

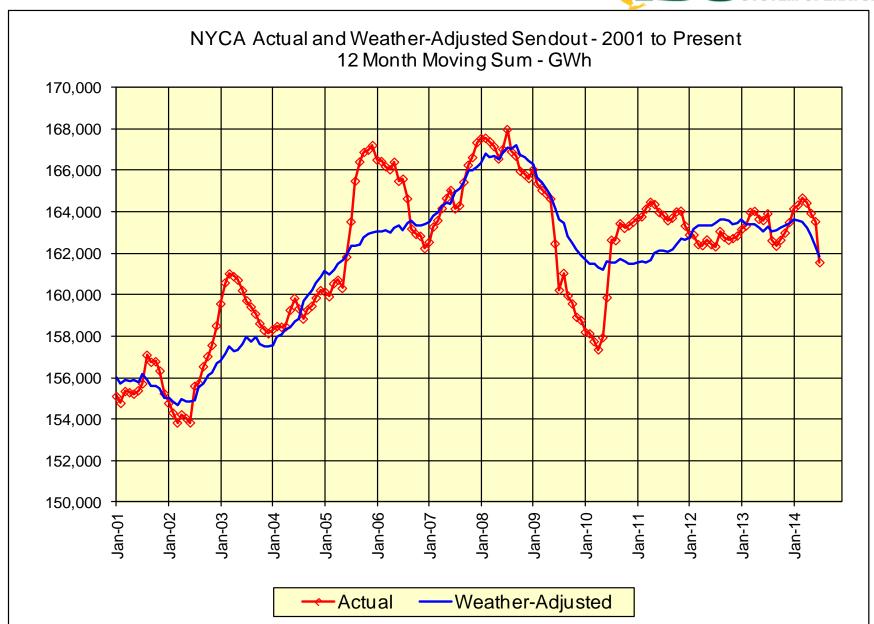
# Current Summary of Energy Usage & Peak Demand

#### **Arthur Maniaci**

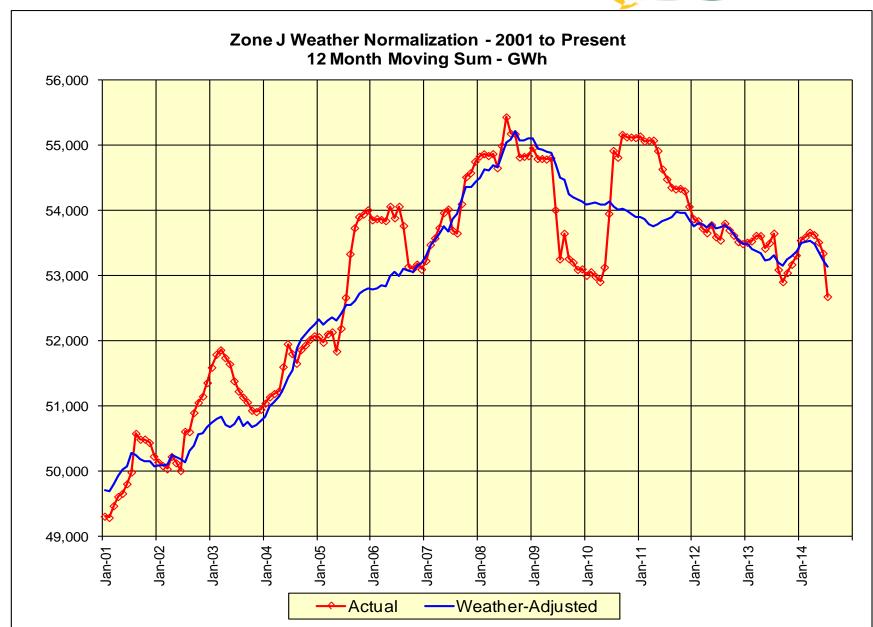
Supervisor, Load Forecasting & Energy Efficiency
New York Independent System Operator

