

# Estimated Impacts of COVID-19 on NYISO Load

Analysis through 6/20/2020

---

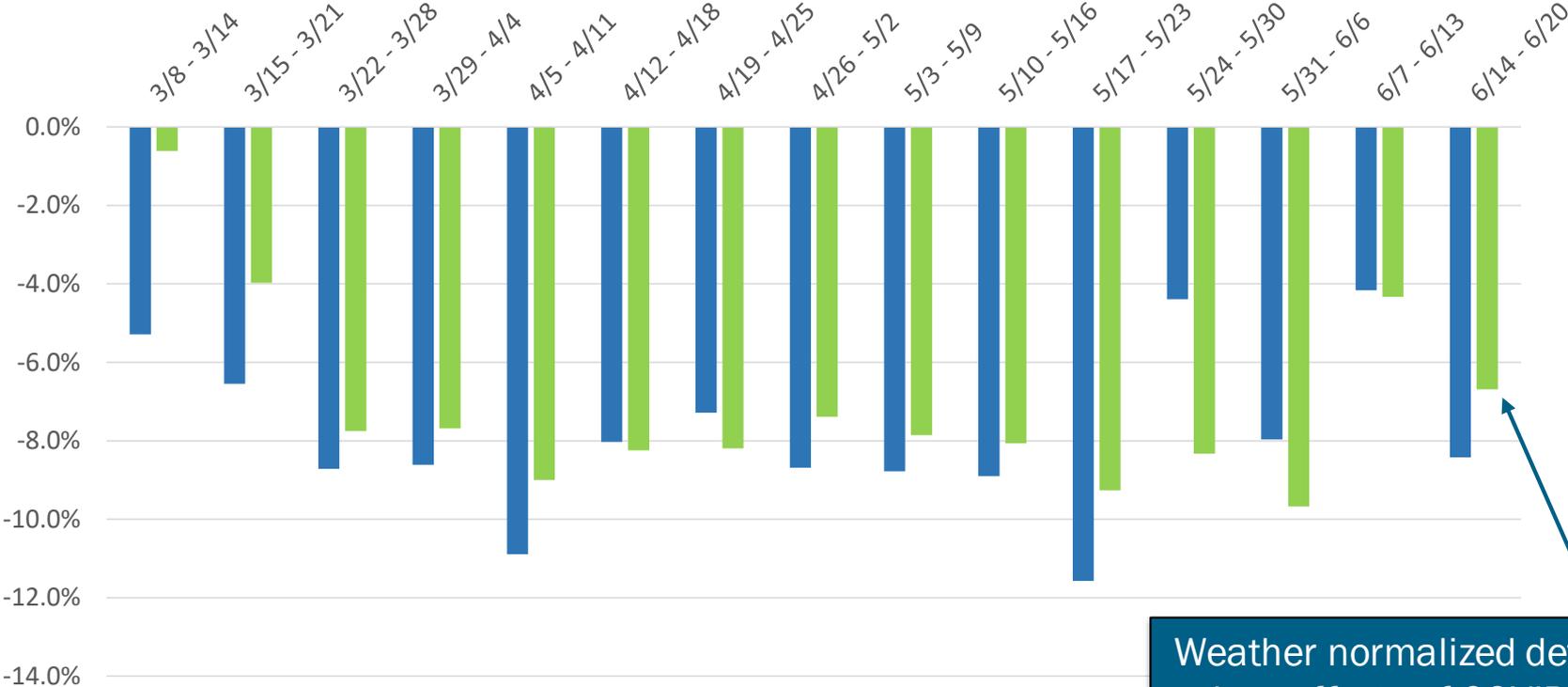
Demand Forecasting & Analysis Team  
System & Resource Planning

**COVID-19 Tracking Update**

June 23, 2020

# Recent Impacts on Daily Energy by Week

Weekly Energy Use - % Versus Expected (NYCA)



