

To the Public Utility Commission of Texas

ERCOT Wholesale Electricity Market Monthly Report

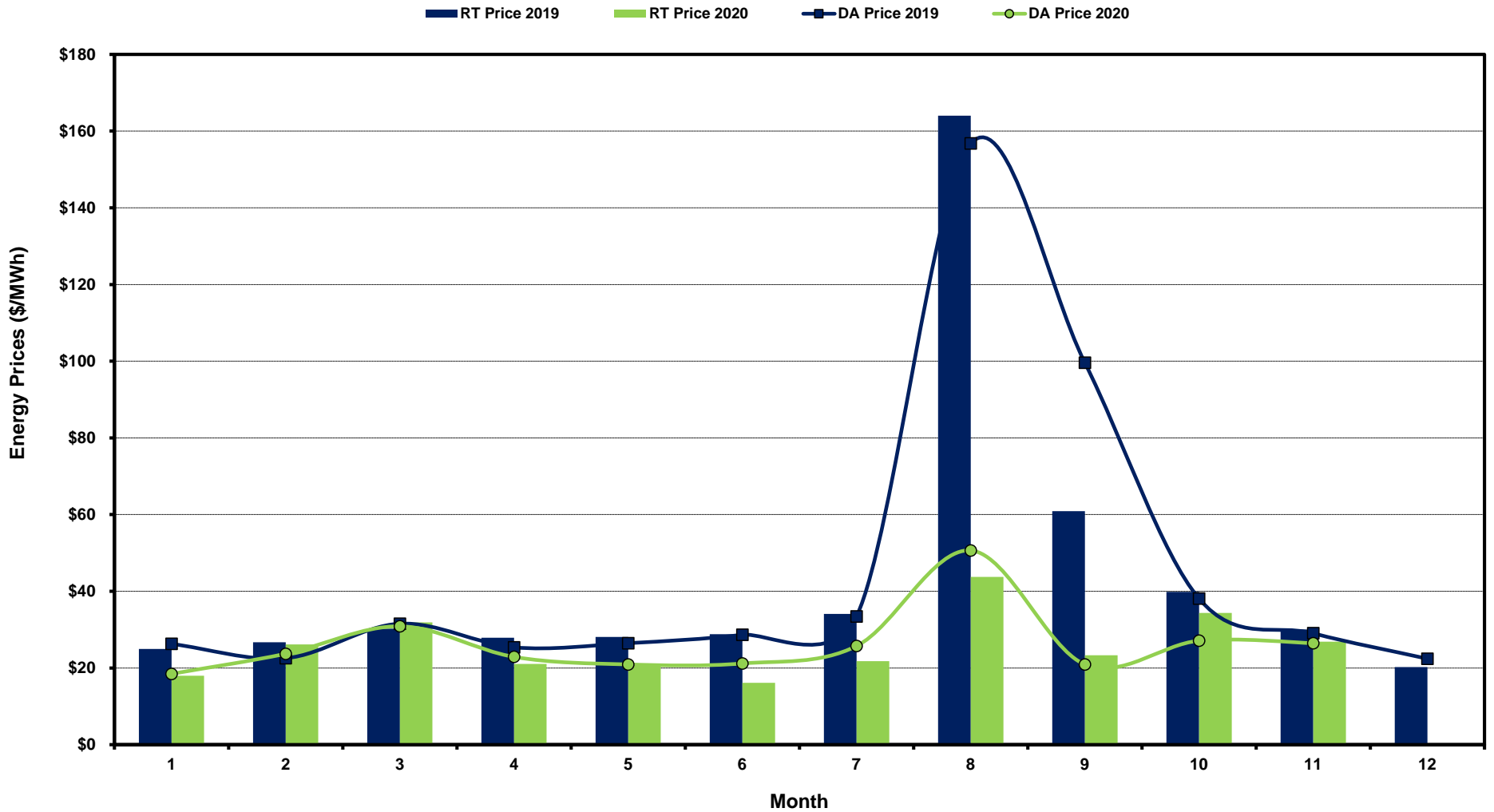
Thursday, December 10, 2020

Potomac Economics, Ltd.
Independent Market Monitor

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ERCOT-wide Average Energy Prices DA vs RT

(avg. DA & RT SPPs weighted by Real Time Settlement Loads)



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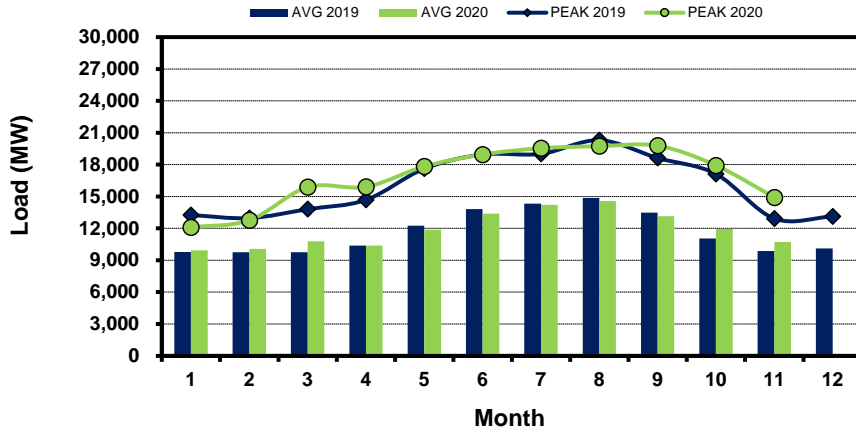
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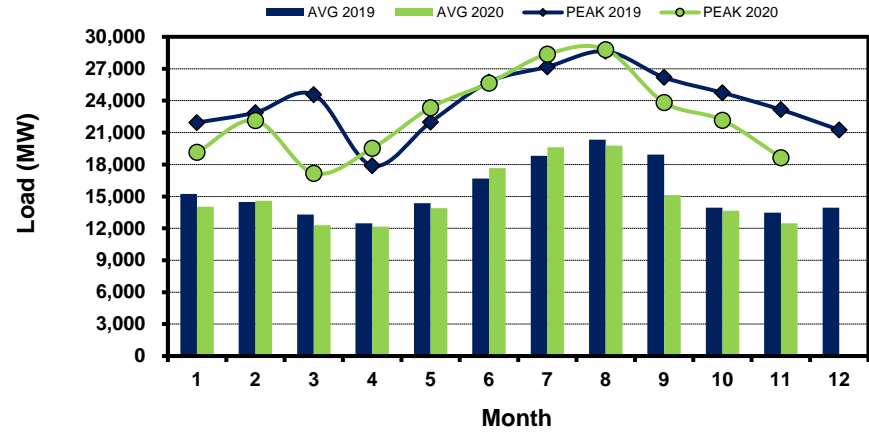
Load Zone Load Statistics

(Nodal load zone made comparable to zonal system Load Zone definitions*)

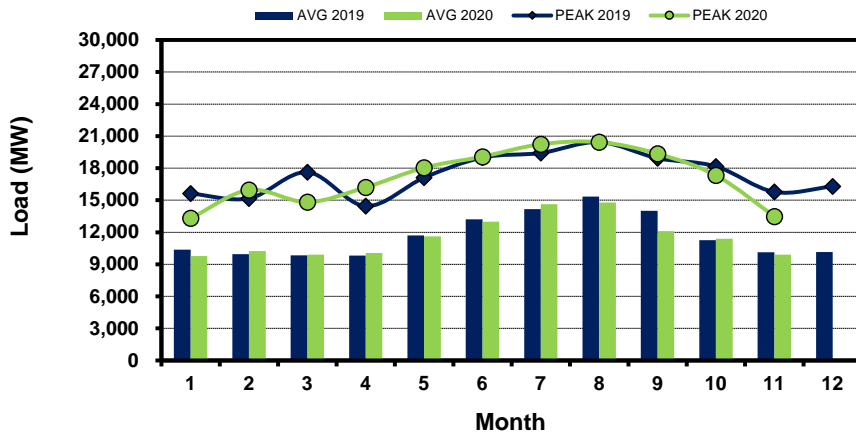
Houston Zone



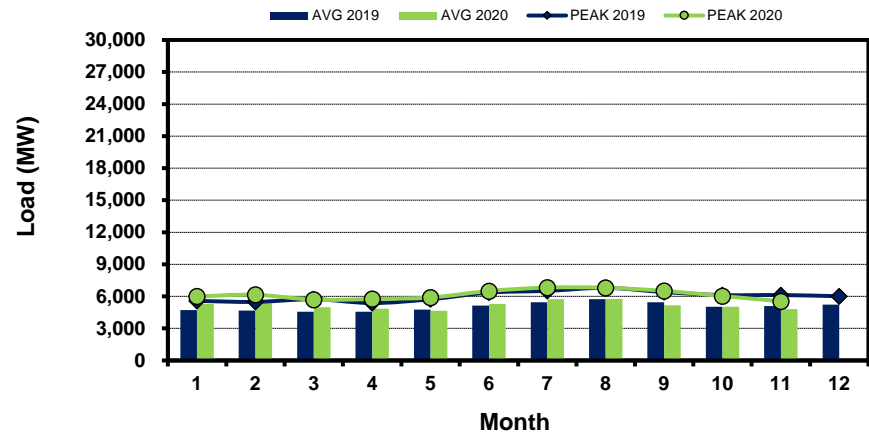
North Zone



South Zone



West Zone



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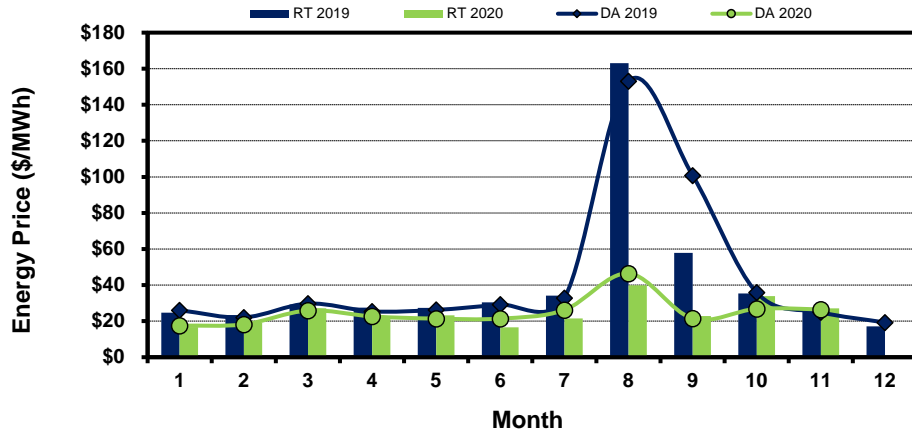
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

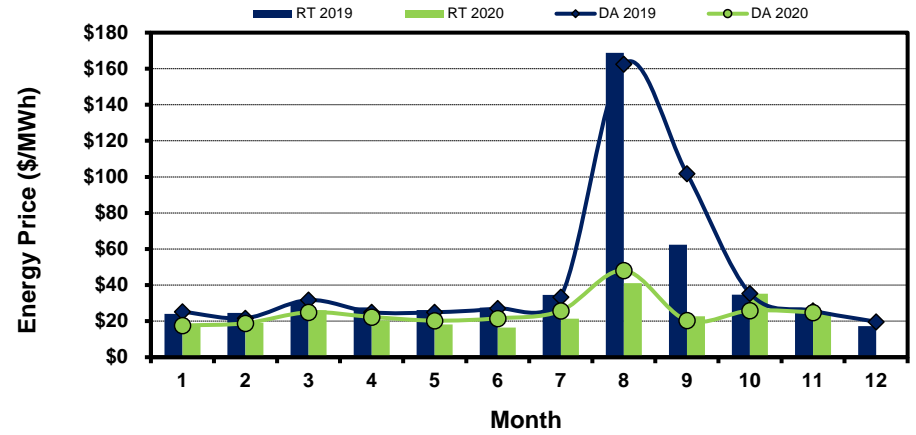
Load Zone Monthly Average Energy Price DA vs RT

(avg. DA & RT SPPs weighted by Real Time Settlement Loads)
 (Nodal load zone made comparable to zonal system Load Zone definitions*)

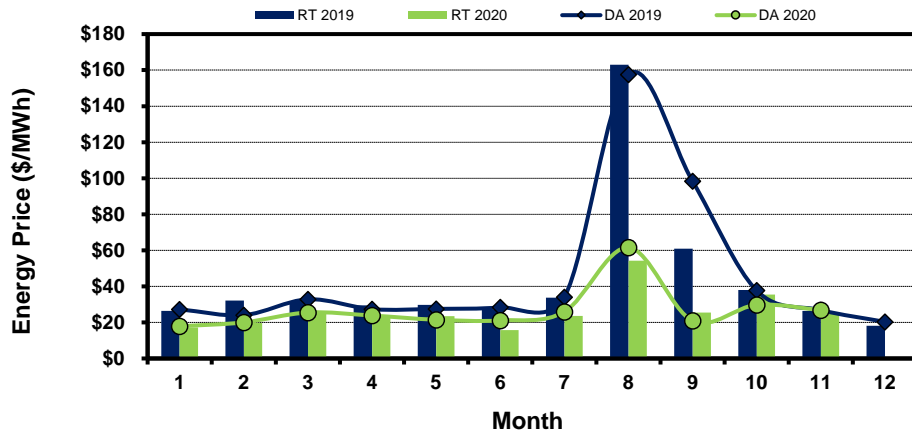
Houston Zone



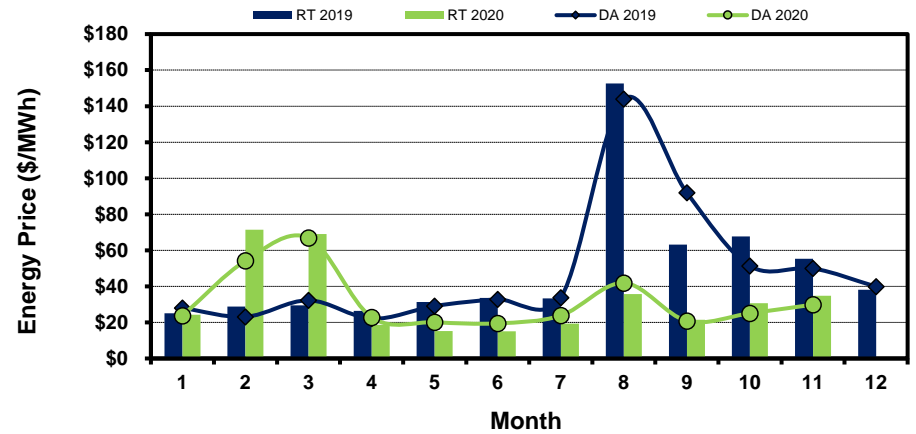
North Zone



South Zone



West Zone



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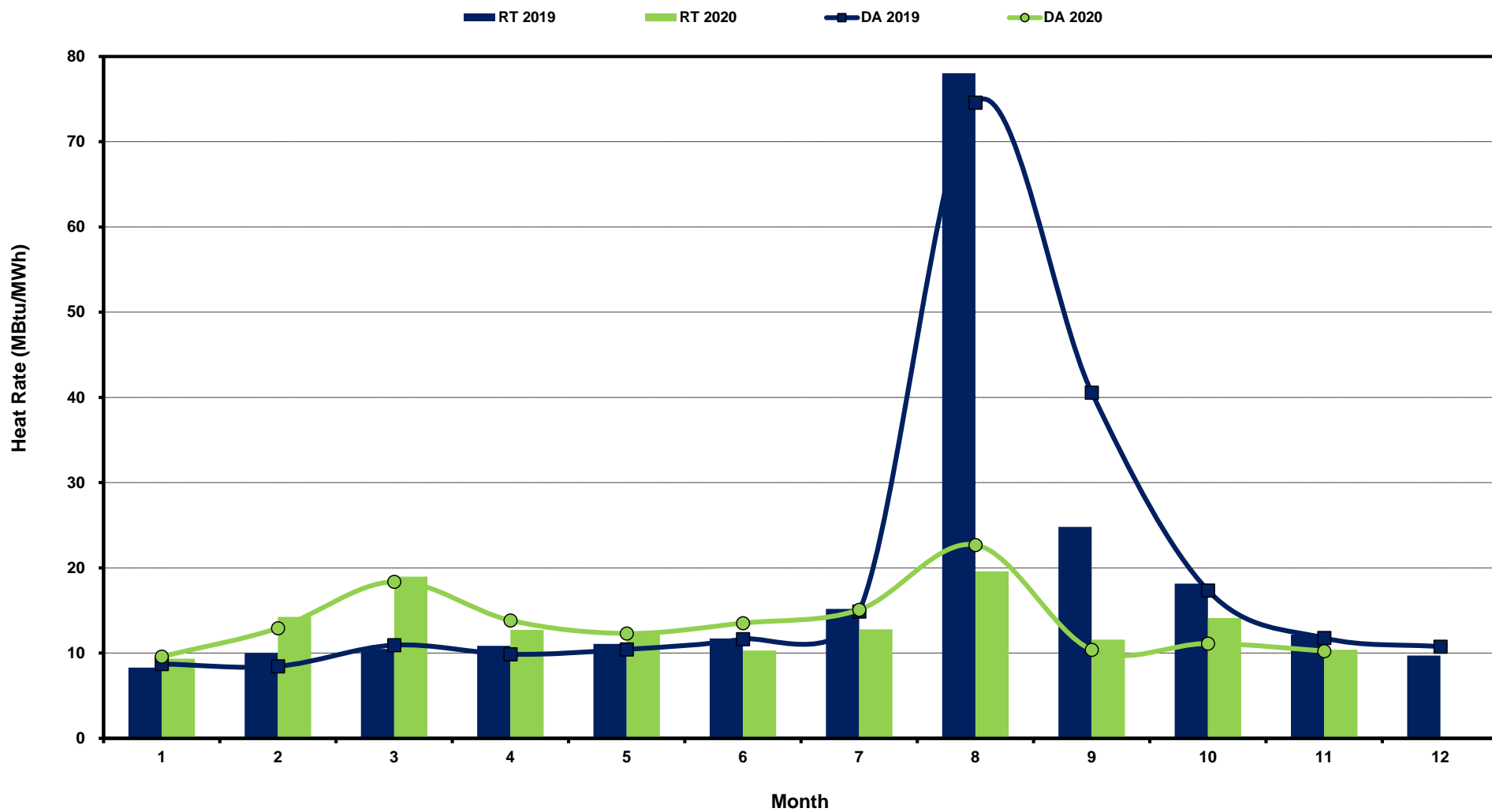
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