Load Forecasting Task Force
August 25, 2014
Rensselaer, NY

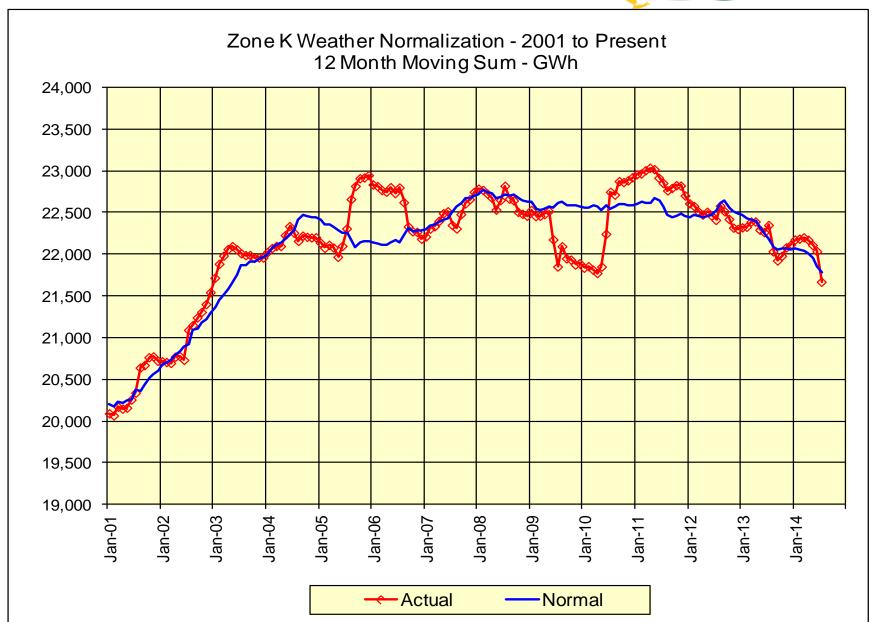




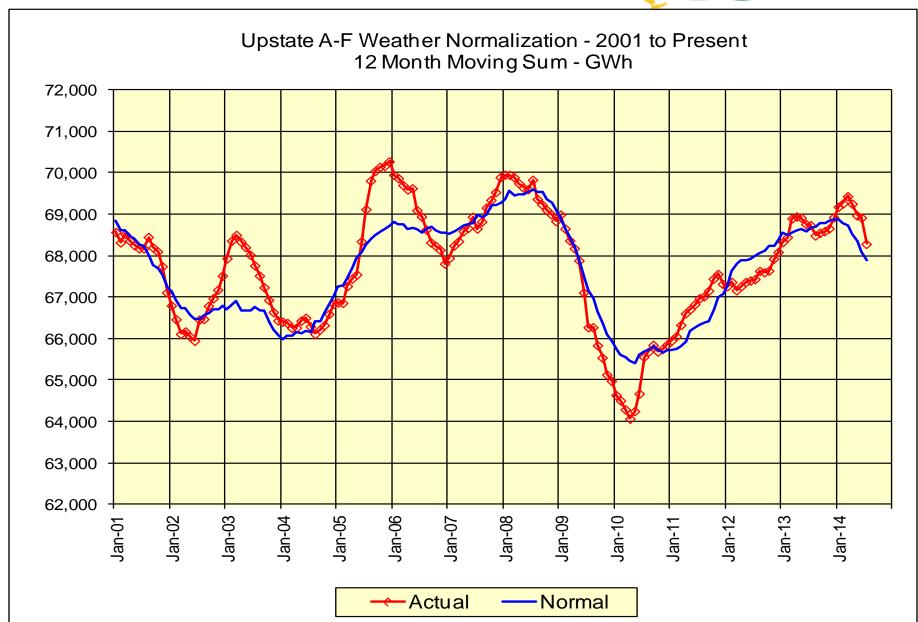




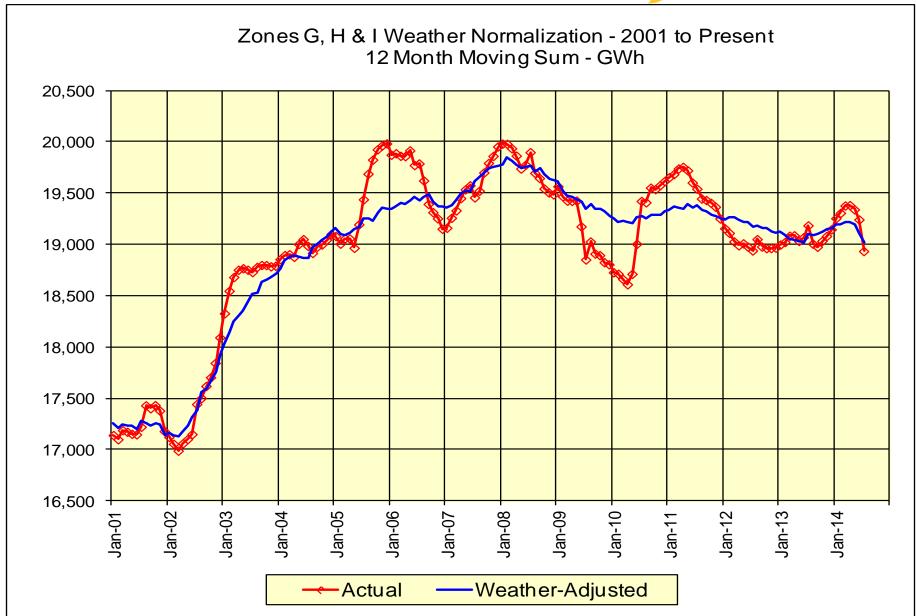




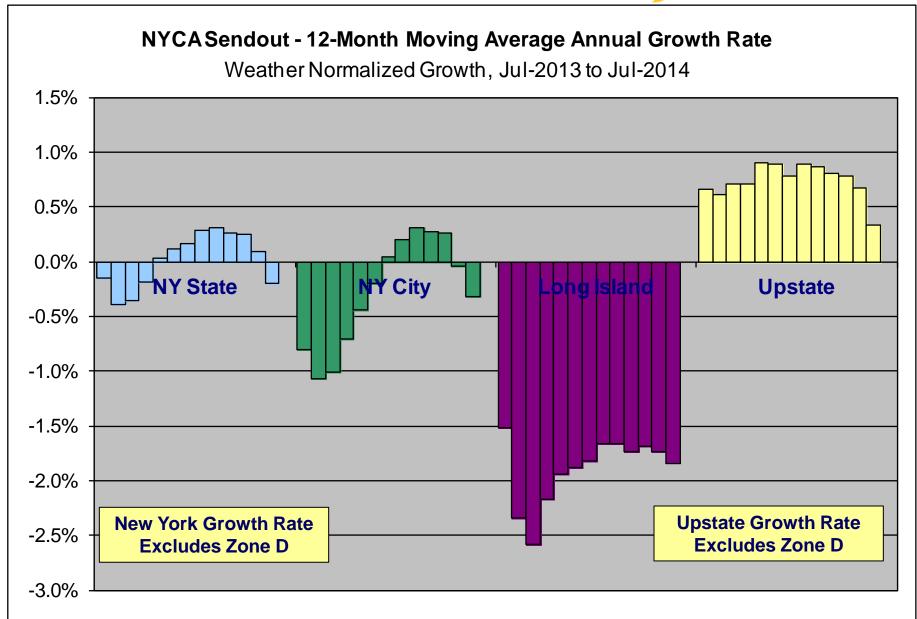














### Current Installed Capacity of Customer-Sited Solar PV - MW as of August 2014

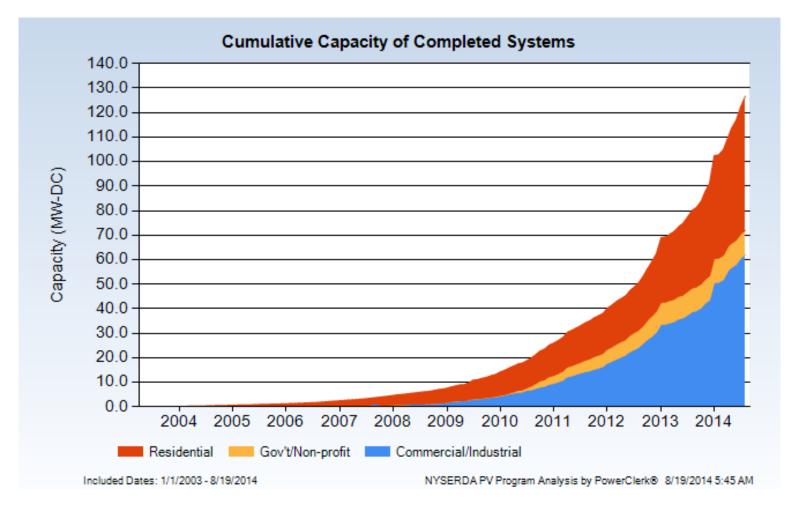
(a)	(b)	(c)	(d)	(e)=(d/c)	$(f)=(d_i/Sd_i)$	(g)	(h)=(d/g)
Zone	Metro Area	Number of Solar PV Systems	Total MW, DC	Avg kW, DC	Pct of Solar PV MW in Zone	2013 Peak MW	Pct of SPV MW as Share of 2013
А	Buffalo	839	15.4	18.4	6.7%	2,549	0.6%
В	Rochester	539	4.8	8.8	2.1%	2,030	0.2%
