

## Insights on COVID-19 Crisis Electricity Demand Destruction - Update

Oct 8, 2020

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This daily update on electricity demand destruction uses data available through 07Oct2020. All results are derived from hourly historical demand as published by the market administrators (NYISO, PJM, MISO, ERCOT and CAISO) and are weather-normalized and de-trended. The demand destruction statistics reported here are in percentage departure from normal given prevailing weather conditions and time-of-year.

**Note: Recent drops in temperatures in the Mid-Atlantic and the NorthEast are reducing residential AC-driven demand, suggesting a return to greater levels of demand destruction in a number of zones, as discussed in our analysis on Page 3.**

The table below shows results for all hours (7X24) for a selection of regions. More complete statistics are posted daily at [www.scovilleriskpartners.com](http://www.scovilleriskpartners.com).

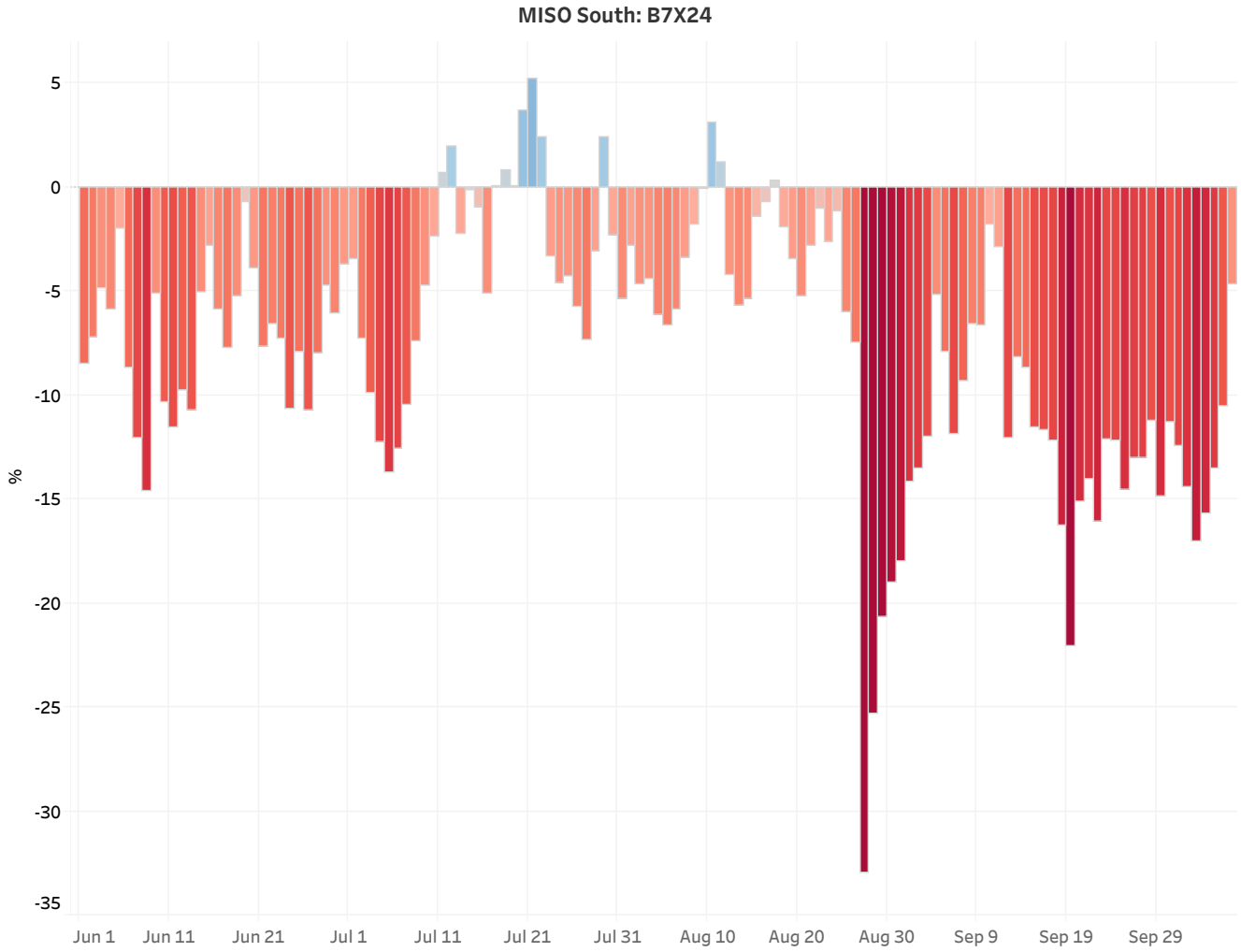
### Select Locations Load Variation All Hours

