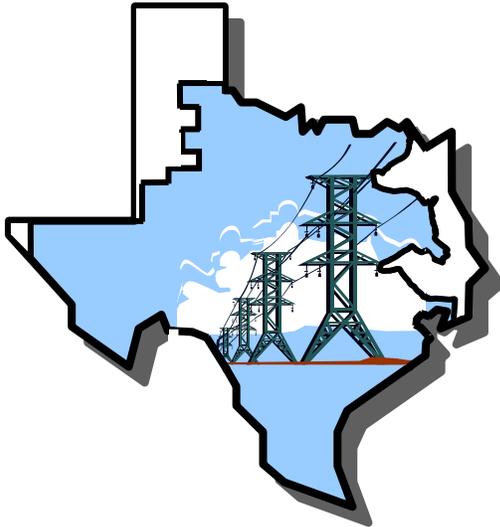




# System Planning Division



## Monthly Status Report to Reliability and Operations Subcommittee for July 2009

### Report Highlights

#### Item

1.
  - ERCOT is currently tracking 235 active generation interconnection requests totaling over 87,000 MW. This includes over 49,000 MW of wind generation.
  
2.
  - Regional Planning is currently reviewing proposed transmission improvements with a total cost of \$1,166.64 Million
  - Transmission Projects approved in 2009 total \$130 Million
  - All projects (in engineering, routing, licensing and construction) total approximately \$4.1 Billion
  - Transmission Projects energized in 2008 total about \$453 million

## Table of Contents

1. Generation Interconnection.....	1
1.1 New Generation Beginning Commercial Operations.....	1
1.2 New Generation Interconnection Agreements .....	1
1.3 Summary of Active Generation Interconnection Requests .....	1
1.4 Publicly Disclosed Generation Interconnection Projects.....	3
1.5 Generation Projects Undergoing Full Interconnection Studies .....	6
1.6 Wind Generation .....	7
2. Regional Planning Group Project Reviews.....	8
3. Other Notable Activities .....	13

# 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 - none for June 2009

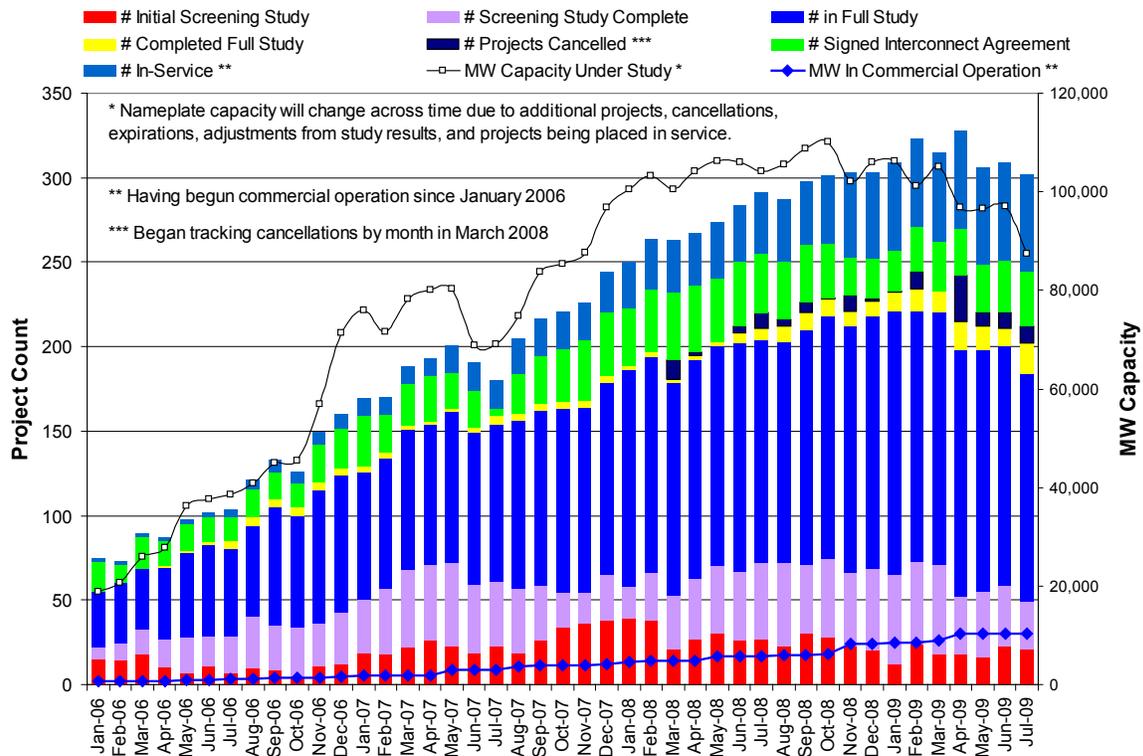
- The total installed wind capacity remains 8,135 MW, of which 7,477 (92%) is located within the Western Congestion Management Zone.