ERCOT-wide Monthly Implied Heat Rate DA vs RT

(avg. heat rates weighted by Real Time Settlement Loads)



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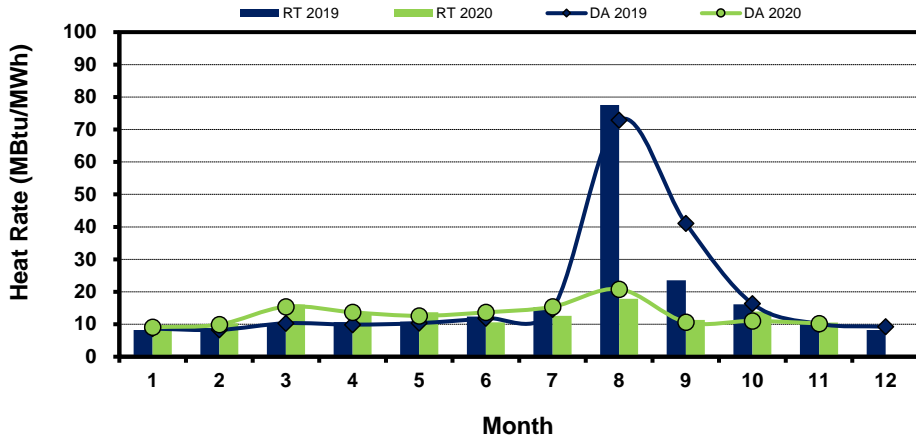
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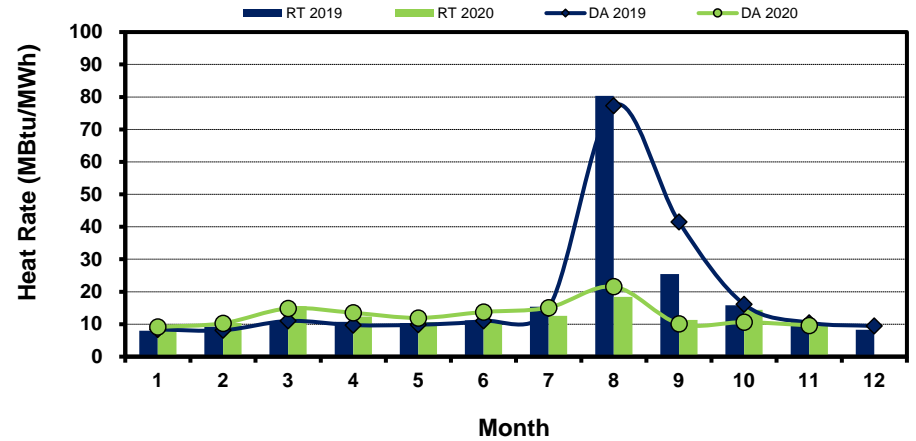
Load Zone Monthly Implied Heat Rate DA vs RT

(avg. heat rates weighted by Real Time Settlement Loads)
 (Nodal load zone made comparable to zonal system Load Zone definitions*)

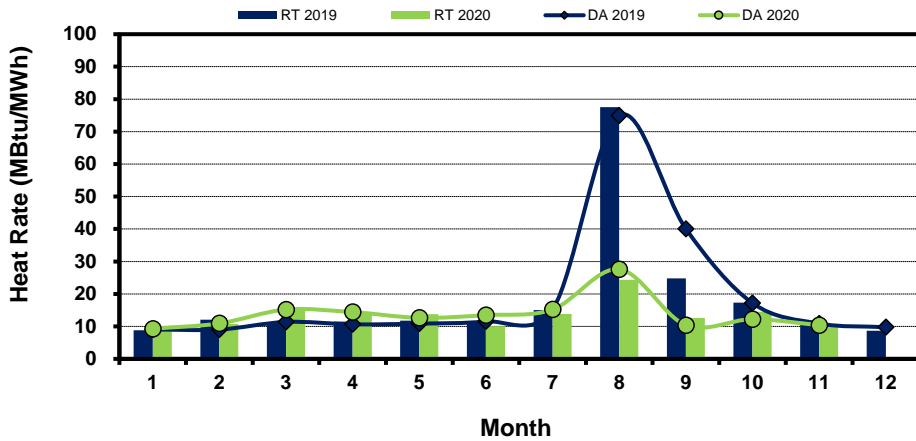
Houston Zone



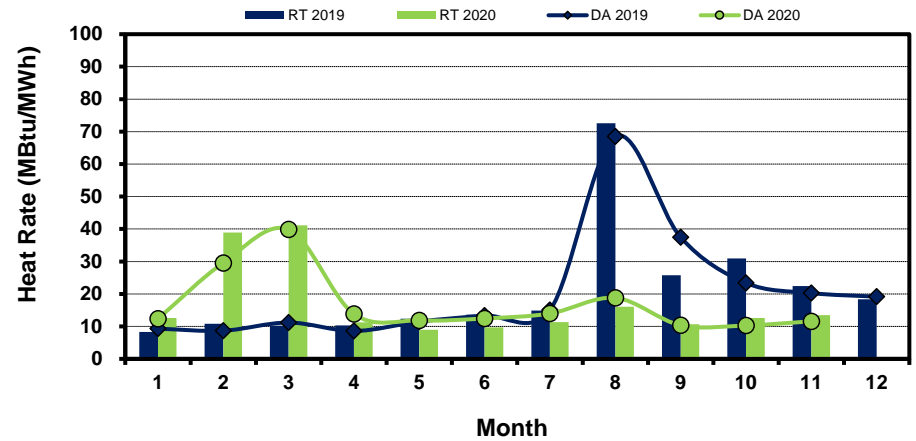
North Zone



South Zone



West Zone



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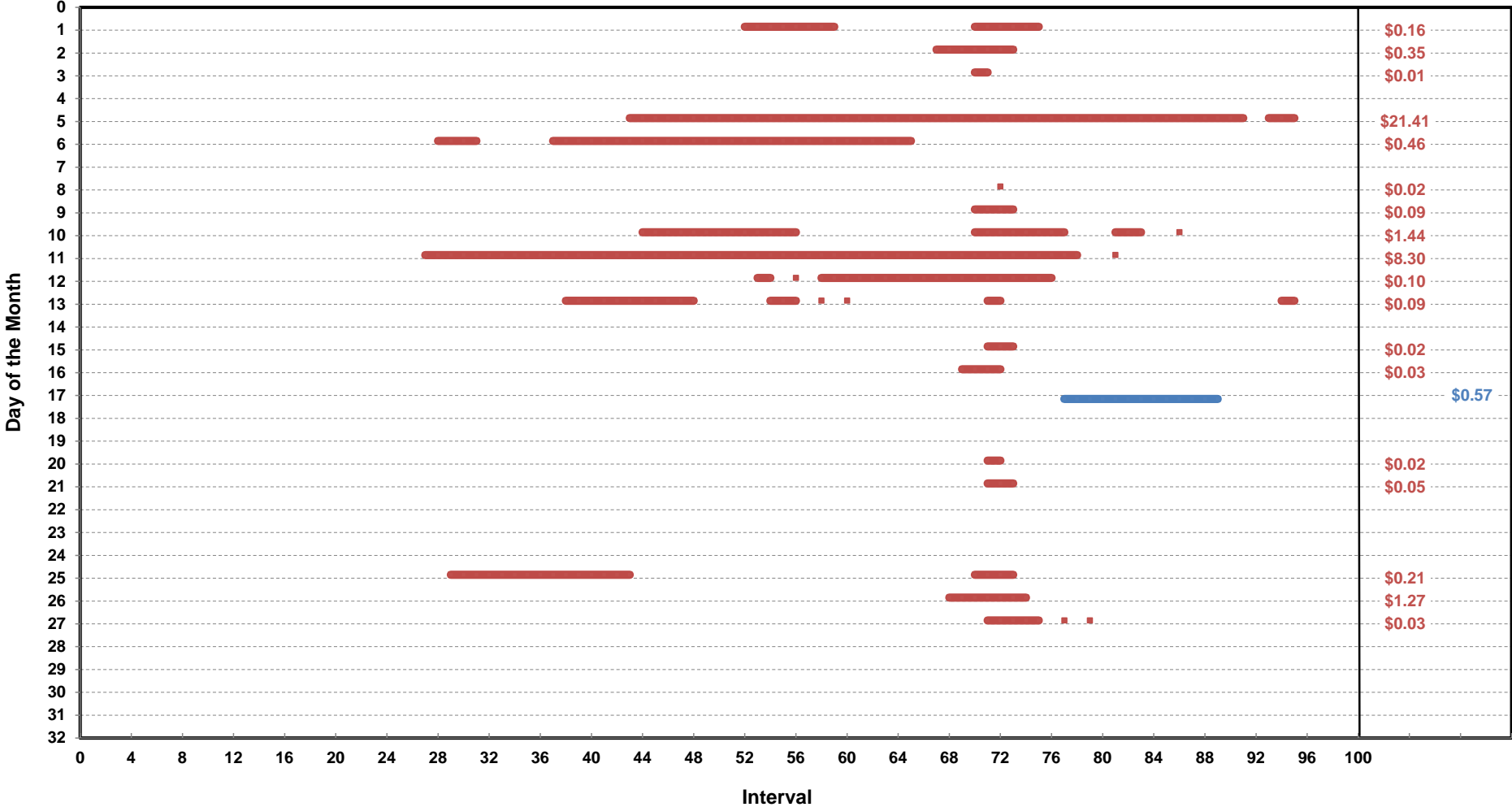
Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

Daily ORDC Adders Average Values and Interval Duration

Nov-2020

RDP Adder RS Adder

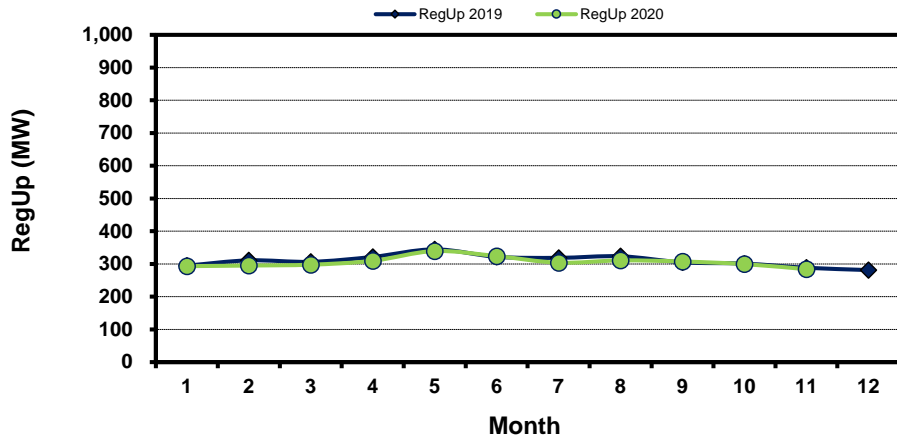
Daily Averages



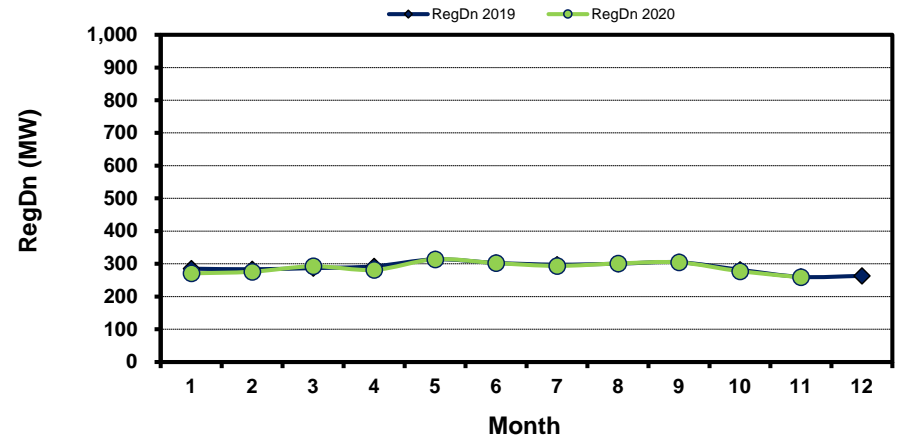
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Monthly Average of Ancillary Services Required MW

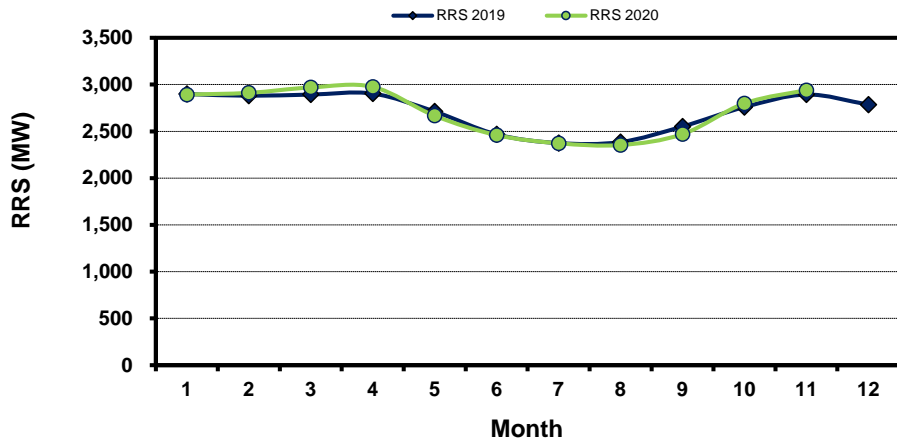
Regulation Up



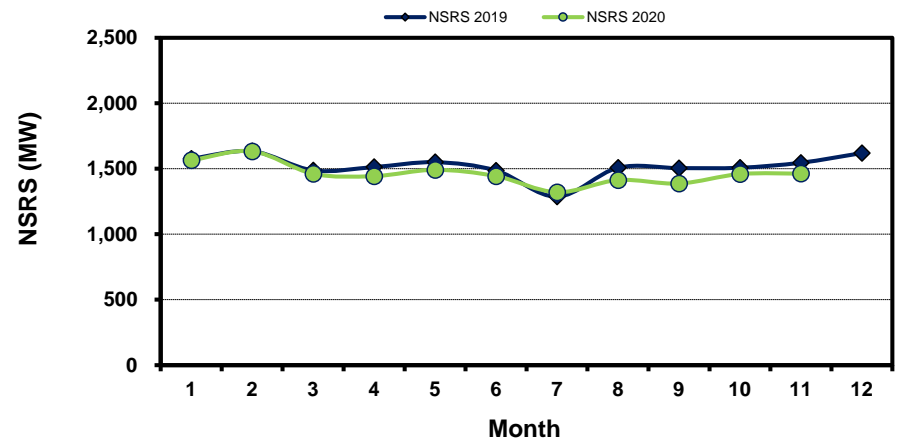
Regulation Down



Responsive Reserve



Non-Spin Reserve



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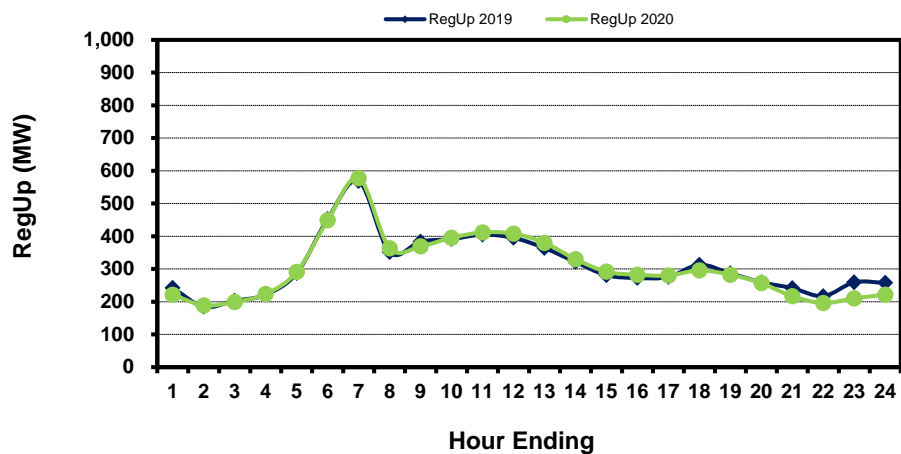
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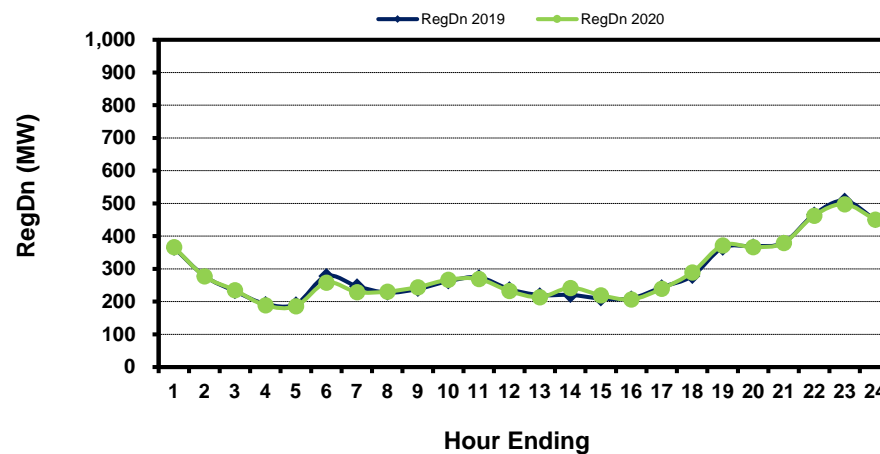
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Hourly Average of Ancillary Services Required MW

