Monthly Highlights

- The maximum demand in February 2020 was 56,116 MW*, which was 2,364 MW more than the February 2019 demand of 53,752 MW.

- ERCOT issued 5 notifications:
  - 1 Advisory issued for postponement of the DAM solution posting deadline due to long running solution.
  - 1 DC Tie Curtailment issued due to one or more transmission security violations that would be fully or partially resolved by the curtailment of DC Tie Load.
  - 1 DC Tie Curtailment issued due to an unplanned outage.
  - 2 Emergency Notices issued for Far West Texas area due to a contingency.

- The percentage of Real-Time Load transacted in the Day-Ahead Market recovered from 81% in January to 85% in February after falling from 88% in December. The metric compares the total Day-Ahead Market activity to the Real-Time Load for Counterparties that represent Real-Time Load. The increase in February was due to certain market participants increasing their DAM activity to cover Real-Time Load that was not covered in January and other market participants increasing the amount of Day-Ahead Market activity that exceeded their Real-Time Load.

* Preliminary value from February release of Demand and Energy 2020 report.
Monthly energy generation increased 7% year-over-year to 28,005 GWh in February 2020, compared to 26,100 GWh in February 2019.

Data for latest two months are based on preliminary settlements.

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GWh

Feb 18, Apr 18, Jun 18, Aug 18, Oct 18, Dec 18, Feb 19, Apr 19, Jun 19, Aug 19, Oct 19, Dec 19, Feb 20

Nuclear, Coal, Wind, Solar, Hydro, Biomass, Other, Net DC/BLT, Gas-CC, Gas
Generation Interconnection activity by project phase
(excludes capacity associated with Projects designated as Inactive per Planning Guide Section 5.7.6)

A break out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: [http://www.ercot.com/gridinfo/resource](http://www.ercot.com/gridinfo/resource)
Interconnection Queue Capacity by Fuel Type

Queue totals: Solar 78 GW (63%), Wind 31 GW (25%), Gas 6 GW (4%), Battery 10 GW (8%) (excludes capacity associated with Projects designated as Inactive per Planning Guide Section 5.7.6)

A break out by zone can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: http://www.ercot.com/gridinfo/resource
Planning Summary

• ERCOT is currently tracking 633 active generation interconnection requests totaling 124,062 MW. This includes 77,699 MW of solar, 30,515 MW of wind, and 9,979 MW of battery projects as of February 2020.

• ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $1,296.54 Million as of February 29, 2020.

• Transmission Projects endorsed in 2020 total $50.77 Million as of February 29, 2020.

• All projects (in engineering, routing, licensing and construction) total approximately $7.45 Billion as of February 1, 2020.

• Transmission Projects energized in 2020 total about $122 Million as of February 1, 2020.
ERCOT set a maximum peak demand of 56,116 MW* in February 2020, which is 2,364 MW more than the February 2019 demand of 53,752 MW.

*Based on the maximum net system hourly value from March release of Demand and Energy 2020 report.

**Based on the minimum net system 15-minute interval value from March release of Demand and Energy 2020 report.

Data for latest two months are based on preliminary settlements.
The Mid-Term Load Forecast is an hourly forecast that looks 7 days into the future.
The Short-Term Wind Power Forecast (STWPF) is an ERCOT produced hourly 50% probability of exceedance forecast of the generation in MWh per hour from each Wind Generation Resource.
ERCOT’s performance based payment structure for Wind Forecasts with both vendors incentivizes improvements in forecast performance during hours that are of more importance to operational reliability. This approach is a paradigm shift from the “traditional” methodology of measuring wind forecast performance as a singular monthly average metric.

Forecast performance during large down ramp (wind ramp > 2000 MW) hours and high risk hours (historic risk of load ramping up and wind ramping down is high) is focused upon. Note that for the purposes of forecast performance measurement every hour in a month is classified as either a large down ramp hour or a high risk hour or something else. Any hour that is a high risk hour wherein a large down ramp was experienced will be tracked as a large down ramp hour.
Current Operating Plan (COP) Performance

- COPs for IRRs are derived from wind and solar forecasts from ERCOT with any adjustments from Qualified Scheduling Entities.

- The installed capacity of approved IRRs is 27,429 MW (as of February 29, 2020).
The congestion rent in the West zone increased significantly in February, in part due to planned transmission outages. The most significant West zone constraints for February include SECNMO28: 6100__F, MMDS58: 6475__C, and DWINDUN8: 6100__F in the Odessa – Midland area.

Congestion Rent is determined using the shadow prices and MW flows for individual constraints in SCED as well as the length in time of SCED intervals.

The “Cross Zone” category consists of cases in which the substations on either end of the constraint are in different zones.
Four Resources were Committed in February for Congestion

“Effective Resource-hours” excludes any period during a Reliability Unit Commitment hour when the RUC-committed Resource was starting up, shutting down, off-line, or otherwise not available for dispatch by SCED.
Net Allocation to Load in February 2020 was $-18 Million

This information is available in tabular form in the Settlement Stability Report presented quarterly to the Market Settlement Working Group and Wholesale Market Subcommittee.
Real-Time Revenue Neutrality Allocated to Load was $8.19M for February 2020
Ancillary Services for February 2020 totaled $20.19M
Day-Ahead and Real-Time Market Price Differences

*Averages are weighted by Real-Time Market Load

The dotted lines represent the bounds for major outliers

*Averages are weighted by Real-Time Market Load
The increase in this metric in February compared to January is due to certain market participants increasing the amount of Day-Ahead Market activity to cover Real-Time Load that was not previously covered and other market participants increasing the amount of Day-Ahead Market activity that exceeded their Real-Time Load.
CRR Value and Cost Differences

Chart showing the differences in value and cost for the years from Feb 18 to Feb 20.
The CRR Balancing Account was fully funded and excess amounts were allocated to Load.
Available Credit by Type Compared to Total Potential Exposure (TPE)

*Numbers are as of month end except for Max TPE
## Retail Transaction Volumes – Summary – February 2020

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<tr>
<th>Transaction Type</th>
<th>February 2020</th>
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<th>February 2019</th>
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<td>Switches</td>
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<td>Acquisition</td>
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<td>Mass Transitions</td>
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<td><strong>Total</strong></td>
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<td><strong>1,200,111</strong></td>
<td><strong>411,977</strong></td>
<td><strong>512,947</strong></td>
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