



2010 Gold Book Forecast (Revised)

ESPWG
February 22, 2010

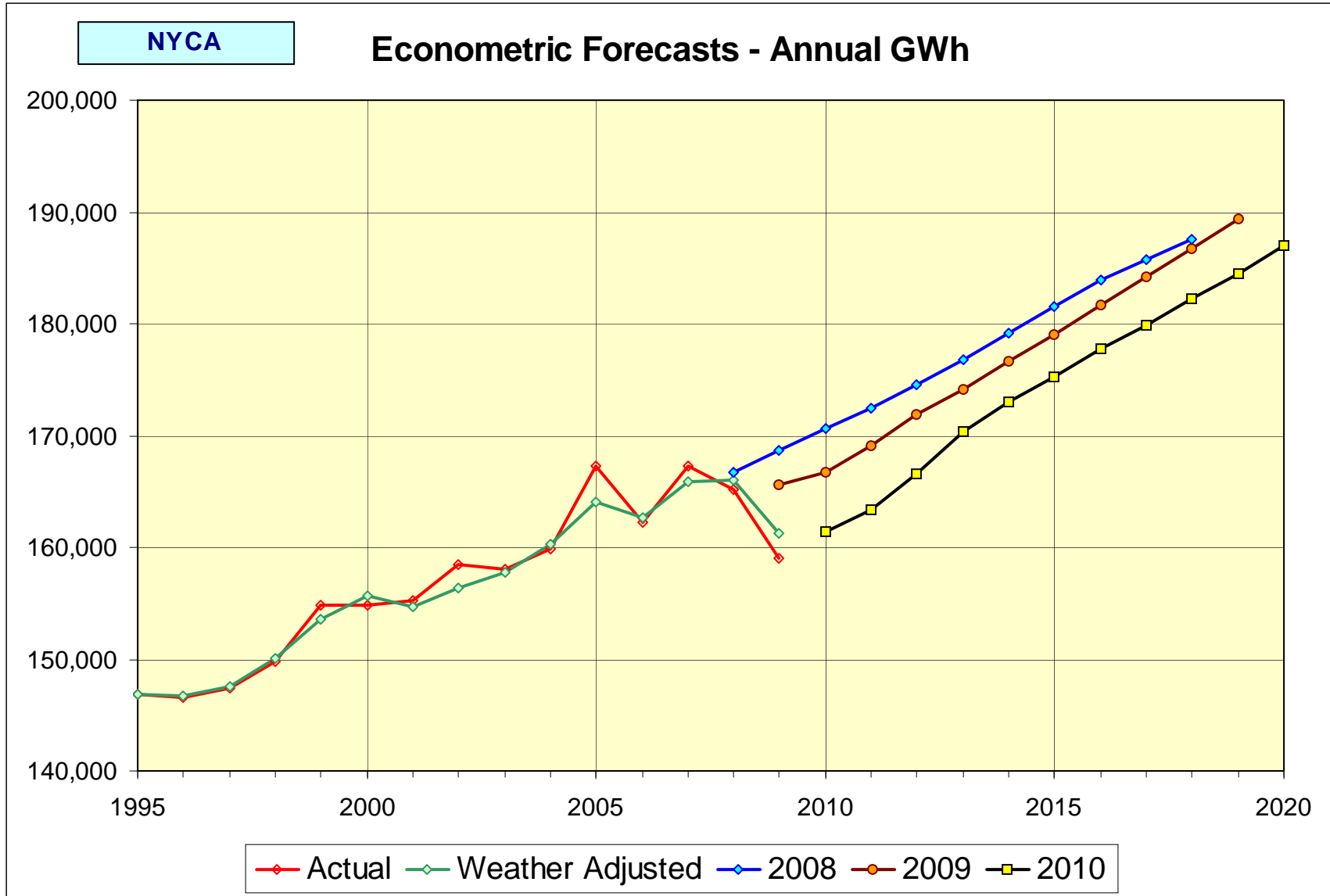
Arthur Maniaci
New York Independent System Operator