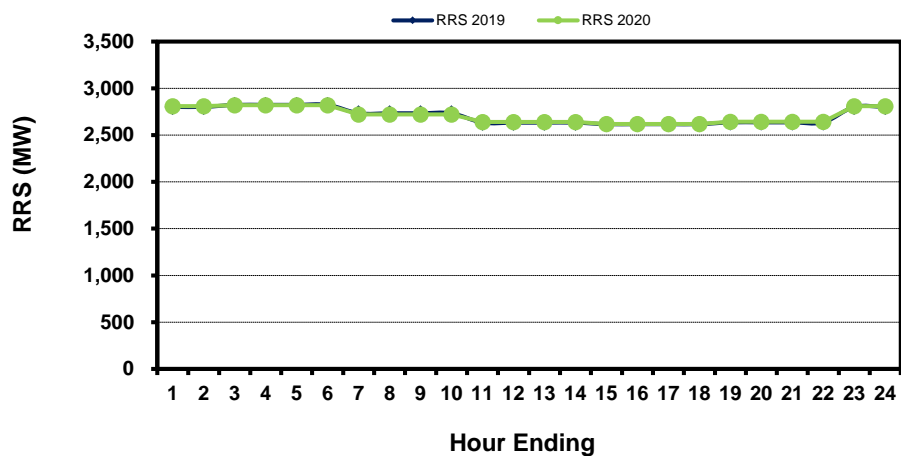
Regulation Up



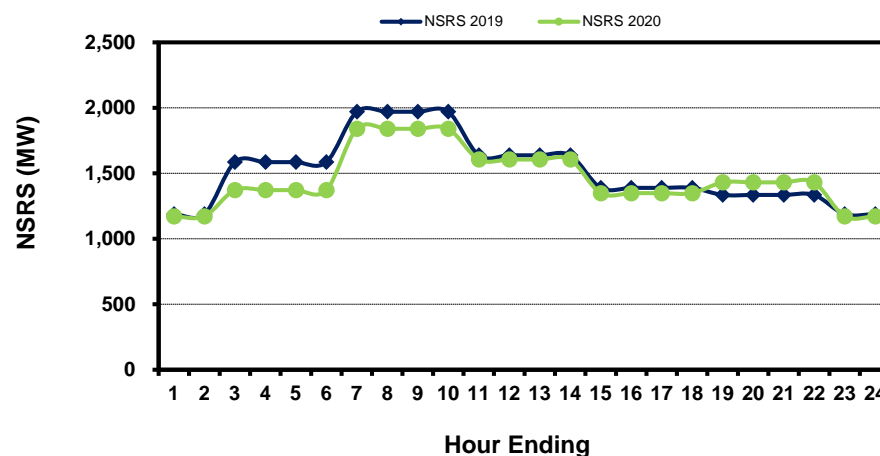
Regulation Down



Responsive Reserve



Non-Spin Reserve



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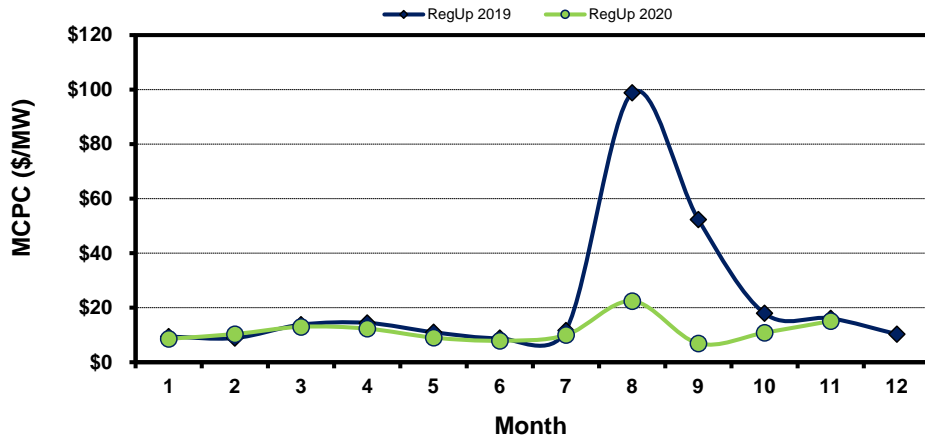
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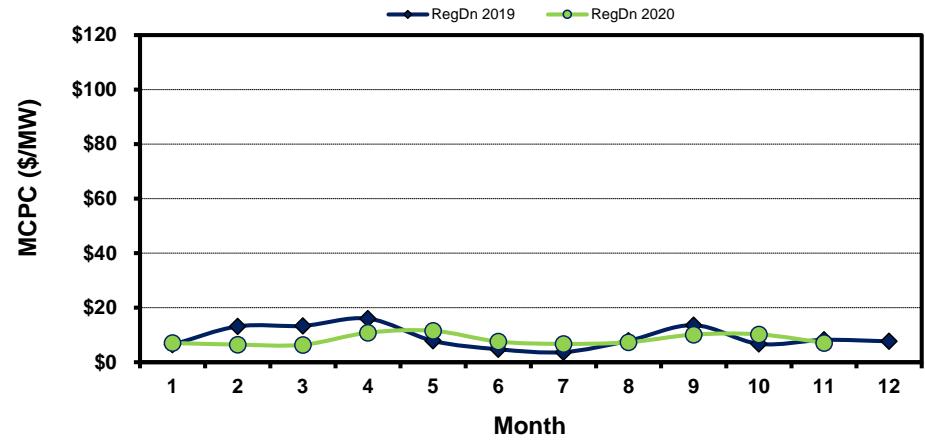
Monthly Average Ancillary Services Price

(weighted by A/S Quantities Required)

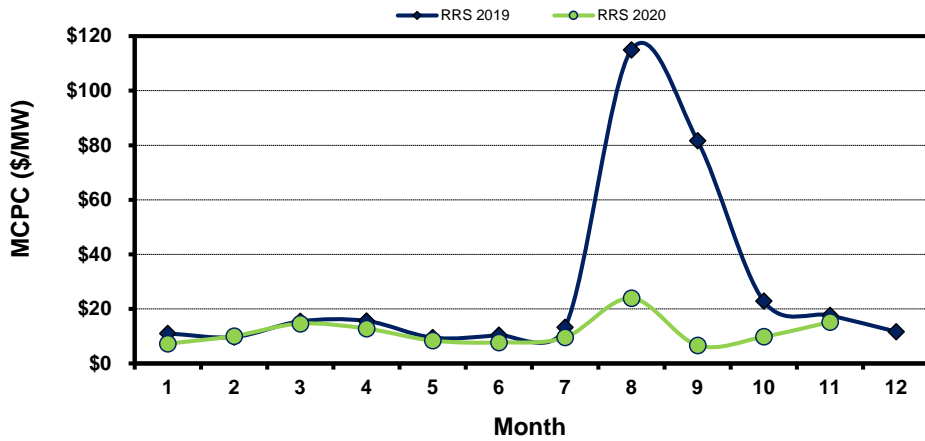
Regulation Up



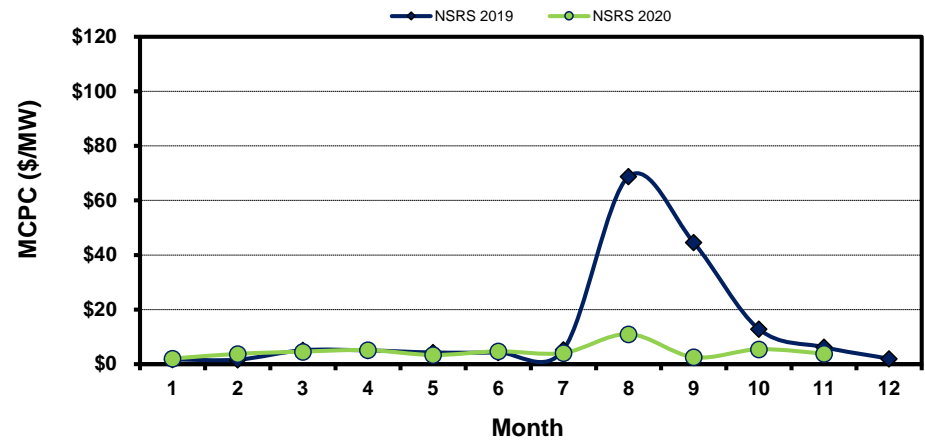
Regulation Down



Responsive Reserve



Non-Spin Reserve



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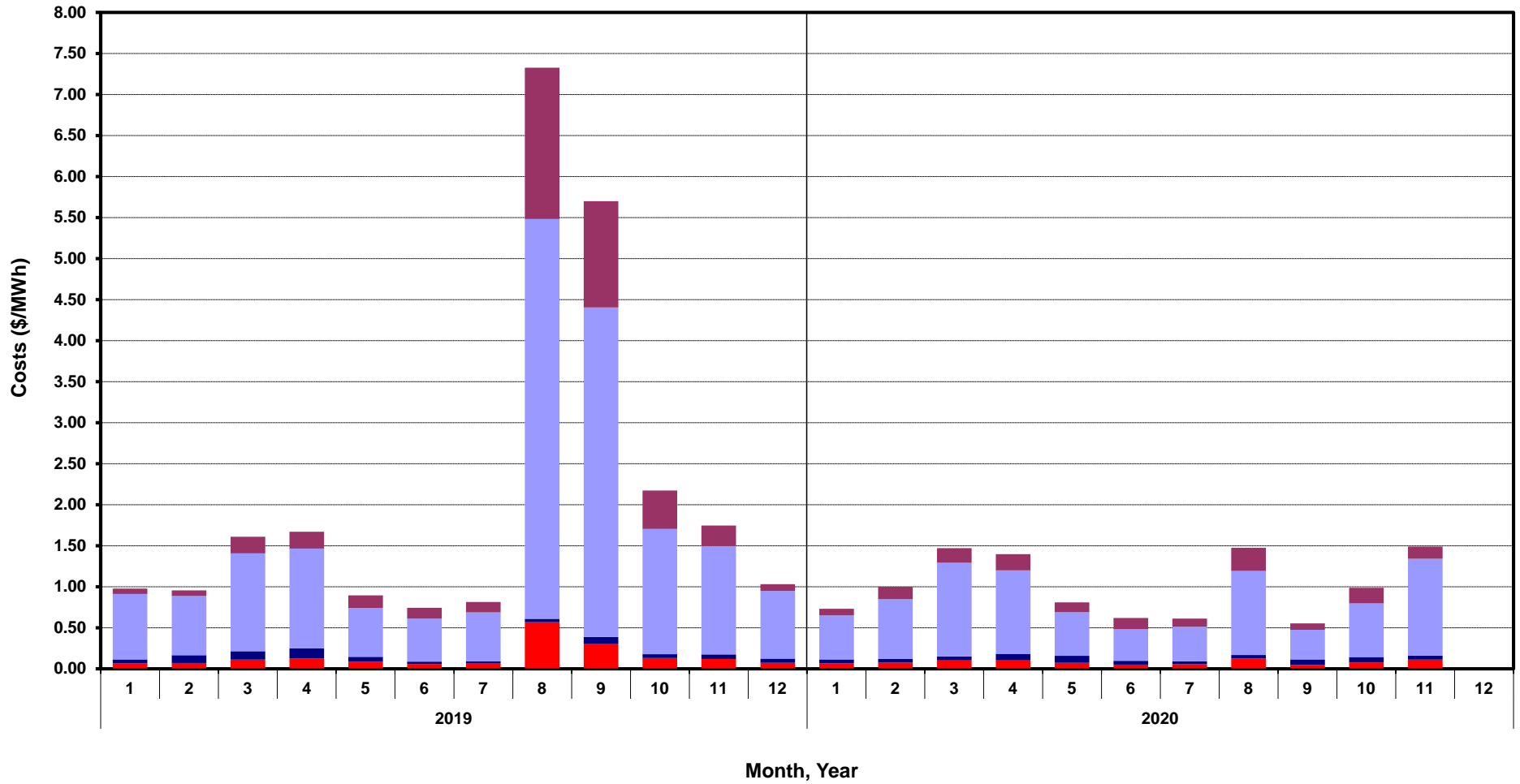
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Monthly Average A/S Cost per MWh Load

