

2016 - 2018 RS-1 Budget: Energy Forecast

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Budget & Priorities Working Group Meeting

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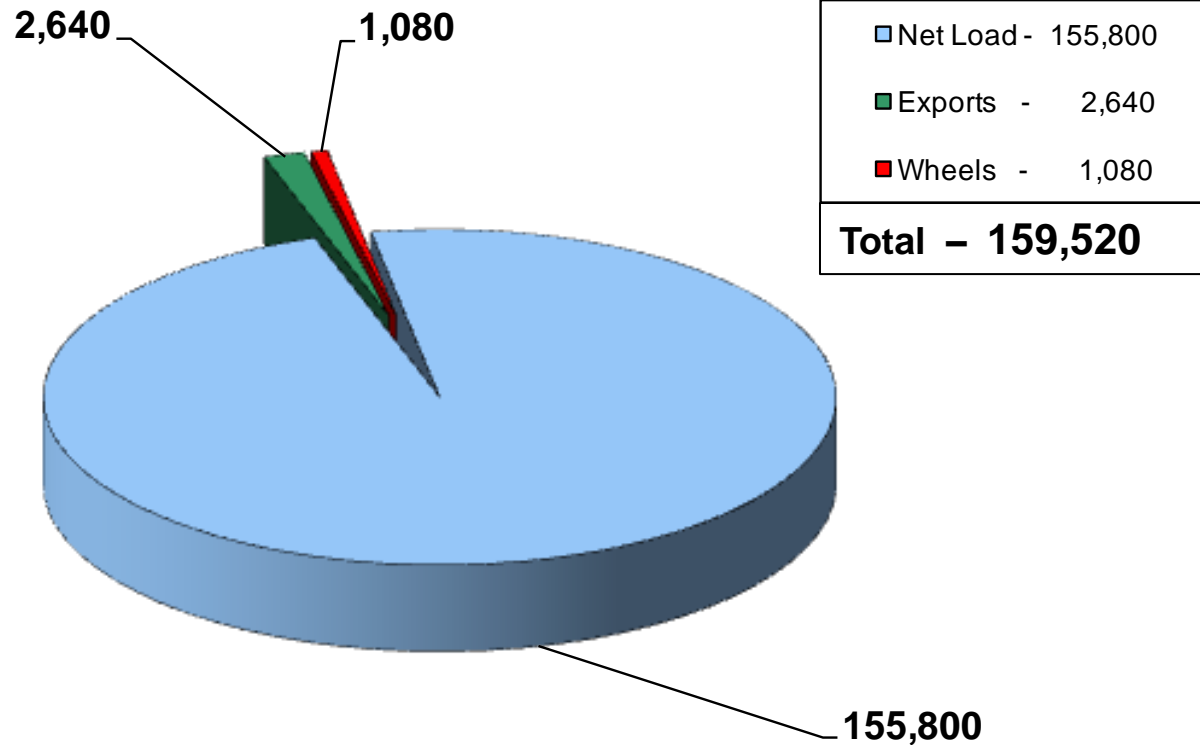
Rensselaer, NY

