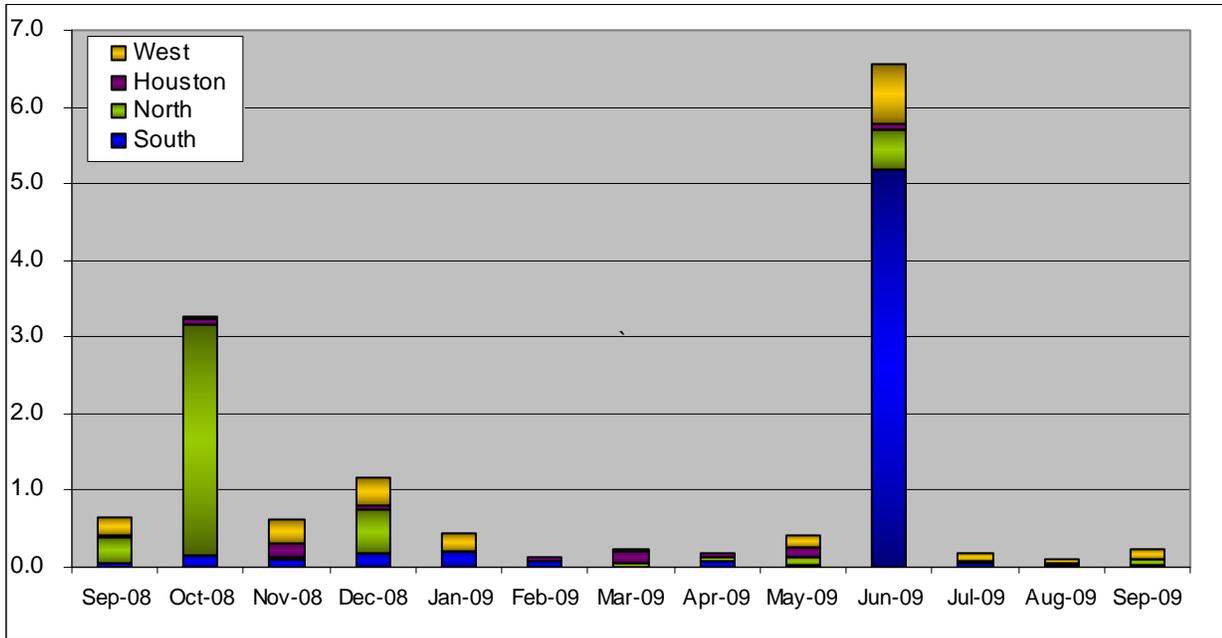
OOMC – last 13 months in million\$



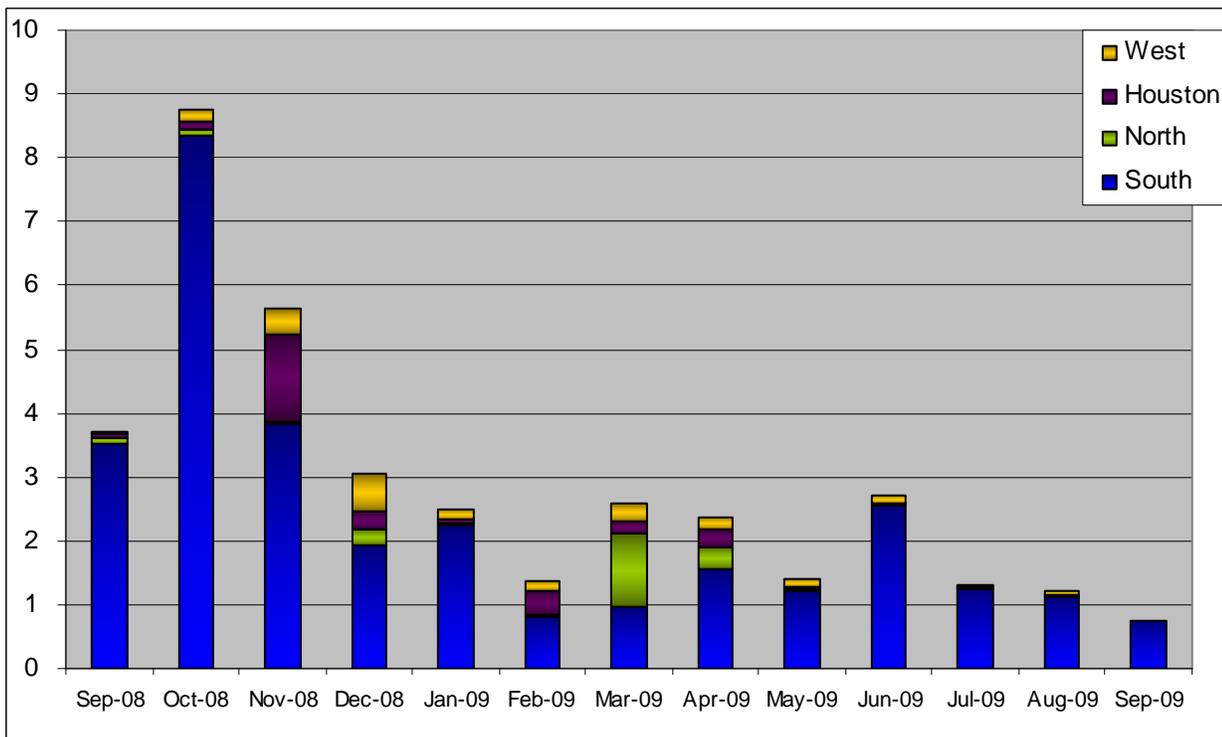