RegUp RegDn RRS NonSpin



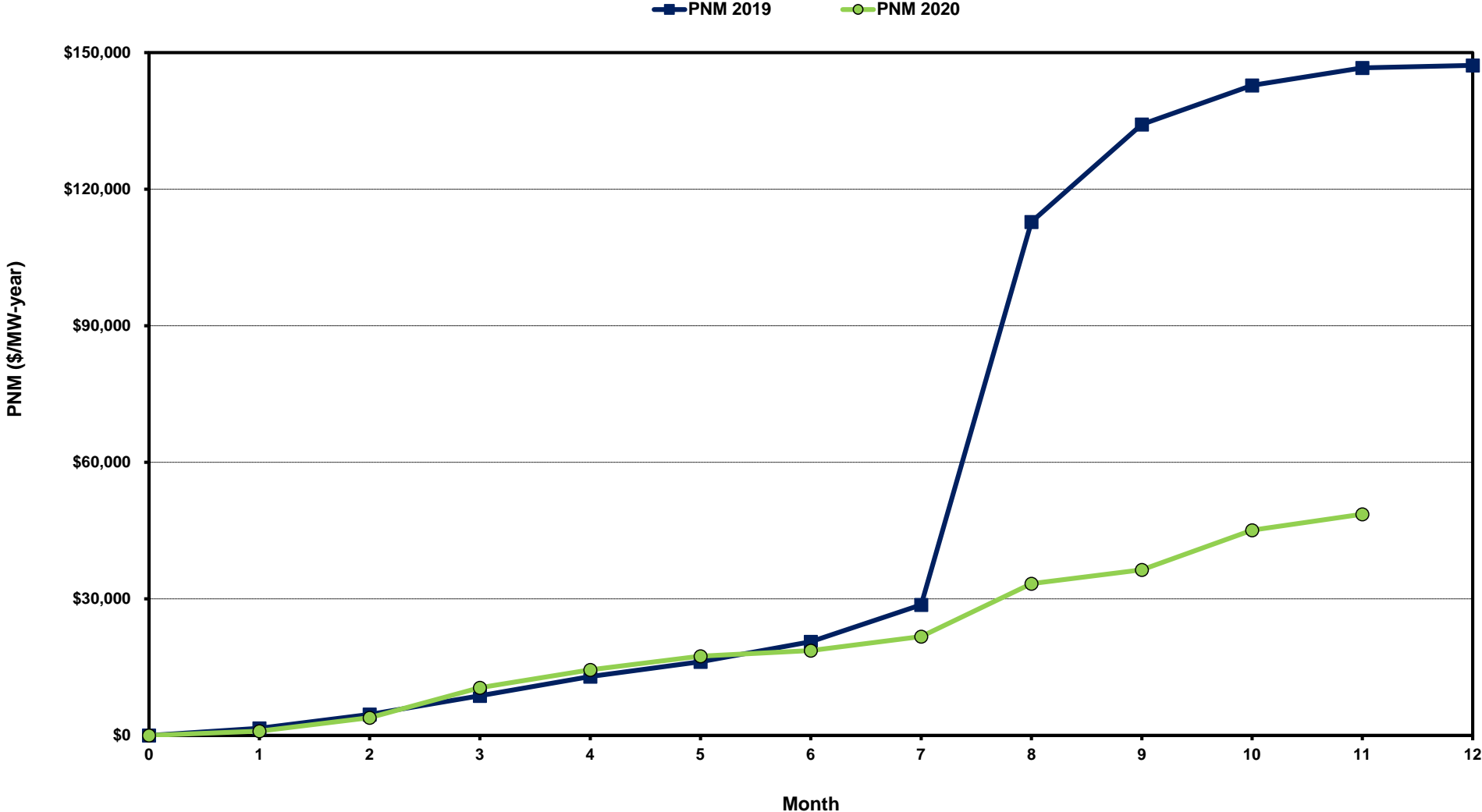
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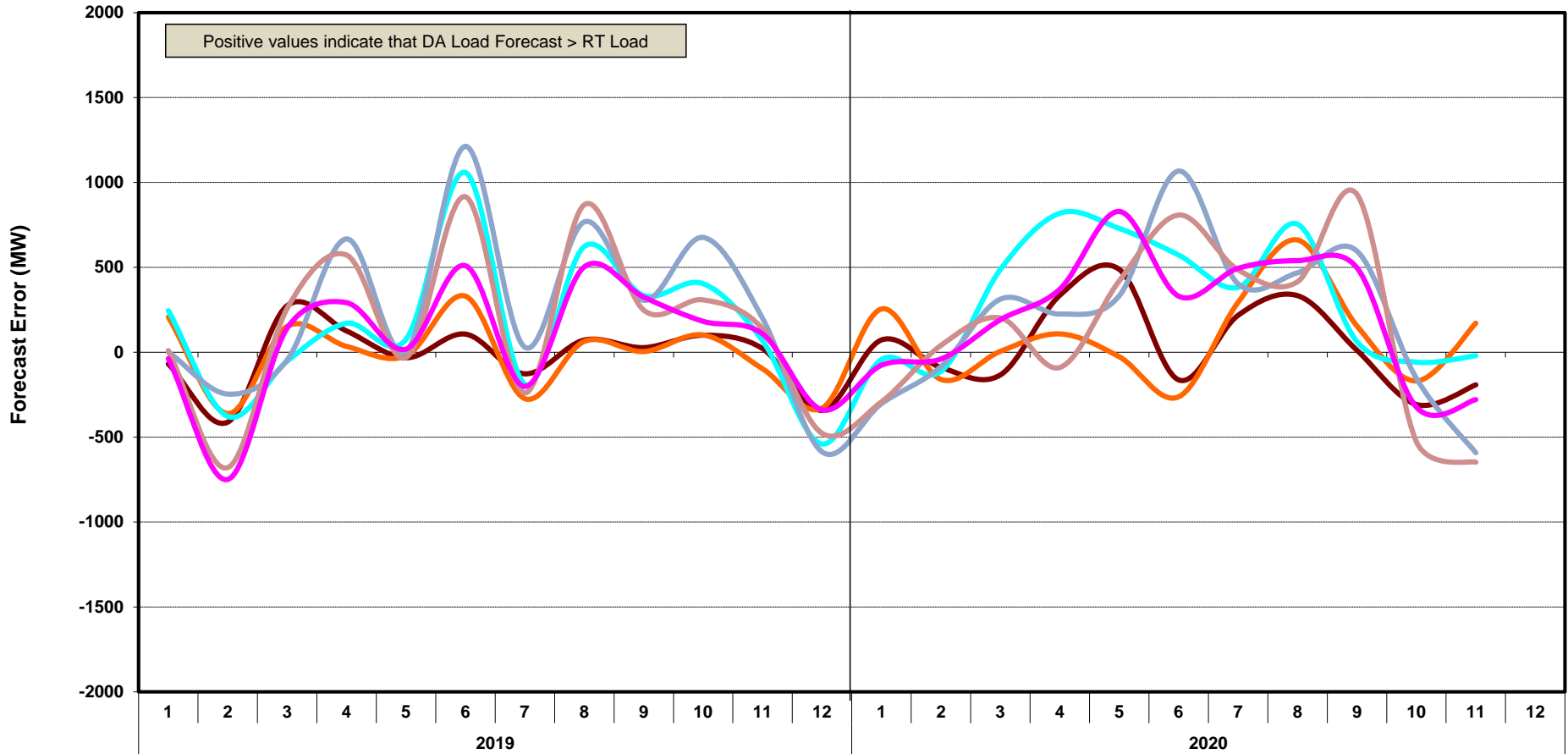
ERCOT-wide Cumulative Peaker Net Margin



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DA vs. RT Load Forecast Error by Hour Ending

HE_1_4 HE_5_8 HE_9_12 HE_13_16 HE_17_20 HE_21_24



Month, Year

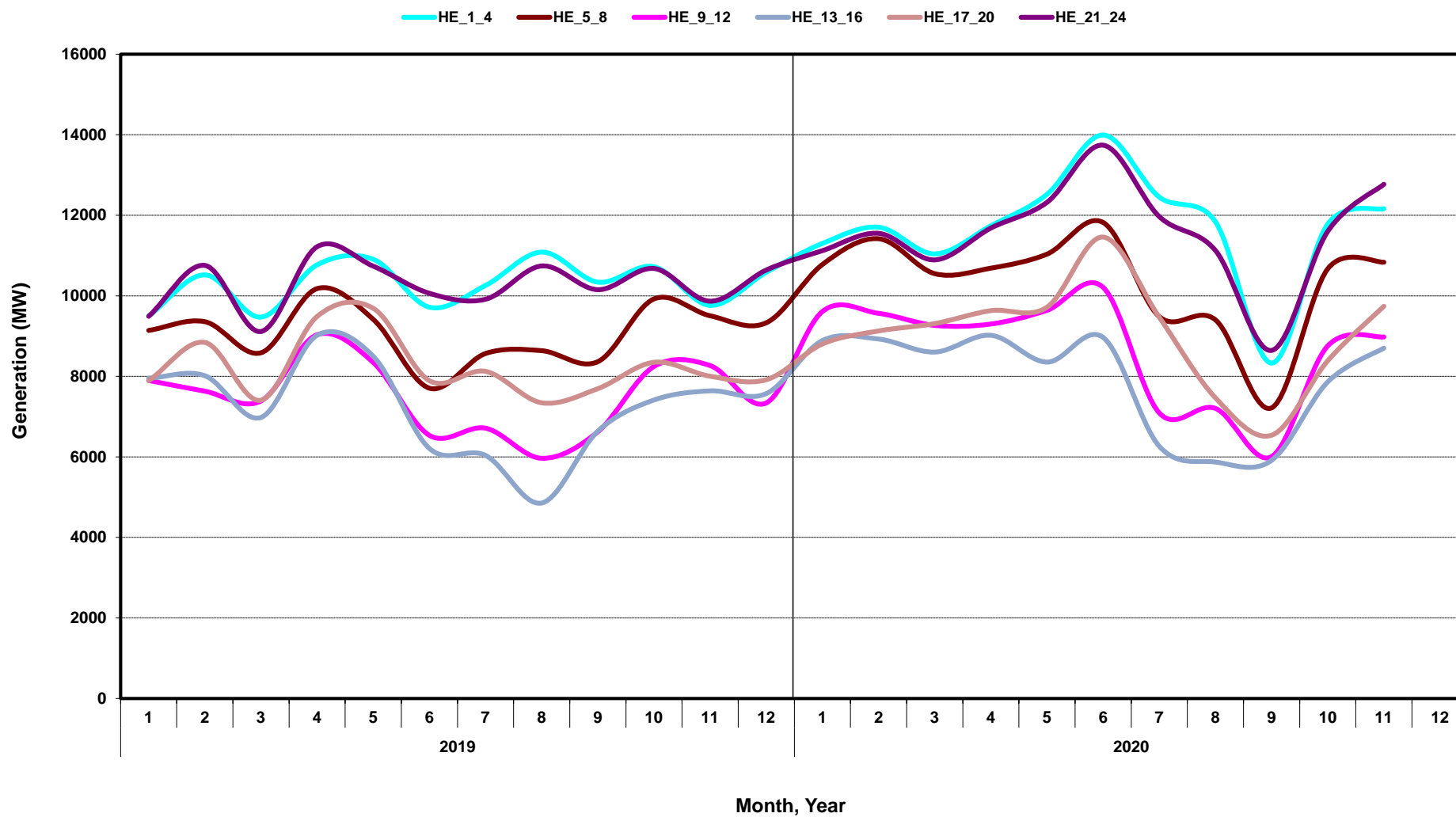
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Monthly Average of Wind Generation by Hour Ending



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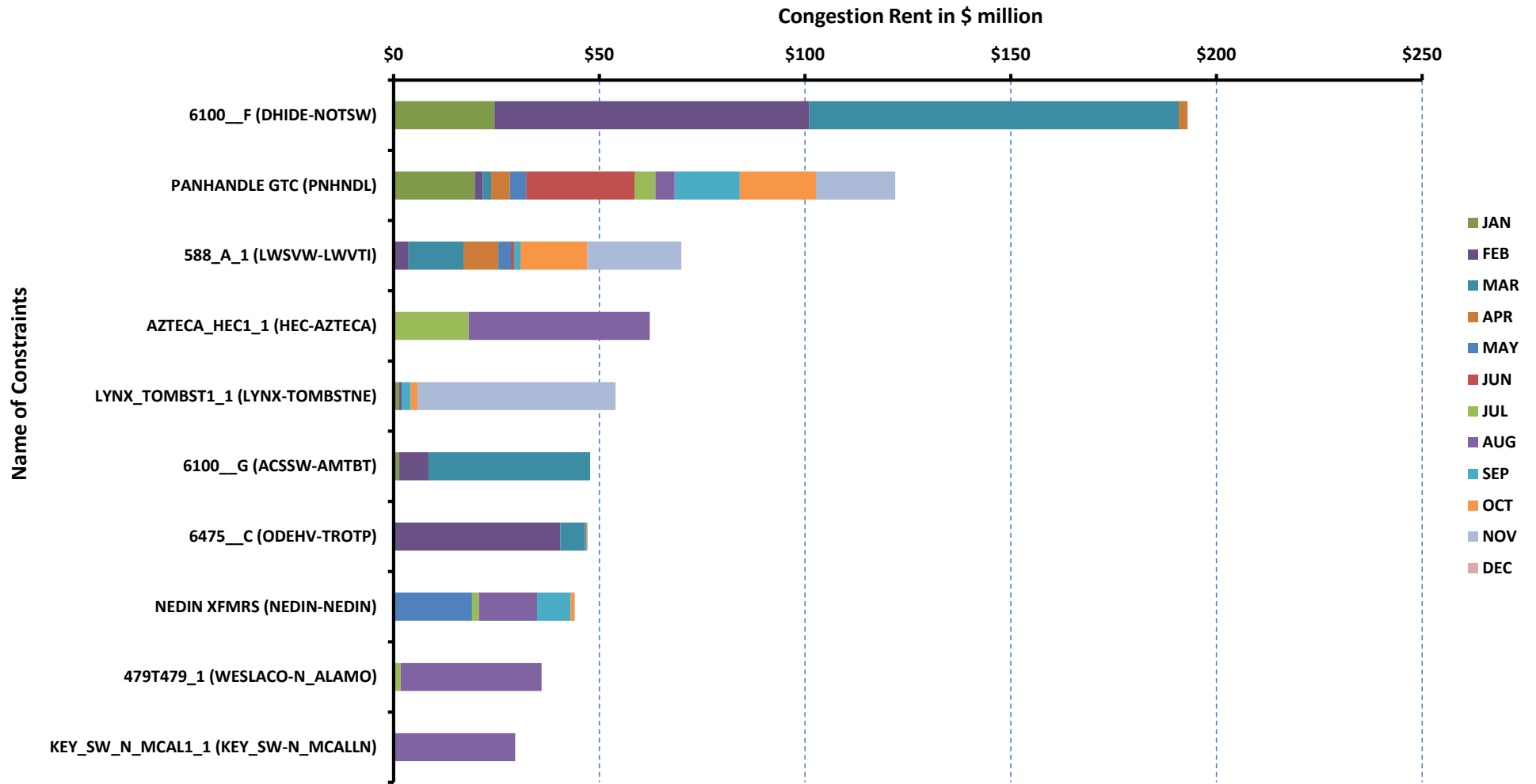
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RT Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Value - 2019



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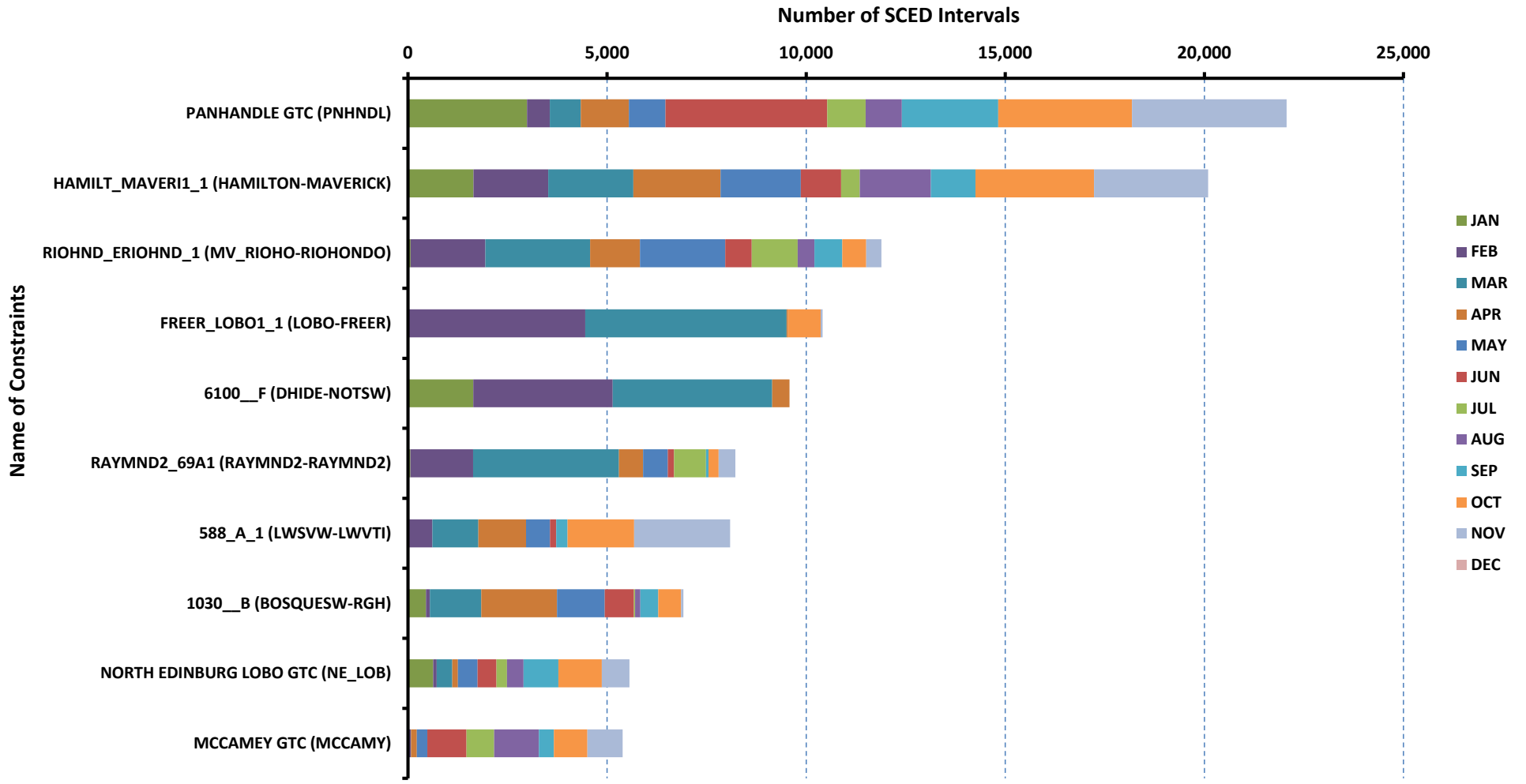
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RT Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency - 2019