RS-1 Forecast Methodology

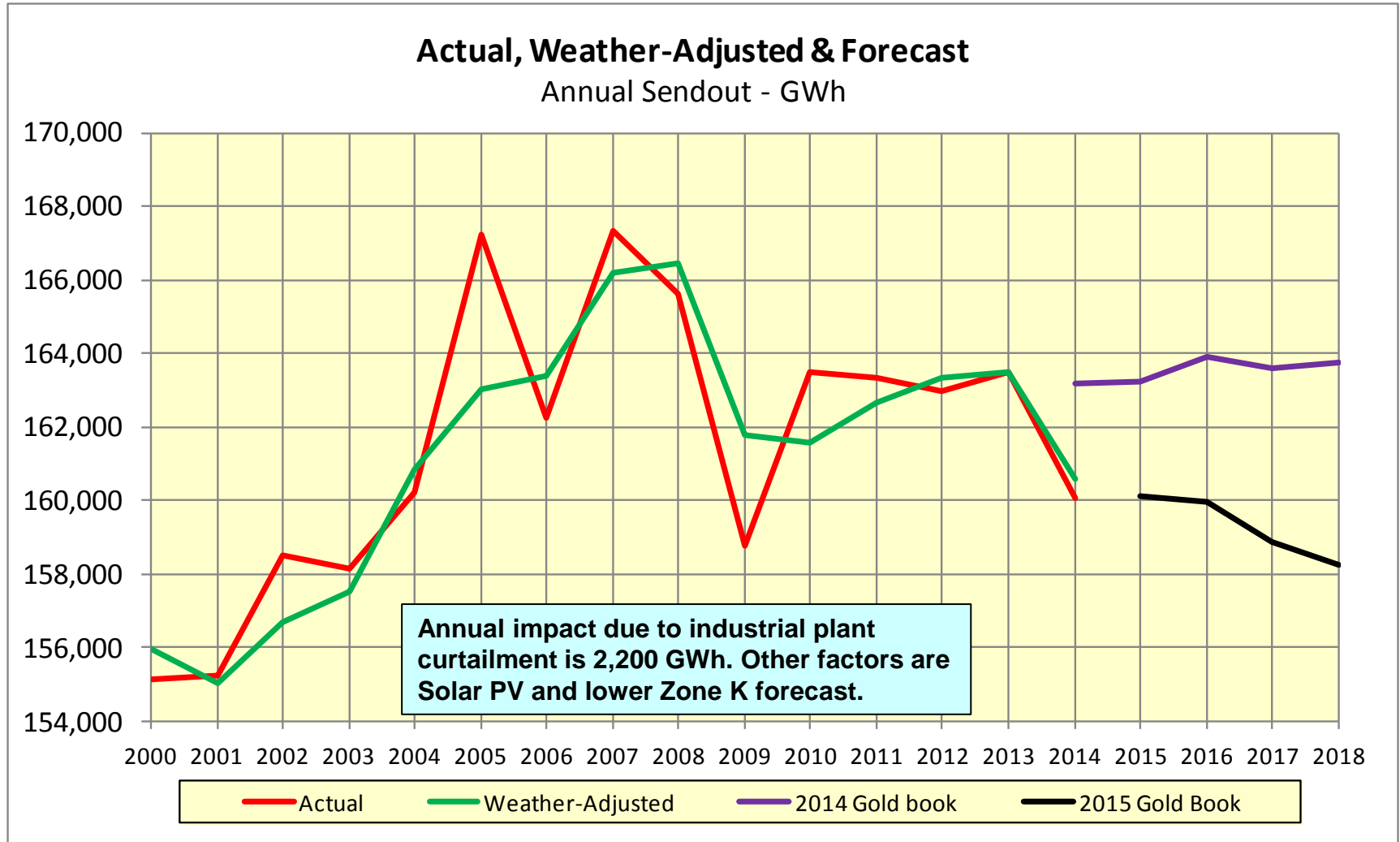
- ◆ **Net Energy** – Based on zonal econometric models, net of transmission losses.
 - *Energy Models:* Examined Moody's Analytics forecasts & reviewed current energy usage patterns. Budget forecast is lower than the 2014 Gold Book due to impact of industrial plant shutdown and a reduced Zone K forecast. Con-Ed continues to project year-over-year decreases in its annual energy forecast.
 - *EEPS & Solar PV Impact:* The budget forecast includes the same energy efficiency impacts and Solar PV as the Gold Book forecast. Solar PV impacts have been increasing since 2012.
- ◆ **Exports**
 - Annual levels determined by judgment & statistical analysis of recent history. Through August 2015, actual usage is ahead of budget, due to cold winter, resulting in large exports to ISO-NE. After 2015, these exports will no longer bring in RS-1 revenue due to CTS.
- ◆ **Wheels**
 - Annual levels determined by judgment & statistical analysis of recent history. Through August, 2015 actual is tracking on target with budget.