## 1.2 New Generation Interconnection Agreements

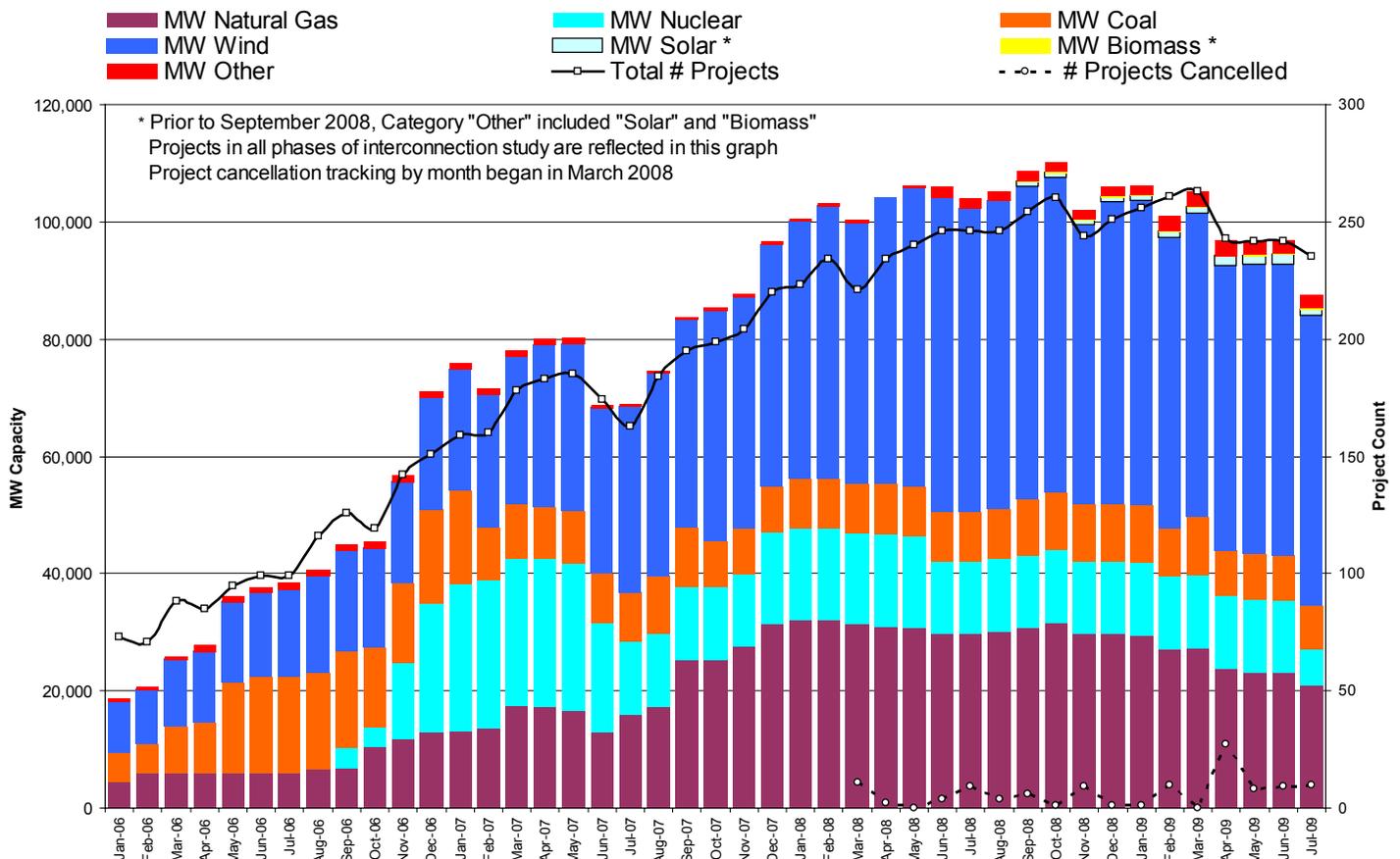
- Bluff-Kendall Windfarm (10INR0047) - 850 MW in Kendall County (this amount is not new capacity, but rather existing capacity utilizing a new interconnection point)

## 1.3 Summary of Active Generation Interconnection Requests

<b>GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED</b>				
Currently tracking 242 active generation interconnection or change requests				
<b>As of June 30, 2009</b>	<b>North</b>	<b>South</b>	<b>West</b>	<b>Total</b>
Security Screening Study	7	8	7	22
SSS Completed	2	8	18	28
Full Interconnect Study	28	23	84	135
FIS Completed	2	12	4	18
Interconnect Agreement Completed	8	12	12	32
Capacity under Interconnection Agreements	5,342	3,663	2,203	11,208
Capacity for Grid, MW	<b>23,329</b>	<b>24,467</b>	<b>39,703</b>	<b>87,499</b>
Wind Capacity, MW	4,124	8,550	36,729	49,403



Fuel Type	Confidential Projects (MW)	Projects Under Full Study (MW)	Projects w/ Interconnect Agreement/Public Letter (MW)	Grand Total (MW)
Gas-CC	-	-	4,241	19,902
Gas-CT	-	-	527	1,277
Total Gas	1,654	14,757	4,768	21,179
Nuclear	0	0	5,986	5,986
Coal	0	3,712	3,813	7,525
Wind	10,240	31,275	7,888	49,403
Solar	665	369	0	1,034
Biomass	0	50	145	195
Other	977	1,200	0	2,177
Grand Total	13,536	51,363	22,600	87,499



### 1.4 Publicly Disclosed Generation Interconnection Projects

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

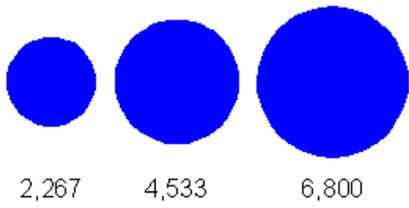
(IA=Interconnect Agreement, PL=Public Letter, XX= cancelled)

Generation Interconnections as of July 31, 2009								
INR	SiteName	Status	County	Region	COD	Fuel	MW For Grid	Change from Last Report
09INR0079	Pearsall Expansion	IA	Frio	South	Aug-09	Gas-CT	200	
09INR0072	Dansby3	PL	Brazos	North	Aug-09	Gas-CT	48	
05INR0015b	Gulf Wind 2	PL	Kenedy	South	Sep-09	Wind	400	
08INR0033	Lufkin	IA	Angelina	North	Sep-09	Biomass	45	
09INR0028	V H Braunig 6	IA	Bexar	South	Oct-09	Gas-CT	185	
09INR0015	Comanche Peak 1&2 Upgrade	PL	Somervell	North	Oct-09	Nuclear	86	
08INR0012a	Papalote Creek Wind Farm	IA	San Patricio	South	Oct-09	Wind	180	
11INR0015	Panther Creek 3	IA	Sterling	West	Nov-09	Wind	200	
09INR0038	Barney Davis 2 Repowering	IA	Nueces	South	Nov-09	Gas-CC	360	
09INR0006a	Oak Grove SES 1	IA	Robertson	North	Nov-09	Coal	855	
08INR0038	M Bar Wind	PL	Andrews	West	Dec-09	Wind	194	
09INR0034	Gatesville Wind Farm	PL	Coryell	North	Dec-09	Wind	200	
09INR0047	Loraine Windpark	IA	Mitchell	West	Dec-09	Wind	251	
10INR0026	Langford Wind Power	IA	Tom Green	West	Dec-09	Wind	150	

