Grid Operation

Daily Peak Demand

Peak Demand for the Month: 11/09/05 16:00 42574

13 Month Review of Peak Demand

Peak Demand is Peak Interval Demand
Daily Average Temperature in Five Congestion Management Zones

Relative Activity Capacity Purchases – OOMC & RMR

Total Number of Days of Local Congestion Management

Note: 1 Unit-Day = 1 unit procured during any time period within one trade day.

Note: 1 day= units procured during any time period within one trade day. Total numbers of 1 day or less of local congestion management are not shown in the graph. 

Indicates congestion affected by outages
Instances of CSC Congestion

Notable Events

New Procedures/ Forms/ Operations Bulletins

<table>
<thead>
<tr>
<th>Date</th>
<th>Bulletin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/04/05</td>
<td>Market Ops Bulletin 28</td>
<td>Settlement implication of the revision to local balancing energy project</td>
</tr>
</tbody>
</table>

Significant Communication Problems

None

OCN, Advisory, Alert, Emergency Notice and Major Disturbances

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-07-05</td>
<td>14:30-22:00</td>
<td>Loss of Pawnee to Lon Hill loads San Miguel to Sigmore.</td>
</tr>
<tr>
<td>11-07-05</td>
<td>14:30-22:00</td>
<td>Loss of San Miguel tr loads Derby to Pearsal.</td>
</tr>
<tr>
<td>11-08-05</td>
<td>14:45-17:15</td>
<td>Loss of Pawnee to Lon Hill loads San Miguel to Sigmore.</td>
</tr>
<tr>
<td>11-11-05</td>
<td>15:00-19:30</td>
<td>Loss of Pawnee to Lon Hill loads San Miguel to Sigmore.</td>
</tr>
<tr>
<td>11-14-05</td>
<td>14:50-22:00</td>
<td>Loss of Pharr - Pharr MVEC loads N Edinburgh - McColl Road</td>
</tr>
<tr>
<td>11-14-05</td>
<td>14:50-22:00</td>
<td>Loss of San Miguel tr loads Derby to Pearsal.</td>
</tr>
<tr>
<td>11-15-05</td>
<td>10:15-24:00</td>
<td>Loss of Ingleside CT loads Ingleside-Air Liquide</td>
</tr>
<tr>
<td>11-16-05</td>
<td>00:15-24:00</td>
<td>Loss of Ingleside CT loads Ingleside-Air Liquide</td>
</tr>
<tr>
<td>11-17-05</td>
<td>00:15-14:30</td>
<td>Loss of Ingleside CT loads Ingleside-Air Liquide</td>
</tr>
<tr>
<td>11-19-05</td>
<td>12:50-17:38</td>
<td>Loss of W.Waco-N.Temple or McGregor Phillips tr cause voltage violations at Gatesville Switch/McGregor Phillips/McGregor TU/Waco Atco &amp; West Waco stations on the 69kv system.</td>
</tr>
<tr>
<td>11-23-05</td>
<td>12:15-13:45</td>
<td>OCN - Insufficient capacity for HE 19:00.</td>
</tr>
<tr>
<td>11-23-05</td>
<td>13:45-18:40</td>
<td>Alert - Insufficient capacity for 19:00 &amp; 20:00.</td>
</tr>
<tr>
<td>11-27-05</td>
<td>00:15-01:30</td>
<td>OCN - Insufficient capacity for HE 18,19,20</td>
</tr>
<tr>
<td>11-27-05</td>
<td>01:30-16:00</td>
<td>Alert - Insufficient capacity for HE 18,19,20</td>
</tr>
</tbody>
</table>

Major Computer System Problems/Enhancements/Fixes

None

Security Alert Stage/ Threatcon/ Related issues

None/Yellow

Major Weather Related Power System Problems

None

Major system Voltage problems/ Load Shed incidences

None

New SPS & RAP's

None

Update on New Generation

None

Max / Min Temperature

Max: 89 F FW
Min: 22.5 F FW
Market Operation

Ancillary Services

Average Hourly Procurement by Ancillary Service

13 Month Review of Average Hourly Procurement by Ancillary Service
Balancing Energy

Average Balancing Energy Deployed

Average UBES Deployment in Five Zones

Average DBES Deployment in Five Zones
13 Month Review of UBES Deployment

13 Month Review of DBES Deployment

Balancing Energy
Energy Purchased Through ERCOT

(PPR404: Any Balancing Energy scheduled through the ERCOT Scheduling process)
Balancing Energy
% of Total ERCOT Energy Requirement