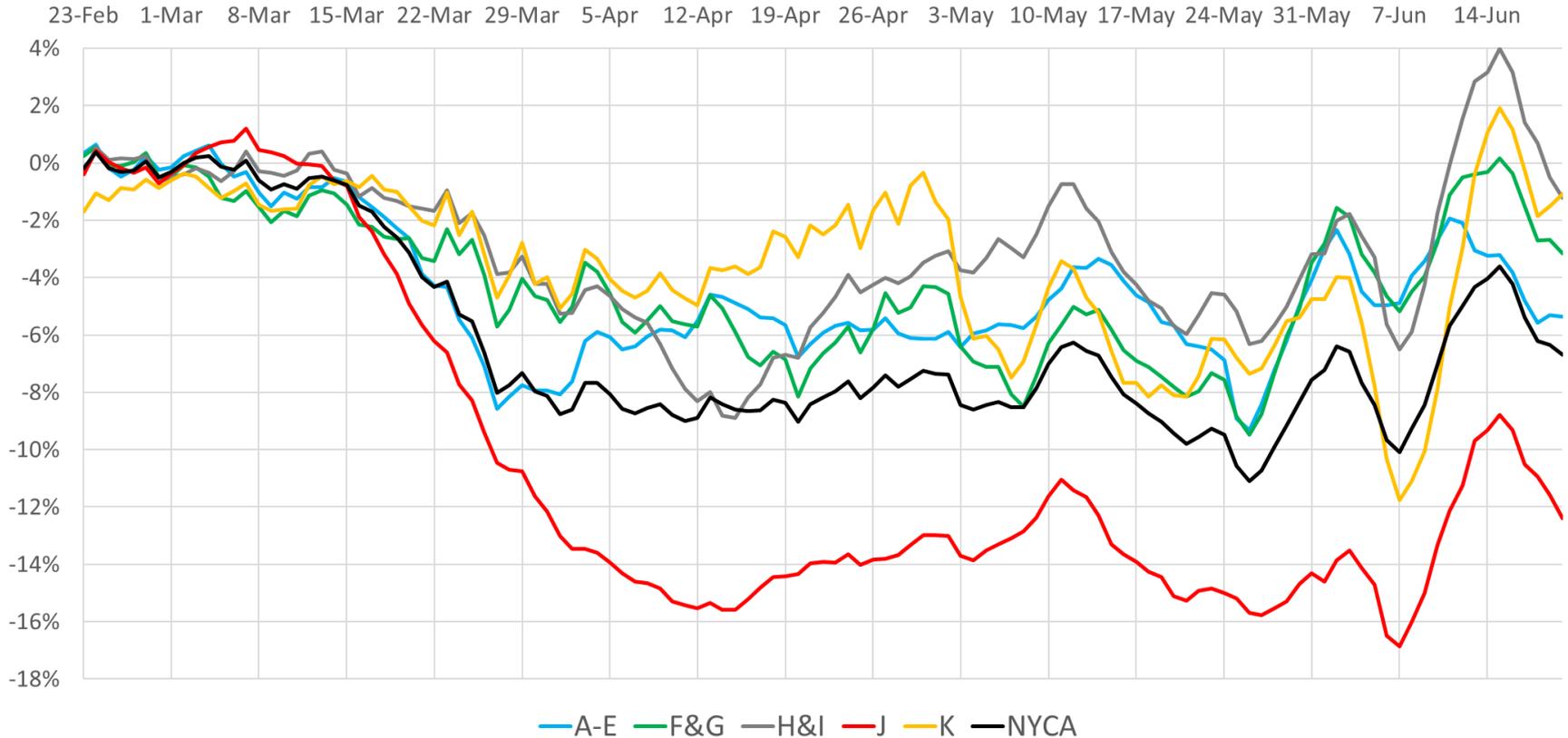
Includes Weekend Days

Actual Weather Normalized

Weather normalized deficits show effects of COVID-19 shutdowns

# Regional Impacts on Daily Energy Patterns

2020 Weather Normalized Load Relative to Expected Load, 7-Day Moving Average (Daily Energy)

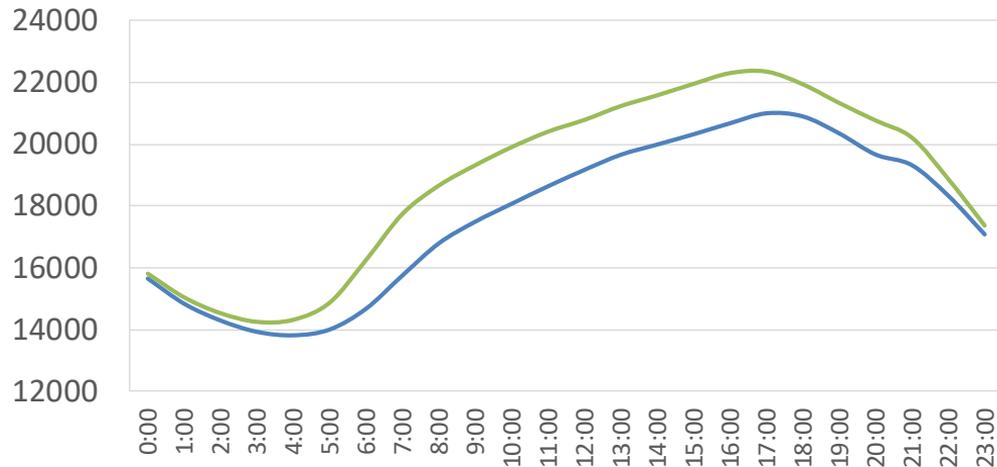


# Recent Impacts on Hourly Load Patterns

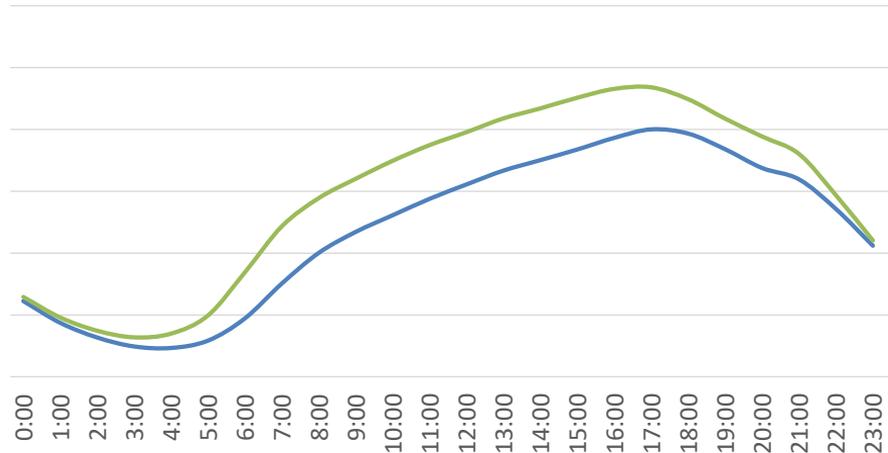
