

**A report by the staff of the
Public Utilities Commission of Ohio**

Weekly Report of COVID-19 Impacts by Electric Transmission Zone

April 15, 2020

The Public Utilities Commission of Ohio's (PUCO) Office of the Federal Energy Advocate is producing this special report due to a current COVID-19 pandemic event which is drastically affecting all facets of life in the USA. Specifically, this report analyzes the load differences for electric transmission zones that are entirely or partly in Ohio.

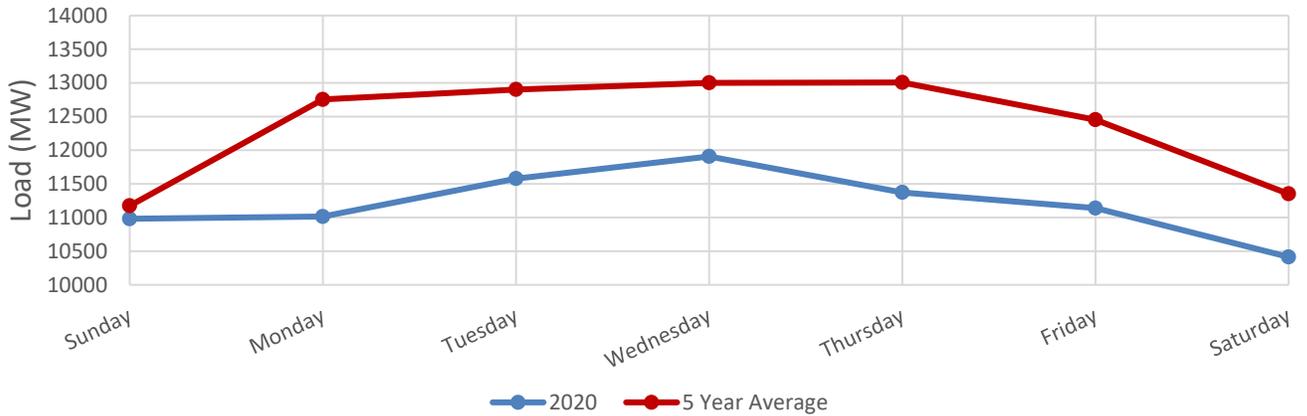
In order to properly evaluate load differences per year, staff removed weather effects from the data as well as aligning days to properly have weekdays only compared with other weekdays . Staff intends to continue a weekly analysis that captures every week since the COVID-19 pandemic was declared up to the week preceding the current week. In order to make a baseline for the weekly reports, staff continues the method of denoting the week of the year. Additionally, the report for the 15th week of the year will include graphs for cumulative weekly analysis.

This weekly briefing report is for the 14th week of 2020 (For 2020 that is March 29 – April 4). An analysis of this week demonstrates the impact of COVID-19 spread prevention tactics in energy consumption. As seen in the data, the impacts of COVID-19 prevention are impacting the daily load profiles by a statistically significant margin. **Specifically, the weekday loads have changed the most with all but 2 observations being over a 10% difference when compared to the historical trend.** A notable characteristic of each electrical grid would be the differences in the variability between the historical trend and the current are statistically significant. It is expected this trend will continue in future weeks.

Please see the graphs provided on the subsequent pages for further detail.

