

Impacts of COVID-19 on NYISO Demand

Information current as of 4/6/2020

Chuck Alonge

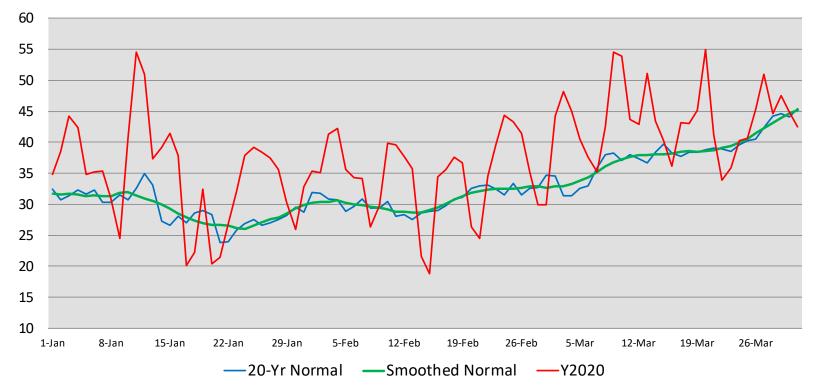
Demand Forecasting & Analysis

Load Forecasting Task Force

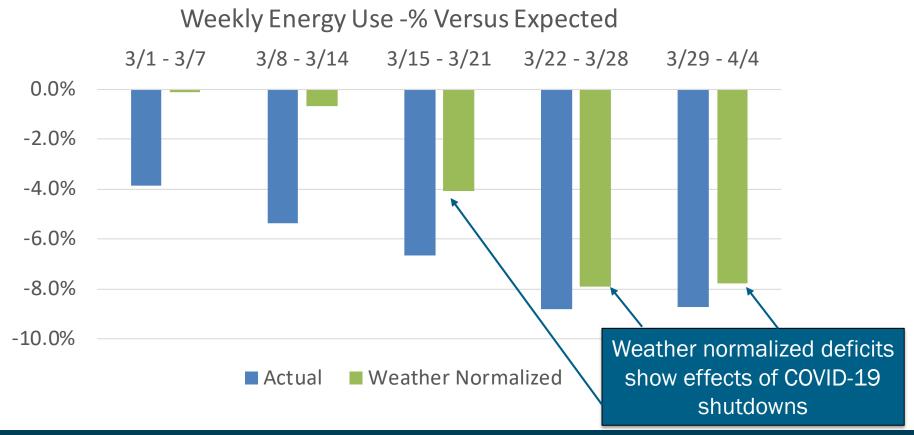
April 13, 2020, Teleconference

NYCA Recent Temperature Trends

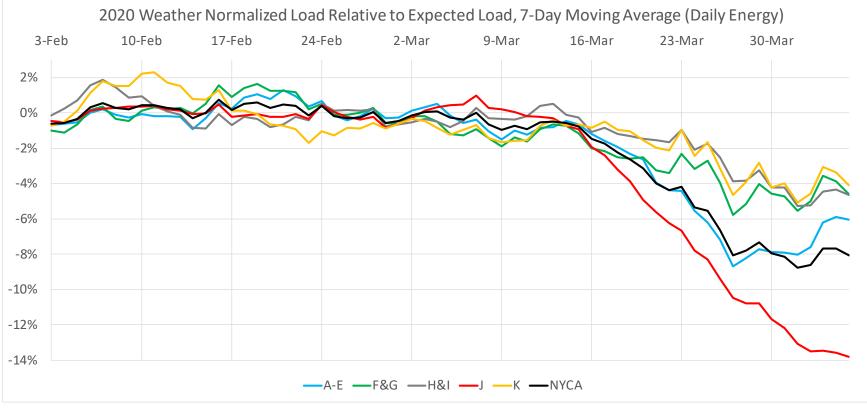
NYCA Daily Average Temperature



Recent Impacts on Daily Energy by Week

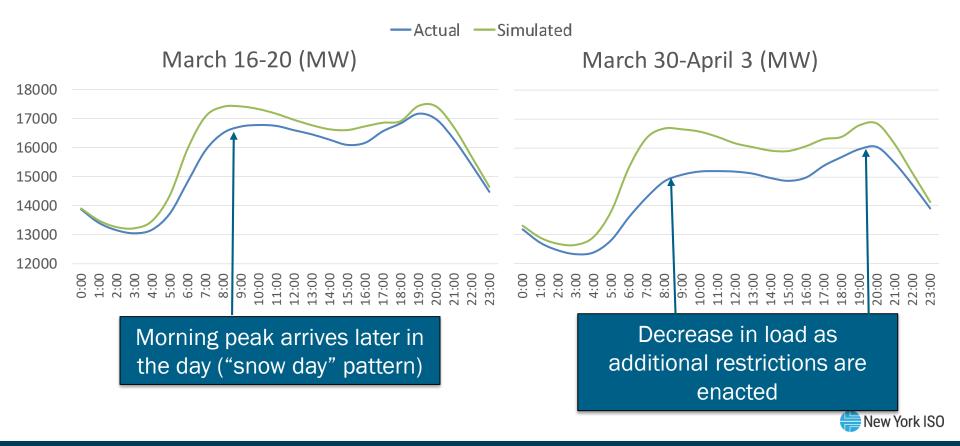


Regional Impacts on Daily Energy Patterns

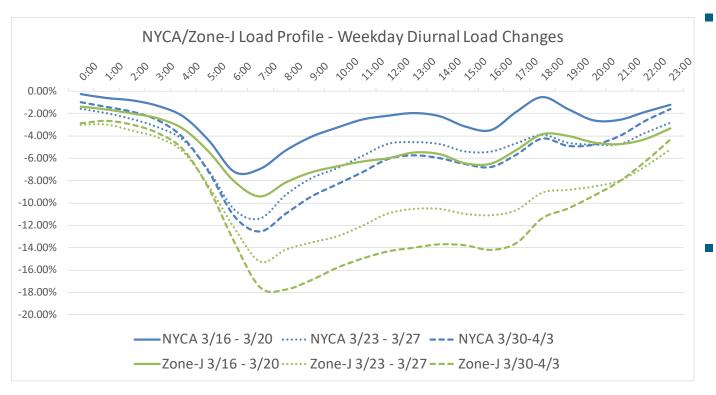


Level of decline is proportional to commercial percentage of load in region Prev York ISO