Three Components of Forecast

2016 RS-1 Forecast (GWh)

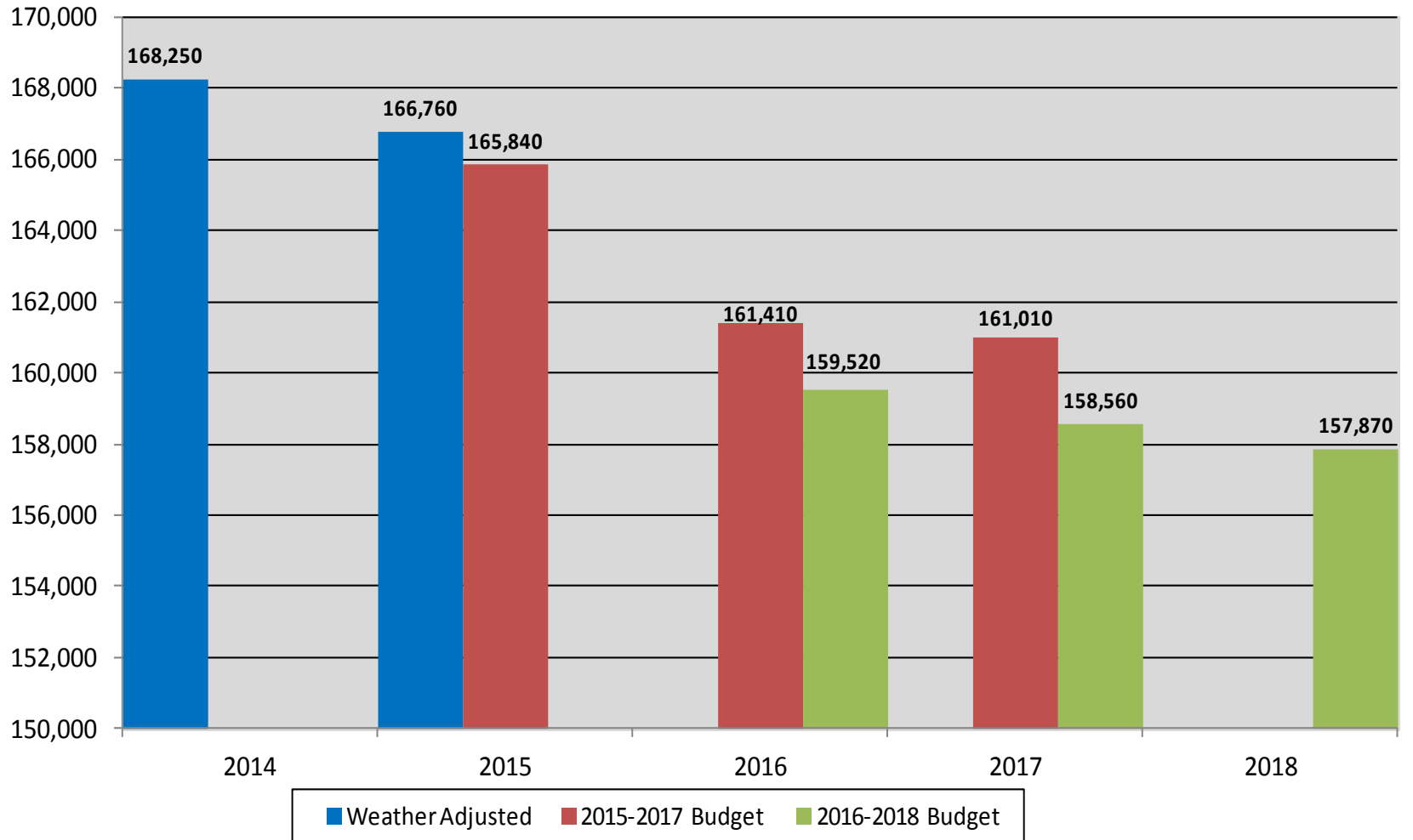


Budget Outlook Has Changed Since 2014

