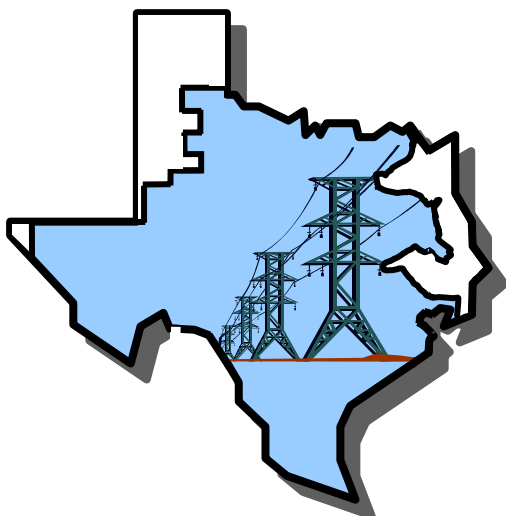




System Planning Division



Monthly Status Report to Reliability and Operations Subcommittee for October 2007

Report Highlights

Item

1. ERCOT is currently tracking 197 active generation interconnection requests totaling over 85,000 MW. This includes over 39,000 MW of Wind Generation.
2. Regional Planning is currently reviewing proposed transmission improvements with an estimated total cost of \$105.6 M.
3. Report of Recent Local Congestion Events presented to WMS October 17, 2007
4. Phase 1 of the Wind Impact/Ancillary Services study is complete

Table of Contents

- 1. Generation Interconnection 1
 - 1.1. New Generation Beginning Commercial Operations 1
 - 1.2. Active Generation Interconnection Requests..... 1
 - 1.3. Potential Future Generation Interconnections..... 2
- 2. Regional Planning Group Project Reviews 3
- 3. Congestion Management 4
- 4. Other Notable Activities..... 4

1. Generation Interconnection

Additional information regarding detailed generation interconnection and impact studies is contained in the “Generation Project Interconnection Information” data folder posted in the “Operations and System Planning” data area on the ERCOT website.

1.1. New Generation Beginning Commercial Operations

No new generators went into commercial operation in October 2007.

1.2. Active Generation Interconnection Requests

| GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED | | | | | |
|--|--|---------------|---------------|---------------|---------------|
| Currently tracking 197 active generation interconnection or change requests | | | | | |
| As of October 31, 2007 | | | | | |
| | | North | South | West | Total |
| Security Screening Study | | 9 | 6 | 19 | 34 |
| SSS Completed | | 6 | 3 | 11 | 20 |
| Full Interconnect Study | | 21 | 28 | 60 | 109 |
| FIS Completed | | 0 | 2 | 2 | 4 |
| Interconnect Agreement Completed | | 7 | 4 | 21 | 32 |
| Capacity for Grid, MW | | 25,644 | 23,057 | 36,739 | 85,440 |
| Wind Capacity, MW | | 1,918 | 3,643 | 33,994 | 39,555 |

| Fuel | Public (MW) | Non-public (MW) | Total (MW) |
|--------------------|--------------------|------------------------|-------------------|
| Natural gas | 3,440 | 22,085 | 25,525 |
| Nuclear | 5,986 | 6,400 | 12,386 |
| Coal | 4,761 | 2,788 | 7,549 |
| Wind | 9,093 | 30,462 | 39,555 |
| Other | 0 | 425 | 425 |
| Totals | 23,280 | 62,160 | 85,440 |