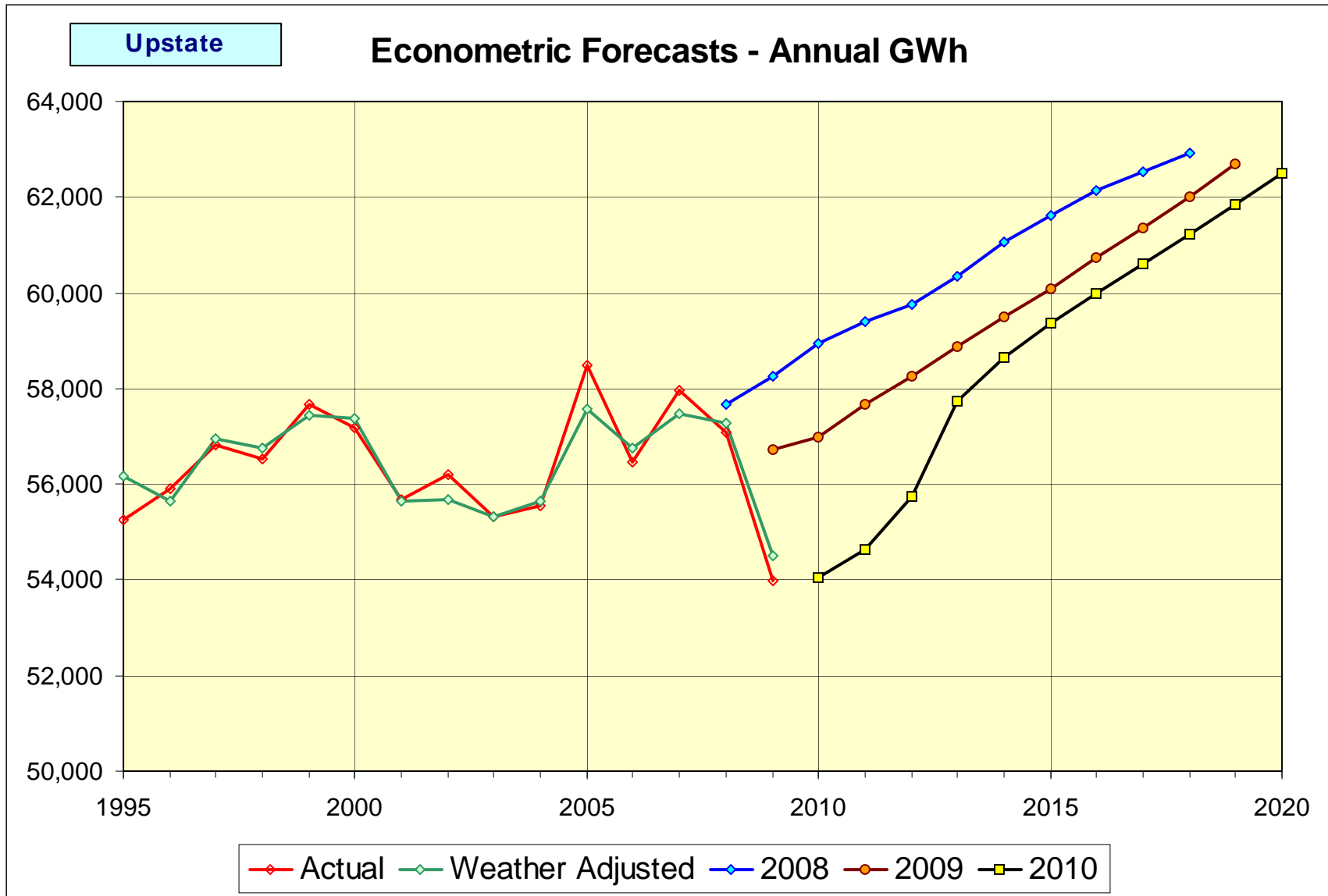
Draft – for discussion only

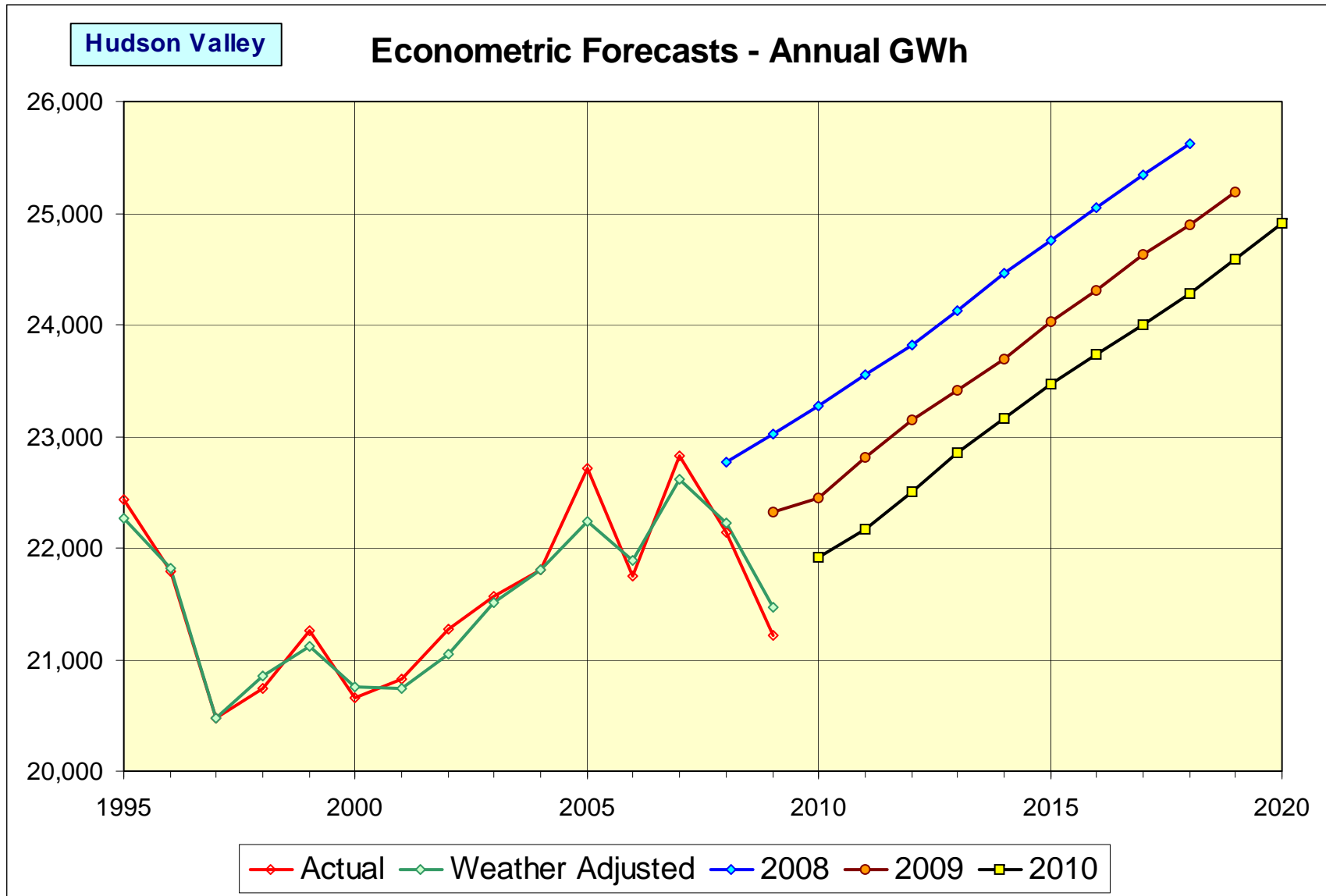
Econometric Forecasts