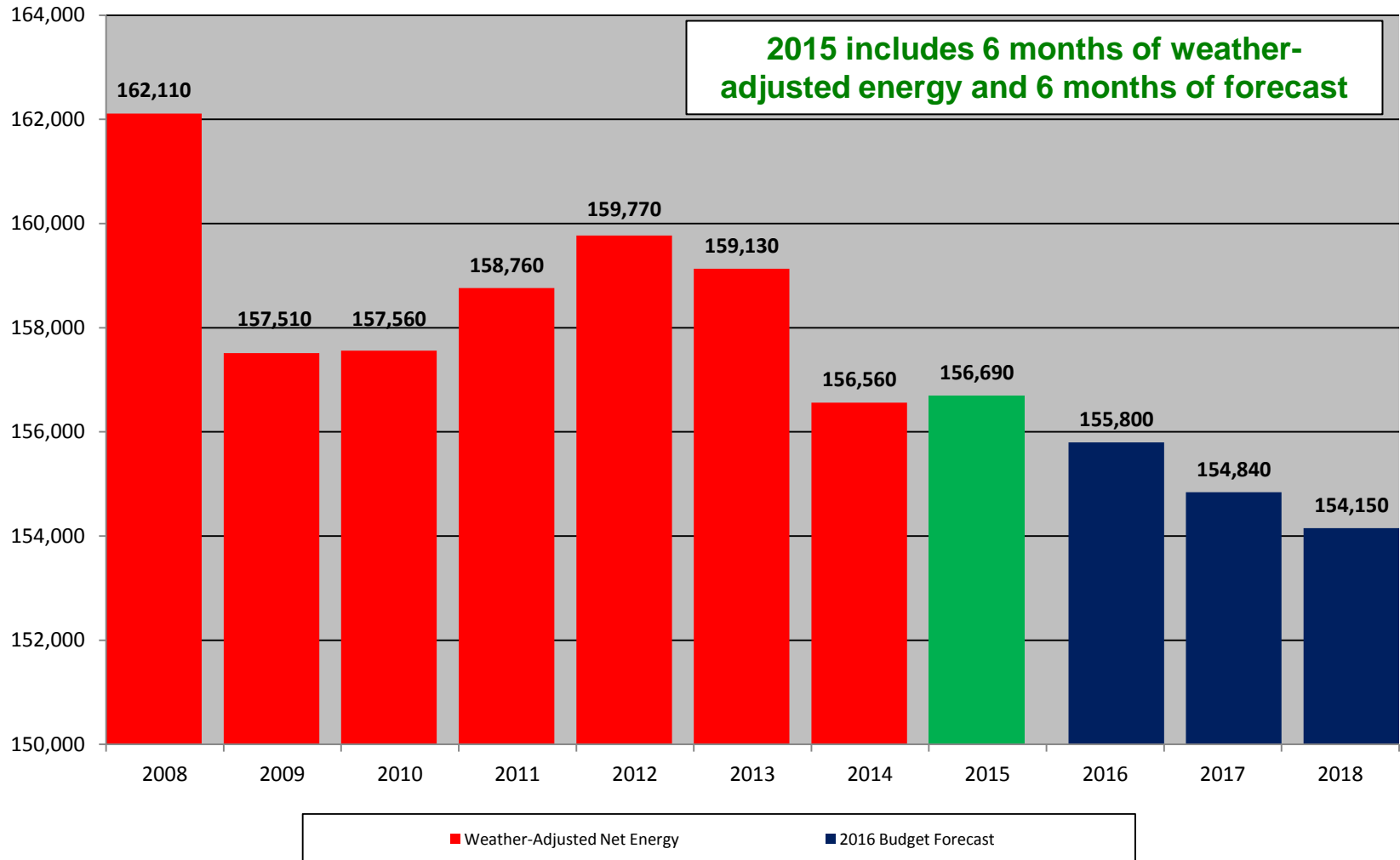


Note: Sendout includes bulk power system transmission losses; these are excluded from the net energy used in the RS-1 budget.