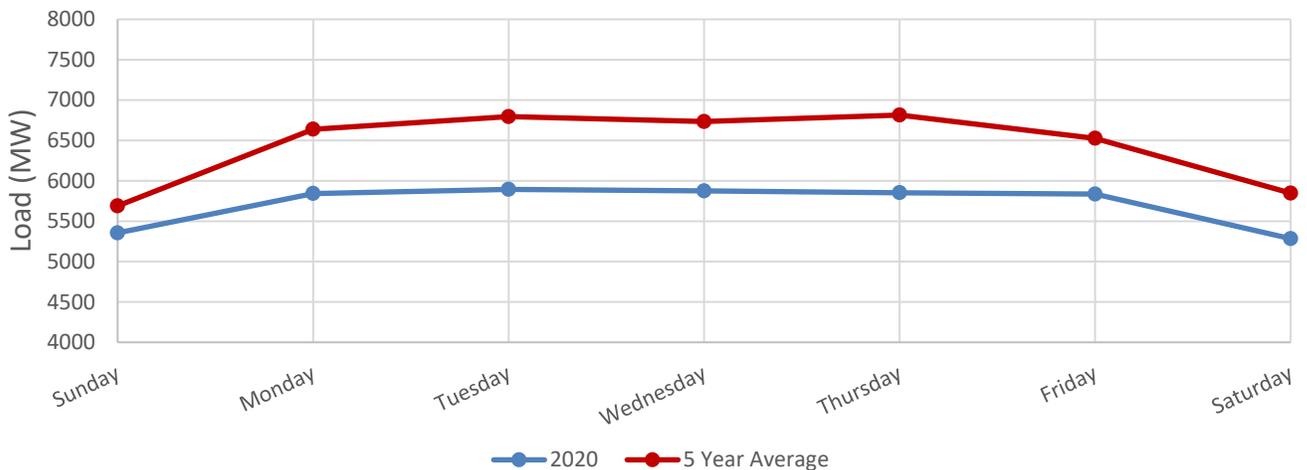
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2020	10981.85	11014.71	11577.74	11907.04	11372.40	11139.91	10414.16
5 Year Avg (2015-2019)	11174.36	12753.58	12901.45	13000.28	13005.67	12452.77	11351.53
Difference	-192.51	-1738.87	-1323.70	-1093.25	-1633.28	-1312.86	-937.37
Diff %	-2%	-14%	-10%	-8%	-13%	-11%	-8%

AEP Weather Normalized Load Data - 14th Week of Year
(March 29, 2020 - April 4, 2020)



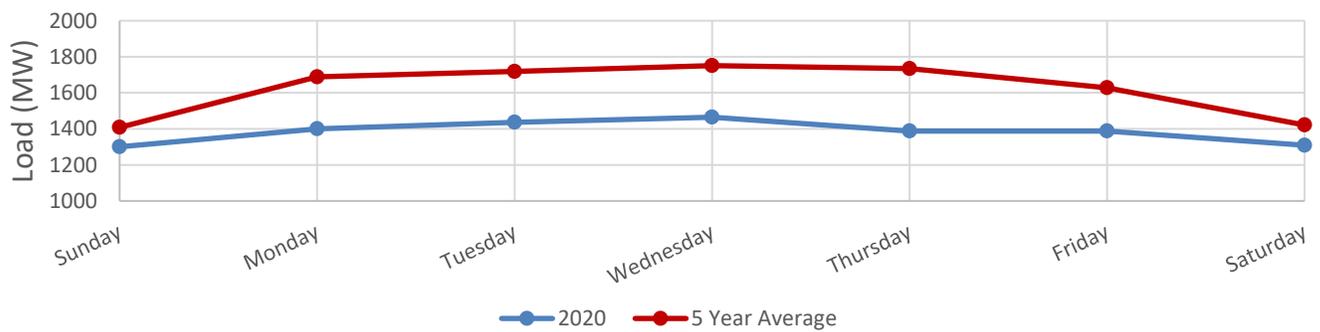
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2020	5354.62	5842.45	5893.97	5875.37	5852.47	5835.57	5284.49
5 Year Avg (2015-2019)	5689.59	6638.47	6794.81	6734.59	6814.33	6525.87	5847.94
Difference	-334.98	-796.02	-900.85	-859.22	-961.86	-690.30	-563.44
Diff %	-6%	-12%	-13%	-13%	-14%	-11%	-10%

ATSI Weather Normalized Load Data - 14th Week of Year
(March 29, 2020 - April 4, 2020)



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2020	1300.43	1400.38	1436.42	1464.64	1387.75	1387.77	1309.11
5 Year Avg (2015-2019)	1408.12	1688.67	1718.49	1750.87	1734.48	1627.85	1421.26
Difference	-107.69	-288.28	-282.08	-286.23	-346.73	-240.09	-112.15
Diff %	-8%	-17%	-16%	-16%	-20%	-15%	-8%

DP&L Weather Normalized Load Data - 14th Week of Year
(March 29, 2020 - April 4, 2020)



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2020	2131.61	2182.06	2265.57	2351.91	2270.99	2241.81	2121.70
5 Year Avg (2015-2019)	2312.42	2587.76	2622.87	2611.18	2610.76	2513.00	2305.80
Difference	-180.82	-405.70	-357.30	-259.26	-339.77	-271.18	-184.10
Diff %	-8%	-16%	-14%	-10%	-13%	-11%	-8%

Duke Weather Normalized Load Data - 14th Week of Year
(March 29, 2020 - April 4, 2020)