OOM Down – last 13 months in million\$



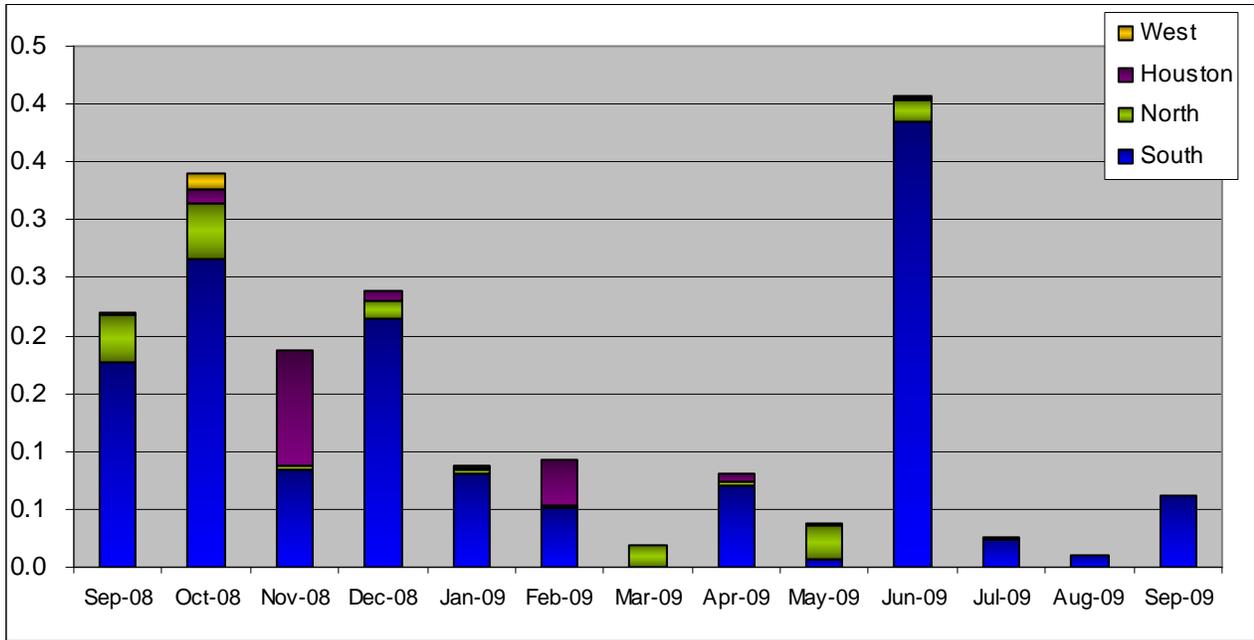
Local Balancing Energy Down – last 13 months in million\$