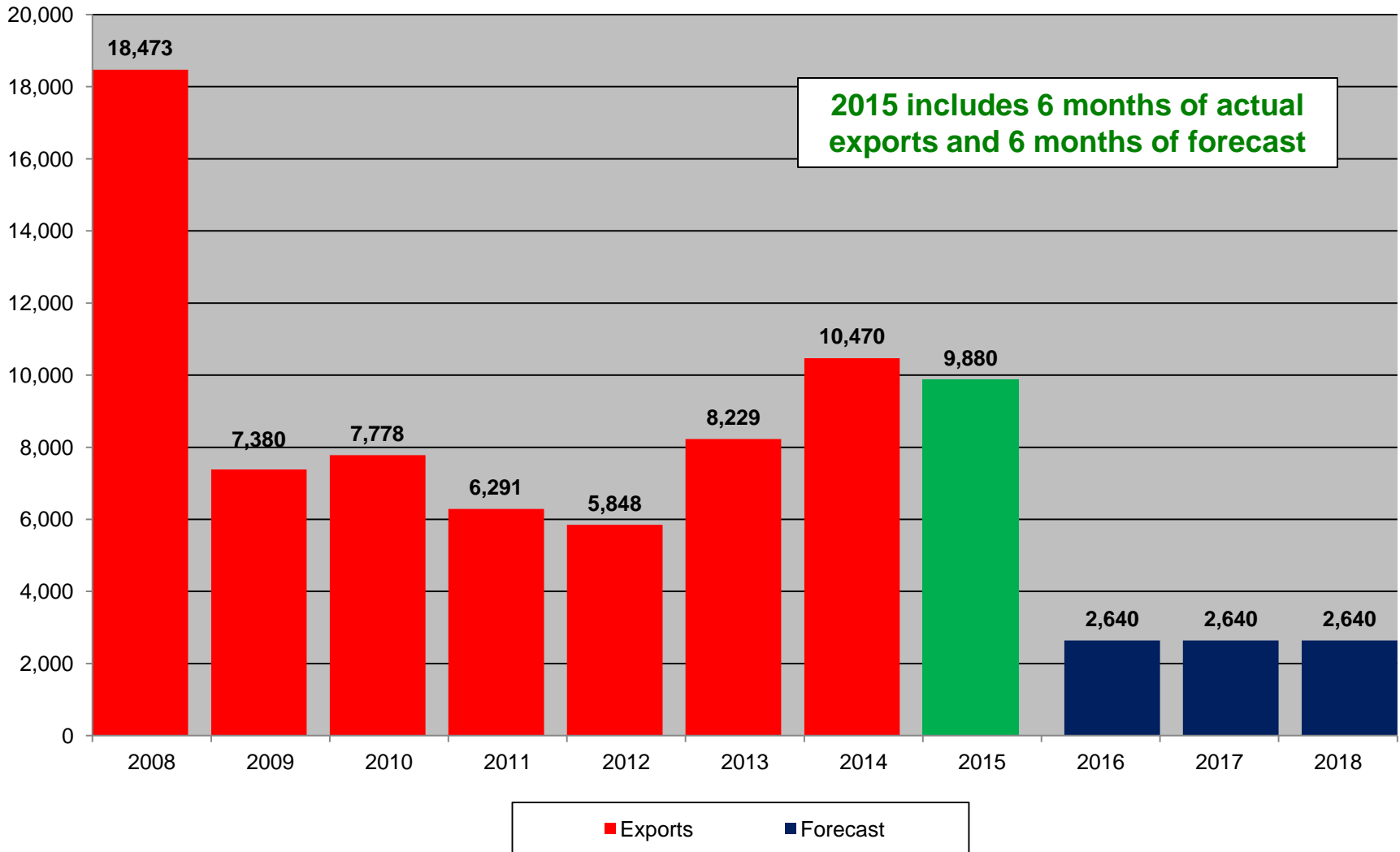
RS-1 Budget - 2015 & 2016 (GWh)