1.3. 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 October 31, 2007 | | | | | | | | |
|--|-------------------------------|--------|-------------|--------|------|-----------------|--------------|---|
| INR # | Site Name | Status | County | Region | Fuel | In Service Date | MW into Grid | Change from Last Report |
| 06INR0021 | Barton Chapel Wind Farm | IA | Jack | North | Wind | Oct-07 | 120 | |
| 07INR0003 | Whirlwind | IA | Floyd | West | Wind | Oct-07 | 60 | |
| 07INR0045 | Airtricity Champion Wind Farm | IA | Scurry | West | Wind | Dec-07 | 126 | |
| 07INR0028 | Goat Wind | IA | Sterling | West | Wind | Dec-07 | 150 | |
| 04INR0017 | Ocotillo Wind Farm 1 | IA | Howard | West | Wind | Dec-07 | 59 | |
| 04INR0020 | Project Snyder | IA | Scurry | West | Wind | Dec-07 | 63 | |
| 07INR0010 | Stanton Wind 1 | IA | Martin | West | Wind | Dec-07 | 101 | |
| 03INR0034 | Silver Star Project - Clipper | IA | Erath | North | Wind | Dec-07 | 60 | |
| 07INR0045 | Roscoe 1 | IA | Scurry | West | Wind | Mar-08 | 209 | |
| 07INR0030 | Louis (Buffalo Gap 3) | IA | Nolan | West | Wind | Apr-08 | 138 | |
| 06INR0035 | Colorado Bend Energy Center 2 | IA | Wharton | South | Gas | May-08 | 275 | |
| 06INR0036 | Quail Run 2 | IA | Ector | West | Gas | May-08 | 275 | |
| 07INR0022 | Airtricity Panther Creek | IA | Howard | West | Wind | Jun-08 | 150 | |
| 03INR0030 | Wild Horse 2 | IA | Cottle | West | Wind | Aug-08 | 39 | |
| 08INR0038 | M Bar Wind | PL | Andrews | West | Wind | Sep-08 | 194 | Public Letter |
| 07INR0025 | Airtricity Lamesa | IA | Dawson | West | Wind | Oct-08 | 183 | |
| 07INR0037 | Bull Creek Wind Plant | IA | Borden | West | Wind | Oct-08 | 180 | |
| 07INR0045 | Airtricity Inadale | IA | Scurry | West | Wind | Nov-08 | 212 | Signed IA, changed date, changed capacity |
| 07INR0045 | Airtricity Pyron | IA | Scurry | West | Wind | Nov-08 | 303 | Signed IA, changed date, changed capacity |
| 03INR0030 | Wild Horse1 | IA | Cottle | West | Wind | Nov-08 | 60 | |
| 08INR0059 | Gray Wind Project | PL | Borden | West | Wind | Dec-08 | 141 | |
| 05INR0015 | Gulf Wind 1 | IA | Kenedy | South | Wind | Dec-08 | 187 | |
| 08INR0018 | Gunsight Energy Center | PL | Howard | West | Wind | Dec-08 | 200 | |
| 04INR0011 | Hackberry Wind Farm | IA | Shackelford | West | Wind | Dec-08 | 165 | |
| 07INR0005 | Notrees-1 | IA | Ector | West | Wind | Dec-08 | 150 | Signed IA |
| 06INR0022 | Penascal Wind Farm 1 | IA | Kenedy | South | Wind | Dec-08 | 202 | |
| 08INR0025 | Pistol Hill Energy Center | PL | Ector | West | Wind | Dec-08 | 300 | |
| 07INR0029 | South Trent Wind Farm | IA | Taylor | West | Wind | Dec-08 | 101 | |
| 07INR0011 | Turkey Track Energy Center | PL | Nolan | West | Wind | Dec-08 | 300 | |

| | | | | | | | | |
|-----------|--|----|--------------|-------|---------|--------|--------|-----------------|
| 06INR0026 | Wild Horse Mountain | IA | Howard | West | Wind | Dec-08 | 120 | |
| 08INR0046 | Bosque Expansion | IA | Bosque | North | Gas | Mar-09 | 255 | Signed IA |
| 08INR0047 | Buffalo Gap 4 | PL | Nolan | West | Wind | Mar-09 | 378 | |
| 06INR0006 | Cobisa-Greenville | PL | Hunt | North | Gas | May-09 | 1750 | |
| 08INR0040 | Lenorah Project | PL | Martin | West | Wind | May-09 | 350 | |
| 09INR0028 | V H Braunig 6 | PL | Bexar | South | Gas | May-09 | 185 | |
| 09INR0060 | Wind Tex Energy Stephens Wind Farm | PL | Borden | West | Wind | May-09 | 141 | |
| 09INR0036 | McAdoo Energy Center II | PL | Dickens | West | Wind | Jun-09 | 500 | |
| 09INR0026 | Sterling Energy Center | PL | Sterling | West | Wind | Jun-09 | 300 | |
| 08INR0003 | Sandow 5 | PL | Milam | North | Coal | Jul-09 | 581 | |
| 05INR0015 | Gulf Wind 2 | PL | Kenedy | South | Wind | Sep-09 | 400 | |
| 09INR0024 | B&B Panhandle Wind Comanche Peak 1&2 Upgrade | PL | Carson | West | Wind | Sep-09 | 1001 | |
| 09INR0015 | Upgrade | PL | Somervell | North | Nuclear | Oct-09 | 86 | |
| 09INR0006 | Oak Grove SES 1 | PL | Robertson | North | Coal | Nov-09 | 855 | |
| 09INR0034 | Gatesville Wind Farm | PL | Coryell | North | Wind | Dec-09 | 200 | |
| 07INR0004 | Pampa Energy Center Camp Springs Energy Center III | PL | Gray | West | Coal | Dec-09 | 165 | |
| 09INR0037 | Center III | PL | Scurry | West | Wind | Mar-10 | 350 | |
| 09INR0006 | Oak Grove SES 2 | PL | Robertson | North | Coal | May-10 | 855 | |
| 09INR0002 | J K Spruce 2 | PL | Bexar | South | Coal | Jun-10 | 750 | |
| 05INR0015 | Gulf Wind 3 | PL | Kenedy | South | Wind | Sep-10 | 400 | |
| 09INR0001 | Sandy Creek 1 Thockmorton Wind Farm | PL | McLennan | North | Coal | Sep-10 | 925 | |
| 12INR0003 | Farm | PL | Throckmorton | West | Wind | Dec-10 | 400 | |
| 11INR0007 | Mountain Creek | PL | Dallas | North | Gas | May-11 | 700 | Changed date |
| 11INR0001 | Twin Oaks 3 | PL | Robertson | North | Coal | Jun-11 | 630 | |
| 12INR0004 | Fort Concho Wind Farm Comanche Peak 3 and 4 | PL | Tom Green | West | Wind | Jul-12 | 400 | |
| 15INR0002 | 4 | PL | Somervell | North | Nuclear | Jan-15 | 3200 | |
| 15INR0008 | STP 3 and 4 | PL | Matagorda | South | Nuclear | Jan-15 | 2700 | |
| | | | | | | Total | 23,280 | |

