

To the Public Utility Commission of Texas

ERCOT Wholesale Electricity Market Monthly Report

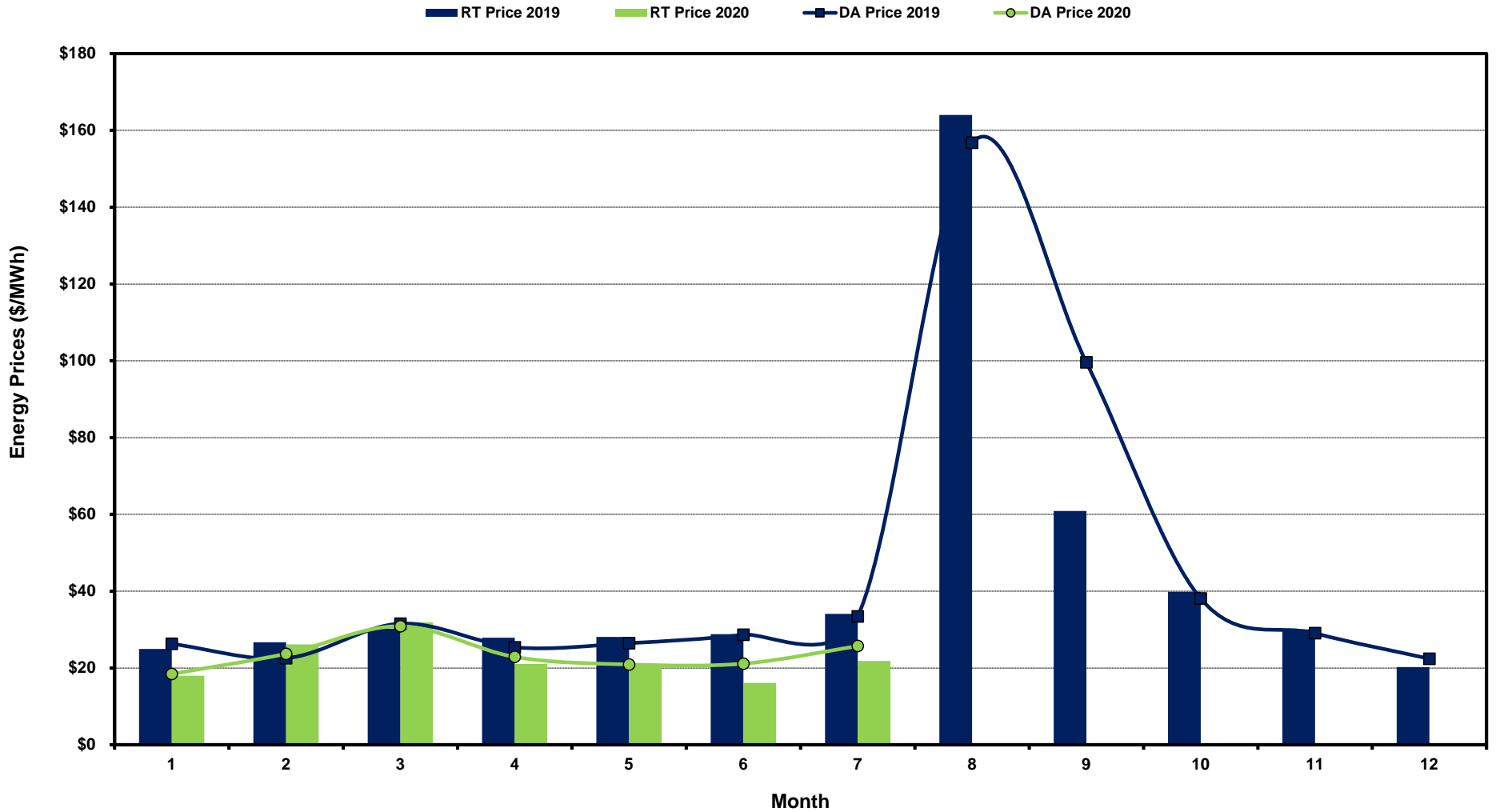
Monday, August 10, 2020

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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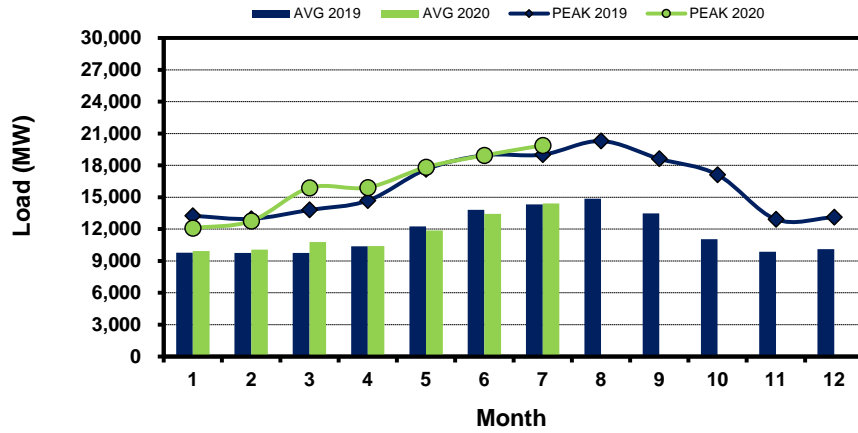
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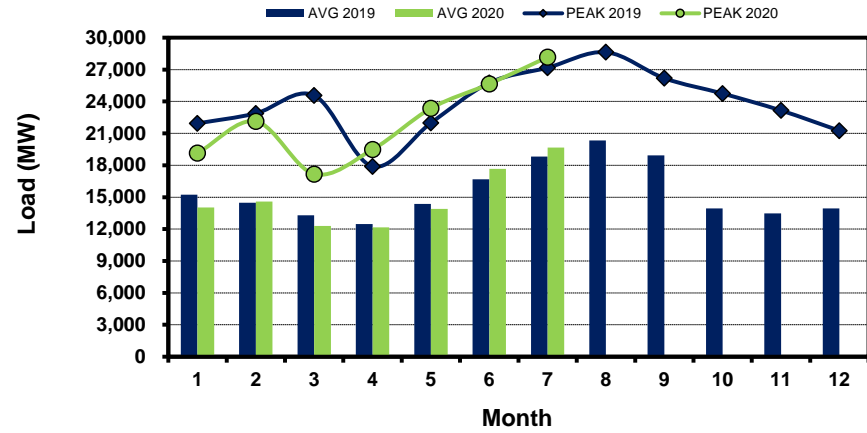
Load Zone Load Statistics

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

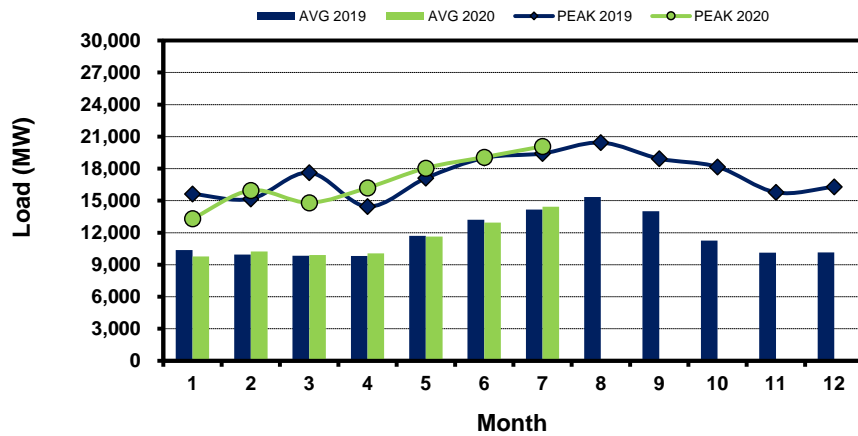
Houston Zone



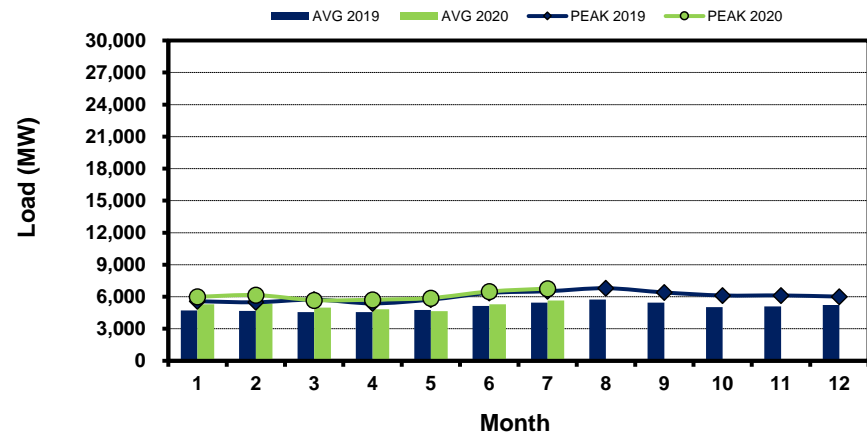
North Zone



South Zone



West Zone



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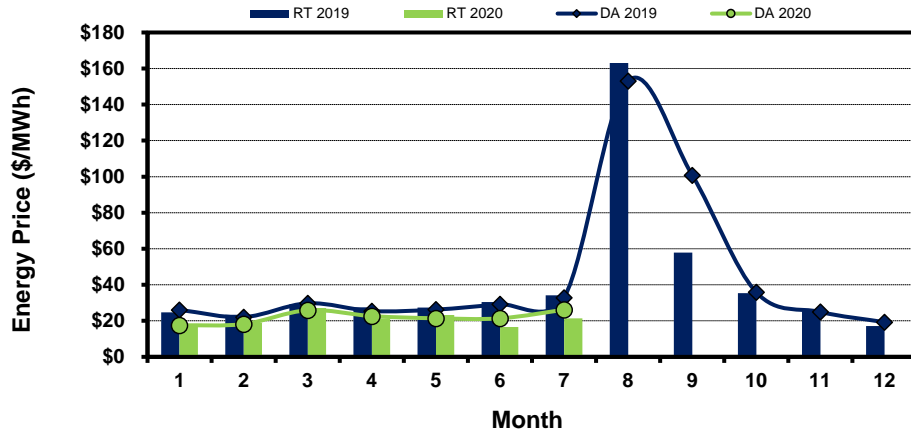
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

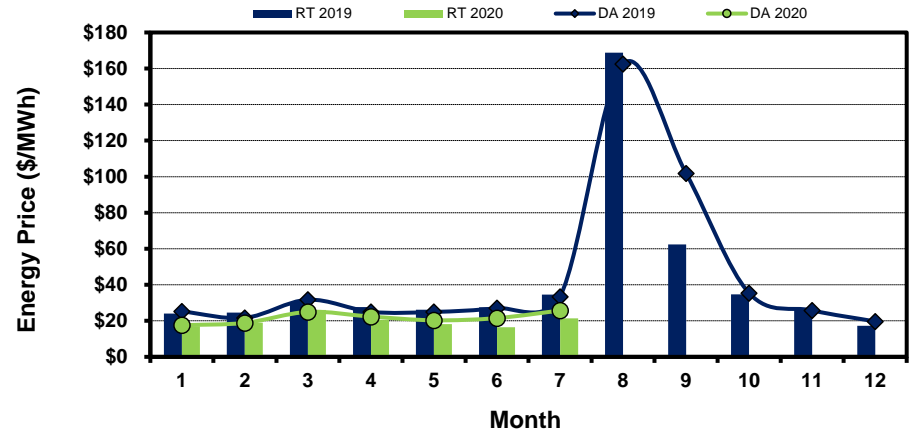
Load Zone Monthly Average Energy Price DA vs RT