Load	As Of Date	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
NYC	10/7/2020	-13.43	-11.29	-9.31	-11.85	-10.16
NY ex NYC Area	10/7/2020	-1.52	-3.97	-2.41	-3.96	-2.84
PSEG (NJ)	10/6/2020	-3.75	-3.16	-0.99	-4.55	-2.72
PSEG Small C&I	10/7/2020	-10.20	-9.46	-9.07	-9.81	-8.57
PSEG Large C&I	10/7/2020	-15.85	-14.35	-13.39	-14.35	-13.20
PSEG Residential	10/7/2020	-5.10	-1.23	1.84	-1.64	2.08
MD	10/6/2020	-5.50	-6.43	-5.81	-7.06	-5.78
Eastern PA	10/6/2020	-5.67	-7.08	-5.84	-7.19	-5.44
Chicago Area	10/6/2020	-6.13	-6.04	-5.76	-6.51	-6.56
OH/App	10/6/2020	-1.90	-4.97	-3.95	-4.89	-3.99
MISO Central	10/7/2020	-7.50	-6.21	-6.01	-7.37	-6.23
MISO South	10/7/2020	-4.64	-12.63	-12.60	-13.63	-11.79
Texas North/East	10/7/2020	0.98	-1.88	-2.95	-2.43	-2.01
Texas South/Central	10/7/2020	5.55	5.24	1.77	-0.82	-2.17
SoCal Edison	10/7/2020	8.05	9.75	10.14	8.55	6.22

Please visit [www.scovilleriskpartners.com](http://www.scovilleriskpartners.com) for additional information and Covid-19 electricity demand impacts. Technical questions can be addressed to Glen Swindle at [glenswindle@scovilleriskpartners.com](mailto:glenswindle@scovilleriskpartners.com).

### MISO South: Impact of Hurricane Laura and Hurricane Sally

We are continuing to track the impact and rebound from Hurricane Laura and Hurricane Sally. The figure below shows the daily 7X24 load residuals for MISO South which includes Louisiana. Initial demand destruction levels approached 35% and are currently at roughly 4.5%.

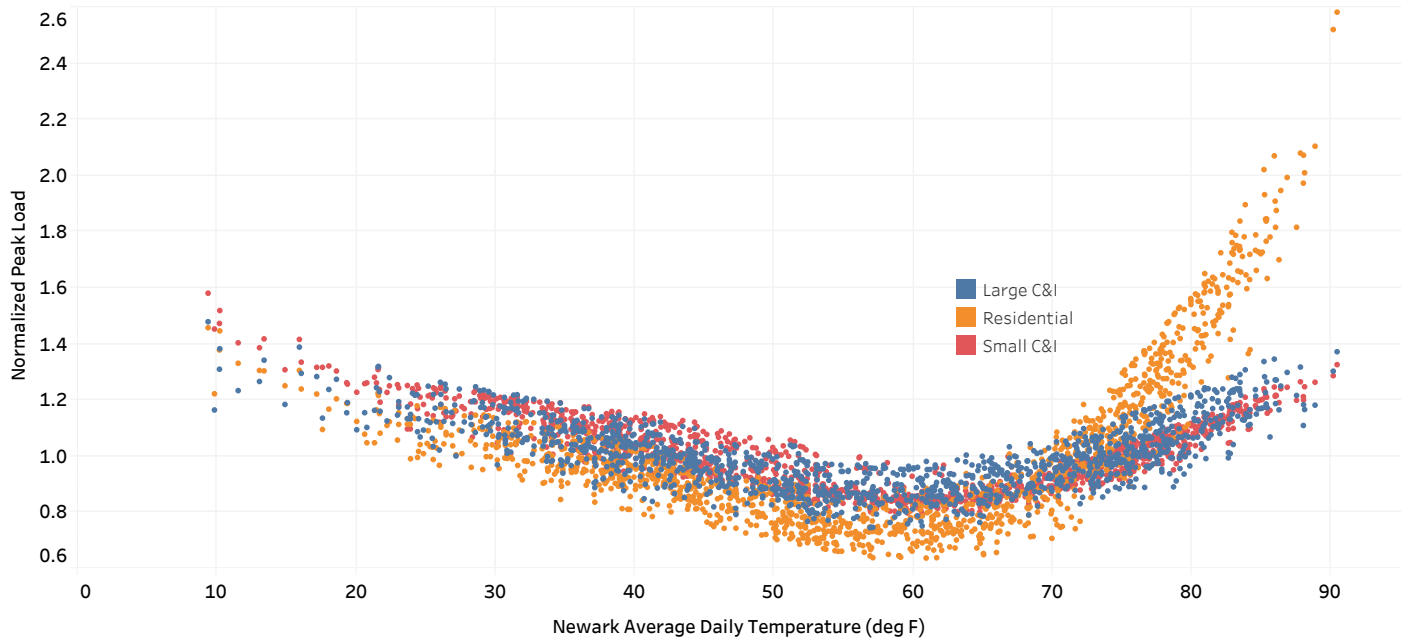


### Spurious Seasonal Return to Normal Zonal Usage

Our analysis includes the behavior of PSEG load for three classes of customers: Residential, Small C&I and Large C&I. Zonal loads are aggregates of all sources of electricity demand, with these three being the dominant components. Each of these components also responds differently to variations in temperature. The figure below shows our estimates for these PSEG load groups (normalized by the average load over the historical data sets) versus daily average temperature at Newark. Residential load, as most practitioners would expect, has the largest response to extreme temperatures.