С	Syracuse	701	16.4	23.5	7.1%	2,921	0.6%
D	Plattsburg	88	0.9	10.4	0.4%	819	0.1%
E	Utica	1,259	7.7	6.2	3.4%	1,540	0.5%
F	Albany	2,173	43.2	19.9	18.7%	2,392	1.8%
G	Poughkeepsie	2,634	30.2	11.5	13.1%	2,358	1.3%
Н	Westchester	322	4.3	13.4	1.9%	721	0.6%
I	Westchester	549	7.3	13.3	3.2%	1,517	0.5%
J	New York City	1,345	31.2	23.2	13.5%	11,456	0.3%
K	Long Island	8,687	68.9	7.9	29.9%	5,653	1.2%
	Total	19,136	230.3	12.0	100.0%	33,956	0.7%

<sup>(1)</sup> Data includes NYSERDA customer-sited programs for small SPV (<= 200 kW), large SPV (>200 kW) and LIPA's customer-sited programs.

<sup>(2)</sup> Solar PV capacity is reported in DC power. Inverter losses to convert DC to AC are not included.



### Cumulative Installed Capacity of Customer-Sited Solar PV – MW Systems of 200 kW & Under, Zones A to J



Source: http://nyserda.powerclerkreports.com/Default.aspx?ReportId=6

Note: Cumulative capacity is in DC. Inverter losses to convert DC to AC are not included.

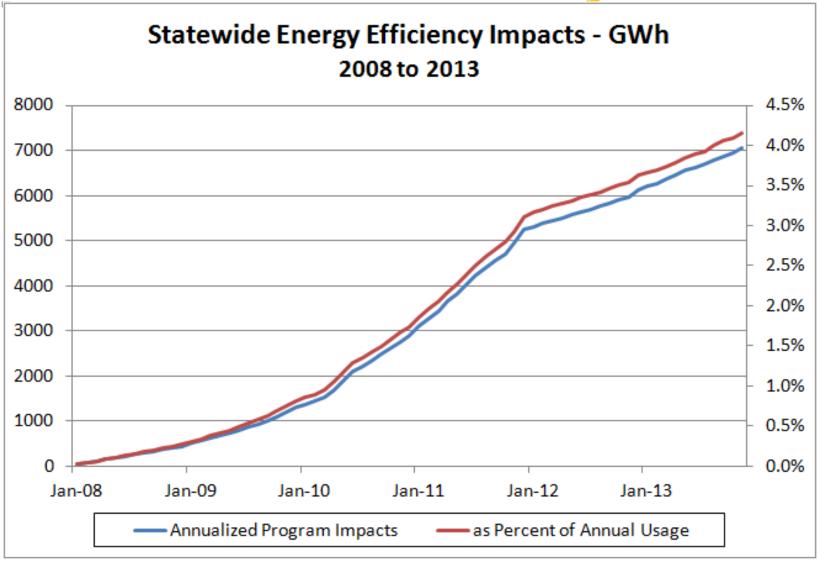


## Cumulative Capacity of Distributed Generation – MW as of August 2014

Zone	Anaerobic Digesters	Combined Heat & Pow er	Total MW
А	2.9	5.9	8.8
В	0.7	2.2	2.9
С	2.2	30.8	33.0
D	0.1	0.0	0.1
E	0.9	9.8	10.7
F	0.3	7.5	7.8
G	0.0	0.3	0.3
Н	0.0	0.4	0.4
l	0.0	0.7	0.7
J	0.0	63.5	63.5
K	0.0	3.3	3.3
Total	7.1	124.4	131.5