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

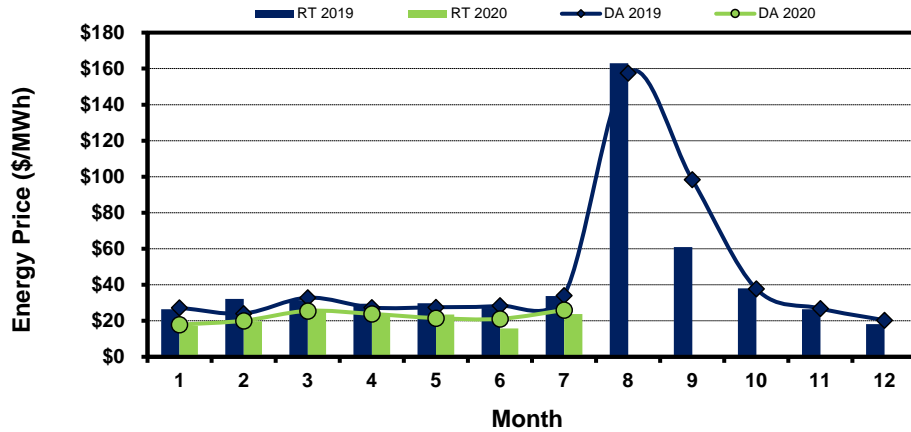
Houston Zone



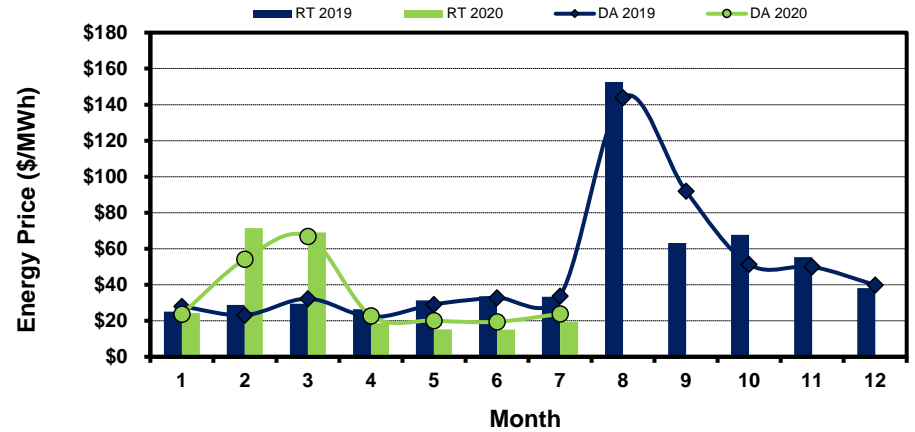
North Zone



South Zone



West Zone



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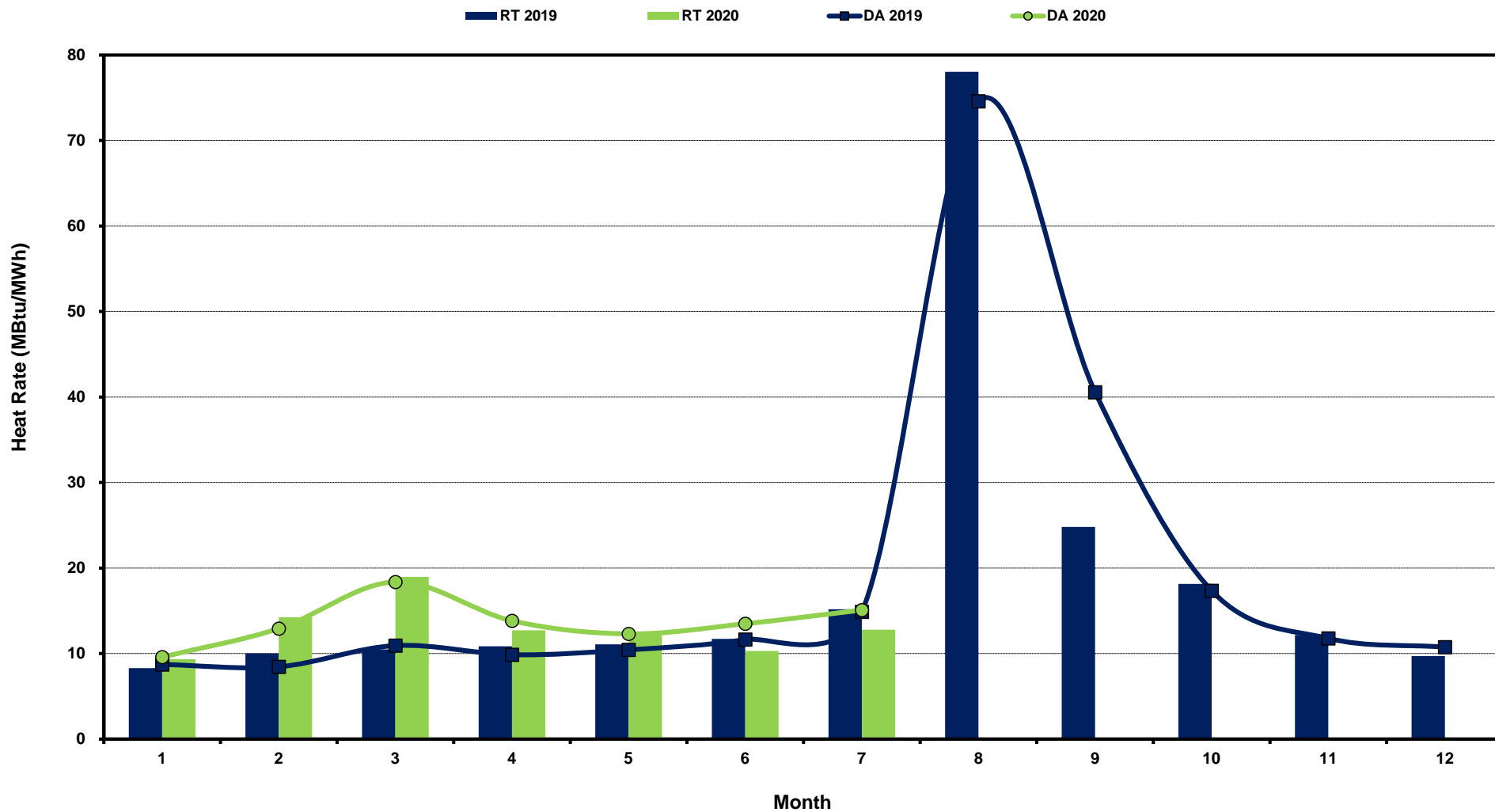
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

ERCOT-wide Monthly Implied Heat Rate DA vs RT

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



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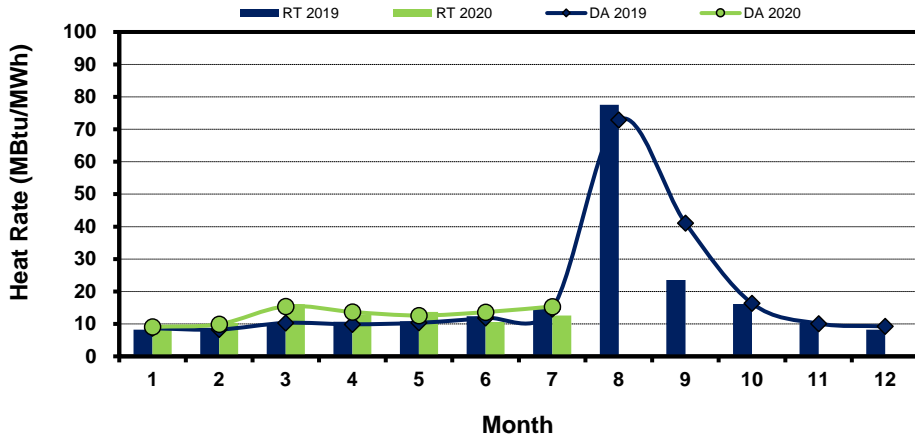
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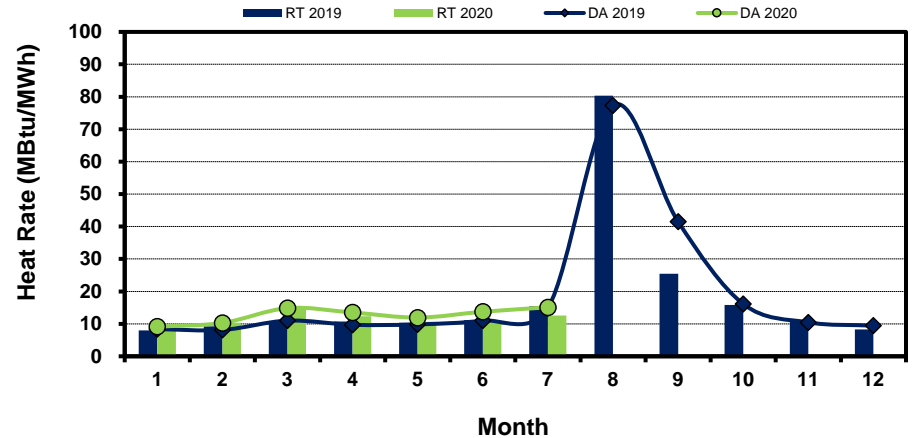
Load Zone Monthly Implied Heat Rate DA vs RT

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

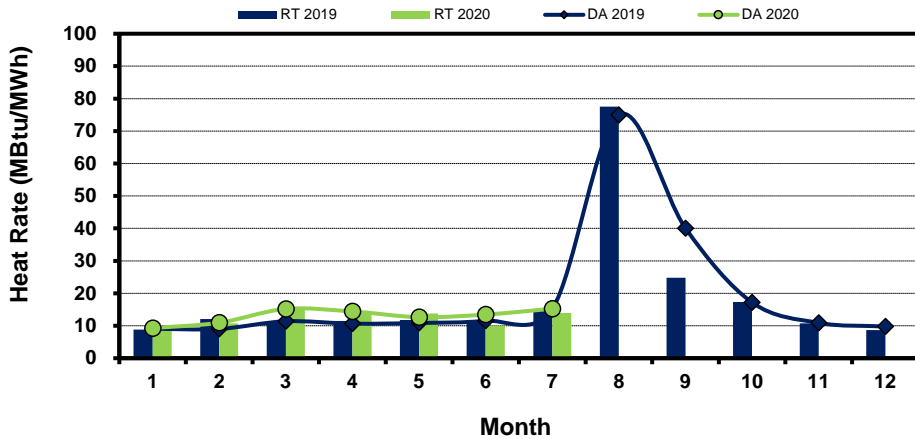
Houston Zone



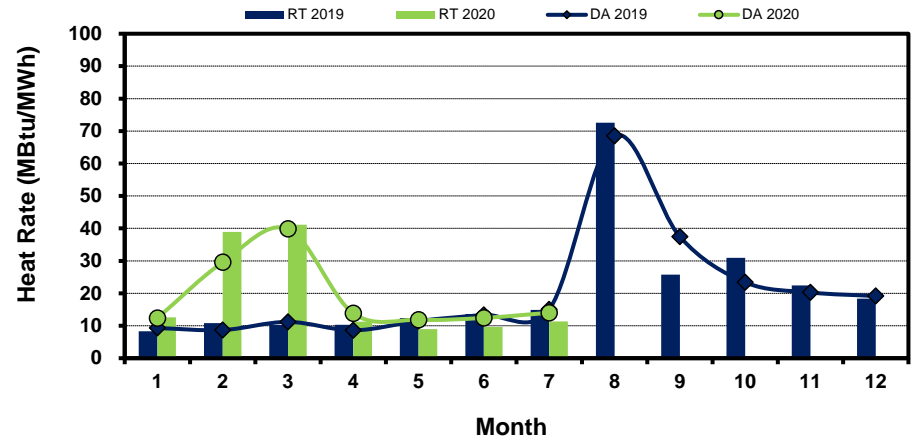
North Zone



South Zone



West Zone



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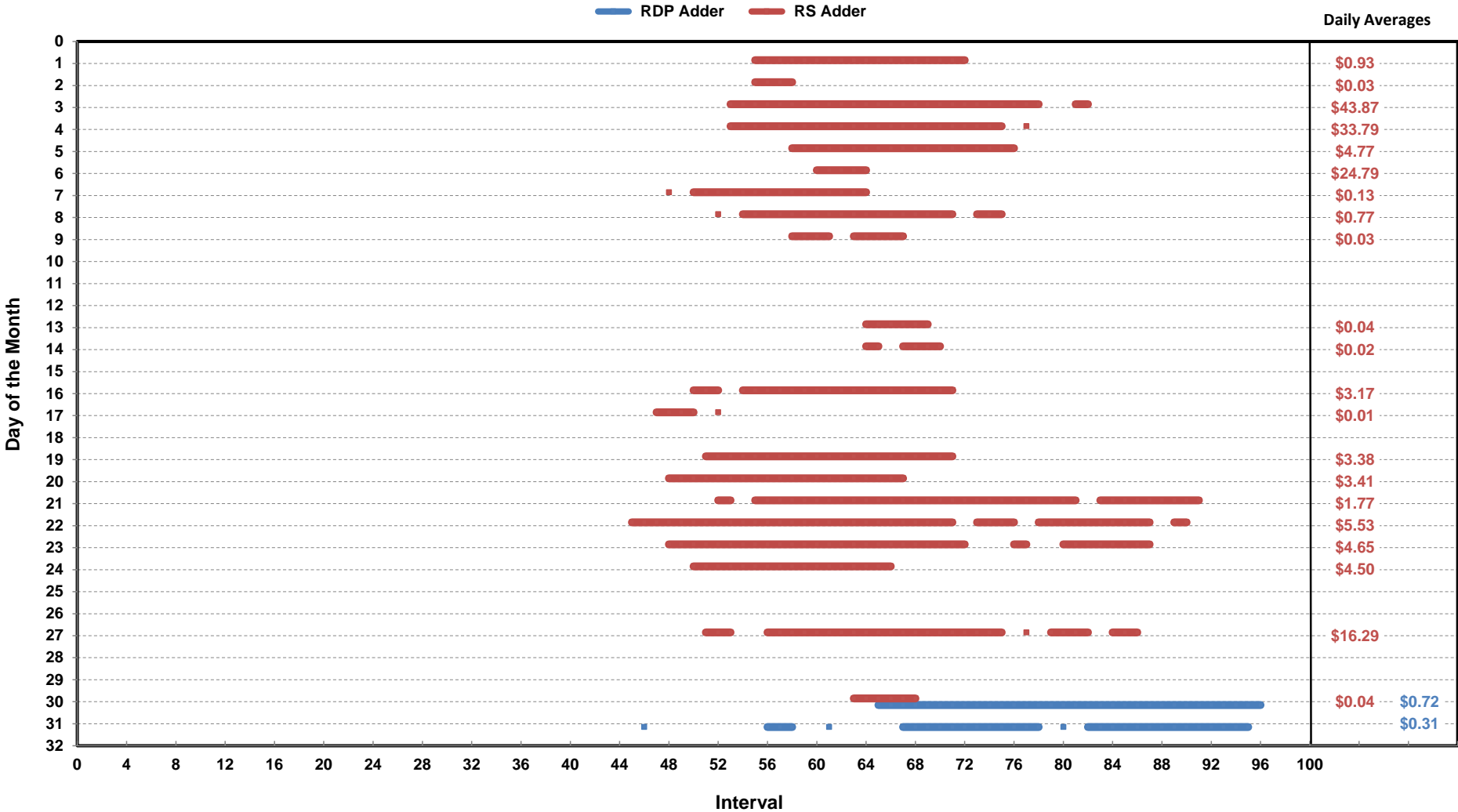
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