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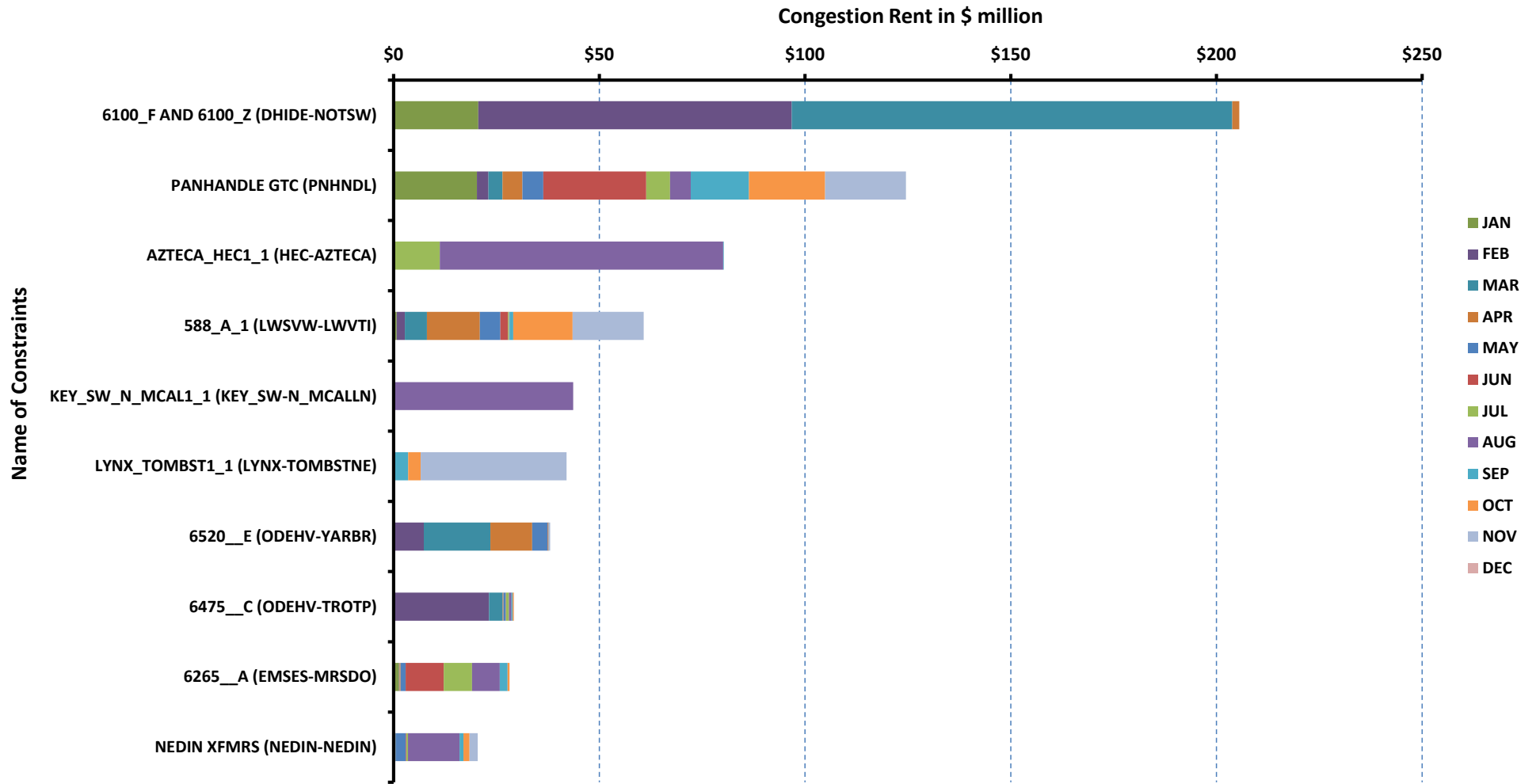
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DA Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Value - 2019



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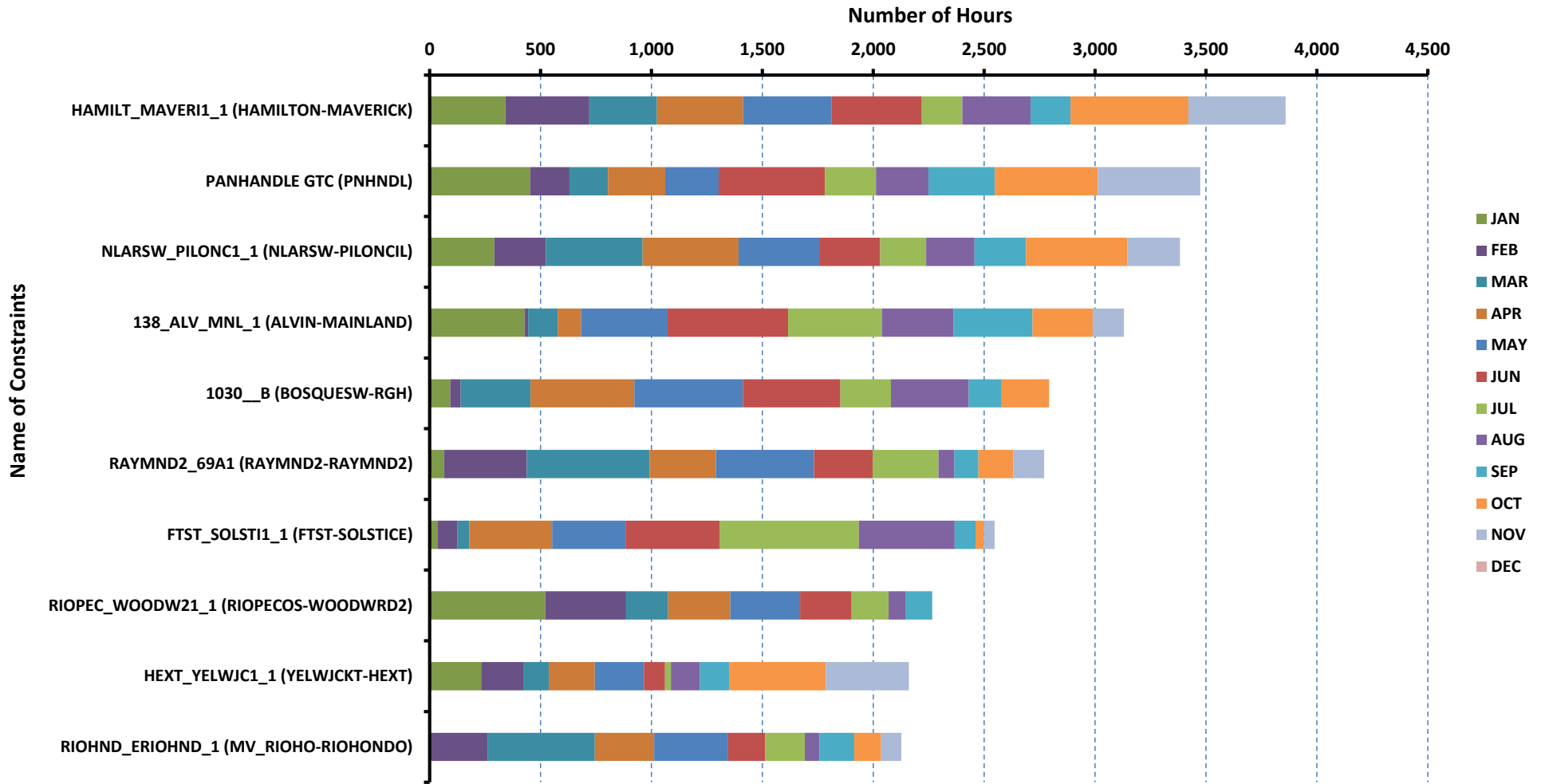
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DA Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency - 2019



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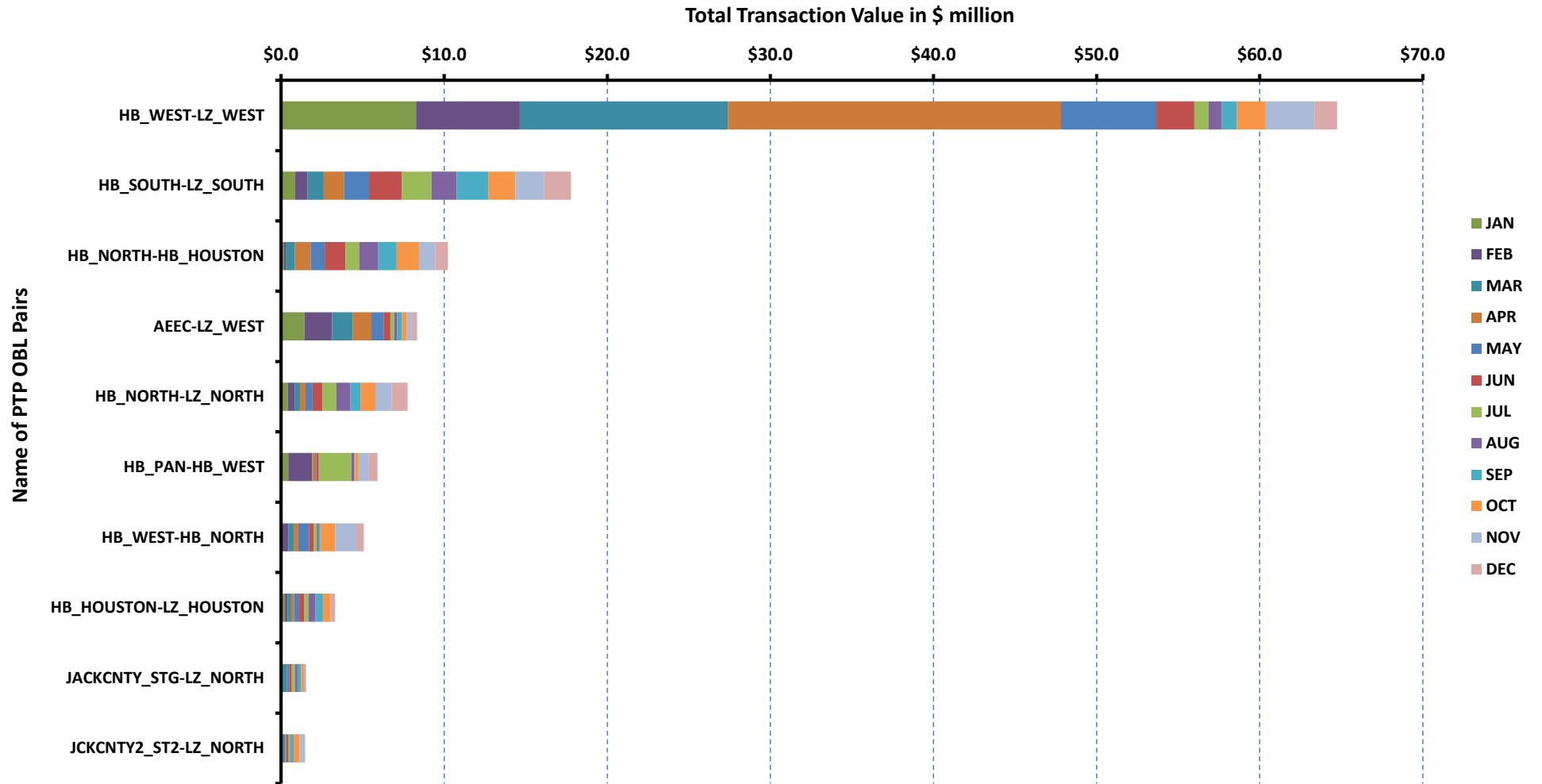
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 1

Top 10 PTP Obligations by Total Transaction Value - 2019



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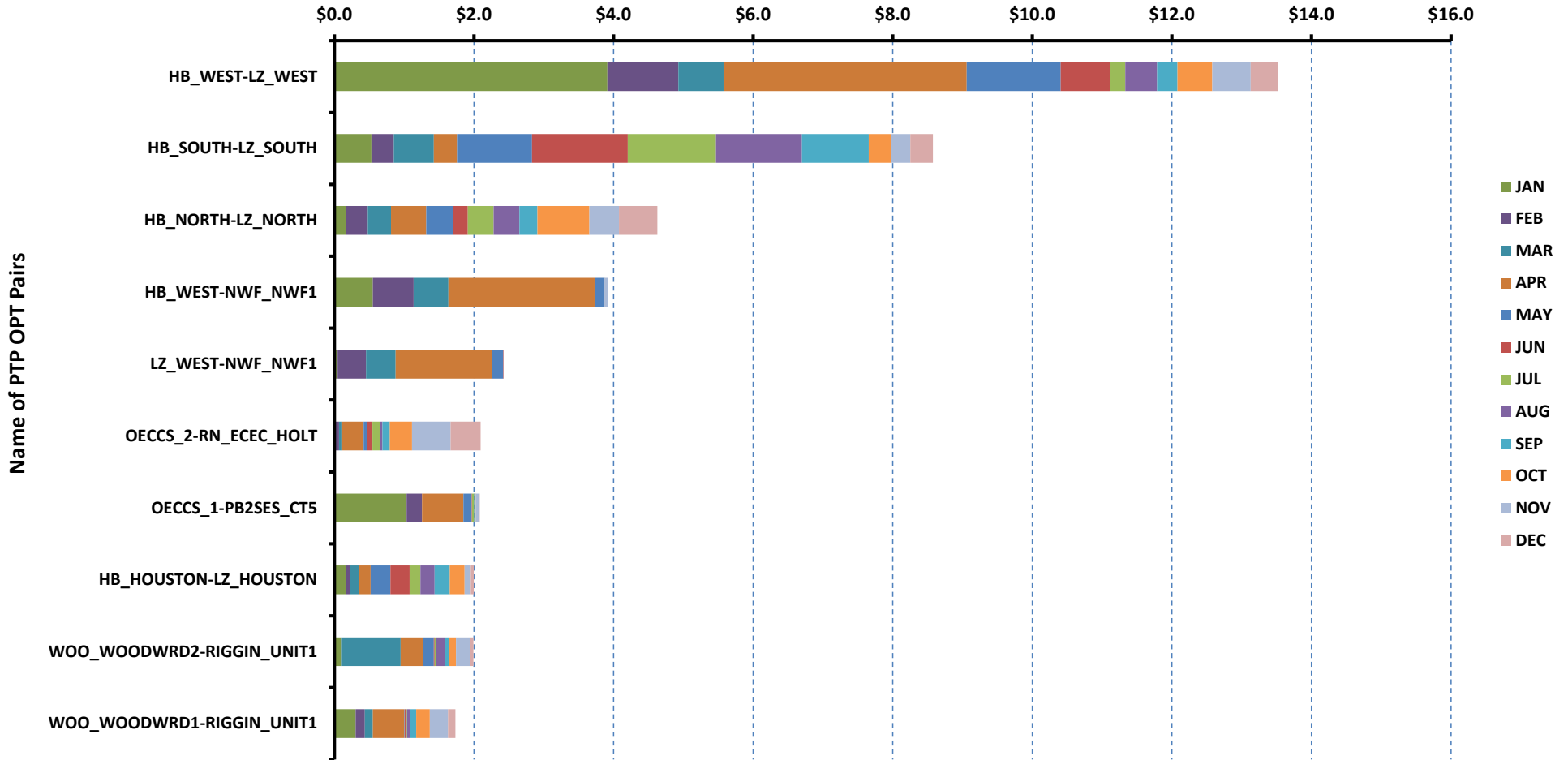
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 2

Top 10 PTP Options by Total Transaction Value - 2019

Total Transaction Value in \$ million



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| ERCOT-wide Avg. Energy Price - DA vs. RT | | | |
|--|-------|-----------|-----------|
| year | month | dam_spp | rtm_spp |
| 2019 | 1 | \$ 26.27 | \$ 24.96 |
| | 2 | \$ 22.55 | \$ 26.69 |
| | 3 | \$ 31.55 | \$ 30.25 |
| | 4 | \$ 25.38 | \$ 27.90 |
| | 5 | \$ 26.47 | \$ 28.08 |
| | 6 | \$ 28.65 | \$ 28.83 |
| | 7 | \$ 33.43 | \$ 34.10 |
| | 8 | \$ 156.78 | \$ 164.03 |
| | 9 | \$ 99.57 | \$ 60.87 |
| | 10 | \$ 38.07 | \$ 39.83 |
| | 11 | \$ 29.04 | \$ 30.02 |
| | 12 | \$ 22.40 | \$ 20.21 |
| 2020 | 1 | \$ 18.46 | \$ 17.97 |
| | 2 | \$ 23.69 | \$ 26.12 |
| | 3 | \$ 30.87 | \$ 31.87 |
| | 4 | \$ 22.89 | \$ 21.06 |
| | 5 | \$ 20.92 | \$ 20.72 |
| | 6 | \$ 21.18 | \$ 16.13 |
| | 7 | \$ 25.72 | \$ 21.79 |
| | 8 | \$ 50.64 | \$ 43.72 |
| | 9 | \$ 20.93 | \$ 23.32 |
| | 10 | \$ 27.11 | \$ 34.36 |
| | 11 | \$ 26.46 | \$ 26.85 |
| | 12 | \$ - | \$ - |