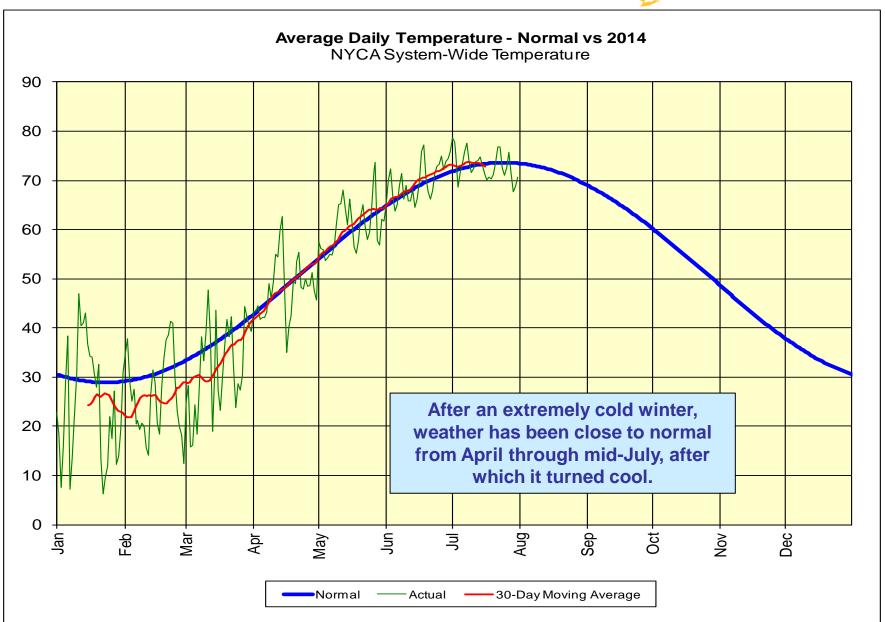
**Data from NYSERDA** 



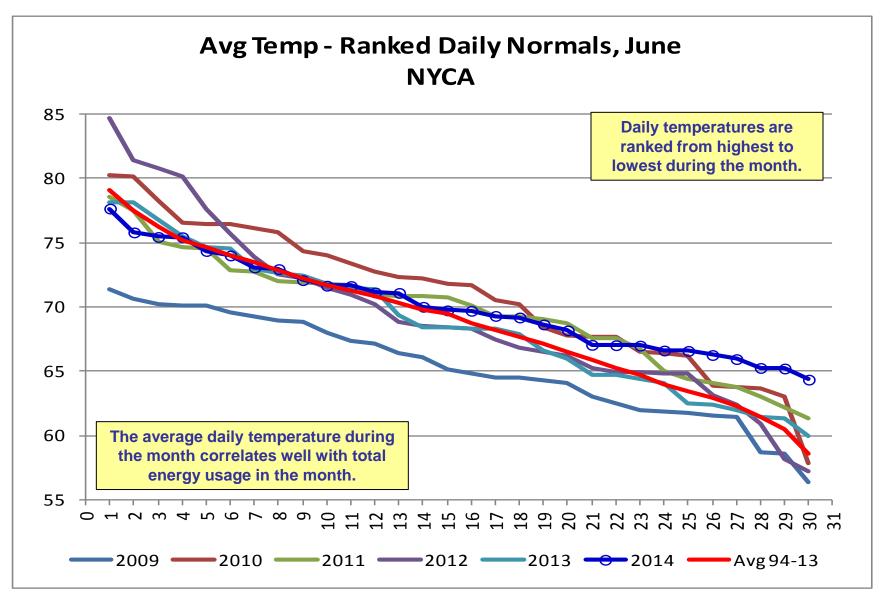


Includes annualized energy impacts for NYSERDA, NYPA, LIPA and all NY IOUs. NYSERDA and IOU data from DPS 'scorecard' reports; NYPA and LIPA data as reported to the NYISO. Energy impact results are based on EEPS Technical Manual or other program impact estimates.