Daily ORDC Adders Average Values and Interval Duration Jul-2020



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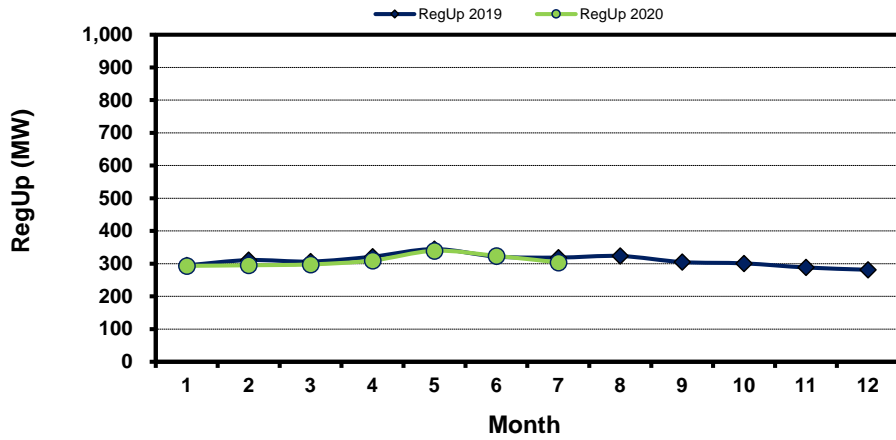
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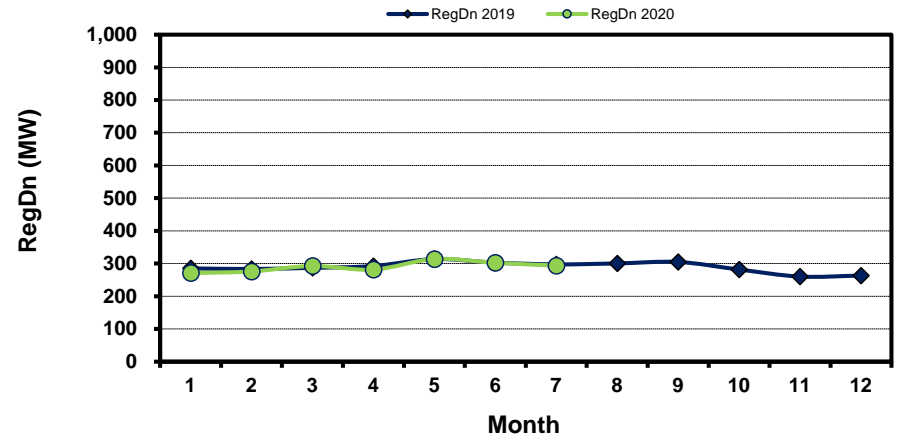
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Monthly Average of Ancillary Services Required MW

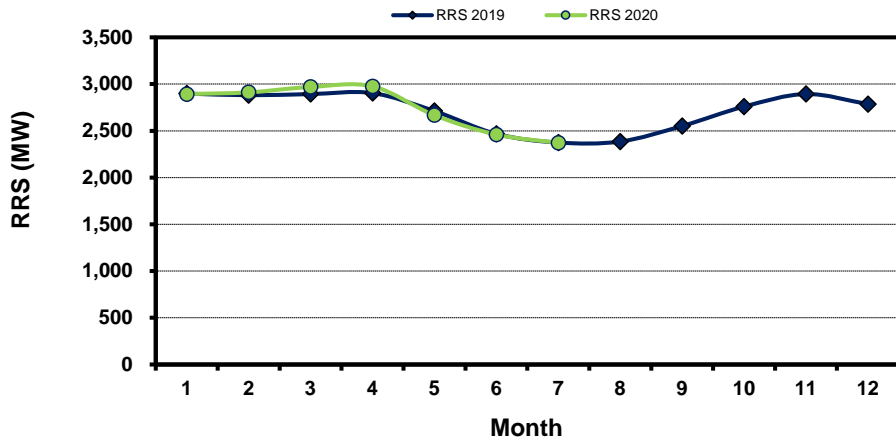
Regulation Up



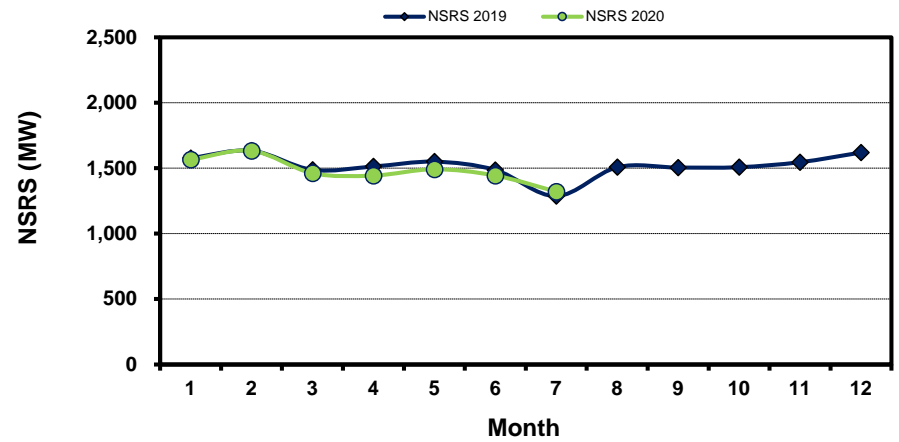
Regulation Down



Responsive Reserve



Non-Spin Reserve



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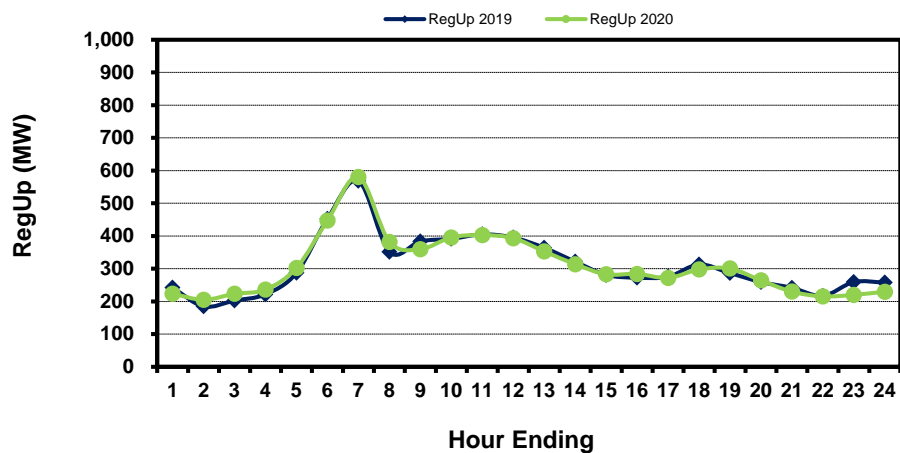
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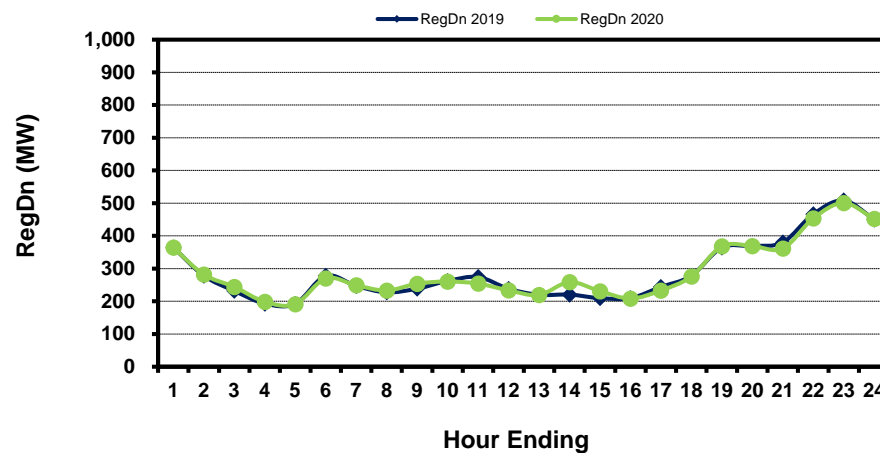
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Hourly Average of Ancillary Services Required MW

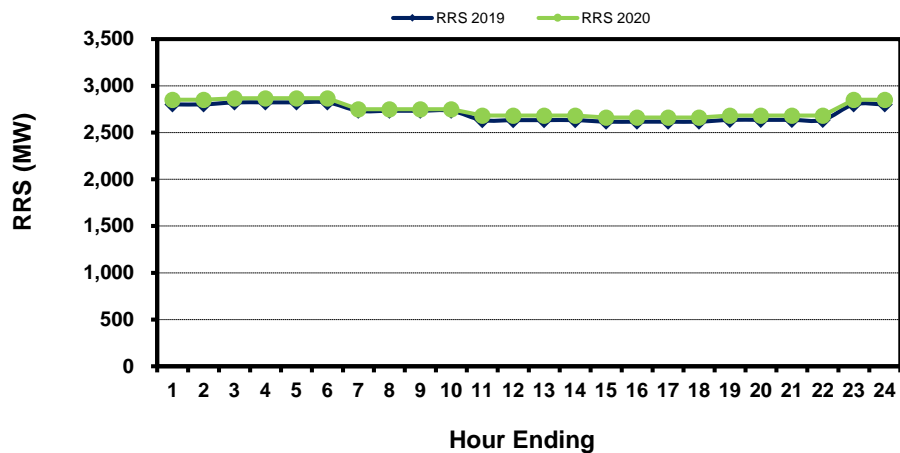
Regulation Up



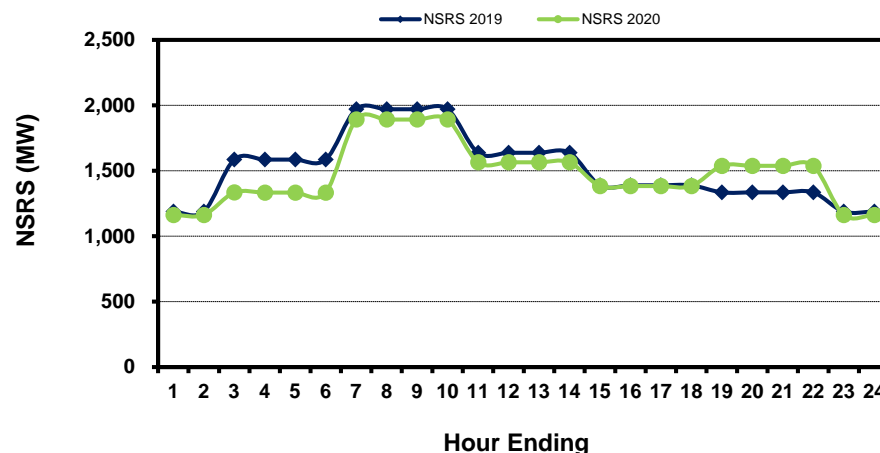
Regulation Down



Responsive Reserve



Non-Spin Reserve



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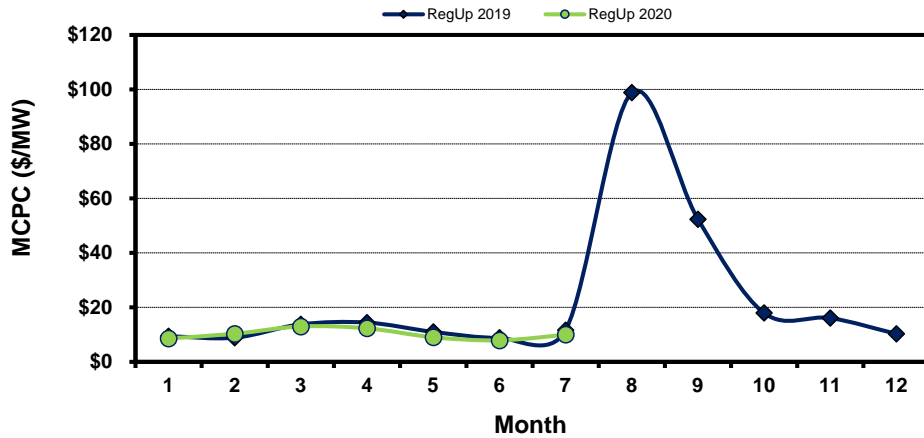
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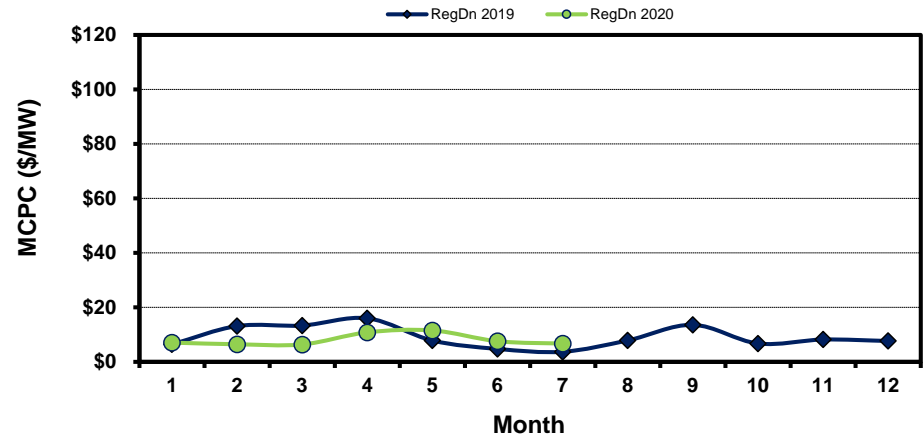
Monthly Average Ancillary Services Price