— Actual — Simulated

## June 8 - June 12 (MW)

## June 15 - June 20 (MW)



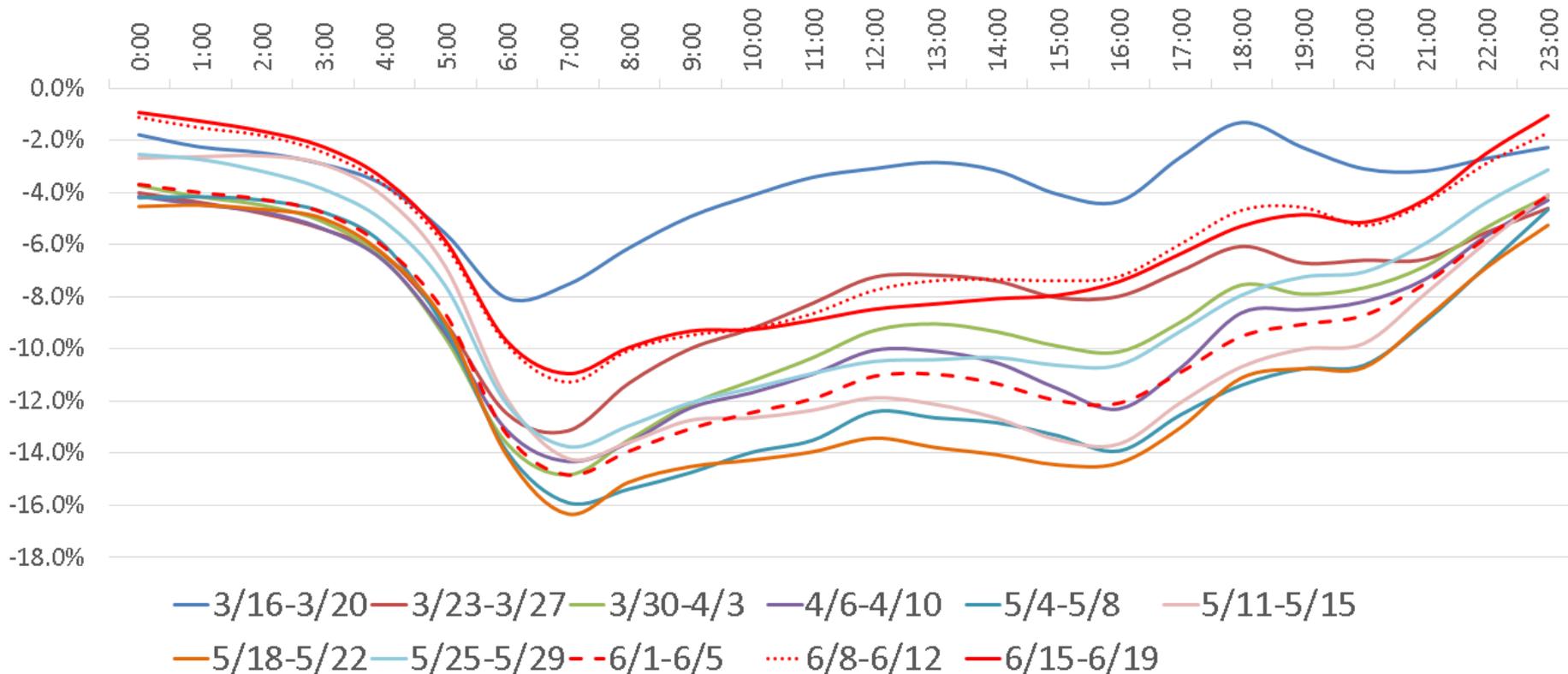
**Week 13**



**Week 14**

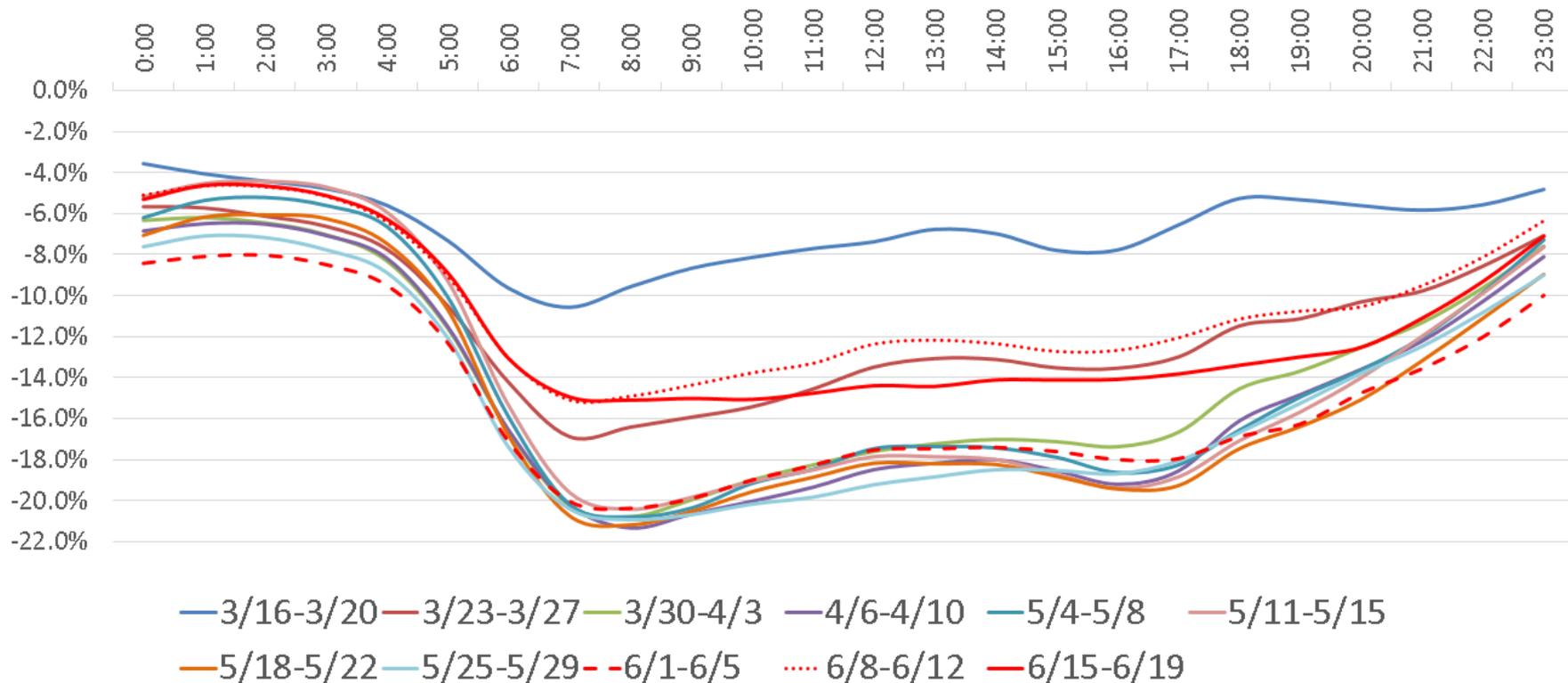
# Impacts on Hourly Load Patterns

NYCA Load Profile - Weekday Diurnal Load Changes



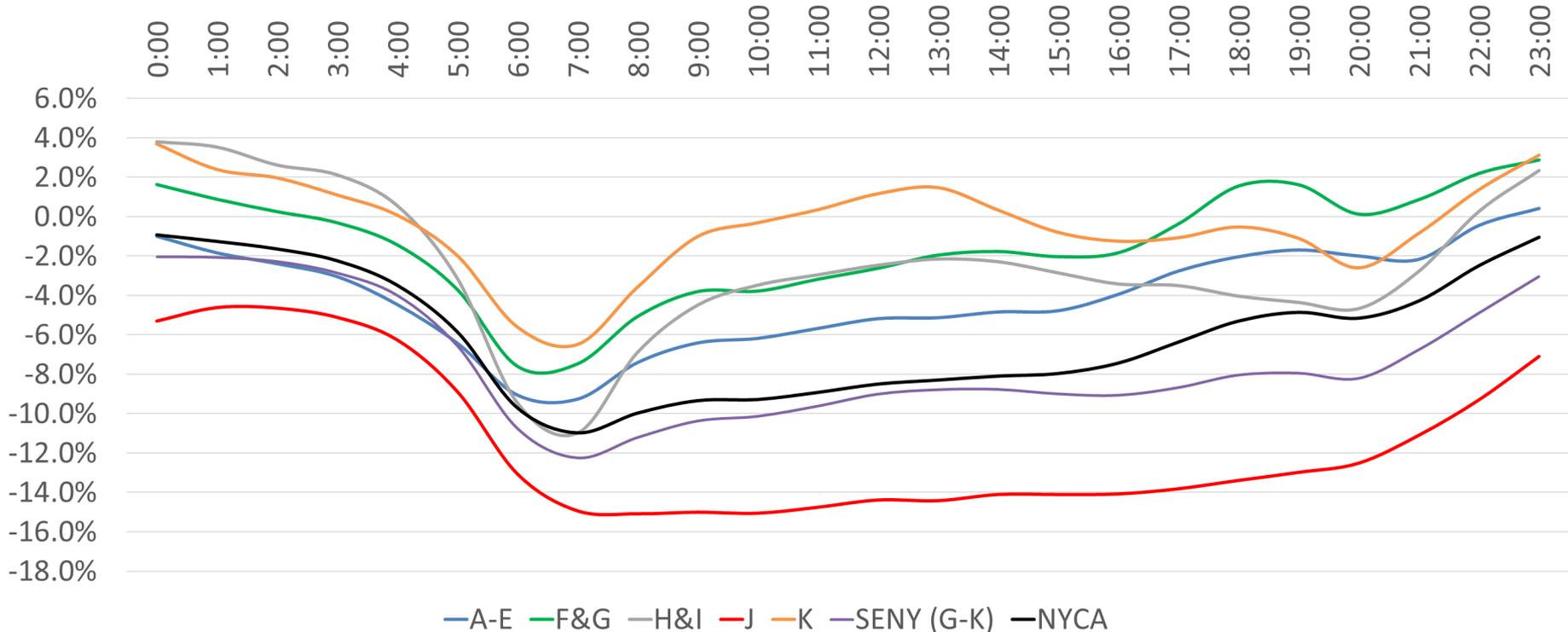
# Impacts on Hourly Load Patterns

Zone-J Load Profile - Weekday Diurnal Load Changes