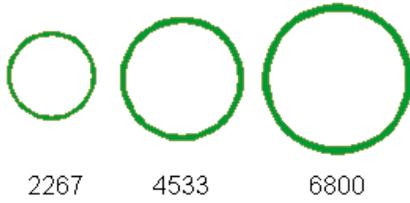
10INR0047	Bluff-Kendall Windfarm	IA	Kendall	South	Jan-10	Wind	0	new IA
11INR0014	TECO Central Plant	IA	Harris	South	Feb-10	Gas-CC	50	
09INR0037	Scurry County Wind III	PL	Scurry	West	Mar-10	Wind	350	
09INR0039	Nueces Bay 7 Repowering	IA	Nueces	South	Apr-10	Gas-CC	327	
09INR0006b	Oak Grove SES 2	IA	Robertson	North	May-10	Coal	855	
09INR0002	J K Spruce 2	IA	Bexar	South	Jun-10	Coal	750	
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	
08INR0011	Senate Wind Project	IA	Jack	North	Nov-10	Wind	150	
12INR0003	Throckmorton Wind Farm	PL	Throckmorton	West	Dec-10	Wind	400	
09INR0029	CFB Power Plant Units 11&12	IA	Calhoun	South	Dec-10	Coal	263	
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	
07INR0036	Coyote Run Windfarm	IA	Borden	West	Mar-11	Wind	225	
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	
09INR0055	Rattlesnake Wind Farm	IA	McCulloch	West	Sep-11	Wind	200	
09INR0060	Stephens Wind Farm	PL	Borden	West	Nov-11	Wind	141	
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	
09INR0026	Sterling Energy Center	IA	Sterling	West	Jun-12	Wind	300	
09INR0024	B&B Panhandle Wind	PL	Carson	West	Jun-12	Wind	1,001	
09INR0001	Sandy Creek 1	IA	McLennan	North	Jun-12	Coal	925	
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	date
06INR0006	Cobisa-Greenville	IA	Hunt	North	May-13	Gas-CC	1,792	
04INR0011b	Mesquite Wind Phase 4	IA	Shackelford	West	Jun-13	Wind	136	
04INR0011c	Cottonwood Wind	IA	Shackelford	West	Jun-13	Wind	100	
15INR0008	STP 3 and 4	PL	Matagorda	South	Jan-15	Nuclear	2,700	
11INR0011	Victoria City Nuclear	XX	Victoria	South	Jan-15	Nuclear	3,200	Cancelled
15INR0002	Comanche Peak 3 and 4	PL	Somervel	North	Jan-15	Nuclear	3,200	
						<b>TOTAL</b>	<b>22,600</b>	

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

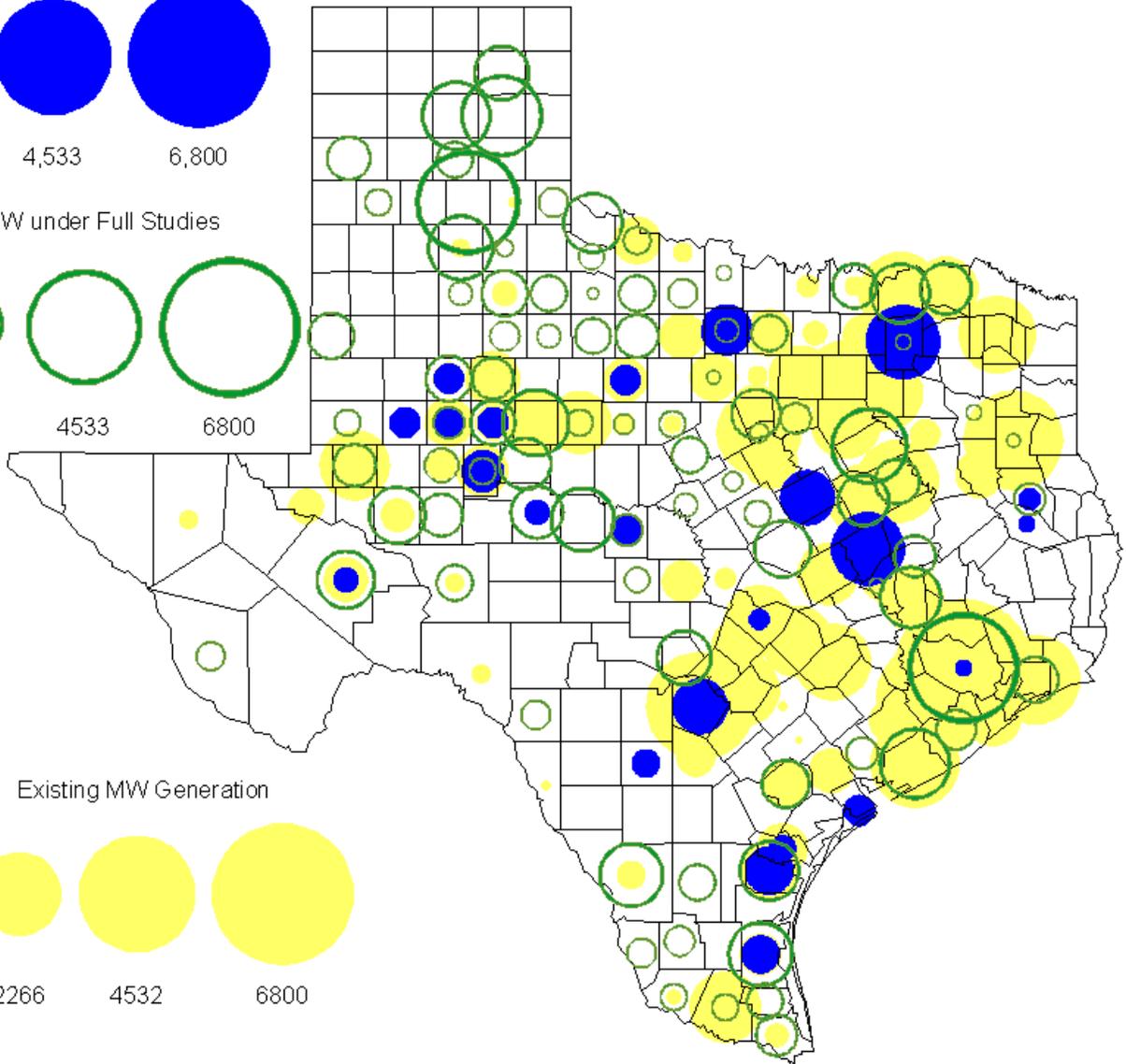
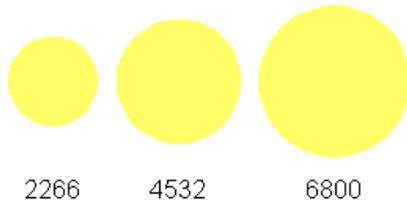
Projects w/ SGIA



MW under Full Studies



Existing MW Generation



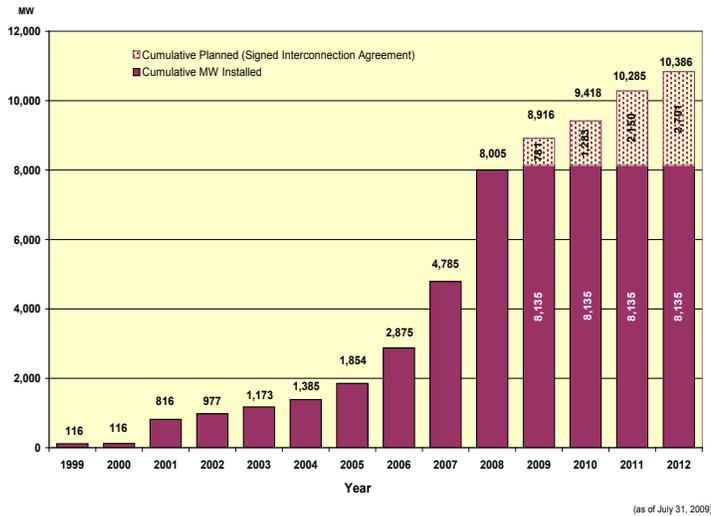
## 1.5 Generation Projects Undergoing Full Interconnection Studies