(weighted by A/S Quantities Required)

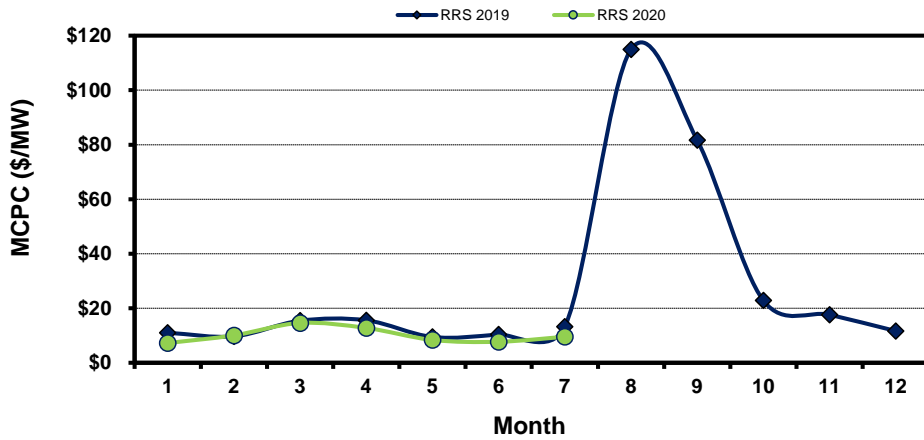
Regulation Up



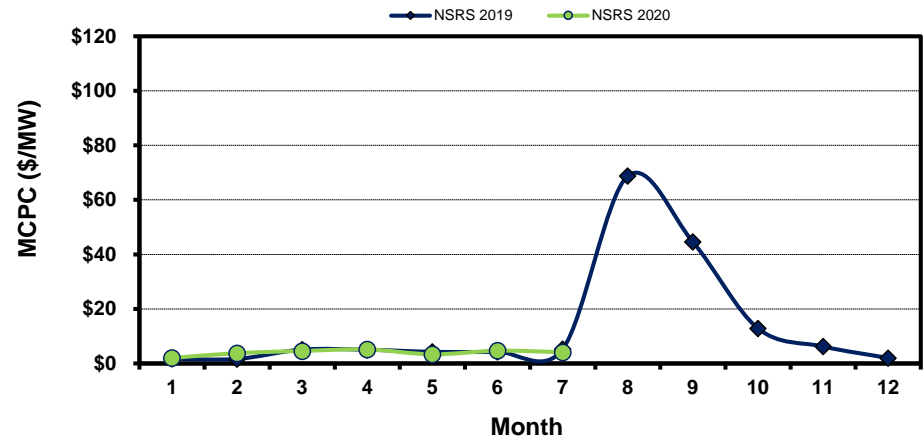
Regulation Down



Responsive Reserve



Non-Spin Reserve



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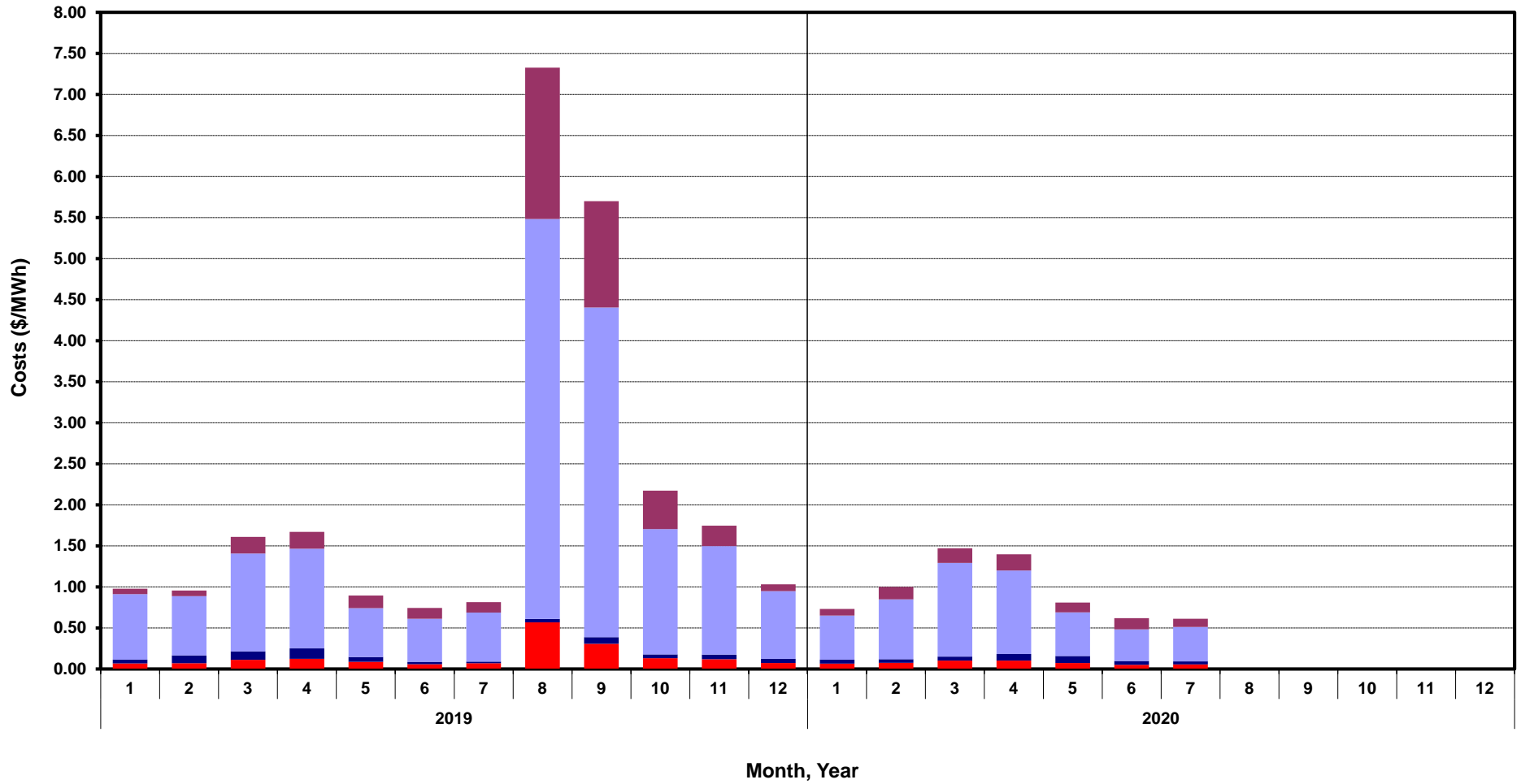
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Monthly Average A/S Cost per MWh Load

RegUp RegDn RRS NonSpin



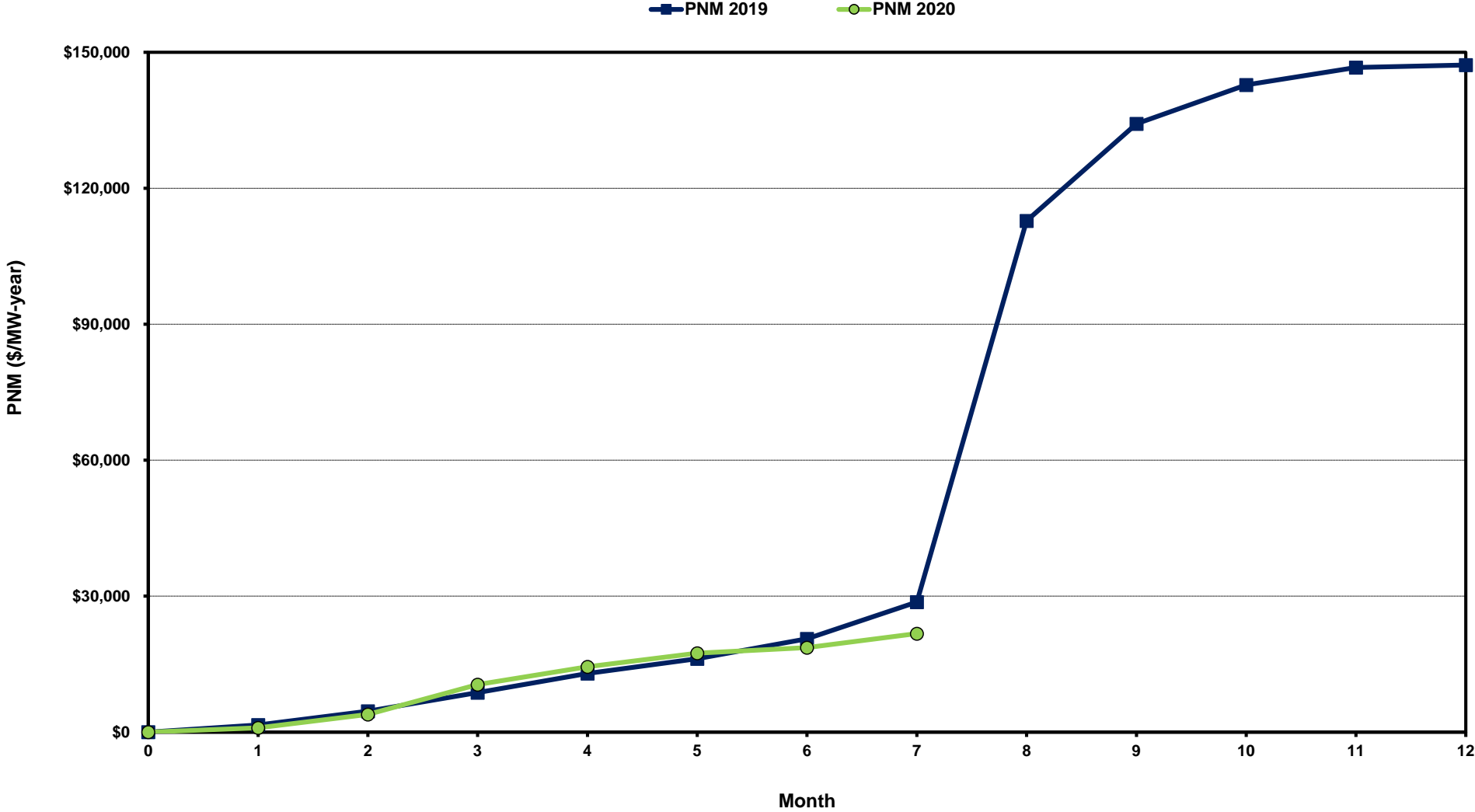
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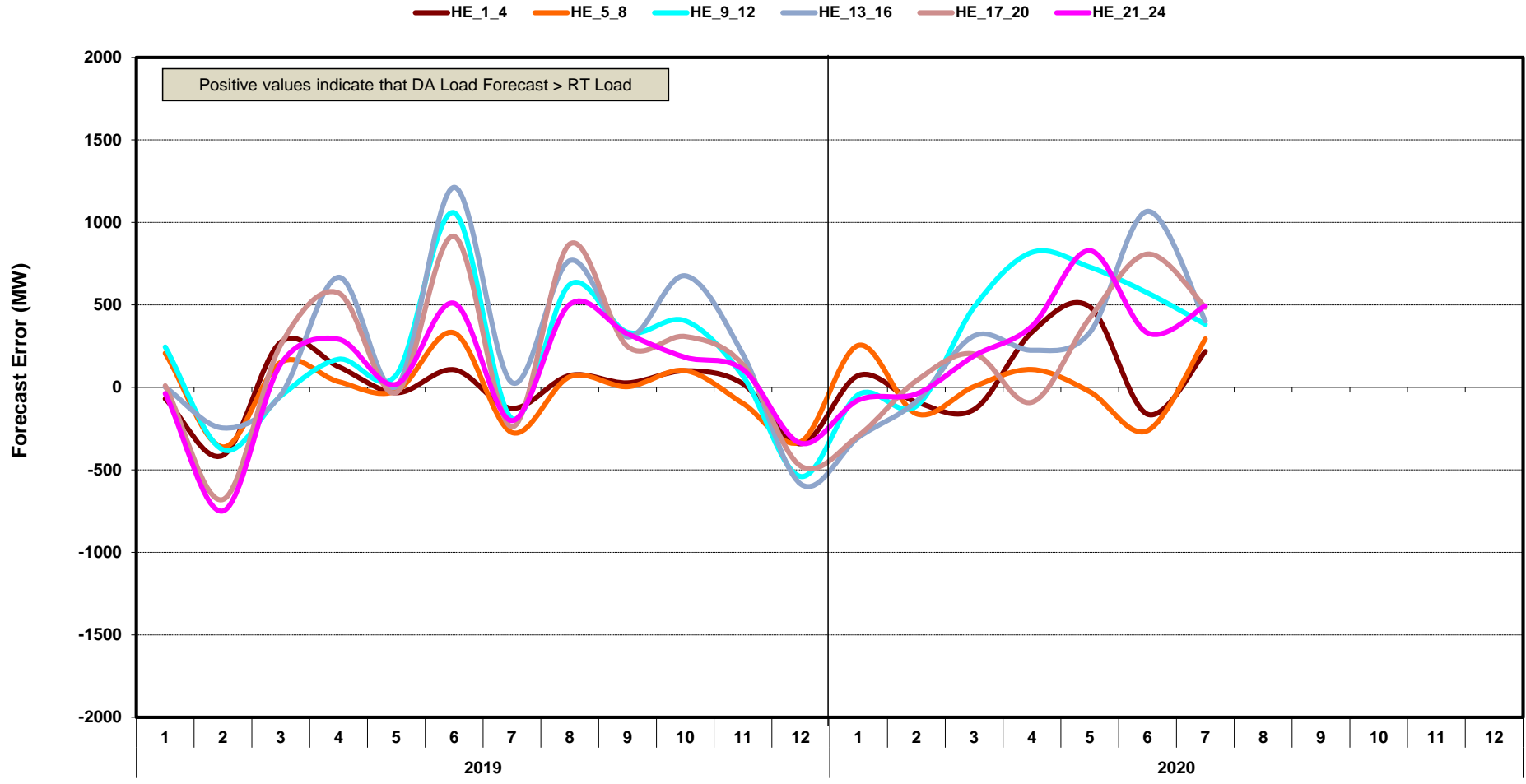
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ERCOT-wide Cumulative Peaker Net Margin