Recent Impacts on Hourly Load Patterns



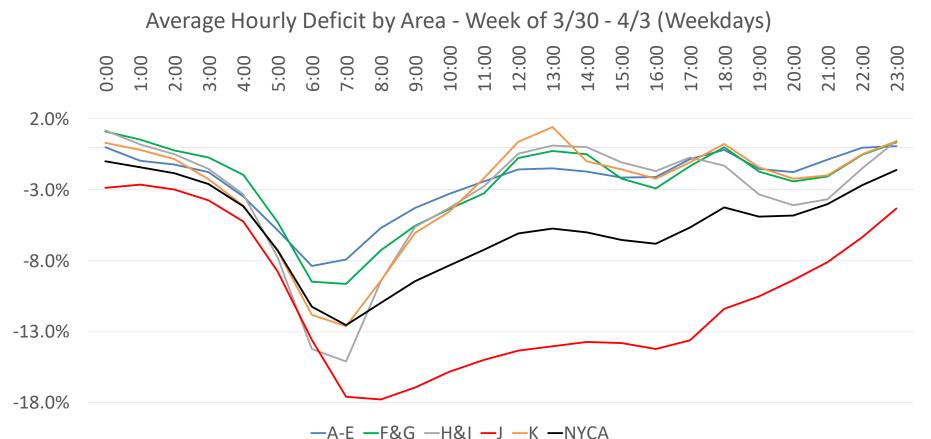
Recent Impacts on Hourly Load Patterns



ConEd, with large commercial share of load, has significant reductions in energy relative to other load zones

Residential energy use has increased during the mid-day (partially offsetting drop in commercial sector)

Recent Impacts on Hourly Load Patterns (Area)



Recent Impacts on Hourly Load Patterns (Area)

Average Hourly Load Deficit By Area – Week of 3/30-4/3

Hour	A-E	F-G	H-I	J	К	NYCA	Hour	A-E	F-G	H-I	J	К	NYCA
0:00	0.0%	1.1%	1.2%	-2.9%	0.3%	-1.0%	12:00	-1.5%	-0.8%	-0.5%	-14.3%	0.4%	-6.1%
1:00	-1.0%	0.5%	0.2%	-2.7%	-0.2%	-1.4%	13:00	-1.5%	-0.3%	0.1%	-14.0%	1.4%	-5.7%
2:00	-1.2%	-0.2%	-0.5%	-3.0%	-0.8%	-1.8%	14:00	-1.7%	-0.5%	0.0%	-13.7%	-1.0%	-6.0%
3:00	-1.8%	-0.7%	-1.5%	-3.7%	-2.2%	-2.6%	15:00	-2.1%	-2.2%	-1.1%	-13.8%	-1.6%	-6.5%
4:00	-3.5%	-1.9%	-3.3%	-5.2%	-4.1%	-4.2%	16:00	-2.1%	-2.9%	-1.7%	-14.2%	-2.2%	-6.8%
5:00	-5.9%	-5.3%	-7.8%	-8.8%	-7.3%	-7.3%	17:00	-0.8%	-1.3%	-0.7%	-13.6%	-1.1%	-5.7%
6:00	-8.4%	-9.5%	-14.2%	-13.6%	-11.8%	-11.2%	18:00	-0.2%	0.0%	-1.3%	-11.4%	0.2%	-4.2%
7:00	-7.9%	-9.6%	-15.1%	-17.6%	-12.6%	-12.6%	19:00	-1.5%	-1.7%	-3.3%	-10.5%	-1.4%	-4.9%
8:00	-5.7%	-7.3%	-9.5%	-17.8%	-9.4%	-11.0%	20:00	-1.8%	-2.4%	-4.1%	-9.4%	-2.2%	-4.8%
9:00	-4.3%	-5.5%	-5.6%	-16.9%	-6.0%	-9.4%	21:00	-0.9%	-2.1%	-3.7%	-8.1%	-2.0%	-4.0%
10:00	-3.3%	-4.3%	-4.3%	-15.8%	-4.5%	-8.3%	22:00	-0.1%	-0.5%	-1.5%	-6.3%	-0.5%	-2.7%
11:00	-2.4%	-3.2%	-2.8%	-15.0%	-2.2%	-7.2%	23:00	0.1%	0.3%	0.5%	-4.3%	0.4%	-1.6%



Next Steps

- Present update to Operating Committee for information on April 16
- NYISO Operations and Demand Forecasting Team continue to monitor and assess the impacts of the COVID-19 shutdowns
 - Identify the inflection point in daily energy declines
 - Track best available economic forecasts and consult with Transmission Owners on sector impacts
- Gold Book Forecast Updates
 - Baseline Forecast
 - Adding Economic Considerations to Low Energy Scenario
- Forecasting system updates for Day-Ahead and Real Time Commitment



Questions and Discussion



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