INR	County	Capacity	COD	Fuel	INR	County	Capacity	COD	Fuel
08INR0044	Concho	200	TBD	Wind	08INR0049	Clay	50	TBD	Wind
09INR0064	Borden	41	TBD	Wind	08INR0042	Coke	200	TBD	Wind
08INR0041	Coke	200	TBD	Wind	09INR0025	Concho	180	TBD	Wind
09INR0041	Mitchell	300	Oct-09	Wind	07INR0014a	Wilbarger	140	Oct-09	Wind
07INR0014b	Wilbarger	70	Oct-09	Wind	09INR0075	Kinney	248	Oct-09	Wind
09INR0048	Jack	150	Oct-09	Wind	08INR0054	Comanche	401	Oct-09	Wind
09INR0073	Scurry	200	Nov-09	Wind	08INR0031	Childress	100	Nov-09	Wind
08INR0056	Nolan	149	Dec-09	Wind	09INR0082	Webb	300	Dec-09	Wind
09INR0051	Borden	249	Dec-09	Wind	09INR0054	Stonewall	148.5	Dec-09	Wind
11INR0013	Mills	150	Dec-09	Wind	08INR0012b	San Patricio	151	Dec-09	Wind
11INR0012	Duval	400	Dec-09	Wind	08INR0023	Floyd	100	Dec-09	Wind
08INR0039	Hamilton	90	Dec-09	Wind	09INR0061	Kent	258	Dec-09	Wind
08INR0022	Floyd	100	Dec-09	Wind	09INR0058	Howard	250	Dec-09	Wind
09INR0077	Reagan	500	Dec-09	Wind	07INR0008	Howard	35	Dec-09	Wind
09INR0065	Webb	150	Dec-09	Wind	10INR0024	Briscoe	3000	Jan-10	Wind
10INR0048	Hardeman	1000	Jan-10	Wind	11INR0033a	Cameron	200	Jan-10	Wind
11INR0036a	Matagorda	200	Jan-10	Wind	10INR0011	Johnson	275	Jan-10	Gas
10INR0045	Webb	734	Apr-10	Wind	10INR0046	Jim Hogg	264	Apr-10	Wind
10INR0054	Palo Pinto	36	May-10	Wind	10INR0062a	Pecos	49.5	May-10	Wind
10INR0023	Haskell	386	May-10	Wind	10INR0016	Childress	150	May-10	Wind
07INR0032	Tom Green	249	May-10	Wind	09INR0069	Reagan	36	May-10	Wind
09INR0070	Reagan	42	May-10	Wind	09INR0018	Concho	249	May-10	Wind
09INR0035	Concho	750	May-10	Wind	10INR0079	Nolan	60	May-10	Wind
10INR0017	Chambers	685	May-10	Gas	10INR0069	Rusk	818	May-10	Coal
10INR0035	Harris	416	Jun-10	Gas	10INR0029	Hood	810	Jun-10	Gas
09INR0081	Rusk	818	Jun-10	Coal	10INR0052a	Knox	21	Jul-10	Wind
10INR0013	Upton	400	Jul-10	Wind	10INR0012	Nacogdoches	300	Jul-10	Gas
10INR0057	Taylor	200	Jul-10	Wind	10INR0038	Glasscock	350	Aug-10	Wind
10INR0071	Matagorda	88	Sep-10	Wind	09INR0074	Motley	70	Oct-10	Wind
10INR0015	Mitchell	350	Oct-10	Wind	10INR0041	Floyd	135	Oct-10	Wind
10INR0039	Dickens	200	Nov-10	Wind	11INR0029	Throckmorton	200	Nov-10	Wind
10INR0070	Hunt	50	Nov-10	Gas	08INR0061	Hardeman	200	Dec-10	Wind
07INR0013	Coke	200	Dec-10	Wind	07INR0026	Baylor	400	Dec-10	Wind
07INR0015	Foard	180	Dec-10	Wind	10INR0032	Navarro	800	Dec-10	Gas
10INR0019	Deaf Smith	609	Dec-10	Wind	10INR0008	Pecos	500	Dec-10	Wind
07INR0035	Tom Green	270	Dec-10	Wind	09INR0031	Ector	275	Dec-10	Gas
08INR0062	Archer	249	Dec-10	Wind	10INR0033	Armstrong	420	Dec-10	Wind
10INR0077	Callahan	101	Dec-10	Wind	10INR0051	Brazoria	200	Dec-10	Wind
10INR0042	Mason	170	Dec-10	Wind	09INR0076	Jackson	300	Dec-10	Wind
10INR0080	Presidio	144	Dec-10	Solar	10INR0060	Willacy	400.5	Dec-10	Wind
10INR0059	Zapata	250.7	Dec-10	Wind	10INR0056	Borden	249	Dec-10	Wind
11INR0033b	Cameron	200	Jan-11	Wind	11INR0036b	Matagorda	200	Jan-11	Wind
11INR0050	Crosby	149	Mar-11	Wind	08INR0014	Webb	183	Mar-11	Wind
10INR0009	Castro	300	May-11	Wind	11INR0062	Nueces	149	May-11	Wind
11INR0028	Grimes	1280	May-11	Gas	11INR0061	Presidio	90	May-11	Solar
11INR0048	Harris	300	May-11	Gas	11INR0037	Smith	55	May-11	Biomass
10INR0062b	Pecos	49.5	May-11	Wind	11INR0046	Brazoria	300	May-11	Gas
11INR0058	Pecos	135	May-11	Solar	11INR0019	Upton	200	Jun-11	Wind