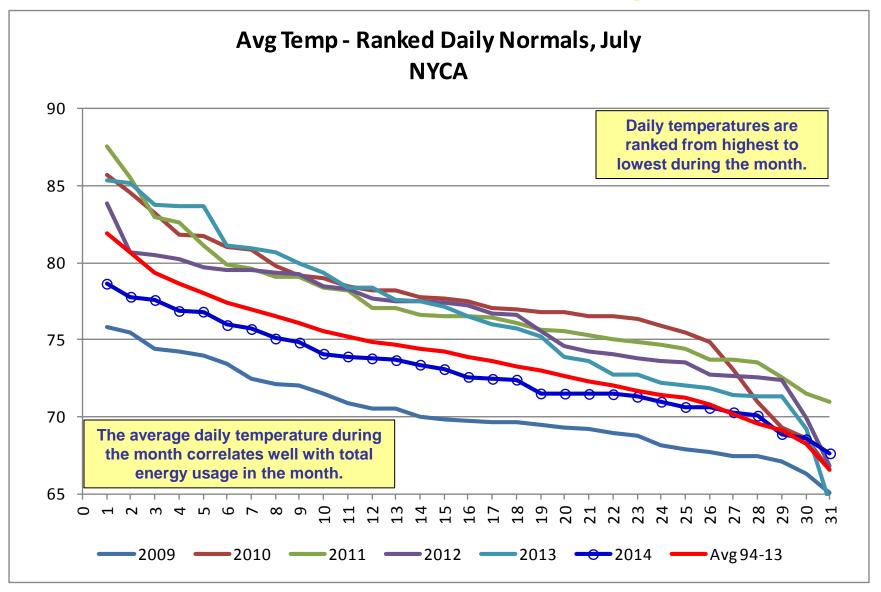




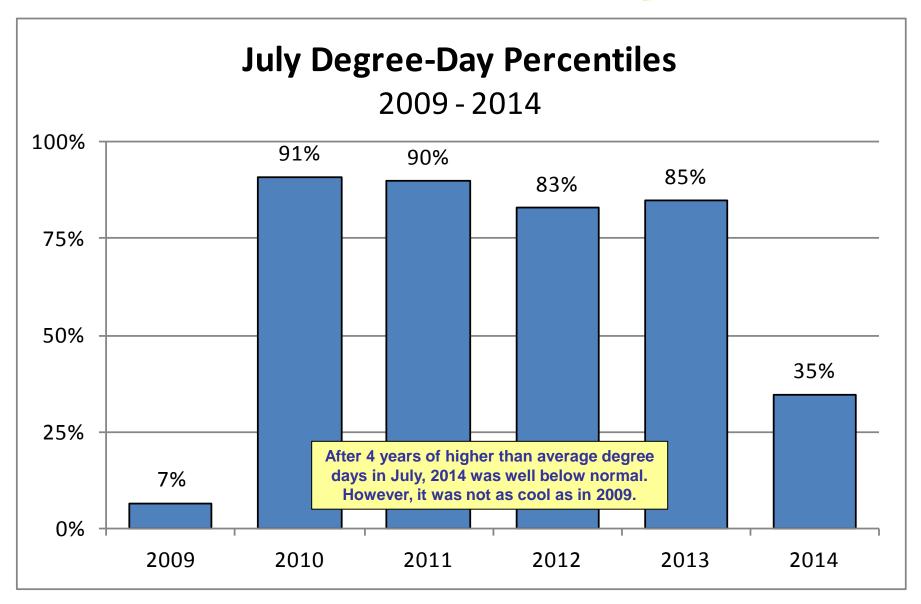




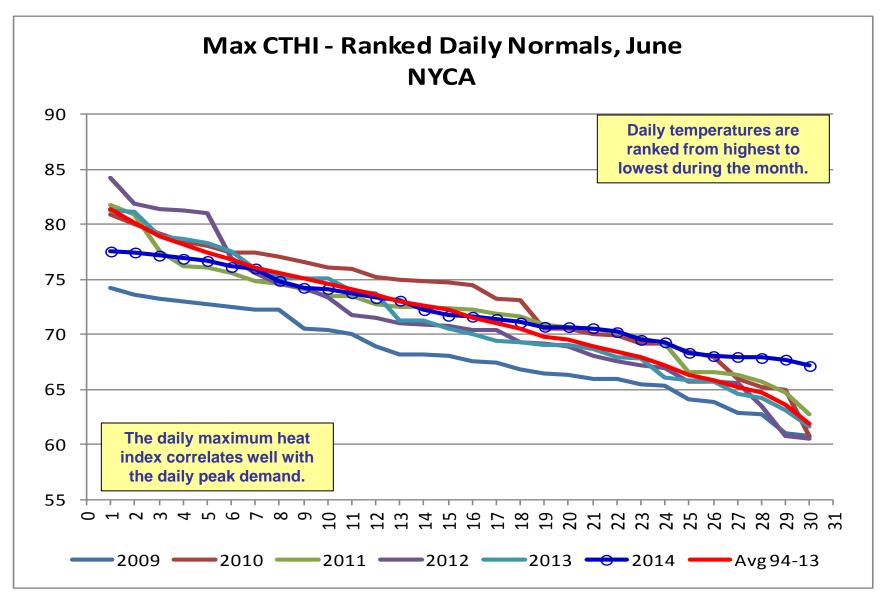