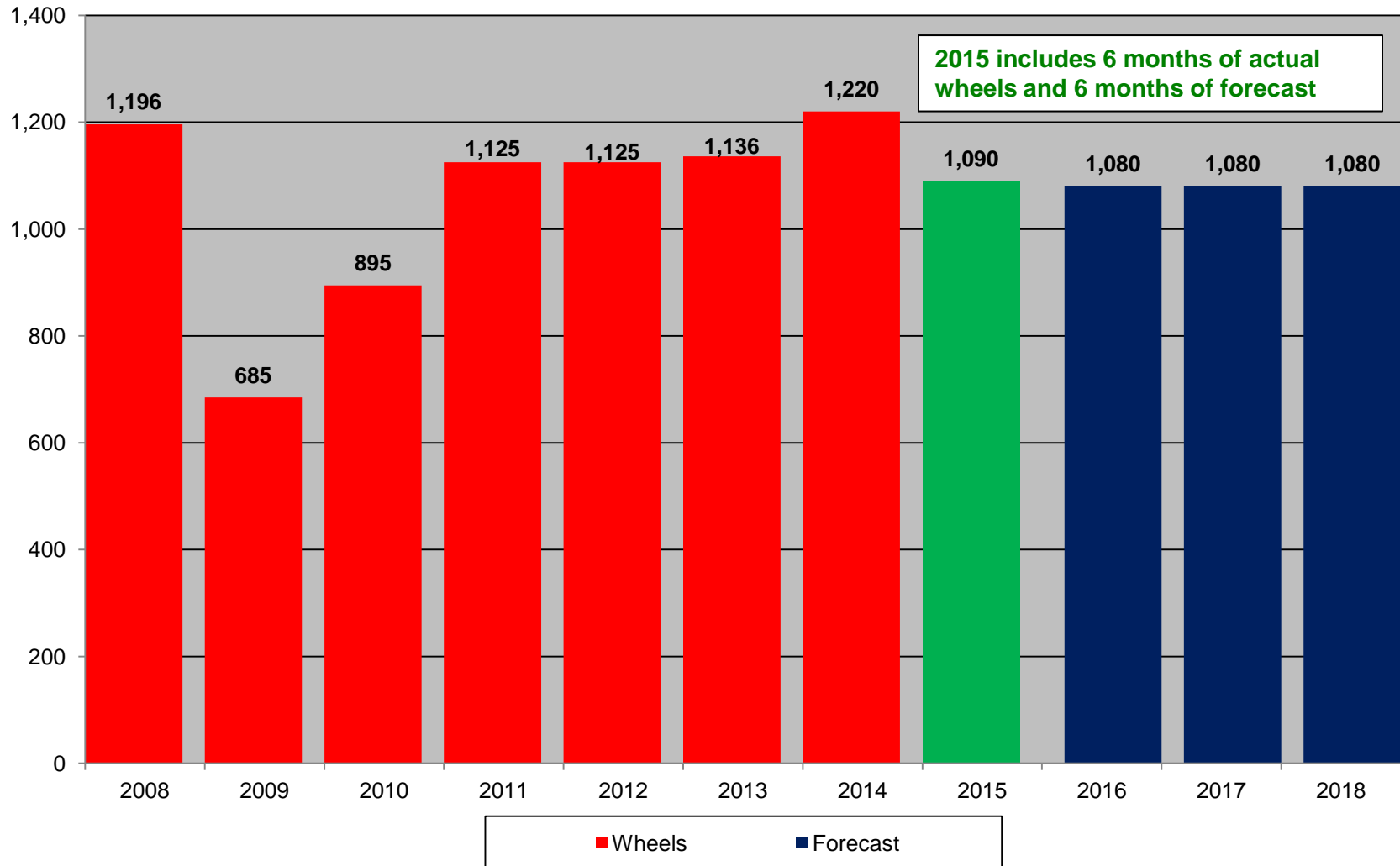
2016 - 2018 NYCA Net Energy Forecast - GWh