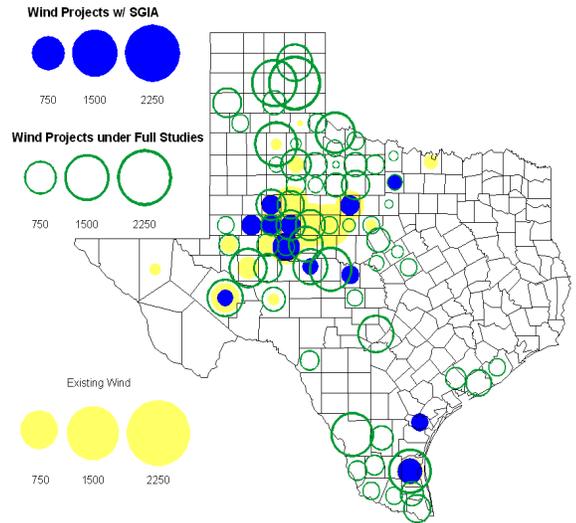
11INR0057	Cameron	144	Jun-11	Wind	08INR0020	Eastland	200	Jun-11	Wind
11INR0009	Navarro	1200	Jun-11	Gas	09INR0050	Fannin	1200	Jun-11	Gas
11INR0006	Lamar	579	Jul-11	Gas	11INR0040	freestone	749	Aug-11	Gas
11INR0047	Deaf Smith	600	Sep-11	Wind	11INR0039	Starr	201	Sep-11	Wind
11INR0008a	Roberts	1000	Sep-11	Wind	09INR0016	Yoakum	680	Nov-11	Gas
10INR0021	Grayson	646	Nov-11	Gas	11INR0043	Coke	300	Dec-11	Wind
06INR0022d	Kenedy	200	Dec-11	Wind	11INR0025	Crockett	400	Dec-11	Wind
11INR0005	Upton	500	Dec-11	Wind	10INR0018	Madison	550	Mar-12	Gas
10INR0062c	Pecos	201	May-12	Wind	12INR0007	Lamar	296	May-12	Gas
12INR0006	Limestone	875	Jun-12	Coal	10INR0022	Harris	3500	Jun-12	Gas
12INR0002	Briscoe	750	Jul-12	Wind	08INR0019c	Gray	250	Nov-12	Wind
12INR0016	Nueces	1200	Nov-12	Other	08INR0019a	Gray	250	Nov-12	Wind
08INR0019b	Gray	250	Nov-12	Wind	11INR0023	King	400	Dec-12	Wind
06INR0022f	Kenedy	200	Dec-12	Wind	12INR0018	Gray	600	Dec-12	Wind
12INR0022	Hidalgo	200	Dec-12	Wind	12INR0005	Floyd	1100	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	1200	Jul-14	Coal	14INR0001	Pecos	500	Dec-14	Wind

## 1.6 Wind Generation

Wind Capacity Installed by Year



County Location of Installed Capacity and Interconnection Requests



## 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. The review of this project is complete and an ERCOT Endorsement Letter is in process.
- 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.
- Austin Energy submitted a project to relocate the Decker to Techridge circuit to new ROW so that the existing structures can be utilized for the new Gilleland to Techridge circuit. The estimated completion date of this project is November 2010 and estimated cost is \$ 4.3 M. The review of this project is complete and an ERCOT Endorsement Letter has been sent.
- Centerpoint Energy has submitted a project to expand the Zenith substation, add one 800 MVA autotransformer, connect Zenith to existing circuits near the Gertie substation and upgrade/reconfigure nearby 138 kV circuits. The estimated completion date of this project is summer 2012 and estimated cost is \$ 26.6 M. This project is in ERCOT Independent Review.
- 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 \$ 214 M. This project is in ERCOT Independent Review.
- Centerpoint Energy submitted a project to upgrade the Garrott to Midtown to Polk underground 138 kV line. This project is estimated to be completed before summer peak 2011 and is estimated to cost \$17.8 M. The comment period for this project is complete and an RPG Acceptance Letter is in process.
- 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

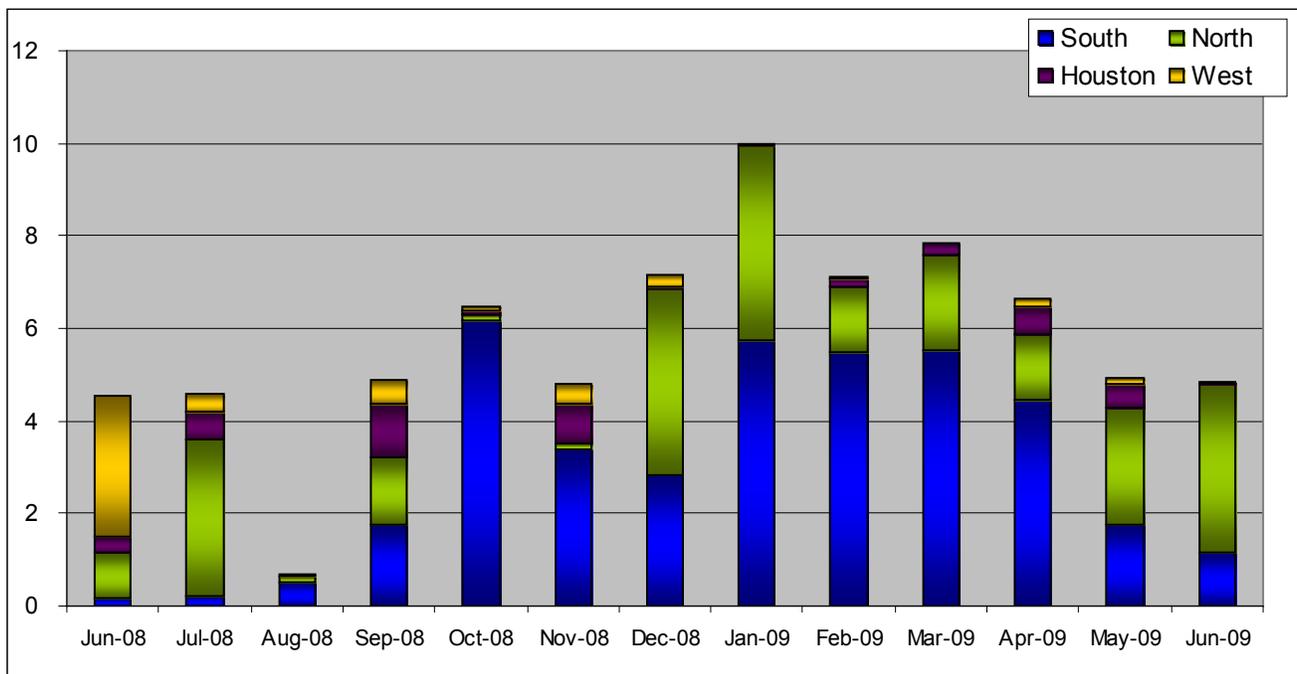
by September 2014 at a cost of \$222 M. The comment period for this project has been completed and it is currently in study mode.

- 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 the comment period.