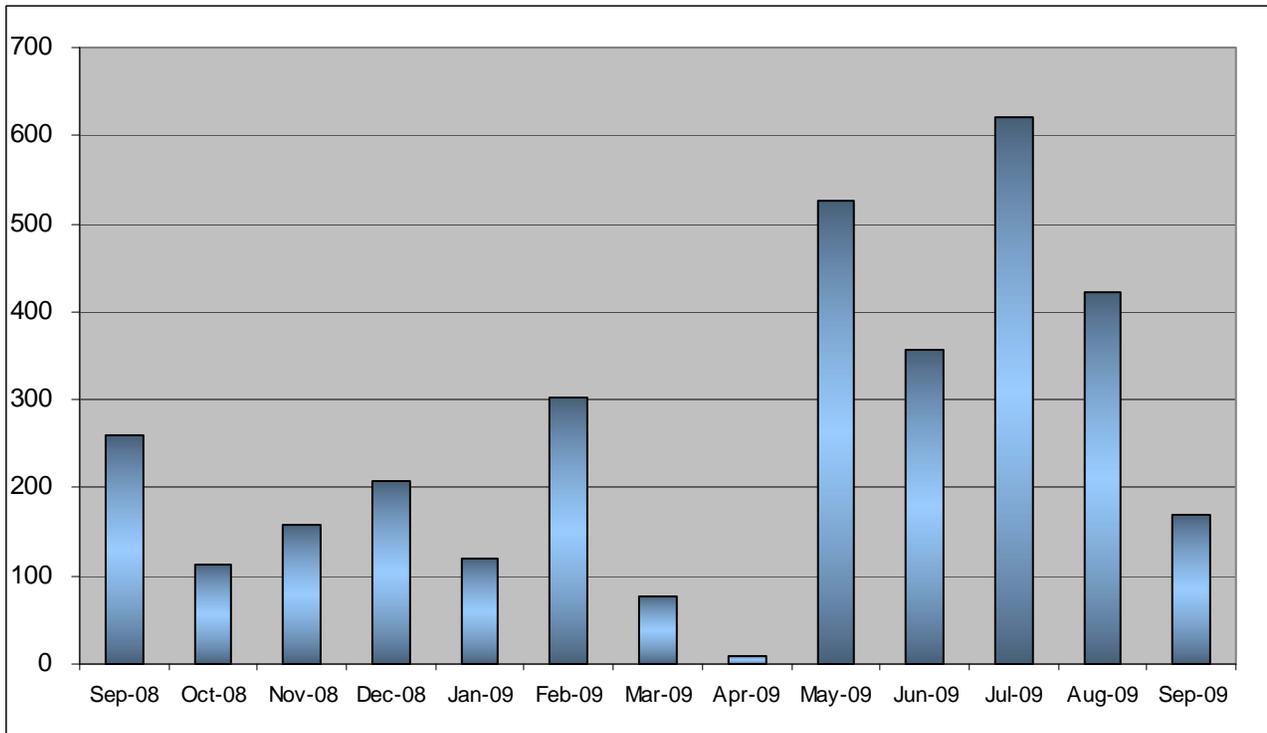
OOM Up – last 13 months in million\$



Local Balancing Energy Up – last 13 months in million\$



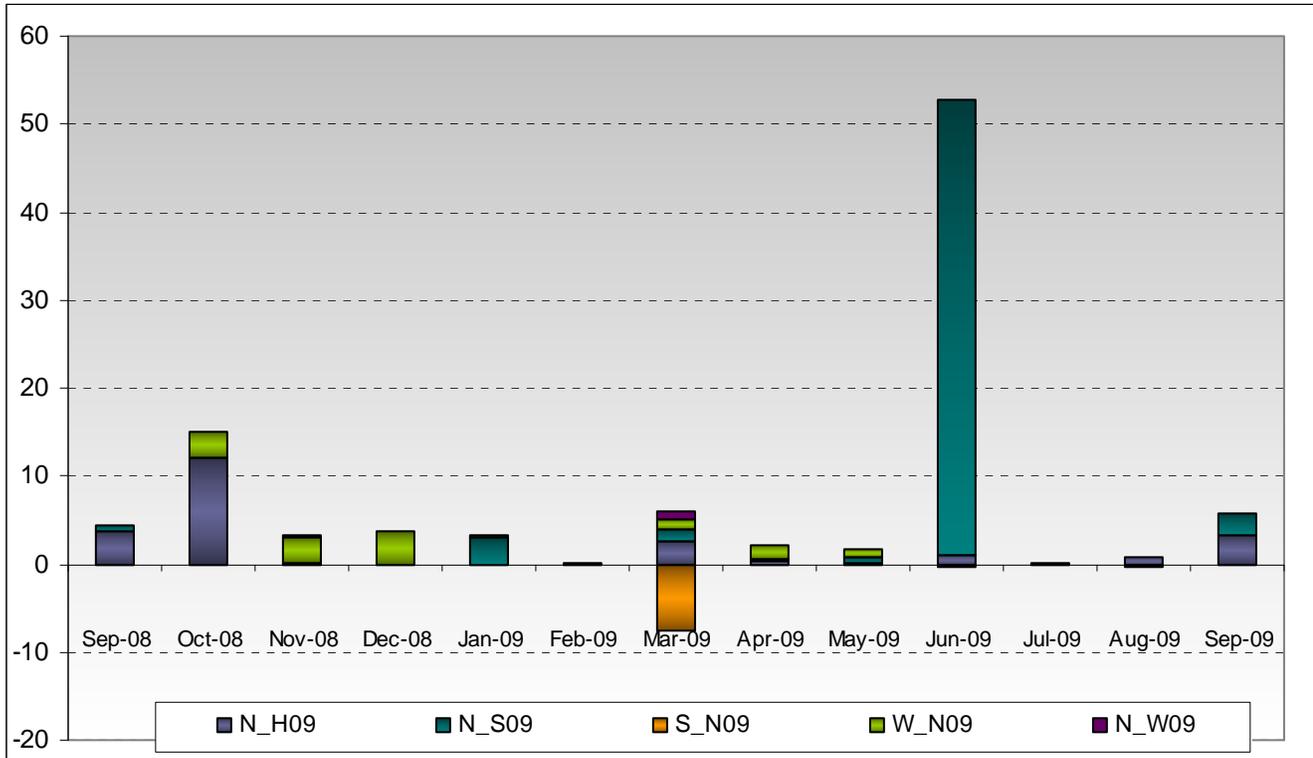
Replacement Reserve – last 13 months in thousand\$