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DA vs. RT Load Forecast Error by Hour Ending



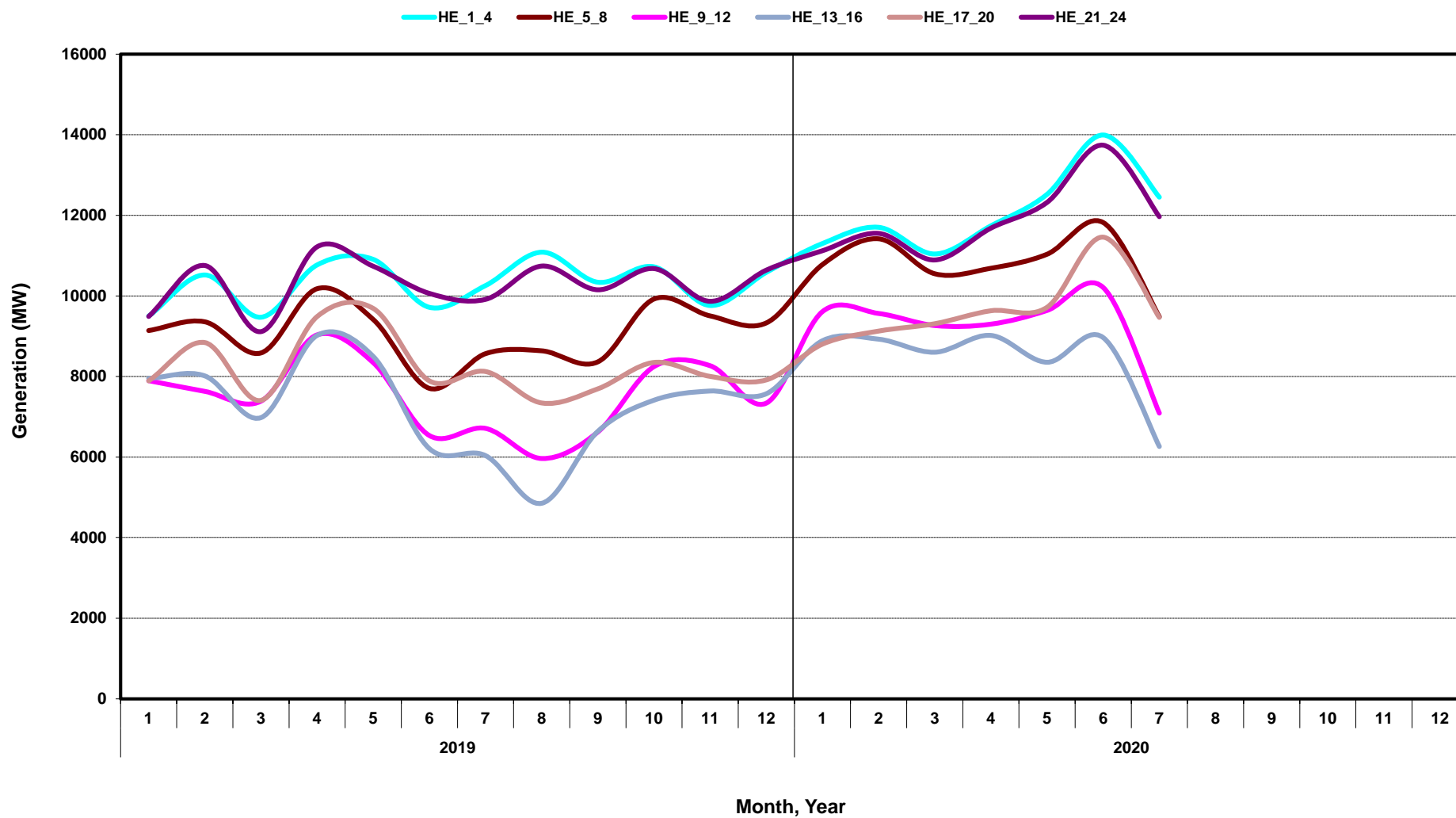
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Monthly Average of Wind Generation by Hour Ending



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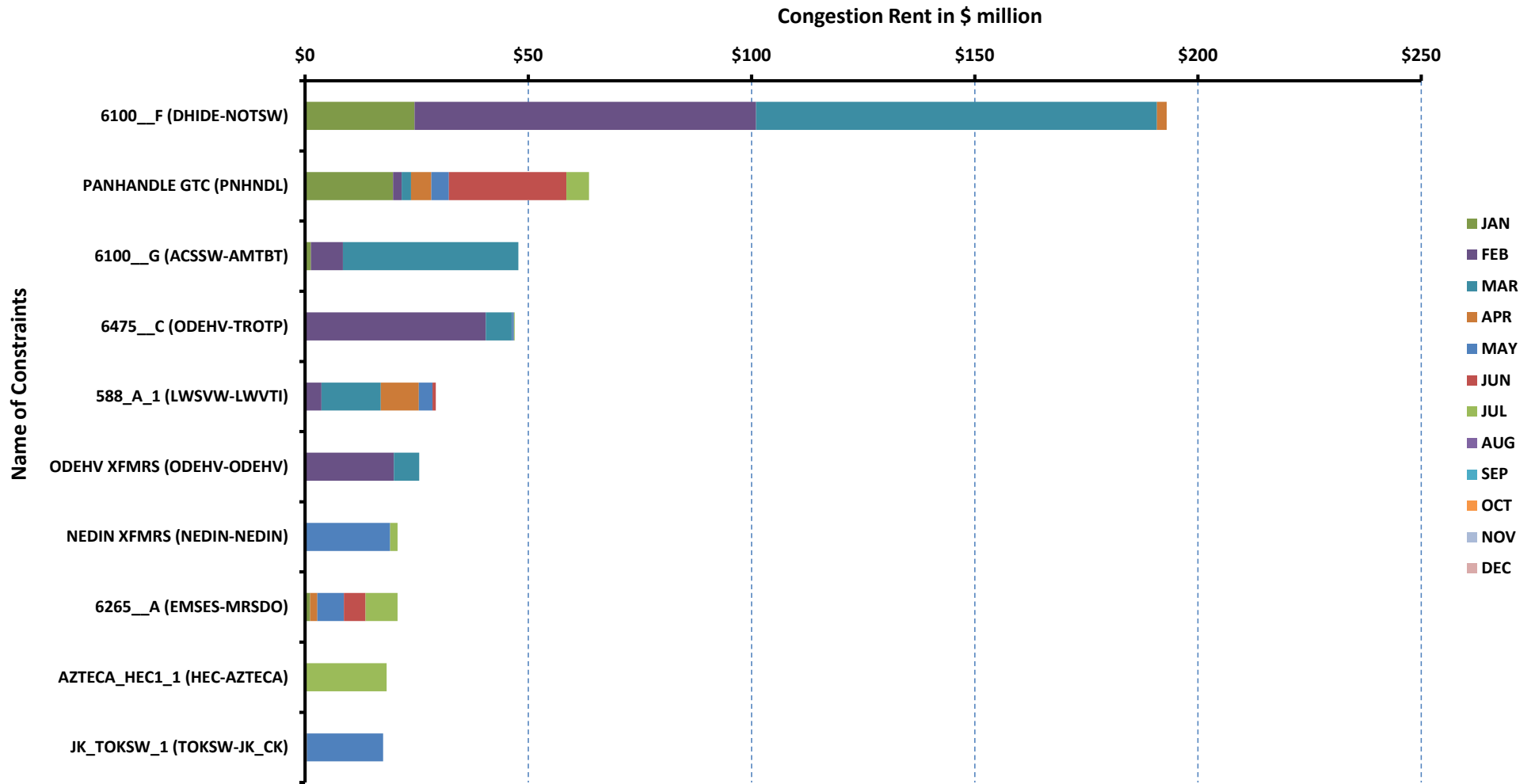
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RT Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Value - 2019



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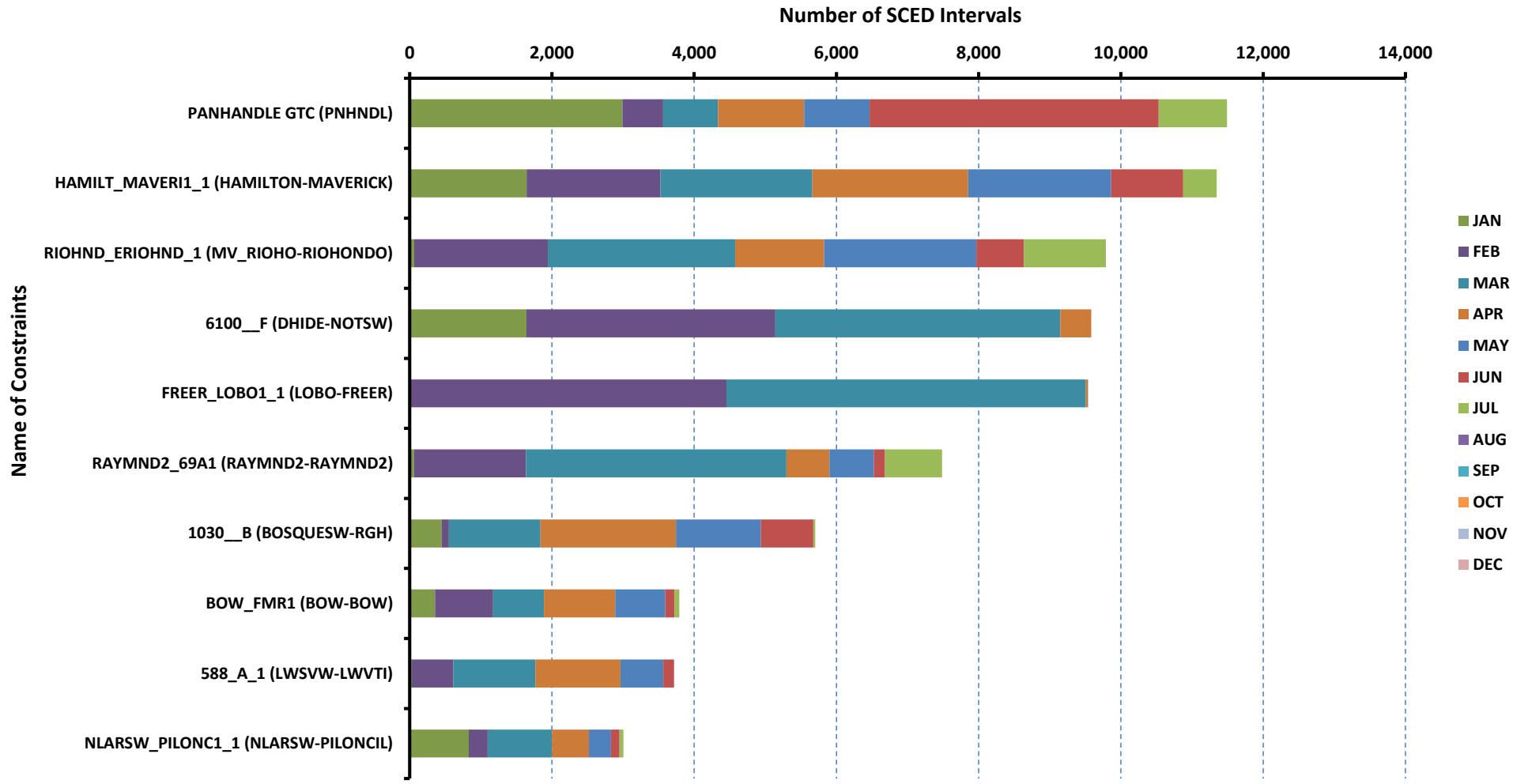
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RT Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency - 2019