# Impacts on Hourly Load Patterns (Area)

Average Hourly Deficit by Area - Week of 6/15 - 6/19 (Weekdays)



# Impacts on Hourly Load Patterns (Area)

Hour	A-E	F&G	H&I	J	K	SENY (G-K)	NYCA
0:00	-1.0%	1.6%	3.8%	-5.3%	3.7%	-2.0%	-0.9%
1:00	-1.8%	0.9%	3.5%	-4.6%	2.4%	-2.1%	-1.3%
2:00	-2.4%	0.3%	2.6%	-4.7%	2.0%	-2.3%	-1.6%
3:00	-3.1%	-0.3%	2.1%	-5.1%	1.1%	-2.9%	-2.2%
4:00	-4.5%	-1.4%	0.6%	-6.3%	0.1%	-4.0%	-3.5%
5:00	-6.4%	-3.7%	-3.1%	-8.9%	-2.0%	-6.6%	-5.8%
6:00	-9.1%	-7.6%	-9.5%	-13.1%	-5.6%	-10.8%	-9.7%
7:00	-9.3%	-7.5%	-11.0%	-14.9%	-6.5%	-12.3%	-11.0%
8:00	-7.4%	-5.1%	-6.9%	-15.1%	-3.6%	-11.2%	-10.0%
9:00	-6.4%	-3.8%	-4.5%	-15.0%	-1.0%	-10.4%	-9.3%
10:00	-6.2%	-3.8%	-3.5%	-15.0%	-0.3%	-10.1%	-9.3%
11:00	-5.7%	-3.2%	-3.0%	-14.7%	0.4%	-9.6%	-8.9%
12:00	-5.2%	-2.6%	-2.5%	-14.4%	1.2%	-9.0%	-8.5%
13:00	-5.1%	-1.9%	-2.2%	-14.4%	1.5%	-8.8%	-8.3%
14:00	-4.8%	-1.8%	-2.3%	-14.1%	0.3%	-8.8%	-8.1%
15:00	-4.8%	-2.0%	-2.9%	-14.1%	-0.8%	-9.0%	-8.0%
16:00	-3.9%	-1.8%	-3.4%	-14.1%	-1.2%	-9.1%	-7.4%
17:00	-2.8%	-0.4%	-3.5%	-13.8%	-1.1%	-8.7%	-6.4%
18:00	-2.0%	1.6%	-4.0%	-13.4%	-0.5%	-8.0%	-5.3%
19:00	-1.7%	1.6%	-4.4%	-13.0%	-1.1%	-8.0%	-4.9%
20:00	-2.0%	0.1%	-4.7%	-12.5%	-2.6%	-8.2%	-5.1%
21:00	-2.2%	0.9%	-2.8%	-11.1%	-0.8%	-6.8%	-4.3%
22:00	-0.5%	2.2%	0.3%	-9.3%	1.4%	-4.9%	-2.5%
23:00	0.4%	2.9%	2.3%	-7.1%	3.1%	-3.0%	-1.0%