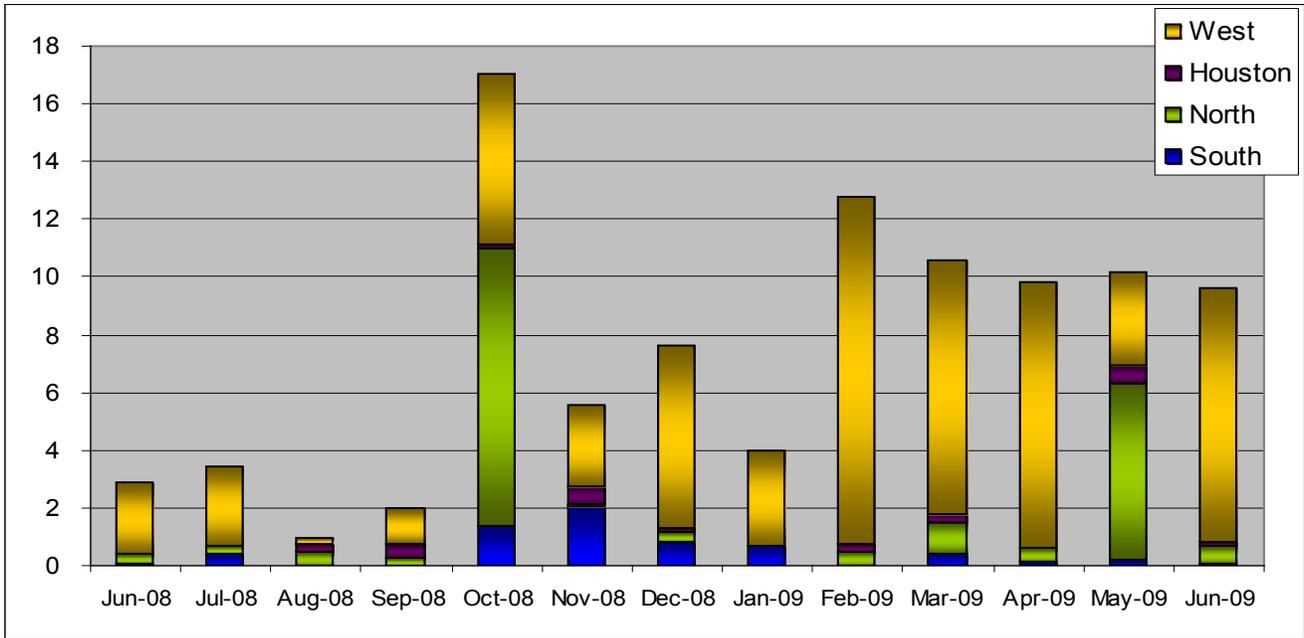
### 3. Congestion Costs

Dollars shown in graphs are settlement quality.