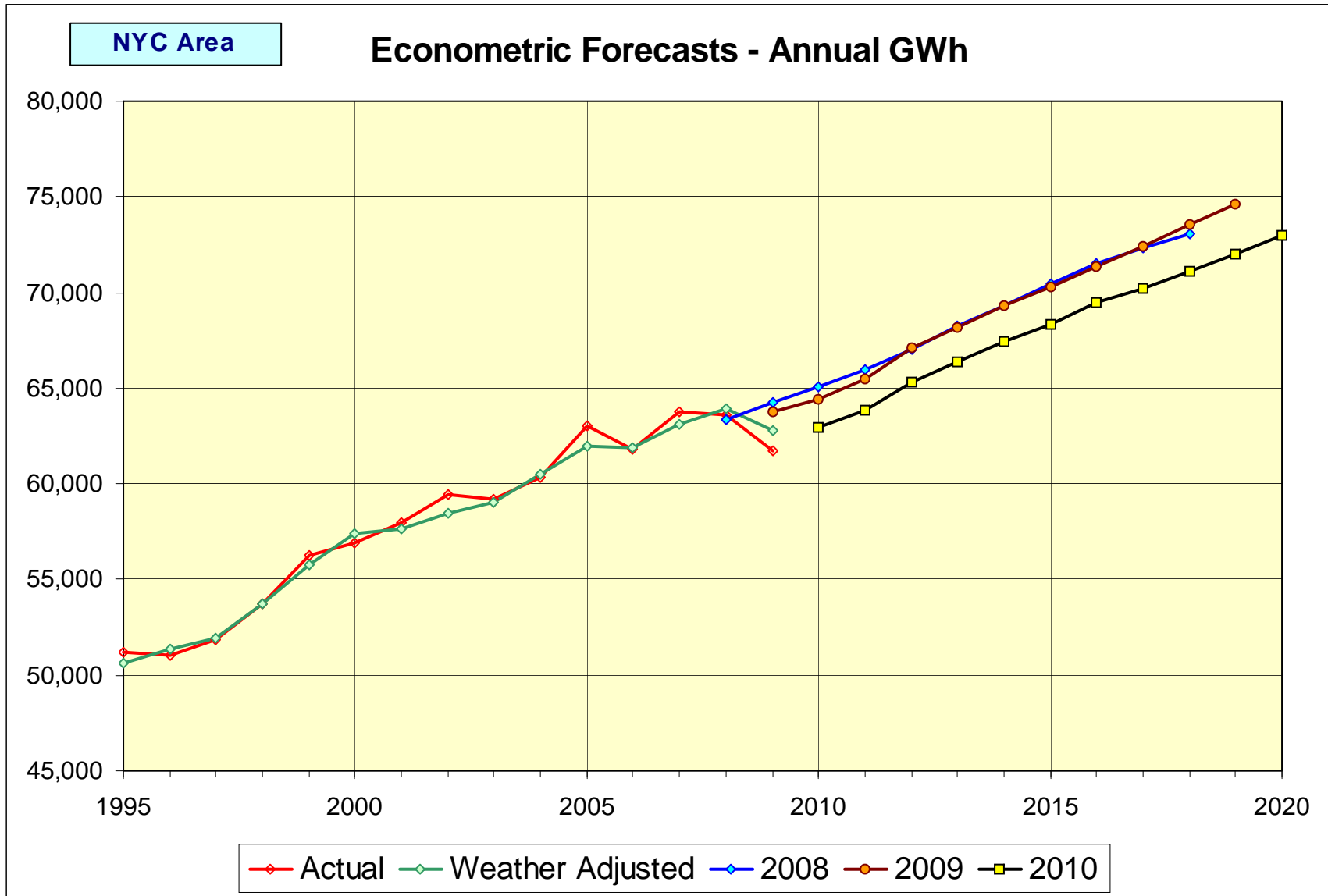
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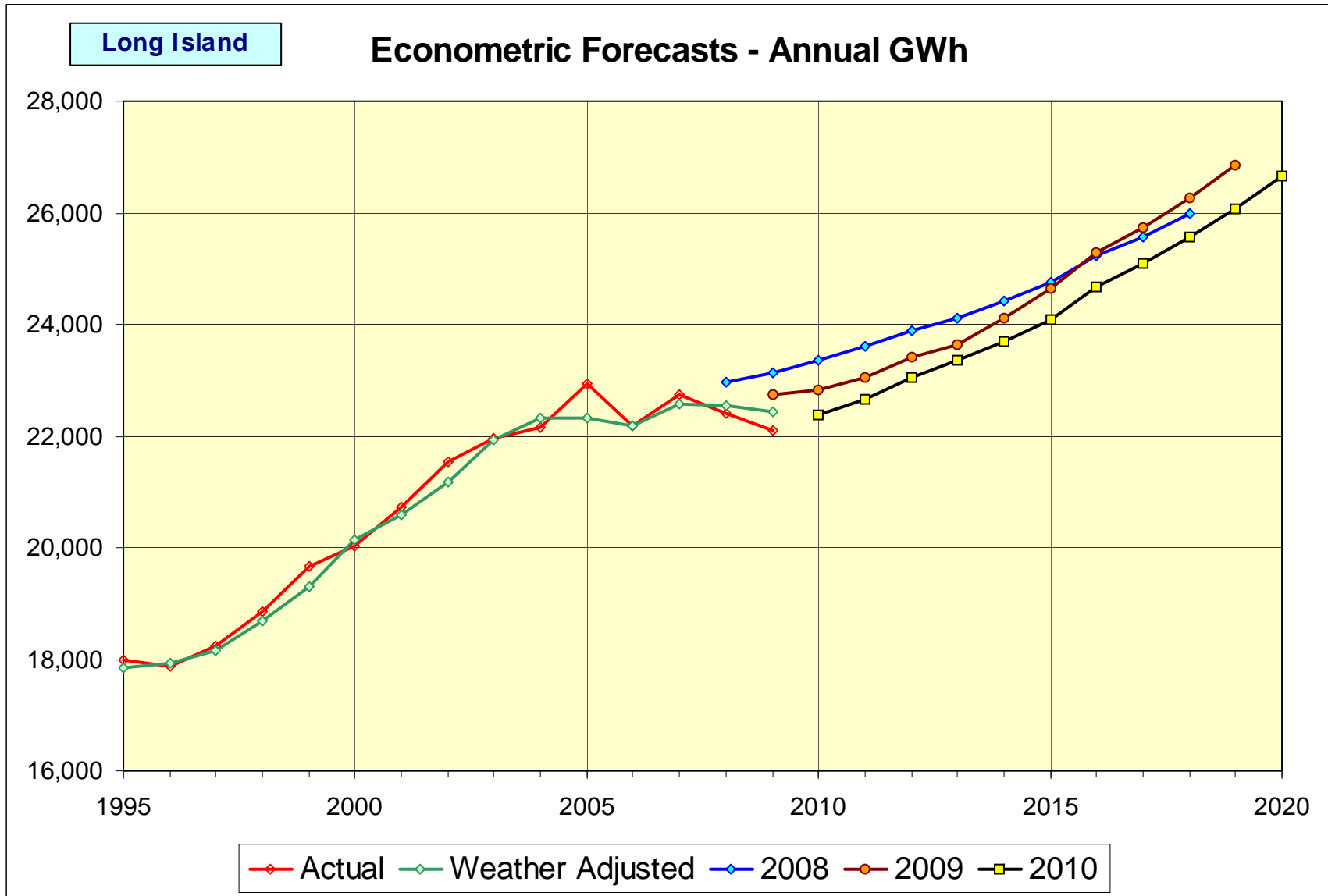
- ◆ Initial forecasts developed by NYISO
- ◆ Also received econometric forecasts from several utilities & agencies
- ◆ Review & compare results case by case
 - *Growth rate comparisons*
 - *Significant economic variables*
 - *Adjustments for large loads in specific zones*
- ◆ Final forecast adjustments made by NYISO