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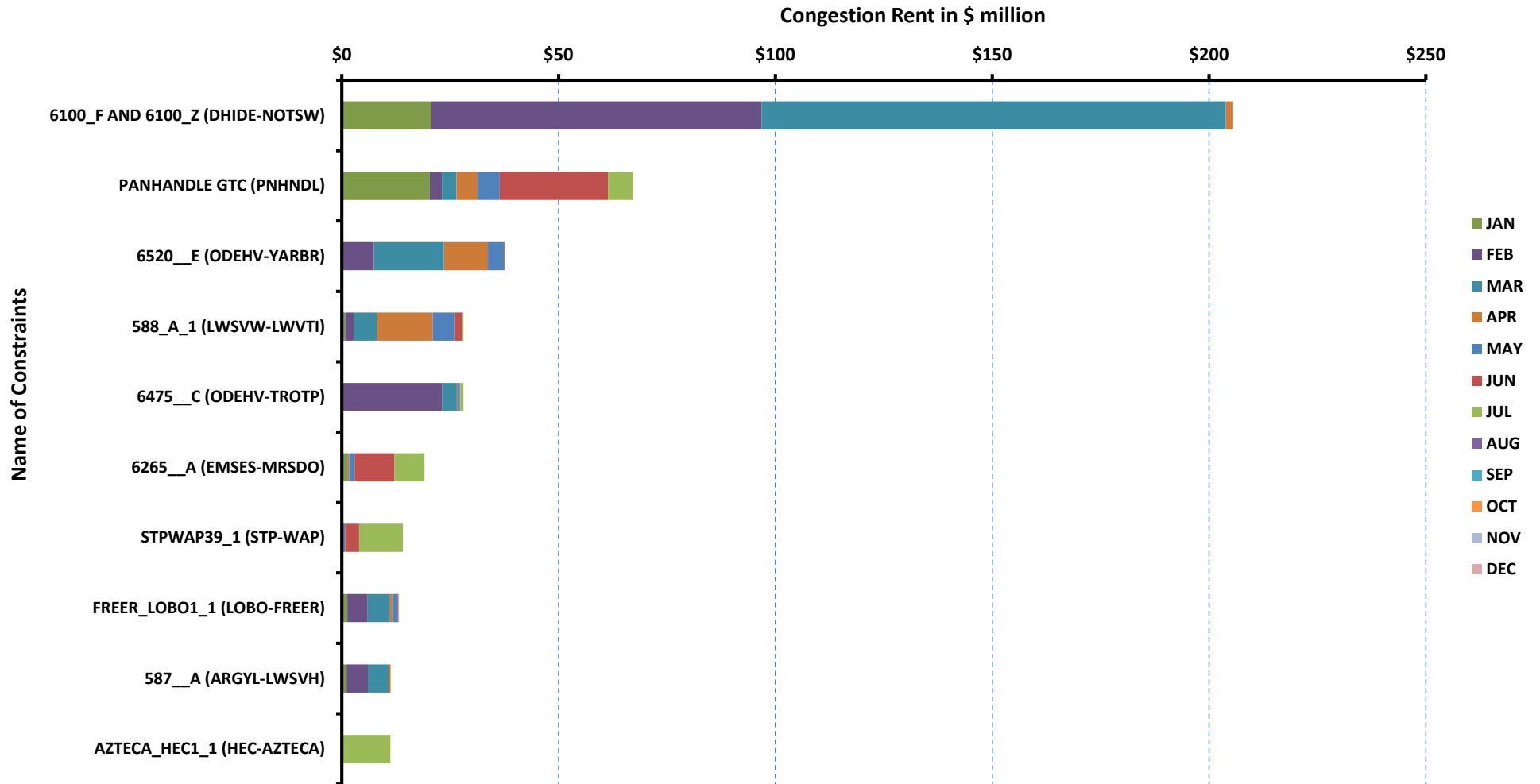
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DA Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Value - 2019



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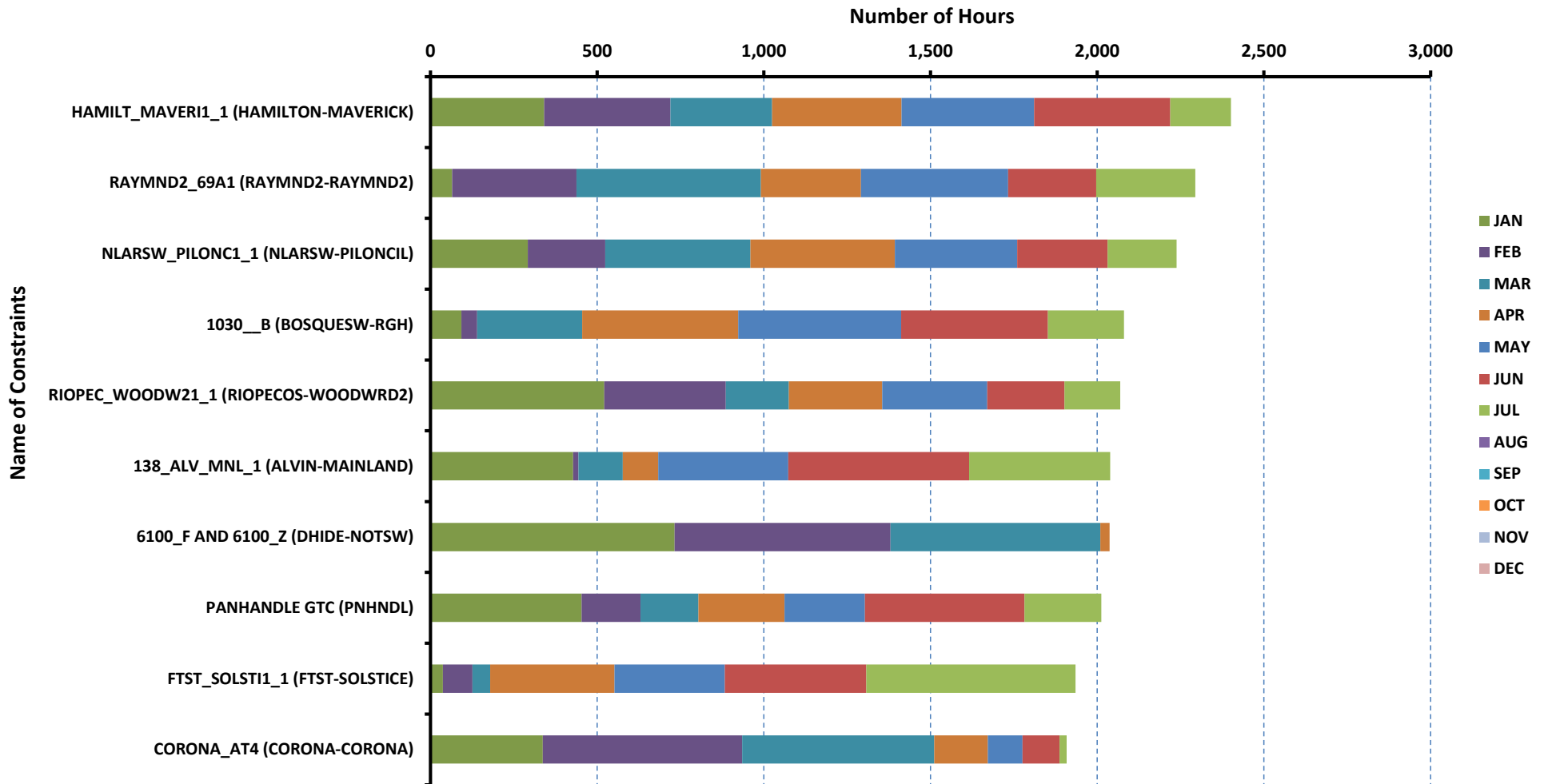
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DA Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency - 2019



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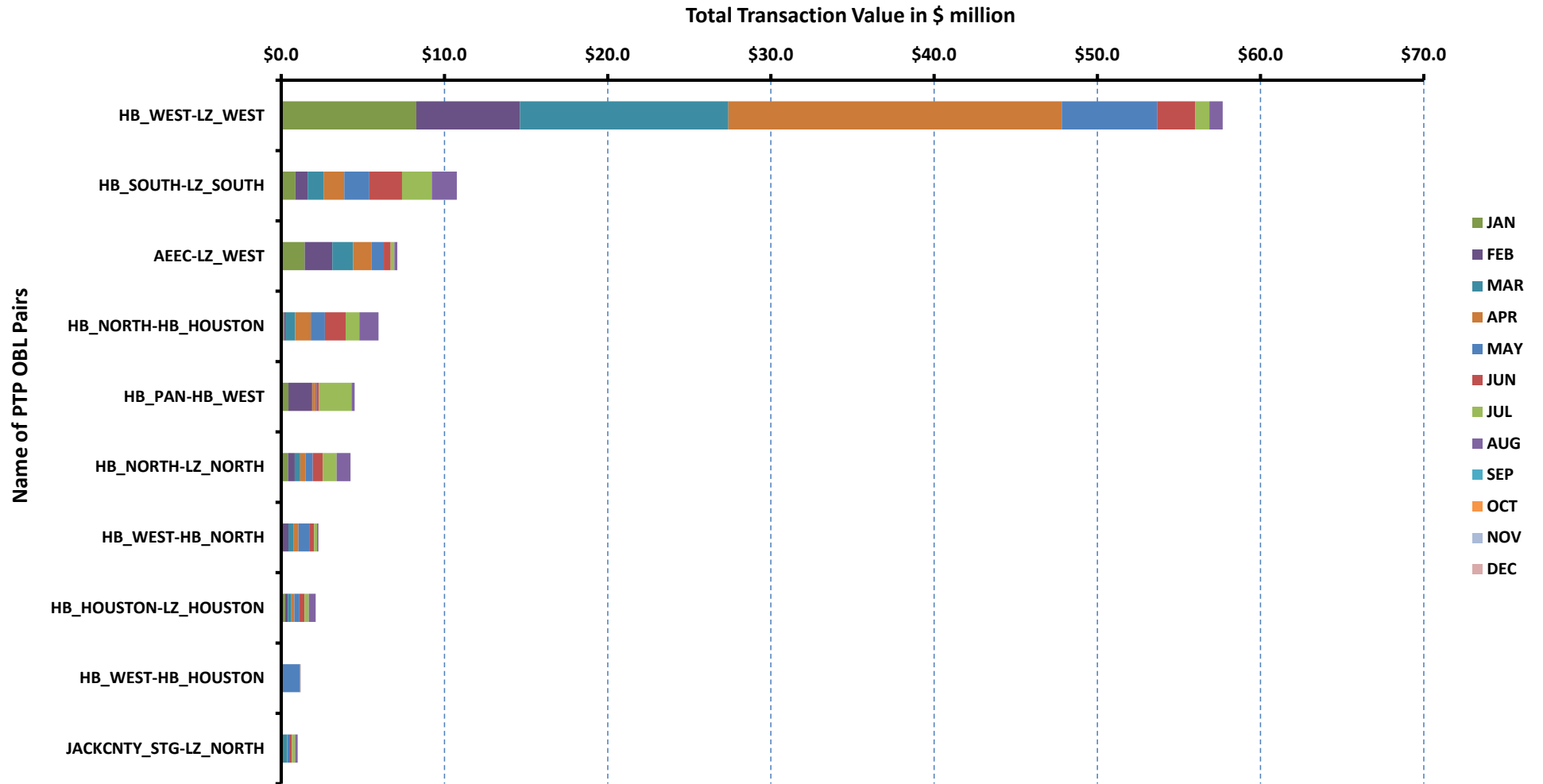
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 1