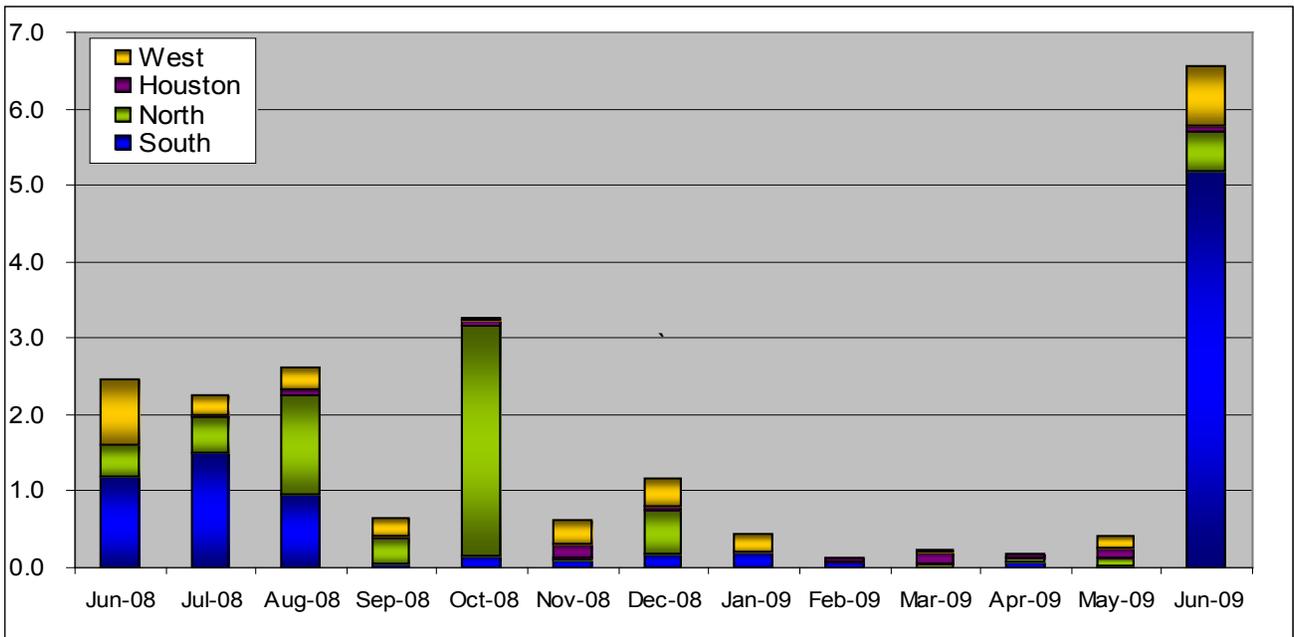
**OOMC – last 13 months in million\$**



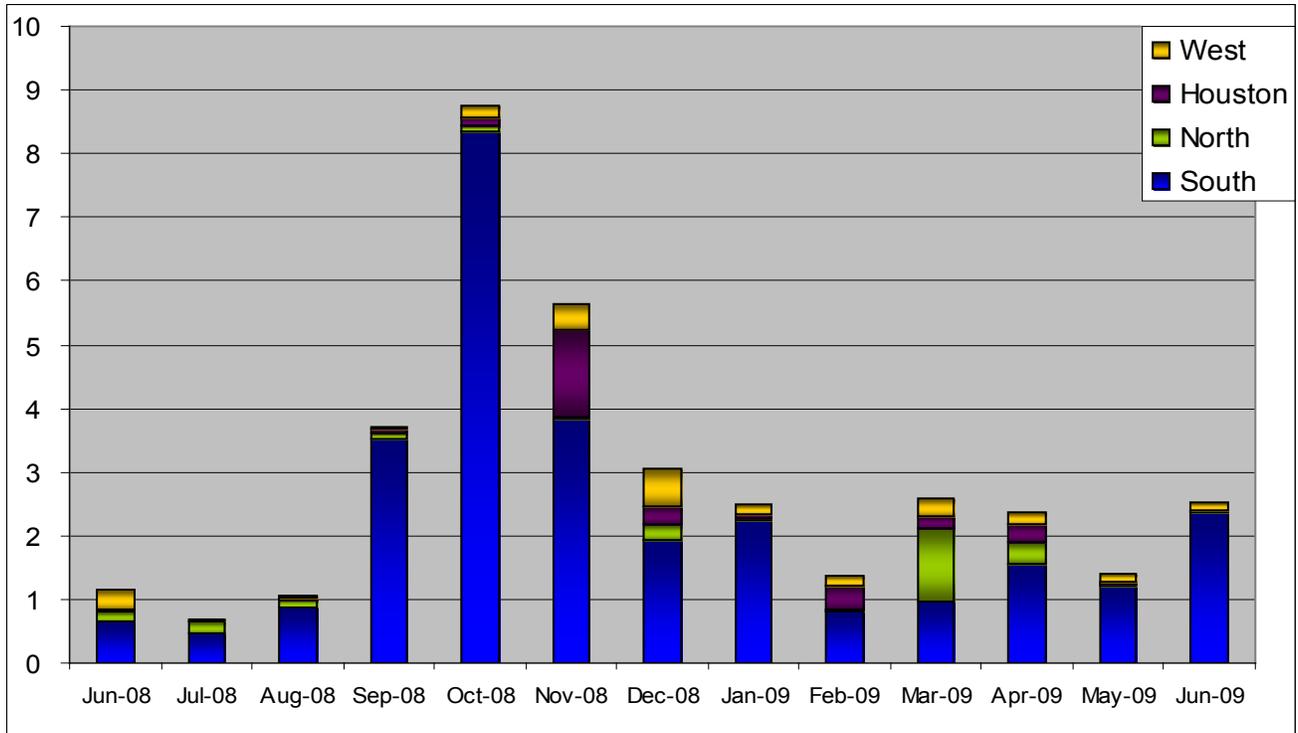
**OOM Down – last 13 months in million\$**



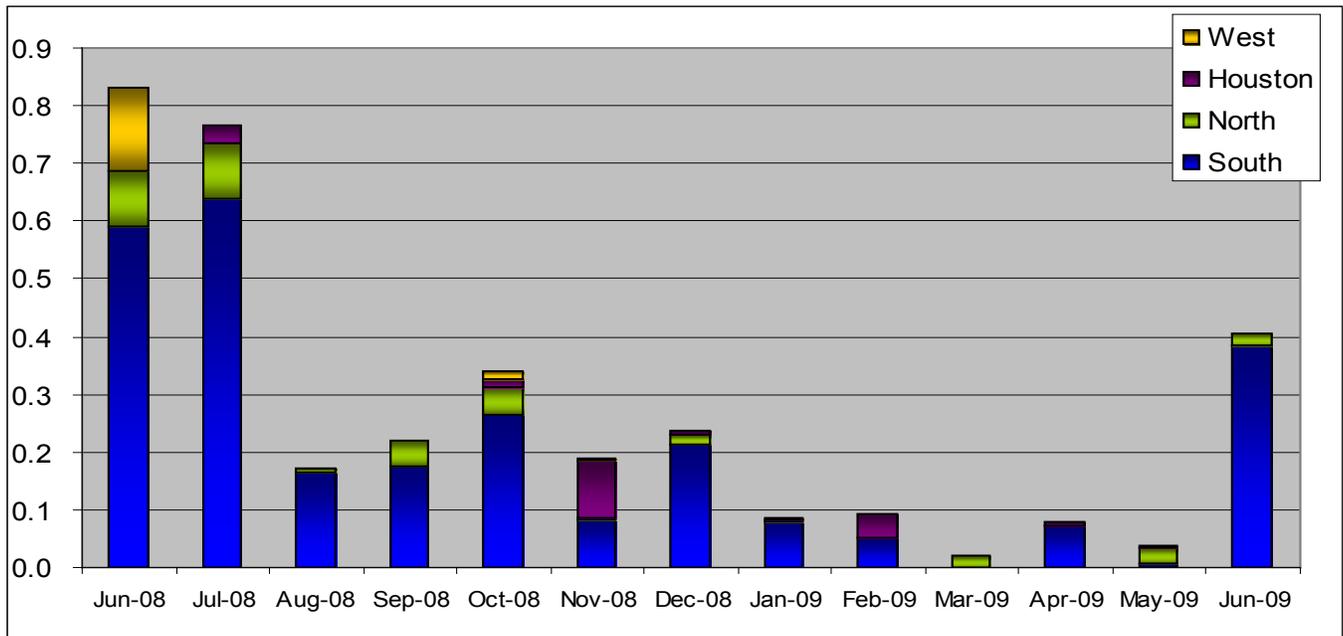
**Balancing Energy Down – last 13 months in million\$**



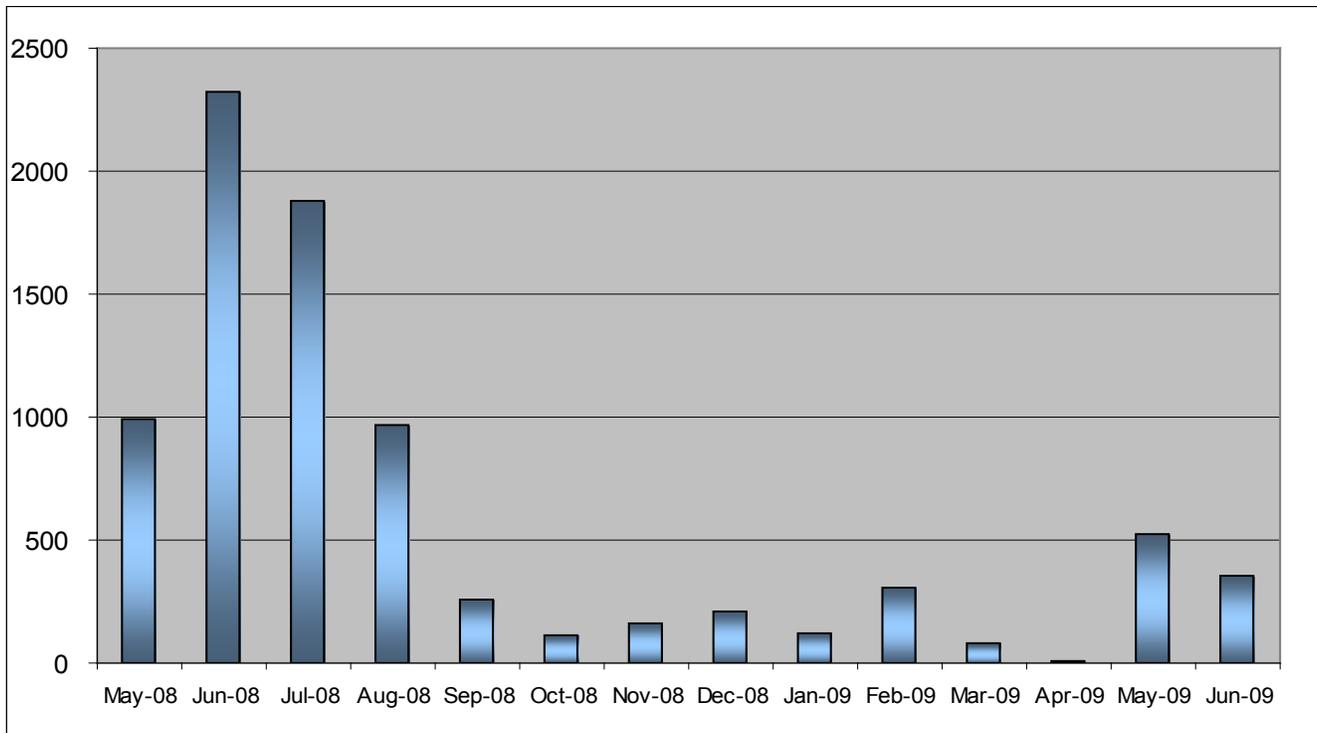
**OOM Up – last 13 months in million\$**