2. Regional Planning Group Project Reviews

- Luminant has submitted two interrelated, yet independent projects for review. The first project is an acceleration of the planned upgrade of the Tyler Northeast to Tyler East 138 kV line, currently planned to be complete in May 2012, 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. This project is in ERCOT Independent Review.
- Oncor submitted a project to rebuild the Big Spring – Chalk – McDonald Road 69 kV line. This project will alleviate overloads due to new wind projects on the Morgan Creek to McDonald Road 138 kV circuit by adding a new 138 kV from Big Spring into McDonald Road on double

circuit 138/69 kV structures that will replace the existing 69 kV single circuit structures. The cost of the project is \$10.8 M and due for completion in December 2008. This project is currently in Study Mode awaiting Oncor response to comments.

- Oncor submitted a project to relieve congestion that will occur when two new Wind units are connected to the transmission system in the Lamesa area. This 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 these upgrades is \$40.3 M. This project has additional work to be done for a third wind unit that will add second circuits to all rebuilt lines and include station upgrades at China Grove and Big Spring. The additional cost of these upgrades is \$40.5 M. This project is in the Comment Period.

3. Congestion Management

- The following is a summary of the **Report of Recent Local Congestion Events** presented to WMS on October 17, 2007. To see the full presentation that includes details click on Item 9 in the Key Documents section of the October WMS at the following link: <http://www.ercot.com/calendar/2007/10/20071017-WMS.html>

| | Duration in 2007 | Planned Outages | Financial Impact |
|----------------------------|------------------|--|--|
| Northeast | 9/24 – 10/5 | Monticello to Allen Switch | \$8.5M in local congestion costs: \$6.0M in OOME \$2.5M in OOMC |
| South -> Houston | 10/1 – 10/3 | STP to Hillje | \$7.2M in zonal congestion charges \$14.9M paid to TCR holders \$7.7M uplifted to BENA |
| West -> North | 10/2 | Multiple planned outages at Morgan Creek | \$819k in zonal congestion charges |
| North -> West | 10/3 | | \$2.7M paid to TCR holders (<i>in opposite directions</i>) \$1.9M uplifted to BENA |

The above dollar amounts are estimated and therefore are **NOT** Settlement quality.

4. Other Notable Activities

- The Wind Impact/Ancillary Services study is continuing. GE is evaluating 4 scenarios of wind capacity on the system: 5,000 MW, 2 scenarios of 10,000 MW, and 15,000 MW. Phase I of the study (a statistical analysis of increased variability with increasing amounts of wind) is complete. The Phase I findings were presented at an open stakeholder meeting of the Wind Impact Task Force on October 22, 2007. Draft Phase II results are expected before the end of November.

- CREZ Study (SB20)
 - System Planning is analyzing transmission solutions as part of the CREZ Transmission Optimization Study. The Interim Order requesting this analysis was issued by the PUCT on October 2, 2007.
- 2007 Five Year Plan
 - Reliability phase complete except for two alternative projects that are being discussed with transmission operators.
 - Nearing the completion of the economic phase for years 2009, 2010, 2011, and 2012.
 - Economic project identification spreadsheet has been sent to transmission operators and posted on Operations and System Planning web site.
- The System Protection Working Group 2007 future year short circuit cases have been posted.
- NERC issues the 2007 Long Term Reliability Assessment