Top 10 PTP Obligations by Total Transaction Value - 2019



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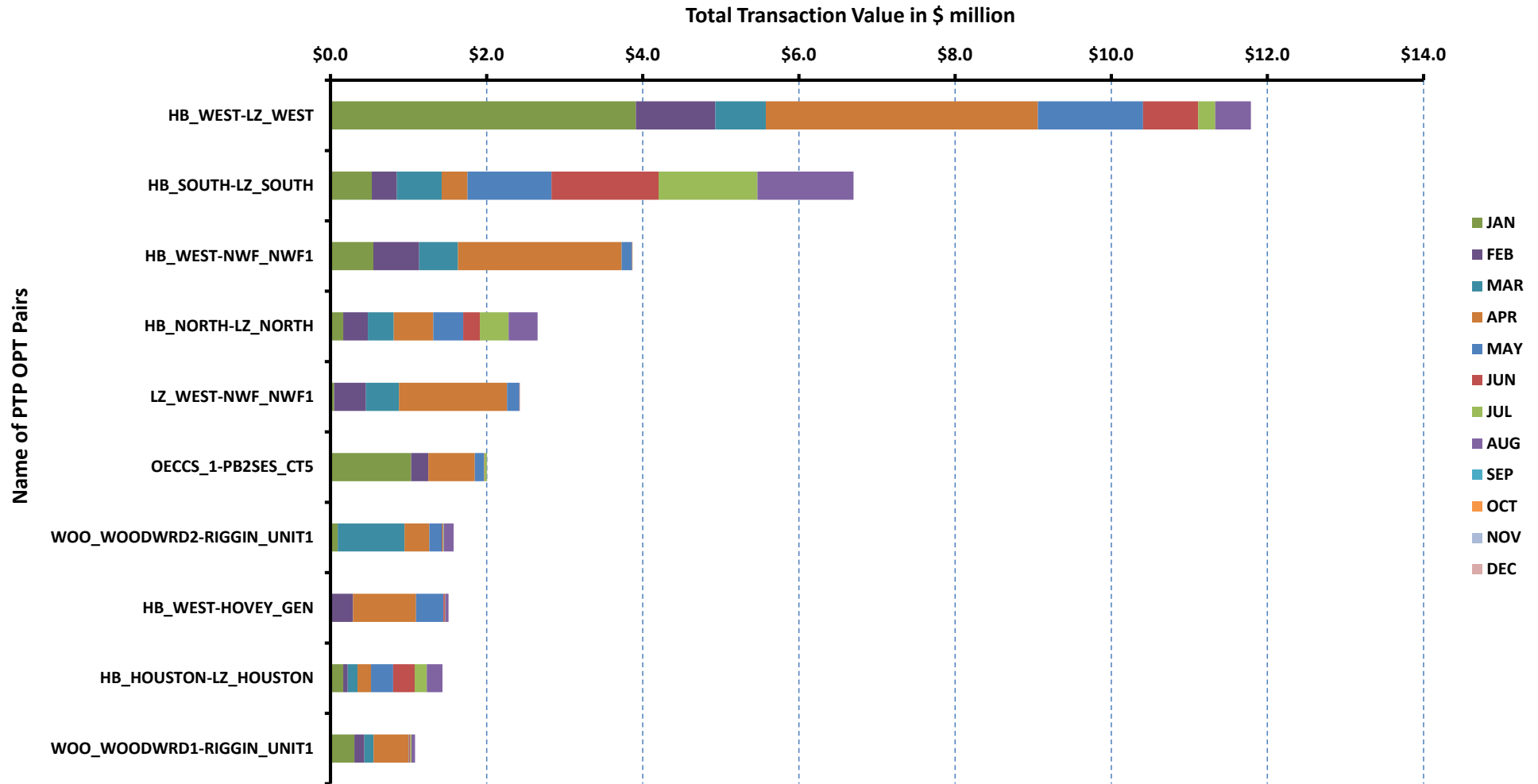
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 2

Top 10 PTP Options by Total Transaction Value - 2019



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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 | \$ 23.70 | \$ 26.13 |
| | 3 | \$ 30.87 | \$ 31.87 |
| | 4 | \$ 22.88 | \$ 21.06 |
| | 5 | \$ 20.92 | \$ 20.72 |
| | 6 | \$ 21.13 | \$ 16.13 |
| | 7 | \$ 25.73 | \$ 21.81 |
| | 8 | \$ - | \$ - |
| | 9 | \$ - | \$ - |
| | 10 | \$ - | \$ - |
| | 11 | \$ - | \$ - |
| | 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 | 12,764 | 22,127 | 15,953 | 6,154 | 10,074 | 14,586 | 10,237 | 5,352 | | |
| | 3 | 15,889 | 17,180 | 14,814 | 5,679 | 10,783 | 12,306 | 9,899 | 4,985 | | |
| | 4 | 15,919 | 19,484 | 16,207 | 5,724 | 10,406 | 12,159 | 10,058 | 4,831 | | |
| | 5 | 17,834 | 23,352 | 18,052 | 5,880 | 11,868 | 13,906 | 11,631 | 4,642 | | |
| | 6 | 18,946 | 25,645 | 19,077 | 6,490 | 13,429 | 17,666 | 12,954 | 5,293 | | |
| | 7 | 19,882 | 28,172 | 20,082 | 6,763 | 14,409 | 19,676 | 14,441 | 5,651 | | |
| | 8 | - | - | - | - | - | - | - | - | - | |
| | 9 | - | - | - | - | - | - | - | - | - | |
| | 10 | - | - | - | - | - | - | - | - | - | |
| | 11 | - | - | - | - | - | - | - | - | - | |
| | 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 | \$ 27.02 | \$ 26.01 | \$ 25.72 | \$ 69.02 | \$ 25.88 | \$ 24.93 | \$ 25.52 | \$ 66.94 |
| | 4 | \$ 21.29 | \$ 20.43 | \$ 22.73 | \$ 18.65 | \$ 22.63 | \$ 22.33 | \$ 23.82 | \$ 22.87 |
| | 5 | \$ 23.27 | \$ 18.12 | \$ 23.42 | \$ 15.20 | \$ 21.41 | \$ 20.28 | \$ 21.50 | \$ 20.10 |
| | 6 | \$ 16.54 | \$ 16.37 | \$ 15.77 | \$ 15.14 | \$ 21.36 | \$ 21.51 | \$ 21.06 | \$ 19.46 |
| | 7 | \$ 21.39 | \$ 21.39 | \$ 23.78 | \$ 19.32 | \$ 26.18 | \$ 25.72 | \$ 26.00 | \$ 23.88 |
| | 8 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | 9 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | 10 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | 11 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | 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 | \$ 26.13 | 14.25 | \$ 23.70 | 12.92 |
| | 3 | \$ 1.68 | \$ 31.87 | 18.98 | \$ 30.87 | 18.38 |
| | 4 | \$ 1.65 | \$ 21.06 | 12.73 | \$ 22.88 | 13.83 |
| | 5 | \$ 1.70 | \$ 20.72 | 12.19 | \$ 20.92 | 12.31 |
| | 6 | \$ 1.57 | \$ 16.13 | 10.30 | \$ 21.13 | 13.49 |
| | 7 | \$ 1.70 | \$ 21.81 | 12.80 | \$ 25.73 | 15.09 |
| | 8 | \$ - | \$ - | - | \$ - | - |
| | 9 | \$ - | \$ - | - | \$ - | - |
| | 10 | \$ - | \$ - | - | \$ - | - |
| | 11 | \$ - | \$ - | - | \$ - | - |
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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 | 15.20 | 14.85 | 39.86 | 16.09 | 15.32 | 15.49 | 41.10 |
| | 4 | 13.68 | 14.40 | 13.50 | 13.83 | 12.87 | 13.74 | 12.35 | 11.27 |
| | 5 | 12.59 | 12.65 | 11.93 | 11.83 | 13.69 | 13.78 | 10.66 | 8.94 |
| | 6 | 13.64 | 13.45 | 13.73 | 12.42 | 10.56 | 10.07 | 10.45 | 9.67 |
| | 7 | 15.36 | 15.25 | 15.09 | 14.01 | 12.55 | 13.96 | 12.55 | 11.33 |
| | 8 | - | - | - | - | - | - | - | - |
| | 9 | - | - | - | - | - | - | - | - |
| | 10 | - | - | - | - | - | - | - | - |
| | 11 | - | - | - | - | - | - | - | - |
| | 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 | 7 | 1 | \$ 0.93 | \$ - | 18 | 0 | 80 | 90 |
| 2020 | 7 | 2 | \$ 0.03 | \$ - | 4 | 0 | 80 | 90 |
| 2020 | 7 | 3 | \$ 43.87 | \$ - | 28 | 0 | 80 | 90 |
| 2020 | 7 | 4 | \$ 33.79 | \$ - | 24 | 0 | 80 | 90 |
| 2020 | 7 | 5 | \$ 4.77 | \$ - | 19 | 0 | 80 | 90 |
| 2020 | 7 | 6 | \$ 24.79 | \$ - | 5 | 0 | 80 | 90 |
| 2020 | 7 | 7 | \$ 0.13 | \$ - | 16 | 0 | 80 | 90 |
| 2020 | 7 | 8 | \$ 0.77 | \$ - | 22 | 0 | 80 | 90 |
| 2020 | 7 | 9 | \$ 0.03 | \$ - | 9 | 0 | 80 | 90 |
| 2020 | 7 | 10 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 11 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 12 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 13 | \$ 0.04 | \$ - | 6 | 0 | 80 | 90 |
| 2020 | 7 | 14 | \$ 0.02 | \$ - | 6 | 0 | 80 | 90 |
| 2020 | 7 | 15 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 16 | \$ 3.17 | \$ - | 21 | 0 | 80 | 90 |
| 2020 | 7 | 17 | \$ 0.01 | \$ - | 5 | 0 | 80 | 90 |
| 2020 | 7 | 18 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 19 | \$ 3.38 | \$ - | 21 | 0 | 80 | 90 |
| 2020 | 7 | 20 | \$ 3.41 | \$ - | 20 | 0 | 80 | 90 |
| 2020 | 7 | 21 | \$ 1.77 | \$ - | 38 | 0 | 80 | 90 |
| 2020 | 7 | 22 | \$ 5.53 | \$ - | 43 | 0 | 80 | 90 |
| 2020 | 7 | 23 | \$ 4.65 | \$ - | 35 | 0 | 80 | 90 |
| 2020 | 7 | 24 | \$ 4.50 | \$ - | 17 | 0 | 80 | 90 |
| 2020 | 7 | 25 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 26 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 27 | \$ 16.29 | \$ - | 31 | 0 | 80 | 90 |
| 2020 | 7 | 28 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 29 | \$ - | \$ - | 0 | 0 | 80 | 90 |
| 2020 | 7 | 30 | \$ 0.04 | \$ 0.72 | 6 | 32 | 80 | 90 |
| 2020 | 7 | 31 | \$ - | \$ 0.31 | 0 | 33 | 80 | 90 |

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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 | - | - | - | - |
| | 9 | - | - | - | - |
| | 10 | - | - | - | - |
| | 11 | - | - | - | - |
| | 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 | 364 | 1,163 | 2,850 | 223 |
| | 2 | 282 | 1,163 | 2,850 | 205 |
| | 3 | 244 | 1,334 | 2,867 | 223 |
| | 4 | 199 | 1,333 | 2,868 | 236 |
| | 5 | 191 | 1,333 | 2,868 | 302 |
| | 6 | 270 | 1,333 | 2,868 | 447 |
| | 7 | 249 | 1,891 | 2,750 | 581 |
| | 8 | 233 | 1,891 | 2,750 | 382 |
| | 9 | 254 | 1,891 | 2,750 | 360 |
| | 10 | 260 | 1,891 | 2,750 | 396 |
| | 11 | 254 | 1,565 | 2,681 | 403 |
| | 12 | 234 | 1,565 | 2,681 | 393 |
| | 13 | 220 | 1,565 | 2,681 | 353 |
| | 14 | 259 | 1,565 | 2,681 | 314 |
| | 15 | 231 | 1,383 | 2,661 | 283 |
| | 16 | 208 | 1,383 | 2,661 | 284 |
| | 17 | 233 | 1,383 | 2,661 | 272 |
| | 18 | 276 | 1,383 | 2,661 | 298 |
| | 19 | 368 | 1,538 | 2,681 | 301 |
| | 20 | 369 | 1,538 | 2,681 | 264 |
| | 21 | 361 | 1,538 | 2,681 | 230 |
| | 22 | 454 | 1,538 | 2,681 | 215 |
| | 23 | 501 | 1,163 | 2,850 | 220 |
| | 24 | 452 | 1,163 | 2,850 | 230 |

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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 | \$ - | \$ - | \$ - | \$ - |
| | 9 | \$ - | \$ - | \$ - | \$ - |
| | 10 | \$ - | \$ - | \$ - | \$ - |
| | 11 | \$ - | \$ - | \$ - | \$ - |
| | 12 | \$ - | \$ - | \$ - | \$ - |