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



### Replacement Reserve – last 13 months in thousand\$



**Binding Constraints – June, 2009**

<b>Contingency</b>	<b>Binding Element</b>	<b>Estimated Costs</b>	<b>Transmission Project</b>
Menard - Gillespie 138kV	Menard Auto	\$ 3,620,392.10	Yellowjacket, Add Phase Shifting transformer (08TPIT0135)
Skyline to Marion & Elm Creek 345	Marion - Hill Country 345kV	\$ 3,159,056.69	Hill Country to Skyline - 345 kV 2nd Circuit (09TPIT0012)
Temple Pecan Creek - Tradinghouse & Temple Switch - Long Creek SES	San Angelo Power Station -Shrew Tap	\$ 2,923,976.71	San Angelo Power Station, to Menard 138 kV line improvements (09TPIT0212)
	Capacity Shortage	\$ 2,545,381.69	
Watermill - West Levee SW & Sargent Road	Watermill - DeSoto	\$ 1,832,359.56	Trinidad – Watermill 345kV line (07TPIT0140)
Watermill - DeSoto Switch - Cedar Hill Switch 345kV	Watermill - DeSoto	\$ 1,582,548.73	Trinidad – Watermill 345kV line (07TPIT0140)
Oklunion - Fisher Road - Bowman 345kV	Vernon - Grayback 69kV	\$ 891,532.81	Fisher Road - Wichita Falls 138 kV line upgrade (09TPIT0118)
Tradinghouse - Venus Switch 345kV	Rogers Hill - Elm Mott 138kV	\$ 839,174.75	Elm Mott - Waco Northcrest 138 kV line upgrade (10TPIT0091) N. Waco - NE. Waco 138 kV line upgrade (09TPIT0047)
Dilley Switch - San Miguel 138kV	Derby - Pearsall 69kV	\$ 704,606.56	Pearsall to Dilley 69 kV Line Upgrade (09TPIT0189)
Tradinghouse - Venus Switch 345kV	Rogers Hill - Bosque Switch 138kV	\$ 513,791.87	Elm Mott - Waco Northcrest 138 kV line upgrade (10TPIT0091) N. Waco - NE. Waco 138 kV line upgrade (09TPIT0047)

## Binding Constraints – July, 2009

Contingency	Binding Element	Estimated Costs	Transmission Project
	Capacity Shortage	\$ 4,159,576	
Temple Pecan Creek - Tradinghouse & Temple Switch - Lake Creek SES	San Angelo Power Station -Shrew Tap	\$ 3,349,357	San Angelo Power Station, to Menard 138 kV line improvements (09TPIT0212)
	Maintenance	\$ 954,856	
Watermill - West Levee SW & Sargent Road	Norwood Autotransformer	\$ 723,839	Trinidad – Watermill 345kV line (07TPIT0140)
	RPRS	\$ 598,365	
Dilley Switch - San Miguel 138kV Bates - Pearsall 138kV	Derby - Pearsall 69kV	\$ 345,245	Pearsall to Dilley 69 kV Line Upgrade (09TPIT0189)
	Laredo Import	\$ 273,432	
North Denton 138/69kV Autotransformer	North Denton 138/69kV Autotransformer	\$ 183,699	
Jewett - Big Brown 345kV	Big Brown Sw	\$ 174,798	Jewett - Big Brown 345kV upgrade (09TPIT0082)
Skyline - Marion & Elm Creek 345kV Hillcountry - Marion & Elm Creek 345kV	Schertz - Parkway 138kV	\$ 167,019	Parkway-Schertz build new 138kV line (10TPIT0064)

## 4. Other Notable Activities

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

- The reliability phase of the 2009 Five-Year Transmission Plan utilizing the latest SSWG base cases is nearly complete. Projects to eliminate unserved energy in 2014 have been identified and coordinated with ERCOT TSPs. Projects to eliminate unserved energy in the remaining years of the 5 year horizon are being studied. Projects to reduce congestion in 2014 are currently being studied.
- The RMR exit strategy for the Permian Basin RMR units 5 and 6 was approved by the ERCOT Board of Directors on July 21, 2009.
- The Voltage Ride Through Study has started. Phase I of the study involves evaluating system reliability risks associated with wind plants that do not comply with ERCOT VRT requirements utilizing existing wind plant model data. Phase II involves reviewing and improving wind plant models. Work on both of these study phases is underway and scheduled for completion by the end of 2009. Phase III involves evaluating system reliability risks associated with wind plants that do not comply with ERCOT VRT requirements utilizing revised wind plant models and investigation of any modifications necessary to mitigate such risks. Notable accomplishments to date:
  - The contingency screening process to determine the final set of contingencies for dynamic simulation is 100% complete
  - The flat start process to achieve an acceptable “no disturbance” simulation result incorporating detailed wind turbine dynamic models for both Phase I study cases is 90% complete

- A Market Notice was sent to each WGR requesting a technical contact for VRT study data issues and comments on the preliminary VRT study Data Request Form
  - A final VRT study Data Request Form (pre-populated with RARF data where there was duplication) was sent to each WGR.
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- Steady-State Working Group Data Set A cases are complete and posted on the Planning and Operations Information web site. Work has now begun on the Data Set B cases.