This has important implications for demand destruction statistics at the zonal level. The general increase in residential usage caused by societal response to the COVID-19 pandemic, coupled with relatively greater residential usage at high temperatures, means that zonal loads can exhibit a return to (or at least a trend toward) normal levels even while substantial economic dislocations remain in play. This is currently the case in PSEG and likely pertains broadly across the zonal statistics shown in our report. In the absence of any fundamental change to the COVID-19 landscape, this phenomenon will likely reverse with the approach of autumn.

Estimated Normalized Peak Load by PSEG Customer Type



**NYISO Load Variation Peak Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
NYC	-13.56	-12.19	-10.55	-12.83	-11.19
NY ex NYC Area	-1.91	-2.91	-2.17	-3.39	-2.53
Hudson Valley	-5.89	-6.57	-3.35	-5.26	-2.83
Long Island	-3.56	-2.08	0.27	-3.22	-1.44

**NYISO Load Variation All Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
NYC	-13.43	-11.29	-9.31	-11.85	-10.16
NY ex NYC Area	-1.52	-3.97	-2.41	-3.96	-2.84
Hudson Valley	-5.99	-7.44	-3.88	-6.02	-3.49
Long Island	-4.17	-3.74	-0.24	-3.61	-1.71

**PJM Load Variation Peak Hours**

Load	As Of Date	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
PSEG (NJ)	10/6/2020	-4.52	-3.40	-1.73	-5.28	-3.59
PSEG Small C&I	10/7/2020	-9.71	-7.92	-7.98	-8.76	-7.69
PSEG Large C&I	10/7/2020	-16.78	-15.40	-14.74	-15.42	-14.17
PSEG Residenti..	10/7/2020	-2.13	2.48	5.03	1.35	4.33
New Jersey	10/6/2020	-4.96	-3.67	-1.83	-5.17	-3.47
MD	10/6/2020	-4.99	-5.96	-5.45	-6.80	-6.17
Eastern PA	10/6/2020	-5.50	-6.60	-5.35	-6.78	-5.39
Chicago Area	10/6/2020	-6.82	-5.96	-5.64	-6.81	-6.76
OH/App	10/6/2020	-2.49	-5.57	-4.45	-5.12	-4.29

**PJM Load Variation All Hours**

Load	As Of Date	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
PSEG (NJ)	10/6/2020	-3.75	-3.16	-0.99	-4.55	-2.72
PSEG Small C&I	10/7/2020	-10.20	-9.46	-9.07	-9.81	-8.57
PSEG Large C&I	10/7/2020	-15.85	-14.35	-13.39	-14.35	-13.20
PSEG Residenti..	10/7/2020	-5.10	-1.23	1.84	-1.64	2.08
New Jersey	10/6/2020	-4.46	-3.94	-1.47	-4.76	-2.85
MD	10/6/2020	-5.50	-6.43	-5.81	-7.06	-5.78
Eastern PA	10/6/2020	-5.67	-7.08	-5.84	-7.19	-5.44
Chicago Area	10/6/2020	-6.13	-6.04	-5.76	-6.51	-6.56
OH/App	10/6/2020	-1.90	-4.97	-3.95	-4.89	-3.99

**MISO Load Variation Peak Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
MISO Central	-8.26	-6.40	-6.22	-7.81	-6.56
MISO North	-6.28	-6.10	-5.74	-6.17	-6.77
MISO South	-2.50	-9.52	-10.65	-12.69	-10.67

**MISO Load Variation All Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
MISO Central	-7.50	-6.21	-6.01	-7.37	-6.23
MISO North	-5.76	-6.44	-5.96	-6.04	-6.63
MISO South	-4.64	-12.63	-12.60	-13.63	-11.79

**ERCOT Load Variation Peak Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
Texas North/East	2.28	1.16	-1.22	-1.58	-1.38
Texas South/Central	6.60	5.51	1.11	-1.89	-3.27

**ERCOT Load Variation All Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
Texas North/East	0.98	-1.88	-2.95	-2.43	-2.01
Texas South/Central	5.55	5.24	1.77	-0.82	-2.17

Texas North/East is comprised of ERCOT Zones: East, North and NorthCentral. Texas South/Central is comprised of ERCOT Zones: Coast, South and SouthCentral. The western region of Texas has been excluded from reporting pending further analysis due to the effects of large growth rates in the FWEST Zone since 2017.

**CAISO Load Variation Peak Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
PG&E	1.66	5.64	6.08	4.36	3.16
SoCal Edison	10.23	12.61	14.10	11.86	8.82
SDG&E	5.70	9.00	8.94	7.04	5.58

**CAISO Load Variation All Hours as of 10/7/2020**

Load	Last Value (%)	Last 5 Days (%)	Last 10 Days (%)	Last 20 Days (%)	Last 30 Days (%)
PG&E	1.66	4.91	4.86	3.69	3.08
SoCal Edison	8.05	9.75	10.14	8.55	6.22
SDG&E	4.97	6.63	6.05	4.73	3.83