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| Load Zone Load Statistics | | | | | | | | | | |
|---------------------------|-------|------------------|----------------|----------------|---------------|-----------------|---------------|---------------|--------------|---|
| year | month | loadPEAK_Houston | loadPEAK_North | loadPEAK_South | loadPEAK_West | loadAVG_Houston | loadAVG_North | loadAVG_South | loadAVG_West | |
| 2019 | 1 | 13,254 | 21,938 | 15,626 | 5,577 | 9,787 | 15,227 | 10,361 | 4,720 | |
| | 2 | 12,967 | 22,880 | 15,171 | 5,483 | 9,754 | 14,467 | 9,950 | 4,662 | |
| | 3 | 13,805 | 24,563 | 17,622 | 5,730 | 9,761 | 13,291 | 9,834 | 4,557 | |
| | 4 | 14,684 | 17,895 | 14,450 | 5,377 | 10,377 | 12,468 | 9,820 | 4,558 | |
| | 5 | 17,622 | 21,976 | 17,107 | 5,732 | 12,243 | 14,355 | 11,704 | 4,763 | |
| | 6 | 18,952 | 25,751 | 18,994 | 6,356 | 13,805 | 16,680 | 13,212 | 5,146 | |
| | 7 | 19,012 | 27,177 | 19,420 | 6,515 | 14,322 | 18,820 | 14,159 | 5,446 | |
| | 8 | 20,293 | 28,632 | 20,438 | 6,798 | 14,852 | 20,332 | 15,348 | 5,742 | |
| | 9 | 18,622 | 26,186 | 18,933 | 6,400 | 13,485 | 18,926 | 14,002 | 5,440 | |
| | 10 | 17,118 | 24,745 | 18,162 | 6,119 | 11,040 | 13,934 | 11,252 | 5,028 | |
| | 11 | 12,925 | 23,153 | 15,777 | 6,124 | 9,876 | 13,473 | 10,132 | 5,099 | |
| | 12 | 13,117 | 21,255 | 16,291 | 6,013 | 10,108 | 13,944 | 10,141 | 5,220 | |
| 2020 | 1 | 12,102 | 19,145 | 13,311 | 5,996 | 9,945 | 14,023 | 9,781 | 5,288 | |
| | 2 | 12,763 | 22,127 | 15,953 | 6,150 | 10,077 | 14,586 | 10,236 | 5,351 | |
| | 3 | 15,886 | 17,173 | 14,820 | 5,684 | 10,786 | 12,298 | 9,908 | 4,982 | |
| | 4 | 15,909 | 19,521 | 16,210 | 5,750 | 10,385 | 12,167 | 10,063 | 4,840 | |
| | 5 | 17,827 | 23,337 | 18,047 | 5,895 | 11,875 | 13,891 | 11,624 | 4,655 | |
| | 6 | 18,953 | 25,649 | 19,077 | 6,499 | 13,396 | 17,667 | 12,981 | 5,303 | |
| | 7 | 19,539 | 28,373 | 20,240 | 6,826 | 14,210 | 19,614 | 14,630 | 5,734 | |
| | 8 | 19,736 | 28,800 | 20,440 | 6,808 | 14,571 | 19,781 | 14,783 | 5,766 | |
| | 9 | 19,780 | 23,834 | 19,348 | 6,517 | 13,146 | 15,129 | 12,099 | 5,164 | |
| | 10 | 17,923 | 22,165 | 17,325 | 6,027 | 11,952 | 13,645 | 11,396 | 5,027 | |
| | 11 | 14,915 | 18,651 | 13,486 | 5,544 | 10,709 | 12,472 | 9,908 | 4,808 | |
| | 12 | - | - | - | - | - | - | - | - | - |

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| Load Zone Monthly Average Energy Price - DA vs. RT | | | | | | | | | |
|--|-------|-----------------|---------------|---------------|--------------|-----------------|---------------|---------------|--------------|
| year | month | avgRTMp_Houston | avgRTMp_North | avgRTMp_South | avgRTMp_West | avgDAMp_Houston | avgDAMp_North | avgDAMp_South | avgDAMp_West |
| 2019 | 1 | \$ 24.67 | \$ 24.09 | \$ 26.47 | \$ 25.06 | \$ 26.05 | \$ 25.20 | \$ 27.25 | \$ 28.00 |
| | 2 | \$ 23.30 | \$ 24.58 | \$ 32.09 | \$ 28.80 | \$ 22.05 | \$ 21.64 | \$ 24.07 | \$ 23.14 |
| | 3 | \$ 29.20 | \$ 30.43 | \$ 31.39 | \$ 29.52 | \$ 29.73 | \$ 31.70 | \$ 32.83 | \$ 32.27 |
| | 4 | \$ 27.42 | \$ 27.57 | \$ 29.52 | \$ 26.42 | \$ 25.42 | \$ 24.98 | \$ 27.36 | \$ 22.09 |
| | 5 | \$ 27.41 | \$ 26.16 | \$ 29.80 | \$ 31.34 | \$ 26.23 | \$ 24.93 | \$ 27.53 | \$ 29.11 |
| | 6 | \$ 30.40 | \$ 27.47 | \$ 27.07 | \$ 33.54 | \$ 29.22 | \$ 27.10 | \$ 28.39 | \$ 32.83 |
| | 7 | \$ 34.10 | \$ 34.59 | \$ 33.73 | \$ 33.38 | \$ 32.78 | \$ 33.41 | \$ 34.02 | \$ 33.68 |
| | 8 | \$ 163.06 | \$ 168.80 | \$ 162.94 | \$ 152.57 | \$ 153.14 | \$ 162.52 | \$ 157.51 | \$ 143.92 |
| | 9 | \$ 57.84 | \$ 62.35 | \$ 60.89 | \$ 63.14 | \$ 100.80 | \$ 101.83 | \$ 98.31 | \$ 91.91 |
| | 10 | \$ 35.39 | \$ 34.74 | \$ 38.01 | \$ 67.77 | \$ 35.83 | \$ 35.38 | \$ 37.70 | \$ 51.30 |
| | 11 | \$ 25.32 | \$ 26.59 | \$ 26.44 | \$ 55.32 | \$ 24.92 | \$ 25.79 | \$ 26.85 | \$ 49.96 |
| | 12 | \$ 17.13 | \$ 17.24 | \$ 18.13 | \$ 38.16 | \$ 19.25 | \$ 19.67 | \$ 20.31 | \$ 39.89 |
| 2020 | 1 | \$ 16.65 | \$ 17.03 | \$ 17.27 | \$ 24.25 | \$ 17.48 | \$ 17.57 | \$ 17.87 | \$ 23.75 |
| | 2 | \$ 18.94 | \$ 18.97 | \$ 19.71 | \$ 71.42 | \$ 18.21 | \$ 18.85 | \$ 20.04 | \$ 54.21 |
| | 3 | \$ 27.03 | \$ 26.02 | \$ 25.72 | \$ 69.03 | \$ 25.88 | \$ 24.94 | \$ 25.51 | \$ 66.94 |
| | 4 | \$ 21.29 | \$ 20.43 | \$ 22.73 | \$ 18.66 | \$ 22.63 | \$ 22.34 | \$ 23.83 | \$ 22.87 |
| | 5 | \$ 23.27 | \$ 18.12 | \$ 23.42 | \$ 15.20 | \$ 21.41 | \$ 20.28 | \$ 21.50 | \$ 20.11 |
| | 6 | \$ 16.54 | \$ 16.37 | \$ 15.77 | \$ 15.14 | \$ 21.41 | \$ 21.56 | \$ 21.10 | \$ 19.49 |
| | 7 | \$ 21.44 | \$ 21.41 | \$ 23.61 | \$ 19.29 | \$ 26.21 | \$ 25.76 | \$ 25.93 | \$ 23.82 |
| | 8 | \$ 39.86 | \$ 41.02 | \$ 54.24 | \$ 35.80 | \$ 46.45 | \$ 48.11 | \$ 61.57 | \$ 41.90 |
| | 9 | \$ 22.80 | \$ 22.72 | \$ 25.43 | \$ 21.43 | \$ 21.48 | \$ 20.45 | \$ 20.95 | \$ 20.85 |
| | 10 | \$ 33.94 | \$ 35.21 | \$ 35.43 | \$ 30.61 | \$ 26.86 | \$ 25.86 | \$ 29.78 | \$ 25.07 |
| | 11 | \$ 27.14 | \$ 24.79 | \$ 25.29 | \$ 34.79 | \$ 26.48 | \$ 24.88 | \$ 26.77 | \$ 29.88 |
| | 12 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

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| ERCOT-wide Monthly Implied Heat Rate - DA vs. RT | | | | | | |
|--|-------|----------|-----------|--------|-----------|--------|
| year | month | gasprice | rtn_spp | HR_rtn | dam_spp | HR_dam |
| 2019 | 1 | \$ 3.01 | \$ 24.96 | 8.29 | \$ 26.27 | 8.73 |
| | 2 | \$ 2.67 | \$ 26.69 | 10.01 | \$ 22.55 | 8.46 |
| | 3 | \$ 2.88 | \$ 30.25 | 10.49 | \$ 31.55 | 10.94 |
| | 4 | \$ 2.57 | \$ 27.90 | 10.85 | \$ 25.38 | 9.87 |
| | 5 | \$ 2.54 | \$ 28.08 | 11.07 | \$ 26.47 | 10.44 |
| | 6 | \$ 2.46 | \$ 28.83 | 11.72 | \$ 28.65 | 11.65 |
| | 7 | \$ 2.25 | \$ 34.10 | 15.18 | \$ 33.43 | 14.89 |
| | 8 | \$ 2.10 | \$ 164.03 | 78.04 | \$ 156.78 | 74.59 |
| | 9 | \$ 2.45 | \$ 60.87 | 24.81 | \$ 99.57 | 40.58 |
| | 10 | \$ 2.19 | \$ 39.83 | 18.16 | \$ 38.07 | 17.36 |
| | 11 | \$ 2.47 | \$ 30.02 | 12.18 | \$ 29.04 | 11.78 |
| | 12 | \$ 2.08 | \$ 20.21 | 9.70 | \$ 22.40 | 10.76 |
| 2020 | 1 | \$ 1.92 | \$ 17.97 | 9.34 | \$ 18.46 | 9.59 |
| | 2 | \$ 1.83 | \$ 26.12 | 14.25 | \$ 23.69 | 12.92 |
| | 3 | \$ 1.68 | \$ 31.87 | 18.98 | \$ 30.87 | 18.38 |
| | 4 | \$ 1.65 | \$ 21.06 | 12.73 | \$ 22.89 | 13.84 |
| | 5 | \$ 1.70 | \$ 20.72 | 12.19 | \$ 20.92 | 12.31 |
| | 6 | \$ 1.57 | \$ 16.13 | 10.30 | \$ 21.18 | 13.52 |
| | 7 | \$ 1.70 | \$ 21.79 | 12.78 | \$ 25.72 | 15.09 |
| | 8 | \$ 2.23 | \$ 43.72 | 19.60 | \$ 50.64 | 22.70 |
| | 9 | \$ 2.01 | \$ 23.32 | 11.58 | \$ 20.93 | 10.39 |
| | 10 | \$ 2.44 | \$ 34.36 | 14.10 | \$ 27.11 | 11.13 |
| | 11 | \$ 2.58 | \$ 26.85 | 10.40 | \$ 26.46 | 10.25 |
| | 12 | \$ - | \$ - | - | \$ - | - |

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| Load Zone Monthly Implied Heat Rate - DA vs. RT | | | | | | | | | |
|---|-------|---------------|-------------|-------------|------------|---------------|-------------|-------------|------------|
| year | month | HRdam_Houston | HRdam_South | HRdam_North | HRdam_West | HRrtm_Houston | HRrtm_South | HRrtm_North | HRrtm_West |
| 2019 | 1 | 8.65 | 9.05 | 8.37 | 9.30 | 8.19 | 8.79 | 8.00 | 8.32 |
| | 2 | 8.27 | 9.03 | 8.12 | 8.68 | 8.74 | 12.04 | 9.22 | 10.80 |
| | 3 | 10.31 | 11.38 | 10.99 | 11.19 | 10.12 | 10.88 | 10.55 | 10.23 |
| | 4 | 9.88 | 10.64 | 9.71 | 8.59 | 10.66 | 11.48 | 10.72 | 10.27 |
| | 5 | 10.35 | 10.86 | 9.83 | 11.48 | 10.81 | 11.75 | 10.32 | 12.36 |
| | 6 | 11.88 | 11.55 | 11.02 | 13.35 | 12.36 | 11.01 | 11.17 | 13.64 |
| | 7 | 14.60 | 15.15 | 14.88 | 14.99 | 15.18 | 15.02 | 15.40 | 14.86 |
| | 8 | 72.86 | 74.94 | 77.32 | 68.47 | 77.57 | 77.52 | 80.31 | 72.58 |
| | 9 | 41.08 | 40.07 | 41.50 | 37.46 | 23.57 | 24.82 | 25.41 | 25.73 |
| | 10 | 16.33 | 17.18 | 16.13 | 23.39 | 16.13 | 17.33 | 15.84 | 30.90 |
| | 11 | 10.11 | 10.89 | 10.46 | 20.26 | 10.27 | 10.72 | 10.78 | 22.44 |
| | 12 | 9.24 | 9.75 | 9.44 | 19.15 | 8.23 | 8.70 | 8.28 | 18.32 |
| 2020 | 1 | 9.08 | 9.29 | 9.13 | 12.34 | 8.65 | 8.98 | 8.85 | 12.60 |
| | 2 | 9.93 | 10.93 | 10.28 | 29.56 | 10.33 | 10.75 | 10.35 | 38.95 |
| | 3 | 15.41 | 15.19 | 14.85 | 39.87 | 16.10 | 15.32 | 15.49 | 41.11 |
| | 4 | 13.68 | 14.40 | 13.50 | 13.83 | 12.87 | 13.74 | 12.35 | 11.28 |
| | 5 | 12.59 | 12.65 | 11.93 | 11.83 | 13.69 | 13.78 | 10.66 | 8.94 |
| | 6 | 13.67 | 13.47 | 13.77 | 12.45 | 10.56 | 10.07 | 10.45 | 9.67 |
| | 7 | 15.38 | 15.21 | 15.11 | 13.98 | 12.58 | 13.85 | 12.56 | 11.32 |
| | 8 | 20.82 | 27.60 | 21.56 | 18.78 | 17.86 | 24.31 | 18.39 | 16.04 |
| | 9 | 10.66 | 10.40 | 10.16 | 10.35 | 11.32 | 12.62 | 11.28 | 10.64 |
| | 10 | 11.02 | 12.22 | 10.62 | 10.29 | 13.93 | 14.54 | 14.46 | 12.57 |
| | 11 | 10.25 | 10.37 | 9.63 | 11.57 | 10.51 | 9.79 | 9.60 | 13.47 |
| | 12 | - | - | - | - | - | - | - | - |

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| Daily ORDC Adders Average Values and Interval Duration | | | | | | | | |
|--|-------|-----|----------|-----------|--------|---------|--------|---------|
| YEAR | MONTH | DAY | PRICE_RS | PRICE_RDP | RS_CNT | RDP_CNT | RS_POS | RDP_POS |
| 2020 | 11 | 1 | \$ 0.16 | \$ - | 14 | 0 | 80 | 90 |
| 2020 | 11 | 2 | \$ 0.35 | \$ - | 7 | 0 | 80 | 90 |
| 2020 | 11 | 3 | \$ 0.01 | \$ - | 2 | 0 | 80 | 90 |
| 2020 | 11 | 4 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 5 | \$ 21.41 | \$ - | 52 | 0 | 80 | 90 |
| 2020 | 11 | 6 | \$ 0.46 | \$ - | 33 | 0 | 80 | 90 |
| 2020 | 11 | 7 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 8 | \$ 0.02 | \$ - | 1 | 0 | 80 | 90 |
| 2020 | 11 | 9 | \$ 0.09 | \$ - | 4 | 0 | 80 | 90 |
| 2020 | 11 | 10 | \$ 1.44 | \$ - | 25 | 0 | 80 | 90 |
| 2020 | 11 | 11 | \$ 8.30 | \$ - | 53 | 0 | 80 | 90 |
| 2020 | 11 | 12 | \$ 0.10 | \$ - | 22 | 0 | 80 | 90 |
| 2020 | 11 | 13 | \$ 0.09 | \$ - | 20 | 0 | 80 | 90 |
| 2020 | 11 | 14 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 15 | \$ 0.02 | \$ - | 3 | 0 | 80 | 90 |
| 2020 | 11 | 16 | \$ 0.03 | \$ - | 4 | 0 | 80 | 90 |
| 2020 | 11 | 17 | \$ - | \$ 0.57 | 0 | 13 | 80 | 90 |
| 2020 | 11 | 18 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 19 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 20 | \$ 0.02 | \$ - | 2 | 0 | 80 | 90 |
| 2020 | 11 | 21 | \$ 0.05 | \$ - | 3 | 0 | 80 | 90 |
| 2020 | 11 | 22 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 23 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 24 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 25 | \$ 0.21 | \$ - | 19 | 0 | 80 | 90 |
| 2020 | 11 | 26 | \$ 1.27 | \$ - | 7 | 0 | 80 | 90 |
| 2020 | 11 | 27 | \$ 0.03 | \$ - | 7 | 0 | 80 | 90 |
| 2020 | 11 | 28 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 29 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 11 | 30 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 0 | 0 | 0 | \$ - | \$ - | 0 | 0 | 0 | 0 |

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| Monthly Average of Ancillary Services Required MW | | | | | |
|---|-------|------------|------------|----------|------------|
| year | month | ASMW_REGDN | ASMW_NSPIN | ASMW_RRS | ASMW_REGUP |
| 2019 | 1 | 285 | 1,578 | 2,898 | 295 |
| | 2 | 283 | 1,634 | 2,881 | 311 |
| | 3 | 287 | 1,487 | 2,893 | 306 |
| | 4 | 292 | 1,513 | 2,904 | 321 |
| | 5 | 314 | 1,550 | 2,712 | 345 |
| | 6 | 303 | 1,486 | 2,467 | 322 |
| | 7 | 298 | 1,287 | 2,374 | 319 |
| | 8 | 300 | 1,507 | 2,386 | 323 |
| | 9 | 305 | 1,505 | 2,552 | 305 |
| | 10 | 282 | 1,508 | 2,759 | 301 |
| | 11 | 260 | 1,546 | 2,893 | 288 |
| | 12 | 263 | 1,620 | 2,786 | 281 |
| 2020 | 1 | 271 | 1,565 | 2,893 | 293 |
| | 2 | 276 | 1,633 | 2,911 | 295 |
| | 3 | 293 | 1,462 | 2,969 | 298 |
| | 4 | 282 | 1,444 | 2,976 | 310 |
| | 5 | 314 | 1,492 | 2,667 | 339 |
| | 6 | 302 | 1,444 | 2,460 | 324 |
| | 7 | 294 | 1,321 | 2,373 | 304 |
| | 8 | 301 | 1,414 | 2,354 | 311 |
| | 9 | 304 | 1,387 | 2,470 | 307 |
| | 10 | 277 | 1,460 | 2,799 | 300 |
| | 11 | 259 | 1,463 | 2,939 | 284 |
| | 12 | - | - | - | - |