Average BES Deployed: as a Percentage of Total Energy Requirement

13 Month Review of Average BES Deployed: as A Percentage of Total Energy Requirement
Balancing Energy

Average MCPE

Average MCPE in Five Zones

Average MCPE at Each Interval for Five Zones
13 Month Review of MCPE

Average Fuel Index

Balancing Energy
Average Shadow Price
Ancillary Service Capacity Cost

11/1 to 11/30

Total: $56.21 Million

Note: There is not a price for self-arranged Ancillary Services. MCPC is used to calculate the cost for self-arrangement.

Ancillary Service Deployment Cost

11/1 to 11/30

Total w/DRS: $-3.71 Million  Total w/o DRS: $77.12 Million

Totals are for time range of the chart.
**OMMC Cost At Final Settlement**

- Start-Up Payment (Total: $1.68 Million)
- Total OMMC Payment (Total: $6.75 Million)

**13 Month Review of OMMC Cost At Final Settlement and True Up**

- Total OMMC Payment (Total: $71.50 Million)

Totals are for time range of the chart.

**RMR Cost (Initial Settlement)**

- Energy
- Stand By
- Start Up
- BENA Credit

**RMR Net Cost (Initial Settlement)**

- Total Net Cost $5.46 Million
**Verified Actual RMR Cost**

- **RMR Payments**, **BENA Credit**, **RMR Net Costs**

RMR Net Cost: $110.13

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**Note:**

1. Trade dates thru 11/30/05 complete with Initial Settlement data, using estimated eligible costs.

2. Trade dates thru 12/16/05 complete with Final Settlement data, using verifiable actual cost data provided by the RMR Unit owner.

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**Total Local Congestion Costs by the Physical Location of Instructed Units**


Total: $12.83 Million

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**Total Local Congestion Costs by Instruction Type (in Million $)**

- **LBE-operate at or below a level**
- **LBE-operate at or above a level**
- **LBE-hold at a level**
- **Manual OOME UP**
- **Manual OOME DN**
- **OOMC**

Total: 6.75

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Local Congestion Cost By Instruction Type by Day

- Total: $12.84 Million

Top Ten Local Energy Deployment Cost by Local Constraints (Does not include OOMC)

- Total: $5.69 Million

<table>
<thead>
<tr>
<th>Company</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marion-Skyline-345kv</td>
<td>0.46</td>
</tr>
<tr>
<td>Marion-Hill Country &amp; Skyline 345kv</td>
<td>0.58</td>
</tr>
<tr>
<td>Dansby-138/69kv</td>
<td>0.45</td>
</tr>
<tr>
<td>Auto-Trinidad-Stryker Creek-Mt. Enterprise 345kv</td>
<td>0.30</td>
</tr>
<tr>
<td>Marion-Zorn &amp; Clear Springs 345kv</td>
<td>0.12</td>
</tr>
<tr>
<td>Stephenson Ranch &amp; Highway 1247 345kv</td>
<td>0.11</td>
</tr>
<tr>
<td>Trinity-Hill Country &amp; Hearne Switch 69kv</td>
<td>0.07</td>
</tr>
<tr>
<td>Texas A&amp;M-Dansby 138kv</td>
<td>0.06</td>
</tr>
<tr>
<td>Forest Grove Mabank Tap</td>
<td>0.06</td>
</tr>
<tr>
<td>- Schertz-Parkway 138kv</td>
<td>-</td>
</tr>
</tbody>
</table>
Note:

1. DBES cost is a credit to system costs and therefore is shown as a negative number here to differentiate it from the other types of Reliability Costs.

2. BES deployment costs include two parts: the cost for Power Balance and the cost for CSC Congestion. Due to Relaxed Balanced Schedule, the cost paid for Power Balance covers both the difference between ERCOT load forecast and QSE's schedule and the amount of energy that QSEs intend to buy from Real-Time Energy market.

The historical data gathered from the monthly reports has been compiled into an Excel workbook which will be updated and posted along with this report at the following link:


Or at the new ERCOT website at the following link:


Please contact Shuye Teng at 512-248-3998 or email at steng@ercot.com should you have any questions.
Addendum: Map of Local Congestion Areas (charts on pages 34 & 35)