2016 - 2018 Exports Forecast - GWh



2016 - 2018 Wheels Forecast - GWh



RS-1 Budget Summary 2016-2018 (GWh)

Actual & Forecast Energy - GWh					
Year	Net Energy	Exports	Wheels	RS-1 Total	Forecast
2007	163,371	13,087	874	177,332	
2008	161,271	18,473	1,196	180,940	
2009	154,450	7,380	685	162,515	
2010	159,496	5,630	701	165,827	
2011	159,454	6,291	1,125	166,870	
2012	159,170	5,848	1,125	166,143	
2013	159,132	8,229	1,136	168,497	
2014	156,035	10,470	1,220	167,725	
2015 (1)	158,140	9,880	1,090	169,110	165,840
2016 (2)	155,800	2,640	1,080		159,520
2017	154,840	2,640	1,080		158,560
2018	154,150	2,640	1,080		157,870

(1) 2015 Includes 6 months actual & 6 months forecast.

(2) 2016 is a leap year; as a result the extra day in the year adds about 432 GWh to the forecast.

The 2015 Budget Forecast Update is 169,110 GWh.

RS-1 Budget - By Month

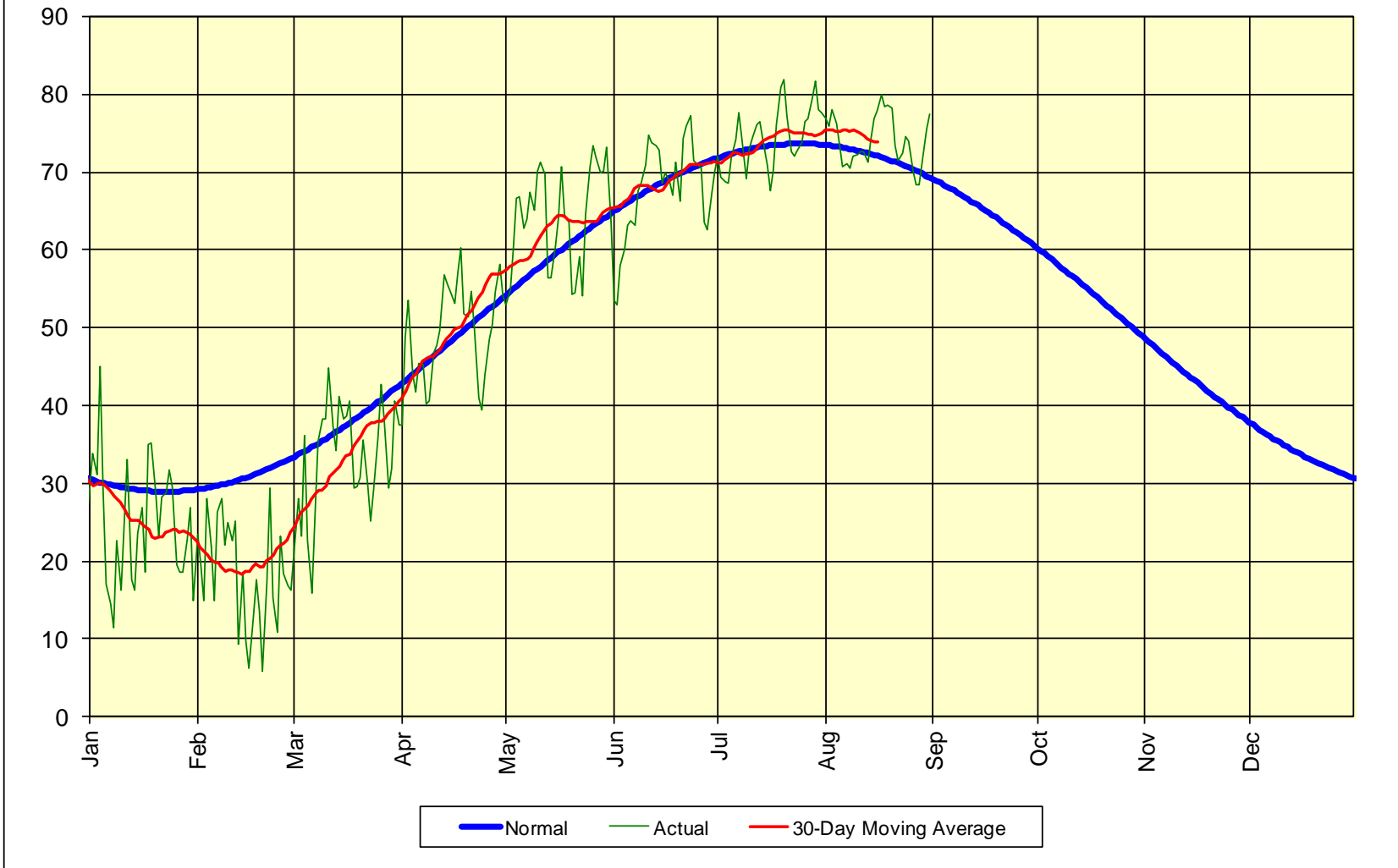
Actual and Forecast (GWh)

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1	15,930	15,290	14,430	14,460	14,020	14,680	15,800	15,330	13,800	13,750	13,690
2	14,560	12,800	12,880	12,730	12,670	13,470	14,140	14,660	12,740	12,270	12,220
3	14,800	13,250	12,970	13,430	12,710	13,750	14,540	14,670	12,890	12,840	12,790
4	13,440	12,290	11,800	12,240	12,110	12,450	12,190	12,190	11,640	11,600	11,550
5	14,260	12,600	13,160	13,020	13,310	12,970	12,510	12,960	12,210	12,170	12,120
6	16,500	13,040	15,020	14,590	14,360	14,220	14,180	13,750	13,920	13,880	13,820
7	18,630	14,700	17,800	17,540	17,350	17,710	15,690	16,320	15,820	15,770	15,700
8	16,390	16,150	16,460	15,850	16,630	15,190	14,800	16,120	15,600	15,550	15,480
9	14,610	12,950	13,120	13,850	13,550	13,280	13,650	13,720	13,210	13,170	13,110
10	13,500	12,650	12,920	13,070	12,590	12,740	12,710	12,790	12,210	12,170	12,110
11	13,730	12,290	12,110	12,440	12,850	13,130	13,210	12,640	12,060	12,020	11,970
12	14,590	14,500	13,990	13,630	13,990	14,900	14,300	13,960	13,420	13,370	13,310
Annual	180,940	162,510	166,660	166,850	166,140	168,490	167,720	169,110	159,520	158,560	157,870