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| Hourly Average of Ancillary Services Required MW | | | | | |
|--|---------------|------------|------------|----------|------------|
| year | DELIVERY_HOUR | ASMW_REGDN | ASMW_NSPIN | ASMW_RRS | ASMW_REGUP |
| 2019 | 1 | 365 | 1,188 | 2,802 | 242 |
| | 2 | 278 | 1,188 | 2,802 | 185 |
| | 3 | 232 | 1,586 | 2,823 | 202 |
| | 4 | 193 | 1,585 | 2,823 | 222 |
| | 5 | 192 | 1,585 | 2,823 | 287 |
| | 6 | 278 | 1,585 | 2,823 | 453 |
| | 7 | 247 | 1,970 | 2,733 | 569 |
| | 8 | 227 | 1,970 | 2,733 | 351 |
| | 9 | 239 | 1,970 | 2,733 | 384 |
| | 10 | 262 | 1,970 | 2,733 | 391 |
| | 11 | 274 | 1,638 | 2,633 | 405 |
| | 12 | 238 | 1,638 | 2,633 | 395 |
| | 13 | 220 | 1,638 | 2,633 | 364 |
| | 14 | 221 | 1,638 | 2,633 | 322 |
| | 15 | 210 | 1,389 | 2,617 | 281 |
| | 16 | 210 | 1,389 | 2,617 | 273 |
| | 17 | 244 | 1,389 | 2,617 | 275 |
| | 18 | 278 | 1,389 | 2,617 | 313 |
| | 19 | 365 | 1,335 | 2,636 | 286 |
| | 20 | 369 | 1,335 | 2,636 | 259 |
| | 21 | 380 | 1,335 | 2,636 | 242 |
| | 22 | 466 | 1,335 | 2,636 | 217 |
| | 23 | 508 | 1,188 | 2,802 | 259 |
| | 24 | 450 | 1,188 | 2,802 | 258 |
| 2020 | 1 | 367 | 1,172 | 2,809 | 222 |
| | 2 | 278 | 1,172 | 2,809 | 189 |
| | 3 | 235 | 1,372 | 2,819 | 199 |
| | 4 | 189 | 1,372 | 2,820 | 224 |
| | 5 | 186 | 1,372 | 2,820 | 291 |
| | 6 | 258 | 1,372 | 2,820 | 449 |
| | 7 | 229 | 1,840 | 2,720 | 578 |
| | 8 | 231 | 1,840 | 2,720 | 363 |
| | 9 | 244 | 1,840 | 2,720 | 370 |
| | 10 | 267 | 1,840 | 2,720 | 395 |
| | 11 | 269 | 1,605 | 2,641 | 412 |
| | 12 | 233 | 1,605 | 2,641 | 408 |
| | 13 | 214 | 1,605 | 2,641 | 380 |
| | 14 | 242 | 1,605 | 2,641 | 330 |
| | 15 | 220 | 1,349 | 2,619 | 292 |
| | 16 | 207 | 1,349 | 2,619 | 282 |
| | 17 | 239 | 1,349 | 2,619 | 280 |
| | 18 | 289 | 1,349 | 2,619 | 295 |
| | 19 | 372 | 1,431 | 2,644 | 282 |
| | 20 | 366 | 1,431 | 2,644 | 257 |
| | 21 | 379 | 1,431 | 2,644 | 217 |
| | 22 | 463 | 1,431 | 2,644 | 196 |
| | 23 | 498 | 1,172 | 2,809 | 210 |
| | 24 | 451 | 1,172 | 2,809 | 222 |

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| Monthly Average Ancillary Services Price | | | | | |
|--|-------|------------|------------|-----------|------------|
| year | month | MCPC_REGDN | MCPC_NSPIN | MCPC_RRS | MCPC_REGUP |
| 2019 | 1 | \$ 6.43 | \$ 1.71 | \$ 11.01 | \$ 9.40 |
| | 2 | \$ 13.14 | \$ 1.66 | \$ 9.70 | \$ 8.88 |
| | 3 | \$ 13.34 | \$ 5.10 | \$ 15.43 | \$ 13.77 |
| | 4 | \$ 16.00 | \$ 5.03 | \$ 15.59 | \$ 14.42 |
| | 5 | \$ 7.83 | \$ 4.27 | \$ 9.47 | \$ 11.00 |
| | 6 | \$ 4.76 | \$ 4.30 | \$ 10.39 | \$ 8.82 |
| | 7 | \$ 3.71 | \$ 5.25 | \$ 13.23 | \$ 11.65 |
| | 8 | \$ 7.87 | \$ 68.75 | \$ 114.97 | \$ 98.80 |
| | 9 | \$ 13.60 | \$ 44.57 | \$ 81.63 | \$ 52.36 |
| | 10 | \$ 6.74 | \$ 12.87 | \$ 22.83 | \$ 17.93 |
| | 11 | \$ 8.19 | \$ 6.23 | \$ 17.63 | \$ 16.10 |
| | 12 | \$ 7.66 | \$ 2.01 | \$ 11.65 | \$ 10.28 |
| 2020 | 1 | \$ 7.06 | \$ 2.04 | \$ 7.24 | \$ 8.60 |
| | 2 | \$ 6.46 | \$ 3.78 | \$ 10.06 | \$ 10.33 |
| | 3 | \$ 6.39 | \$ 4.59 | \$ 14.60 | \$ 13.00 |
| | 4 | \$ 10.83 | \$ 5.15 | \$ 12.78 | \$ 12.31 |
| | 5 | \$ 11.54 | \$ 3.36 | \$ 8.37 | \$ 9.04 |
| | 6 | \$ 7.57 | \$ 4.69 | \$ 7.70 | \$ 7.89 |
| | 7 | \$ 6.73 | \$ 4.12 | \$ 9.56 | \$ 9.98 |
| | 8 | \$ 7.32 | \$ 11.02 | \$ 23.91 | \$ 22.42 |
| | 9 | \$ 10.12 | \$ 2.55 | \$ 6.66 | \$ 6.91 |
| | 10 | \$ 10.22 | \$ 5.47 | \$ 9.81 | \$ 10.82 |
| | 11 | \$ 7.10 | \$ 3.84 | \$ 15.21 | \$ 15.10 |
| | 12 | \$ - | \$ - | \$ - | \$ - |

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| Monthly Average A/S Cost per MWh Load | | | | | |
|---------------------------------------|-------|--------------|---------------|------------|--------------|
| year | month | AScost_REGDN | AScost_NSPIIN | AScost_RRS | AScost_REGUP |
| 2019 | 1 | \$ 0.05 | \$ 0.07 | \$ 0.80 | \$ 0.07 |
| | 2 | \$ 0.10 | \$ 0.07 | \$ 0.72 | \$ 0.07 |
| | 3 | \$ 0.10 | \$ 0.20 | \$ 1.19 | \$ 0.11 |
| | 4 | \$ 0.13 | \$ 0.20 | \$ 1.22 | \$ 0.12 |
| | 5 | \$ 0.06 | \$ 0.15 | \$ 0.60 | \$ 0.09 |
| | 6 | \$ 0.03 | \$ 0.13 | \$ 0.52 | \$ 0.06 |
| | 7 | \$ 0.02 | \$ 0.13 | \$ 0.60 | \$ 0.07 |
| | 8 | \$ 0.04 | \$ 1.84 | \$ 4.87 | \$ 0.57 |
| | 9 | \$ 0.08 | \$ 1.29 | \$ 4.02 | \$ 0.31 |
| | 10 | \$ 0.05 | \$ 0.47 | \$ 1.53 | \$ 0.13 |
| | 11 | \$ 0.06 | \$ 0.25 | \$ 1.32 | \$ 0.12 |
| | 12 | \$ 0.05 | \$ 0.08 | \$ 0.82 | \$ 0.07 |
| 2020 | 1 | \$ 0.05 | \$ 0.08 | \$ 0.54 | \$ 0.06 |
| | 2 | \$ 0.04 | \$ 0.15 | \$ 0.73 | \$ 0.08 |
| | 3 | \$ 0.05 | \$ 0.18 | \$ 1.14 | \$ 0.10 |
| | 4 | \$ 0.08 | \$ 0.20 | \$ 1.02 | \$ 0.10 |
| | 5 | \$ 0.09 | \$ 0.12 | \$ 0.53 | \$ 0.07 |
| | 6 | \$ 0.05 | \$ 0.14 | \$ 0.38 | \$ 0.05 |
| | 7 | \$ 0.04 | \$ 0.10 | \$ 0.42 | \$ 0.06 |
| | 8 | \$ 0.04 | \$ 0.28 | \$ 1.03 | \$ 0.13 |
| | 9 | \$ 0.07 | \$ 0.08 | \$ 0.36 | \$ 0.05 |
| | 10 | \$ 0.07 | \$ 0.19 | \$ 0.65 | \$ 0.08 |
| | 11 | \$ 0.05 | \$ 0.15 | \$ 1.18 | \$ 0.11 |
| | 12 | \$ - | \$ - | \$ - | \$ - |

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| ERCOT-wide Cumulative PNM | | | |
|---------------------------|-------|--------------|---------------|
| year | month | pnm | pnm_accum |
| 2019 | 0 | \$ - | \$ - |
| | 1 | \$ 1,594.61 | \$ 1,594.61 |
| | 2 | \$ 3,042.70 | \$ 4,637.31 |
| | 3 | \$ 4,087.75 | \$ 8,725.06 |
| | 4 | \$ 4,232.61 | \$ 12,957.67 |
| | 5 | \$ 3,234.19 | \$ 16,191.86 |
| | 6 | \$ 4,409.46 | \$ 20,601.32 |
| | 7 | \$ 8,110.34 | \$ 28,711.66 |
| | 8 | \$ 84,095.03 | \$ 112,806.69 |
| | 9 | \$ 21,413.10 | \$ 134,219.79 |
| | 10 | \$ 8,603.88 | \$ 142,823.67 |
| | 11 | \$ 3,834.05 | \$ 146,657.72 |
| | 12 | \$ 534.58 | \$ 147,192.30 |
| 2020 | 0 | \$ - | \$ - |
| | 1 | \$ 948.71 | \$ 948.71 |
| | 2 | \$ 2,962.95 | \$ 3,911.66 |
| | 3 | \$ 6,596.00 | \$ 10,507.66 |
| | 4 | \$ 3,928.31 | \$ 14,435.97 |
| | 5 | \$ 2,971.45 | \$ 17,407.42 |
| | 6 | \$ 1,257.14 | \$ 18,664.56 |
| | 7 | \$ 3,082.86 | \$ 21,747.42 |
| | 8 | \$ 11,591.85 | \$ 33,339.27 |
| | 9 | \$ 3,063.07 | \$ 36,402.34 |
| | 10 | \$ 8,681.74 | \$ 45,084.08 |
| | 11 | \$ 3,520.43 | \$ 48,604.51 |
| | 12 | \$ - | \$ - |

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| DA vs. RT Load Forecast Error by Hour Ending | | | | | | | |
|--|-------|--------|----------|----------|----------|--------|---------|
| year | month | HE_1_4 | HE_13_16 | HE_17_20 | HE_21_24 | HE_5_8 | HE_9_12 |
| 2019 | 1 | (69) | 2 | 10 | (37) | 207 | 245 |
| | 2 | (412) | (246) | (679) | (749) | (361) | (378) |
| | 3 | 275 | (45) | 258 | 142 | 152 | (52) |
| | 4 | 125 | 668 | 573 | 292 | 35 | 171 |
| | 5 | (32) | 5 | (31) | 19 | (21) | 76 |
| | 6 | 107 | 1,213 | 916 | 510 | 330 | 1,059 |
| | 7 | (127) | 29 | (239) | (201) | (273) | (188) |
| | 8 | 72 | 768 | 869 | 503 | 64 | 623 |
| | 9 | 27 | 306 | 248 | 325 | 4 | 334 |
| | 10 | 101 | 676 | 309 | 182 | 102 | 404 |
| | 11 | 21 | 199 | 138 | 108 | (97) | 67 |
| | 12 | (342) | (587) | (477) | (339) | (329) | (540) |
| 2020 | 1 | 73 | (303) | (292) | (76) | 255 | (43) |
| | 2 | (89) | (84) | 40 | (39) | (160) | (113) |
| | 3 | (133) | 313 | 202 | 192 | 5 | 487 |
| | 4 | 335 | 225 | (90) | 371 | 108 | 819 |
| | 5 | 488 | 332 | 420 | 829 | (26) | 729 |
| | 6 | (163) | 1,067 | 808 | 330 | (262) | 573 |
| | 7 | 218 | 403 | 485 | 495 | 294 | 382 |
| | 8 | 333 | 468 | 415 | 540 | 662 | 754 |
| | 9 | 12 | 596 | 930 | 497 | 155 | 62 |
| | 10 | (308) | (154) | (527) | (323) | (169) | (58) |
| | 11 | (192) | (592) | (648) | (279) | 171 | (20) |
| | 12 | - | - | - | - | - | - |

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| Monthly Average of Wind Generation by Hour Ending | | | | | | | |
|---|-------|--------|----------|----------|----------|--------|---------|
| year | month | HE_1_4 | HE_13_16 | HE_17_20 | HE_21_24 | HE_5_8 | HE_9_12 |
| 2019 | 1 | 9,500 | 7,954 | 7,892 | 9,491 | 9,141 | 7,897 |
| | 2 | 10,520 | 8,015 | 8,843 | 10,755 | 9,358 | 7,631 |
| | 3 | 9,471 | 6,980 | 7,408 | 9,114 | 8,585 | 7,389 |
| | 4 | 10,770 | 9,020 | 9,488 | 11,220 | 10,180 | 9,034 |
| | 5 | 10,907 | 8,497 | 9,689 | 10,736 | 9,414 | 8,343 |
| | 6 | 9,717 | 6,210 | 7,891 | 10,062 | 7,706 | 6,535 |
| | 7 | 10,258 | 6,036 | 8,124 | 9,915 | 8,568 | 6,712 |
| | 8 | 11,086 | 4,854 | 7,343 | 10,742 | 8,638 | 5,965 |
| | 9 | 10,340 | 6,640 | 7,694 | 10,152 | 8,364 | 6,624 |
| | 10 | 10,722 | 7,413 | 8,350 | 10,678 | 9,924 | 8,246 |
| | 11 | 9,762 | 7,641 | 8,003 | 9,866 | 9,504 | 8,268 |
| | 12 | 10,585 | 7,573 | 7,916 | 10,641 | 9,330 | 7,340 |
| 2020 | 1 | 11,301 | 8,889 | 8,804 | 11,122 | 10,778 | 9,611 |
| | 2 | 11,703 | 8,927 | 9,127 | 11,552 | 11,418 | 9,565 |
| | 3 | 11,041 | 8,603 | 9,310 | 10,892 | 10,550 | 9,266 |
| | 4 | 11,740 | 9,020 | 9,632 | 11,683 | 10,687 | 9,300 |
| | 5 | 12,521 | 8,354 | 9,718 | 12,321 | 11,035 | 9,639 |
| | 6 | 13,993 | 8,966 | 11,459 | 13,741 | 11,821 | 10,210 |
| | 7 | 12,451 | 6,263 | 9,467 | 11,967 | 9,483 | 7,091 |
| | 8 | 11,838 | 5,872 | 7,466 | 11,126 | 9,403 | 7,204 |
| | 9 | 8,330 | 5,914 | 6,538 | 8,644 | 7,217 | 6,007 |
| | 10 | 11,781 | 7,862 | 8,387 | 11,600 | 10,670 | 8,756 |
| | 11 | 12,163 | 8,702 | 9,740 | 12,769 | 10,835 | 8,979 |
| | 12 | - | - | - | - | - | - |