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| Monthly Average A/S Cost per MWh Load | | | | | |
|---------------------------------------|-------|--------------|--------------|------------|--------------|
| year | month | AScost_REGDN | AScost_NSPIN | 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 | \$ - | \$ - | \$ - | \$ - |
| | 9 | \$ - | \$ - | \$ - | \$ - |
| | 10 | \$ - | \$ - | \$ - | \$ - |
| | 11 | \$ - | \$ - | \$ - | \$ - |
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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 | \$ 3,082.60 | \$ 21,747.16 |
| | 8 | \$ - | \$ - |
| | 9 | \$ - | \$ - |
| | 10 | \$ - | \$ - |
| | 11 | \$ - | \$ - |
| | 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 | - | - | - | - | - | - |
| | 9 | - | - | - | - | - | - |
| | 10 | - | - | - | - | - | - |
| | 11 | - | - | - | - | - | - |
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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 | - | - | - | - | - | - |
| | 9 | - | - | - | - | - | - |
| | 10 | - | - | - | - | - | - |
| | 11 | - | - | - | - | - | - |
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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) | 11,491 | 1 | 2,990 | 573 | 774 | 1,210 | 919 | 4,063 | 962 | - | - | - | - | - |
| FREQ_EXIST | 2020 | HAMILT MAVER11_1 (HAMILTON-MAVERICK) | 11,345 | 2 | 1,645 | 1,879 | 2,137 | 2,191 | 2,011 | 1,013 | 469 | - | - | - | - | - |
| FREQ_EXIST | 2020 | RIOHND_ERIOHND_1 (MV RIOHO-RIOHONDO) | 9,789 | 3 | 63 | 1,879 | 2,634 | 1,251 | 2,139 | 669 | 1,154 | - | - | - | - | - |
| FREQ_EXIST | 2020 | 6100_F (DHIIDE-NOTSW) | 9,582 | 4 | 1,642 | 3,500 | 4,006 | 434 | - | - | - | - | - | - | - | - |
| FREQ_EXIST | 2020 | FREER_LOBO1_1 (LOBO-FREER) | 9,537 | 5 | 14 | 4,439 | 5,054 | 28 | 2 | - | - | - | - | - | - | - |
| FREQ_EXIST | 2020 | RAYMND2_69A1 (RAYMND2-RAYMND2) | 7,485 | 6 | 62 | 1,573 | 3,663 | 605 | 623 | 157 | 802 | - | - | - | - | - |
| FREQ_EXIST | 2020 | 1030_B (BOSQUESW-RGH) | 5,703 | 7 | 450 | 100 | 1,289 | 1,904 | 1,196 | 736 | 28 | - | - | - | - | - |
| FREQ_EXIST | 2020 | BOW_FMR1 (BOW-BOW) | 3,791 | 8 | 356 | 817 | 715 | 1,001 | 706 | 127 | 69 | - | - | - | - | - |
| FREQ_EXIST | 2020 | 588_A_1 (LWSVW-LWVTI) | 3,716 | 9 | 30 | 582 | 1,155 | 1,198 | 600 | 151 | - | - | - | - | - | - |
| FREQ_EXIST | 2020 | NLARSW_PILONC1_1 (NLARSW-PILONCIL) | 3,005 | 10 | 832 | 265 | 904 | 518 | 312 | 118 | 56 | - | - | - | - | - |
| TOP10_RENT | 2020 | 6100_F (DHIIDE-NOTSW) | \$ 192.97 | 1 | \$ 24.52 | \$ 76.51 | \$ 89.80 | \$ 2.14 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | PANHANDLE GTC (PNHNDL) | \$ 63.62 | 2 | \$ 19.72 | \$ 1.94 | \$ 2.07 | \$ 4.53 | \$ 3.96 | \$ 26.32 | \$ 5.08 | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | 6100_G (ACSSW-AMTBT) | \$ 47.79 | 3 | \$ 1.31 | \$ 7.16 | \$ 39.32 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | 6475_C (ODEHV-TROTP) | \$ 46.96 | 4 | \$ - | \$ 40.50 | \$ 5.85 | \$ 0.00 | \$ 0.41 | \$ - | \$ 0.19 | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | 588_A_1 (LWSVW-LWVTI) | \$ 29.27 | 5 | \$ 0.13 | \$ 3.52 | \$ 13.33 | \$ 8.51 | \$ 3.04 | \$ 0.74 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | ODEHV_XFMRS (ODEHV-ODEHV) | \$ 25.59 | 6 | \$ - | \$ 19.91 | \$ 5.68 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | NEDIN_XFMRS (NEDIN-NEDIN) | \$ 20.72 | 7 | \$ - | \$ - | \$ - | \$ 0.00 | \$ 19.06 | \$ - | \$ 1.66 | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | 6265_A (EMSES-MRSDO) | \$ 20.71 | 8 | \$ 1.14 | \$ - | \$ - | \$ 1.61 | \$ 5.96 | \$ 4.84 | \$ 7.17 | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | AZTECA_HEC1_1 (HEC-AZTECA) | \$ 18.25 | 9 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 18.25 | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOP10_RENT | 2020 | JK_TOKSW_1 (TOKSW-JK_CK) | \$ 17.48 | 10 | \$ - | \$ - | \$ 0.01 | \$ 0.40 | \$ 17.07 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

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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) | 2,401 | 1 | 341 | 379 | 305 | 388 | 398 | 408 | 182 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | RAYMND2_69A1 (RAYMND2-RAYMND2) | 2,294 | 2 | 65 | 373 | 553 | 300 | 442 | 264 | 297 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | NLARSW_PILONC1_1 (NLARSW-PILONCIL) | 2,238 | 3 | 292 | 232 | 436 | 433 | 367 | 271 | 207 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | 1030_B (BOSQUESW-RGH) | 2,080 | 4 | 93 | 47 | 315 | 468 | 489 | 440 | 228 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | RIOPEC_WOODW21_1 (RIOPECOS-WOODWRD2) | 2,069 | 5 | 521 | 365 | 189 | 280 | 315 | 232 | 167 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | 138_ALV_MNL_1 (ALVIN-MAINLAND) | 2,039 | 6 | 428 | 16 | 133 | 106 | 390 | 543 | 423 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | 6100_F AND 6100_Z (DHIDE-NOTSW) | 2,037 | 7 | 732 | 648 | 629 | 28 | - | - | - | - | - | - | - | - | |
| FREQ_EXIST | 2020 | PANHANDLE_GTC (PNHNDL) | 2,012 | 8 | 453 | 177 | 174 | 258 | 241 | 479 | 230 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | FTST_SOLSTI1_1 (FTST-SOLSTICE) | 1,935 | 9 | 37 | 89 | 53 | 373 | 331 | 424 | 628 | - | - | - | - | - | |
| FREQ_EXIST | 2020 | CORONA_AT4 (CORONA-CORONA) | 1,908 | 10 | 337 | 598 | 576 | 161 | 104 | 111 | 21 | - | - | - | - | - | |
| TOP10_RENT | 2020 | 6100_F AND 6100_Z (DHIDE-NOTSW) | \$ 205.56 | 1 | \$ 20.58 | \$ 76.21 | \$ 107.05 | \$ 1.73 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | PANHANDLE_GTC (PNHNDL) | \$ 67.19 | 2 | \$ 20.27 | \$ 2.80 | \$ 3.38 | \$ 4.88 | \$ 5.06 | \$ 25.00 | \$ 5.80 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 6520_E (ODEHV-YARBR) | \$ 37.58 | 3 | \$ - | \$ 7.35 | \$ 16.19 | \$ 10.17 | \$ 3.68 | \$ 0.15 | \$ 0.04 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 588_A_1 (LWSVW-LWVTI) | \$ 28.06 | 4 | \$ 0.76 | \$ 1.98 | \$ 5.35 | \$ 12.86 | \$ 4.99 | \$ 1.83 | \$ 0.29 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 6475_C (ODEHV-TROTP) | \$ 28.05 | 5 | \$ - | \$ 23.18 | \$ 3.34 | \$ 0.20 | \$ 0.53 | \$ 0.09 | \$ 0.71 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 6265_A (EMSES-MRSDO) | \$ 19.05 | 6 | \$ 1.33 | \$ 0.10 | \$ 0.00 | \$ 0.28 | \$ 1.23 | \$ 9.23 | \$ 6.87 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | STPWAP39_1 (STP-WAP) | \$ 14.08 | 7 | \$ 0.00 | \$ 0.07 | \$ 0.00 | \$ 0.08 | \$ 0.62 | \$ 3.21 | \$ 10.08 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | FREER_LOBO1_1 (LOBO-FREER) | \$ 13.18 | 8 | \$ 1.26 | \$ 4.71 | \$ 4.96 | \$ 0.63 | \$ 1.27 | \$ 0.20 | \$ 0.14 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | 587_A (ARGYL-LWSVH) | \$ 11.25 | 9 | \$ 1.07 | \$ 4.96 | \$ 4.76 | \$ 0.46 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| TOP10_RENT | 2020 | AZTECA_HEC1_1 (HEC-AZTECA) | \$ 11.22 | 10 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 0.00 | \$ 11.22 | \$ - | \$ - | \$ - | \$ - | \$ - | |

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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 | \$ 57.68 | 1 | \$ 8.27 | \$ 6.36 | \$ 12.75 | \$ 20.43 | \$ 5.85 | \$ 2.33 | \$ 0.88 | \$ 0.81 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB SOUTH-LZ SOUTH | \$ 10.76 | 2 | \$ 0.87 | \$ 0.75 | \$ 1.00 | \$ 1.25 | \$ 1.54 | \$ 2.00 | \$ 1.83 | \$ 1.53 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | AEEC-LZ WEST | \$ 7.12 | 3 | \$ 1.44 | \$ 1.69 | \$ 1.27 | \$ 1.14 | \$ 0.74 | \$ 0.43 | \$ 0.22 | \$ 0.18 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB NORTH-HB HOUSTON | \$ 5.96 | 4 | \$ 0.18 | \$ 0.10 | \$ 0.58 | \$ 0.95 | \$ 0.87 | \$ 1.27 | \$ 0.84 | \$ 1.18 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB PAN-HB WEST | \$ 4.50 | 5 | \$ 0.44 | \$ 1.45 | \$ 0.01 | \$ 0.18 | \$ 0.08 | \$ 0.15 | \$ 2.00 | \$ 0.19 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB NORTH-LZ NORTH | \$ 4.24 | 6 | \$ 0.41 | \$ 0.42 | \$ 0.34 | \$ 0.33 | \$ 0.44 | \$ 0.60 | \$ 0.86 | \$ 0.85 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB WEST-HB NORTH | \$ 2.27 | 7 | \$ 0.00 | \$ 0.44 | \$ 0.33 | \$ 0.28 | \$ 0.66 | \$ 0.30 | \$ 0.18 | \$ 0.07 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB HOUSTON-LZ HOUSTON | \$ 2.11 | 8 | \$ 0.24 | \$ 0.17 | \$ 0.21 | \$ 0.19 | \$ 0.31 | \$ 0.31 | \$ 0.26 | \$ 0.43 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | HB WEST-HB HOUSTON | \$ 1.18 | 9 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.01 | \$ 1.13 | \$ 0.01 | \$ 0.02 | \$ 0.00 | \$ - | \$ - | \$ - | \$ - | |
| N | 2020 | JACKCNTY STG-LZ NORTH | \$ 1.00 | 10 | \$ 0.03 | \$ 0.00 | \$ 0.33 | \$ 0.01 | \$ 0.11 | \$ 0.17 | \$ 0.19 | \$ 0.15 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB WEST-LZ WEST | \$ 11.79 | 1 | \$ 3.91 | \$ 1.02 | \$ 0.85 | \$ 3.48 | \$ 1.35 | \$ 0.71 | \$ 0.22 | \$ 0.46 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB SOUTH-LZ SOUTH | \$ 6.70 | 2 | \$ 0.53 | \$ 0.32 | \$ 0.57 | \$ 0.33 | \$ 1.08 | \$ 1.37 | \$ 1.27 | \$ 1.23 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB WEST-NWF NWF1 | \$ 3.87 | 3 | \$ 0.55 | \$ 0.59 | \$ 0.50 | \$ 2.10 | \$ 0.13 | \$ 0.01 | \$ 0.00 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB NORTH-LZ NORTH | \$ 2.65 | 4 | \$ 0.16 | \$ 0.32 | \$ 0.33 | \$ 0.51 | \$ 0.38 | \$ 0.21 | \$ 0.37 | \$ 0.37 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | LZ WEST-NWF NWF1 | \$ 2.42 | 5 | \$ 0.05 | \$ 0.41 | \$ 0.43 | \$ 1.38 | \$ 0.16 | \$ 0.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | OECCS 1-PB2SES CT5 | \$ 2.00 | 6 | \$ 1.03 | \$ 0.22 | \$ - | \$ 0.59 | \$ 0.12 | \$ 0.01 | \$ 0.03 | \$ 0.00 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | WOO WOODWRD2-RIGGIN UNIT1 | \$ 1.58 | 7 | \$ 0.09 | \$ - | \$ 0.85 | \$ 0.32 | \$ 0.16 | \$ 0.01 | \$ 0.01 | \$ 0.13 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB WEST-HOVEY GEN | \$ 1.51 | 8 | \$ - | \$ 0.29 | \$ - | \$ 0.81 | \$ 0.35 | \$ 0.02 | \$ 0.00 | \$ 0.04 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | HB HOUSTON-LZ HOUSTON | \$ 1.43 | 9 | \$ 0.16 | \$ 0.06 | \$ 0.13 | \$ 0.17 | \$ 0.28 | \$ 0.27 | \$ 0.16 | \$ 0.20 | \$ - | \$ - | \$ - | \$ - | |
| Y | 2020 | WOO WOODWRD1-RIGGIN UNIT1 | \$ 1.08 | 10 | \$ 0.31 | \$ 0.13 | \$ 0.12 | \$ 0.45 | \$ 0.01 | \$ 0.02 | \$ 0.01 | \$ 0.04 | \$ - | \$ - | \$ - | \$ - | |

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