Actual values in 2015 through June

Values are rounded to the nearest 10 GWh

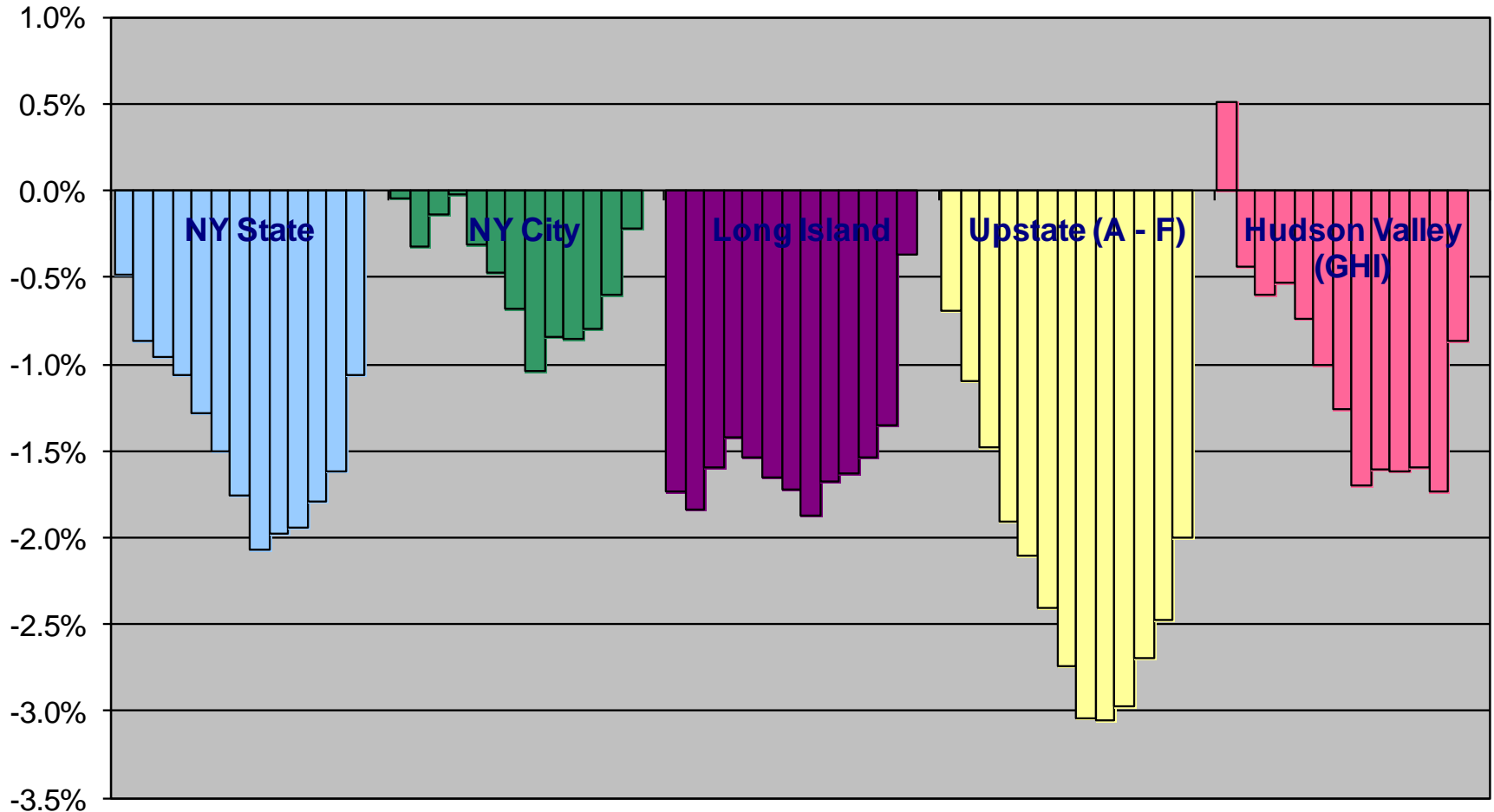
Average Daily Temperature - Normal vs 2015
 NYCA System-Wide Temperature



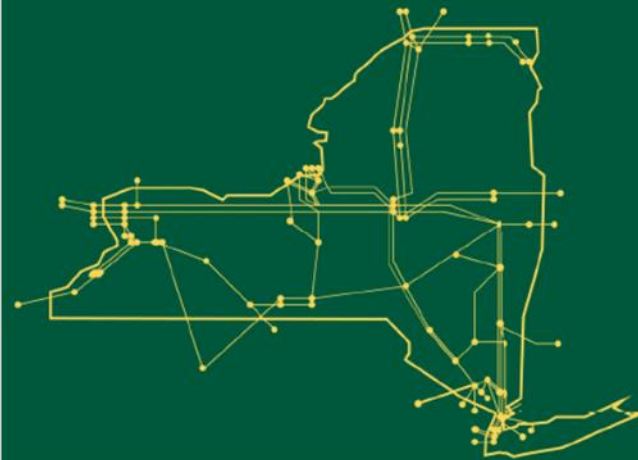
Weather-Adjusted Energy Growth Rates, Jun-2014 to Jun-2015

NYCA Sendout - 12-Month Moving Average Annual Growth Rate

Weather Normalized Growth, Jun-2014 to Jun-2015



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