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| RT Congestion Constraint Rankings - Top 10 Constraints by Binding Frequency and Top 10 Constraints by Total Congestion Rent | | | | | | | | | | | | | | | | |
|---|------|--------------------------------------|-----------|------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|------|
| category | year | item | rankvar | rank | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| FREQ_EXIST | 2020 | PANHANDLE GTC (PNHNDL) | 22,068 | 1 | 2,990 | 573 | 774 | 1,210 | 919 | 4,063 | 962 | 913 | 2,421 | 3,358 | 3,885 | - |
| FREQ_EXIST | 2020 | HAMILT MAVER11 1 (HAMILTON-MAVERICK) | 20,093 | 2 | 1,645 | 1,879 | 2,137 | 2,191 | 2,011 | 1,013 | 469 | 1,788 | 1,118 | 2,979 | 2,863 | - |
| FREQ_EXIST | 2020 | RIOHND_ERIOHND 1 (MV RIOHO-RIOHONDO) | 11,890 | 3 | 63 | 1,879 | 2,634 | 1,251 | 2,139 | 669 | 1,154 | 417 | 699 | 605 | 380 | - |
| FREQ_EXIST | 2020 | FREER LOBO1 1 (LOBO-FREER) | 10,413 | 4 | 14 | 4,439 | 5,054 | 28 | 2 | - | - | - | - | 826 | 50 | - |
| FREQ_EXIST | 2020 | 6100 F (DHIDE-NOTSW) | 9,582 | 5 | 1,642 | 3,500 | 4,006 | 434 | - | - | - | - | - | - | - | - |
| FREQ_EXIST | 2020 | RAYMND2_69A1 (RAYMND2-RAYMND2) | 8,223 | 6 | 62 | 1,573 | 3,663 | 605 | 623 | 157 | 802 | - | 60 | 256 | 422 | - |
| FREQ_EXIST | 2020 | 588 A 1 (LWSVW-LWVTI) | 8,089 | 7 | 30 | 582 | 1,155 | 1,198 | 600 | 151 | - | 9 | 282 | 1,671 | 2,411 | - |
| FREQ_EXIST | 2020 | 1030 B (BOSQUESW-RGH) | 6,916 | 8 | 450 | 100 | 1,289 | 1,904 | 1,196 | 736 | 28 | 134 | 446 | 574 | 59 | - |
| FREQ_EXIST | 2020 | NORTH EDINBURG LOBO GTC (NE_LOB) | 5,563 | 9 | 630 | 92 | 392 | 138 | 495 | 475 | 262 | 419 | 875 | 1,088 | 697 | - |
| FREQ_EXIST | 2020 | MCCAMEY GTC (MCCAMY) | 5,390 | 10 | 13 | 55 | 8 | 146 | 265 | 982 | 695 | 1,125 | 376 | 840 | 885 | - |
| TOP10_RENT | 2020 | 6100 F (DHIDE-NOTSW) | \$ 192.97 | 1 | \$ 24.52 | \$ 76.51 | \$ 89.80 | \$ 2.14 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | PANHANDLE GTC (PNHNDL) | \$ 121.91 | 2 | \$ 19.72 | \$ 1.94 | \$ 2.07 | \$ 4.53 | \$ 3.96 | \$ 26.32 | \$ 5.08 | \$ 4.73 | \$ 15.78 | \$ 18.51 | \$ 19.27 | \$ - |
| TOP10_RENT | 2020 | 588 A 1 (LWSVW-LWVTI) | \$ 69.95 | 3 | \$ 0.13 | \$ 3.52 | \$ 13.33 | \$ 8.51 | \$ 3.04 | \$ 0.74 | \$ - | \$ 0.02 | \$ 1.57 | \$ 16.26 | \$ 22.83 | \$ - |
| TOP10_RENT | 2020 | AZTECA_HEC1 1 (HEC-AZTECA) | \$ 62.25 | 4 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 18.25 | \$ 44.00 | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | LYNX_TOMBST1 1 (LYNX-TOMBSTNE) | \$ 53.96 | 5 | \$ 1.31 | \$ 0.64 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2.22 | \$ 1.68 | \$ 48.12 | \$ - |
| TOP10_RENT | 2020 | 6100 G (ACSSW-AMTBT) | \$ 47.79 | 6 | \$ 1.31 | \$ 7.16 | \$ 39.32 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | 6475 C (ODEHV-TROTP) | \$ 47.16 | 7 | \$ - | \$ 40.50 | \$ 5.85 | \$ 0.00 | \$ 0.41 | \$ - | \$ 0.19 | \$ 0.13 | \$ - | \$ 0.07 | \$ - | \$ - |
| TOP10_RENT | 2020 | NEDIN_XFMRS (NEDIN-NEDIN) | \$ 44.03 | 8 | \$ - | \$ - | \$ - | \$ 0.00 | \$ 19.06 | \$ - | \$ 1.66 | \$ 14.13 | \$ 8.20 | \$ 0.98 | \$ - | \$ - |
| TOP10_RENT | 2020 | 479T479 1 (WESLACO-N ALAMO) | \$ 35.96 | 9 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1.68 | \$ 34.28 | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | KEY_SW_N_MCAL1_1 (KEY_SW-N_MCALLN) | \$ 29.57 | 10 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 29.57 | \$ - | \$ - | \$ - | \$ - |

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| DA Congestion Constraint Rankings - Top 10 Constraints by Binding Frequency and Top 10 Constraints by Total Congestion Rent | | | | | | | | | | | | | | | | | |
|---|------|--------------------------------------|-----------|------|----------|----------|-----------|----------|---------|----------|----------|----------|----------|----------|----------|------|--|
| category | year | item | rankvar | rank | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| FREQ_EXIST | 2020 | HAMILT MAVER1 1 (HAMILTON-MAVERICK) | 3,859 | 1 | 341 | 379 | 305 | 388 | 398 | 408 | 182 | 308 | 180 | 532 | 438 | - | |
| FREQ_EXIST | 2020 | PANHANDLE GTC (PNHNDL) | 3,474 | 2 | 453 | 177 | 174 | 258 | 241 | 479 | 230 | 237 | 299 | 464 | 462 | - | |
| FREQ_EXIST | 2020 | NLARSW PILONG1 1 (NLARSW-PILONCIL) | 3,383 | 3 | 292 | 232 | 436 | 433 | 367 | 271 | 207 | 218 | 233 | 457 | 237 | - | |
| FREQ_EXIST | 2020 | 138 ALV_MNL_1 (ALVIN-MAINLAND) | 3,130 | 4 | 428 | 16 | 133 | 106 | 390 | 543 | 423 | 323 | 356 | 271 | 141 | - | |
| FREQ_EXIST | 2020 | 1030_B (BOSQUESW-RGH) | 2,793 | 5 | 93 | 47 | 315 | 468 | 489 | 440 | 228 | 351 | 148 | 213 | 1 | - | |
| FREQ_EXIST | 2020 | RAYMND2_69A1 (RAYMND2-RAYMND2) | 2,770 | 6 | 65 | 373 | 553 | 300 | 442 | 264 | 297 | 72 | 108 | 157 | 139 | - | |
| FREQ_EXIST | 2020 | FTST_SOLST1 1 (FTST-SOLSTICE) | 2,547 | 7 | 37 | 89 | 53 | 373 | 331 | 424 | 628 | 432 | 94 | 38 | 48 | - | |
| FREQ_EXIST | 2020 | RIOPEC_WOODW21_1 (RIOPECOS-WOODWRD2) | 2,266 | 8 | 521 | 365 | 189 | 280 | 315 | 232 | 167 | 75 | 122 | - | - | - | |
| FREQ_EXIST | 2020 | HEXT_YELWJC1_1 (YELWJCKT-HEXT) | 2,160 | 9 | 232 | 190 | 115 | 208 | 221 | 95 | 27 | 131 | 131 | 436 | 374 | - | |
| FREQ_EXIST | 2020 | RIOHND_ERIOHND_1 (MV_RIOHO-RIOHONDO) | 2,127 | 10 | - | 261 | 484 | 267 | 334 | 167 | 178 | 66 | 157 | 121 | 92 | - | |
| TOP10_RENT | 2020 | 6100_F AND 6100_Z (DHIIDE-NOTSW) | \$ 205.56 | 1 | \$ 20.58 | \$ 76.21 | \$ 107.05 | \$ 1.73 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | PANHANDLE GTC (PNHNDL) | \$ 124.52 | 2 | \$ 20.27 | \$ 2.80 | \$ 3.38 | \$ 4.88 | \$ 5.06 | \$ 25.00 | \$ 5.80 | \$ 5.05 | \$ 14.14 | \$ 18.54 | \$ 19.61 | \$ - | |
| TOP10_RENT | 2020 | AZTECA_HEC1_1 (HEC-AZTECA) | \$ 80.24 | 3 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.00 | \$ 11.22 | \$ 68.90 | \$ 0.11 | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 588_A_1 (LWSVW-LWVTI) | \$ 60.80 | 4 | \$ 0.76 | \$ 1.98 | \$ 5.35 | \$ 12.86 | \$ 4.99 | \$ 1.83 | \$ 0.29 | \$ 0.13 | \$ 0.89 | \$ 14.44 | \$ 17.28 | \$ - | |
| TOP10_RENT | 2020 | KEY_SW_N_MCAL1_1 (KEY_SW-N_MCALLN) | \$ 43.63 | 5 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.11 | \$ 43.52 | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | LYNX_TOMBST1_1 (LYNX-TOMBSTNE) | \$ 42.04 | 6 | \$ 0.16 | \$ 0.05 | \$ 0.01 | \$ 0.02 | \$ - | \$ - | \$ - | \$ - | \$ 3.29 | \$ 3.05 | \$ 35.46 | \$ - | |
| TOP10_RENT | 2020 | 6520_E (ODEHV-YARBR) | \$ 38.06 | 7 | \$ - | \$ 7.35 | \$ 16.19 | \$ 10.17 | \$ 3.68 | \$ 0.15 | \$ 0.04 | \$ 0.00 | \$ 0.08 | \$ 0.05 | \$ 0.35 | \$ - | |
| TOP10_RENT | 2020 | 6475_C (ODEHV-TROTP) | \$ 29.27 | 8 | \$ - | \$ 23.18 | \$ 3.34 | \$ 0.20 | \$ 0.53 | \$ 0.09 | \$ 0.71 | \$ 0.62 | \$ 0.26 | \$ 0.27 | \$ 0.06 | \$ - | |
| TOP10_RENT | 2020 | 6265_A (EMSES-MRSDO) | \$ 28.17 | 9 | \$ 1.33 | \$ 0.10 | \$ 0.00 | \$ 0.28 | \$ 1.23 | \$ 9.23 | \$ 6.87 | \$ 6.77 | \$ 1.90 | \$ 0.46 | \$ - | \$ - | |
| TOP10_RENT | 2020 | NEDIN_XFMRS (NEDIN-NEDIN) | \$ 20.42 | 10 | \$ 0.05 | \$ 0.18 | \$ 0.24 | \$ 0.05 | \$ 2.42 | \$ 0.17 | \$ 0.39 | \$ 12.53 | \$ 0.94 | \$ 1.47 | \$ 1.96 | \$ - | |

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| Top 10 CRR Pairs Ranked by Monthly Auction Values - Top 10 PTP Obligations by Total Transaction Values and Top 10 PTP Options by Total Transaction Values | | | | | | | | | | | | | | | | | |
|---|------|---------------------------|-------------|------|---------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| fr_option | year | pair | total_value | rank | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| N | 2020 | HB WEST-LZ WEST | \$ 64.74 | 1 | \$ 8.27 | \$ 6.36 | \$ 12.75 | \$ 20.43 | \$ 5.85 | \$ 2.33 | \$ 0.88 | \$ 0.81 | \$ 0.92 | \$ 1.77 | \$ 2.99 | \$ 1.38 | |
| N | 2020 | HB SOUTH-LZ SOUTH | \$ 17.78 | 2 | \$ 0.87 | \$ 0.75 | \$ 1.00 | \$ 1.25 | \$ 1.54 | \$ 2.00 | \$ 1.83 | \$ 1.53 | \$ 1.94 | \$ 1.66 | \$ 1.77 | \$ 1.64 | |
| N | 2020 | HB NORTH-HB HOUSTON | \$ 10.23 | 3 | \$ 0.18 | \$ 0.10 | \$ 0.58 | \$ 0.95 | \$ 0.87 | \$ 1.27 | \$ 0.84 | \$ 1.18 | \$ 1.13 | \$ 1.37 | \$ 1.00 | \$ 0.77 | |
| N | 2020 | AEEC-LZ WEST | \$ 8.33 | 4 | \$ 1.44 | \$ 1.69 | \$ 1.27 | \$ 1.14 | \$ 0.74 | \$ 0.43 | \$ 0.22 | \$ 0.18 | \$ 0.29 | \$ 0.31 | \$ 0.29 | \$ 0.32 | |
| N | 2020 | HB NORTH-LZ NORTH | \$ 7.76 | 5 | \$ 0.41 | \$ 0.42 | \$ 0.34 | \$ 0.33 | \$ 0.44 | \$ 0.60 | \$ 0.86 | \$ 0.85 | \$ 0.62 | \$ 0.91 | \$ 1.01 | \$ 0.97 | |
| N | 2020 | HB PAN-HB WEST | \$ 5.92 | 6 | \$ 0.44 | \$ 1.45 | \$ 0.01 | \$ 0.18 | \$ 0.08 | \$ 0.15 | \$ 2.00 | \$ 0.19 | \$ 0.04 | \$ 0.21 | \$ 0.64 | \$ 0.53 | |
| N | 2020 | HB WEST-HB NORTH | \$ 5.07 | 7 | \$ 0.00 | \$ 0.44 | \$ 0.33 | \$ 0.28 | \$ 0.66 | \$ 0.30 | \$ 0.18 | \$ 0.07 | \$ 0.14 | \$ 0.91 | \$ 1.29 | \$ 0.46 | |
| N | 2020 | HB HOUSTON-LZ HOUSTON | \$ 3.31 | 8 | \$ 0.24 | \$ 0.17 | \$ 0.21 | \$ 0.19 | \$ 0.31 | \$ 0.31 | \$ 0.26 | \$ 0.43 | \$ 0.46 | \$ 0.47 | \$ - | \$ 0.28 | |
| N | 2020 | JACKCNTY STG-LZ NORTH | \$ 1.55 | 9 | \$ 0.03 | \$ 0.00 | \$ 0.33 | \$ 0.01 | \$ 0.11 | \$ 0.17 | \$ 0.19 | \$ 0.15 | \$ 0.22 | \$ 0.18 | \$ 0.14 | \$ 0.01 | |
| N | 2020 | JCKCNTY2_ST2-LZ NORTH | \$ 1.48 | 10 | \$ 0.05 | \$ 0.02 | \$ 0.17 | \$ 0.02 | \$ 0.05 | \$ 0.13 | \$ 0.12 | \$ 0.06 | \$ 0.16 | \$ 0.37 | \$ 0.31 | \$ 0.03 | |
| Y | 2020 | HB WEST-LZ WEST | \$ 13.52 | 1 | \$ 3.91 | \$ 1.02 | \$ 0.65 | \$ 3.48 | \$ 1.35 | \$ 0.71 | \$ 0.22 | \$ 0.46 | \$ 0.29 | \$ 0.50 | \$ 0.55 | \$ 0.39 | |
| Y | 2020 | HB SOUTH-LZ SOUTH | \$ 8.58 | 2 | \$ 0.53 | \$ 0.32 | \$ 0.57 | \$ 0.33 | \$ 1.08 | \$ 1.37 | \$ 1.27 | \$ 1.23 | \$ 0.96 | \$ 0.32 | \$ 0.27 | \$ 0.32 | |
| Y | 2020 | HB NORTH-LZ NORTH | \$ 4.63 | 3 | \$ 0.16 | \$ 0.32 | \$ 0.33 | \$ 0.51 | \$ 0.38 | \$ 0.21 | \$ 0.37 | \$ 0.37 | \$ 0.26 | \$ 0.74 | \$ 0.43 | \$ 0.55 | |
| Y | 2020 | HB WEST-NWF NWF1 | \$ 3.92 | 4 | \$ 0.55 | \$ 0.59 | \$ 0.50 | \$ 2.10 | \$ 0.13 | \$ 0.01 | \$ 0.00 | \$ - | \$ - | \$ - | \$ 0.05 | \$ - | |
| Y | 2020 | LZ WEST-NWF NWF1 | \$ 2.42 | 5 | \$ 0.05 | \$ 0.41 | \$ 0.43 | \$ 1.38 | \$ 0.16 | \$ 0.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | OECCS 2-RN ECEC HOLT | \$ 2.09 | 6 | \$ 0.01 | \$ 0.05 | \$ 0.03 | \$ 0.32 | \$ 0.05 | \$ 0.08 | \$ 0.11 | \$ 0.03 | \$ 0.10 | \$ 0.32 | \$ 0.55 | \$ 0.43 | |
| Y | 2020 | OECCS 1-PB2SES CT5 | \$ 2.08 | 7 | \$ 1.03 | \$ 0.22 | \$ - | \$ 0.59 | \$ 0.12 | \$ 0.01 | \$ 0.03 | \$ 0.00 | \$ 0.02 | \$ 0.00 | \$ 0.05 | \$ 0.00 | |
| Y | 2020 | HB HOUSTON-LZ HOUSTON | \$ 2.00 | 8 | \$ 0.16 | \$ 0.06 | \$ 0.13 | \$ 0.17 | \$ 0.28 | \$ 0.27 | \$ 0.16 | \$ 0.20 | \$ 0.22 | \$ 0.21 | \$ 0.09 | \$ 0.04 | |
| Y | 2020 | WOO WOODWRD2-RIGGIN UNIT1 | \$ 1.99 | 9 | \$ 0.09 | \$ - | \$ 0.85 | \$ 0.32 | \$ 0.16 | \$ 0.01 | \$ 0.01 | \$ 0.13 | \$ 0.07 | \$ 0.10 | \$ 0.20 | \$ 0.05 | |
| Y | 2020 | WOO WOODWRD1-RIGGIN UNIT1 | \$ 1.73 | 10 | \$ 0.31 | \$ 0.13 | \$ 0.12 | \$ 0.45 | \$ 0.01 | \$ 0.02 | \$ 0.01 | \$ 0.04 | \$ 0.09 | \$ 0.20 | \$ 0.26 | \$ 0.11 | |

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