Binding Constraints – October, 2009

Contingency	Binding Element	Estimated Costs	Transmission Project	Clearances/Reason
Oak Creek-Ballinger 138kV	Miles-Rowena 69kV	\$2,950,839	Yellow Jacket (08TPIT0135)	High wind generation
	DFW Security	\$2,754,979		
	Capacity Shortage	\$2,311,036		
Graham-Long Creek 345kV	San Angelo Power Station -Shrew Tap	\$2,035,161	San Angelo Power Station, to Menard 138 kV line improvements (09TPIT0212)	High wind generation Outage: Comanche Peak SES to Johnson Switch 345 kV
Abilene-Mulberry Creek- Bitter Creek	Trent-Merkel 69kV	\$1,085,179	Abilene So. – Leon (TPIT0054)	Outage: Bluff Creek - Abilene South 138 kV
Twin Butte-San Angelo Red Creek 345kV	Twin Butte 345/138kV Autotransformer	\$ 919,814		High wind generation
Whitney Bus SE Edinburg-Azteca BOMSW#1/Autotransformer- 1H LEG-Watermill Pueblo-Rosita Creek	Various Outages	\$ 797,670		
Morgan Creek SES-Eskota Switch 138kV	Eskota Switch 138/69kV Autotransformer	\$ 532,079		Outage: Abilene South to Potter 138 kV
San Angelo Red Creek- Comanche Switch 345kV	San Angelo Concho- Veribest 69kV	\$ 184,175	Abilene So. – Leon (TPIT0054)	Outage: Bluff Creek - Abilene South 138 kV
Tradinghouse-Venus 345kV	Elm Mott-Rogers Hill	\$ 168,124	Elm Mott- Wach Northcrest (10TPIT0091)	Outages: Whitney 138 kV bus Bosque SW - Whitney 138 kV

Inter-zonal Congestion Costs – last 13 months



4. Other Notable Activities

- The initial reliability analysis and the congestion analysis of the 2009 Five-Year Transmission Plan is nearly complete. Projects to eliminate unserved energy and reduce congestion in 2010-2014 have been identified. The final steps in the assessment are to create a security constrained AC case for each study year and to document the results of the analysis.
- Voltage Ride Through Study Update:
 - a. The analysis of the engineering study results has been included in a Phase I draft report documentation. This Phase I draft report is near completion.
 - b. WGRs data submission of VRT capability data continues, together with validation of data received. WGRs with no response to the second reminder email have been put in direct contact with ERCOT in order to facilitate timely data collection for Phase II. Preparation of PSSe v.31 compatible models has started.
- The West-to-North Stability Limit study Phase II Update: The planning study to test the effect of Power System Stabilizers (PSS) on the W-N Stability Limit is now well under way. The study runs are nearing completion and should be done by mid- second week of November. The full analysis of results and compilation of the report will be completed in the time that remains within the original time-frame set for the project.
- The ERCOT TPIT update for November 2, 2009 is in progress. This update will be posted December 1, 2009.