Average Hourly  
Load Deficit  
By Area  
Week of  
6/15 - 6/20

# Impacts on Hourly Load Patterns (Zone)

Hour	A	B	C	D	E	F	G	H	I	J	K
0:00	-4%	3%	-2%	-6%	6%	4%	-1%	2%	5%	-5%	4%
1:00	-5%	3%	-2%	-9%	7%	3%	-2%	0%	5%	-5%	2%
2:00	-6%	3%	-3%	-10%	7%	2%	-2%	-1%	5%	-5%	2%
3:00	-6%	1%	-4%	-10%	6%	2%	-3%	-2%	4%	-5%	1%
4:00	-7%	0%	-6%	-10%	4%	1%	-4%	-4%	2%	-6%	0%
5:00	-9%	-3%	-7%	-11%	0%	-2%	-6%	-8%	-1%	-9%	-2%
6:00	-11%	-6%	-10%	-12%	-5%	-6%	-10%	-13%	-8%	-13%	-6%
7:00	-11%	-7%	-10%	-13%	-5%	-6%	-10%	-12%	-10%	-15%	-6%
8:00	-9%	-5%	-8%	-9%	-3%	-3%	-8%	-8%	-7%	-15%	-4%
9:00	-9%	-4%	-7%	-8%	-2%	-1%	-7%	-3%	-5%	-15%	-1%
10:00	-9%	-3%	-6%	-7%	-3%	-1%	-7%	-1%	-5%	-15%	0%
11:00	-9%	-2%	-6%	-7%	-2%	-1%	-6%	-1%	-4%	-15%	0%
12:00	-9%	-1%	-4%	-8%	-2%	-1%	-5%	0%	-3%	-14%	1%
13:00	-9%	-1%	-4%	-8%	-2%	0%	-4%	-1%	-3%	-14%	1%
14:00	-8%	-1%	-4%	-9%	-2%	0%	-4%	-1%	-3%	-14%	0%
15:00	-8%	-1%	-4%	-10%	-2%	0%	-4%	-2%	-3%	-14%	-1%
16:00	-7%	0%	-2%	-11%	-1%	0%	-4%	-2%	-4%	-14%	-1%
17:00	-6%	0%	-1%	-11%	2%	2%	-3%	-2%	-4%	-14%	-1%
18:00	-5%	1%	-1%	-10%	4%	4%	-1%	-3%	-4%	-13%	-1%
19:00	-5%	1%	-1%	-11%	6%	4%	-1%	-4%	-5%	-13%	-1%
20:00	-4%	1%	-1%	-11%	4%	2%	-2%	-5%	-5%	-13%	-3%
21:00	-5%	0%	-2%	-9%	6%	3%	-1%	-3%	-2%	-11%	-1%
22:00	-4%	2%	-1%	-5%	8%	4%	0%	-1%	1%	-9%	1%
23:00	-3%	4%	0%	-3%	8%	5%	1%	1%	3%	-7%	3%

Average Hourly Load Deficit by Zone - Week of 6/15 - 6/20

# Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