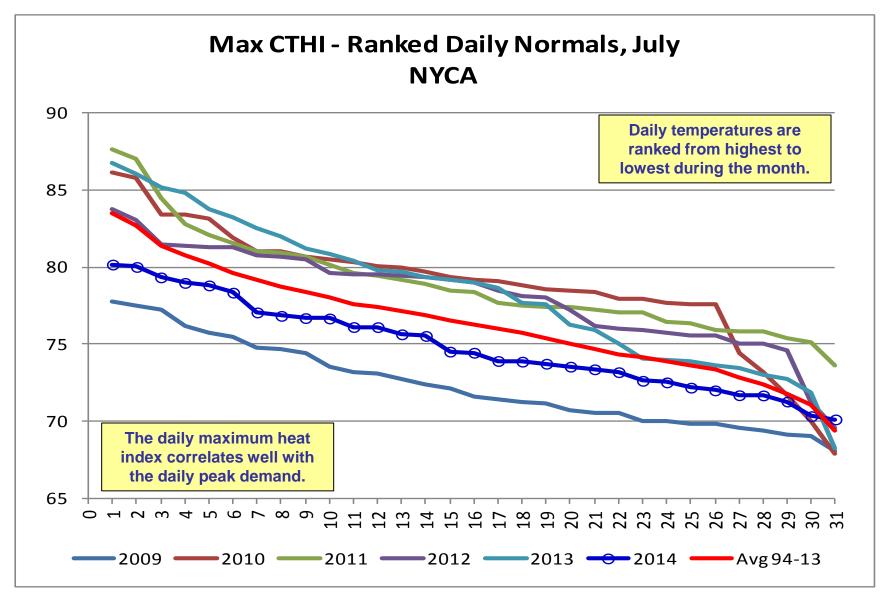




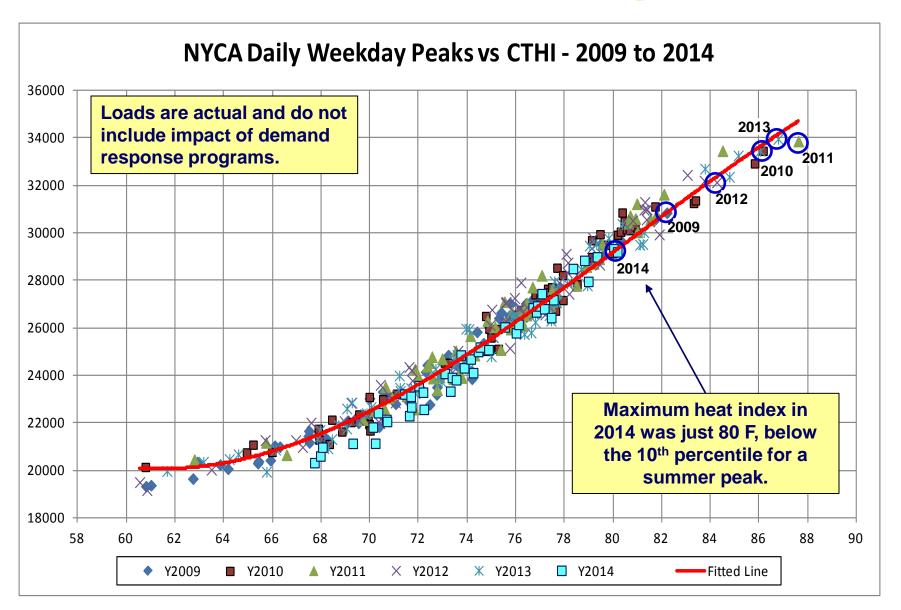




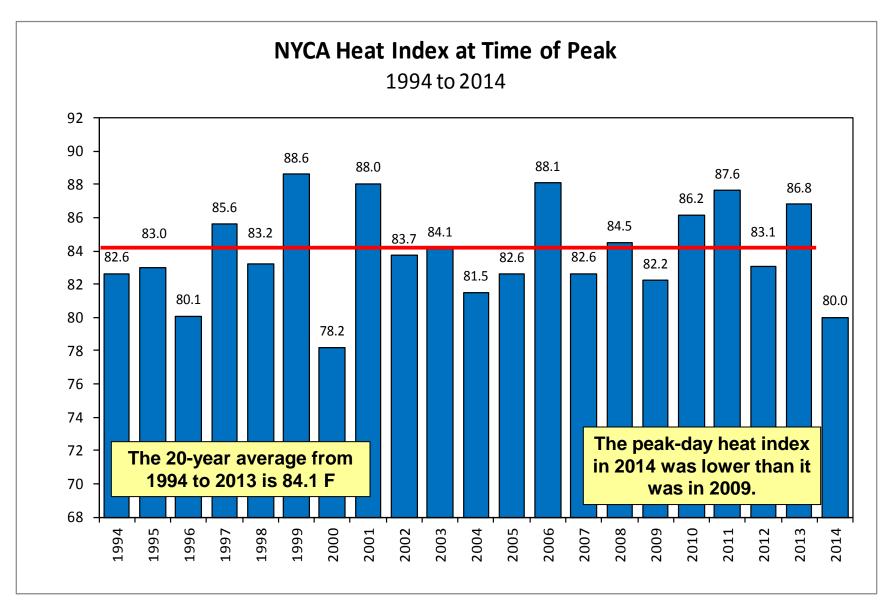




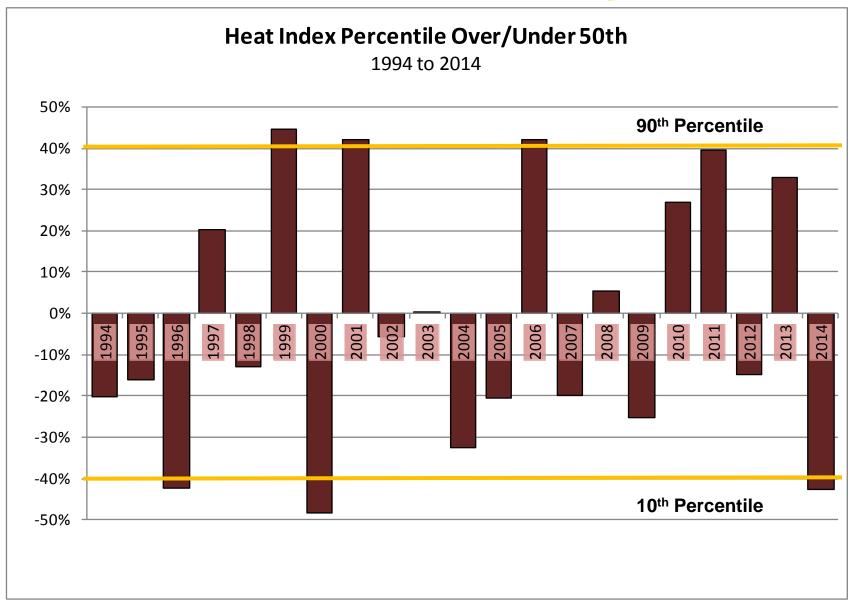






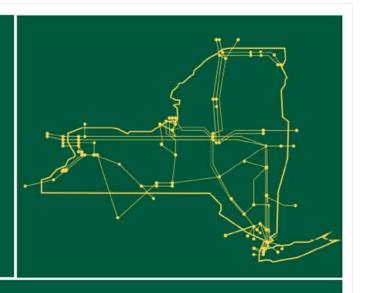








The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



www.nyiso.com