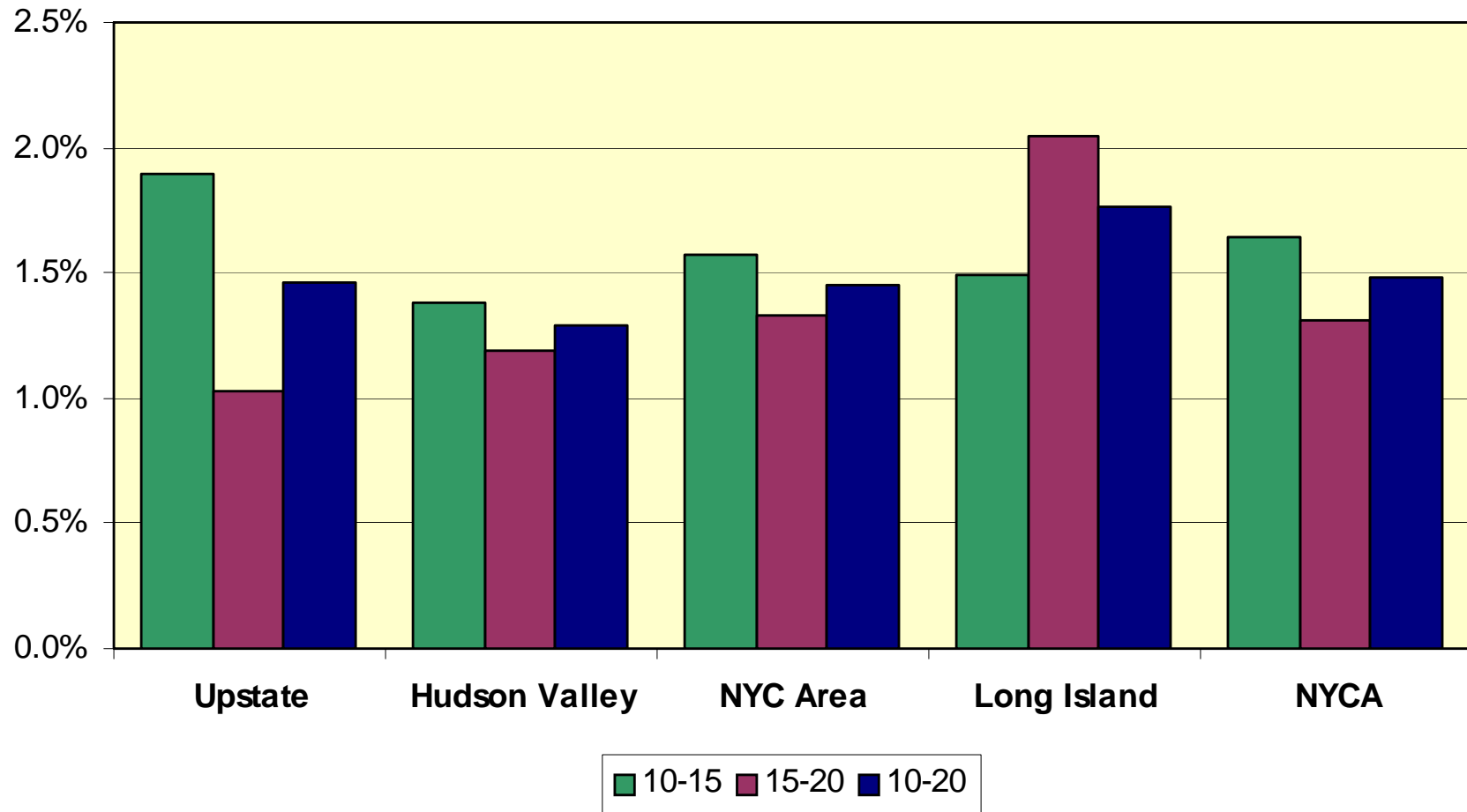








2010 Econometric Forecast - Annual Average Growth Rates



Econometric Forecasts

Annual GWh

Year	Upstate	Hudson Valley	NYC Area	Long Island	NYCA
2010	54,060	21,915	62,987	22,526	161,488
2011	54,630	22,165	63,866	22,798	163,459
2012	55,727	22,505	65,348	23,189	166,769
2013	57,744	22,856	66,396	23,518	170,513
2014	58,648	23,163	67,465	23,846	173,122
2015	59,378	23,475	68,339	24,248	175,439
2016	59,978	23,736	69,436	24,831	177,981
2017	60,590	23,994	70,174	25,239	179,998
2018	61,218	24,281	71,100	25,727	182,326
2019	61,853	24,590	72,024	26,227	184,694
2020	62,489	24,904	72,964	26,812	187,169

Annual Average Growth Rates - Percent					
10-15	1.9%	1.4%	1.6%	1.5%	1.7%
15-20	1.0%	1.2%	1.3%	2.0%	1.3%
10-20	1.5%	1.3%	1.5%	1.8%	1.5%

Energy Efficiency Impacts

Expected EEPS Impacts (no changes)

ELECTRICITY PROGRAMS

<u>Budget - (\$000)</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
NYSERDA	\$18,802	\$87,730	\$107,604	\$104,550	\$110,000	\$110,000	\$110,000	\$110,000
Central Hudson	-	4,009	7,516	7,874	8,000	8,000	8,000	8,000
Con Edison	-	25,797	84,934	91,779	92,000	92,000	92,000	92,000
NYSEG	-	-	11,720	15,687	16,000	16,000	16,000	16,000
Niagara Mohawk	-	19,288	55,930	58,616	60,000	60,000	60,000	60,000
O&R	-	2,838	5,484	5,484	5,000	5,000	5,000	5,000
RG&E	-	-	6,870	9,134	9,000	9,000	9,000	9,000
Total Dollars	\$18,802	\$139,663	\$280,057	\$293,123	\$300,000	\$300,000	\$300,000	\$300,000

Savings (GWh)

NYSERDA	62	420	663	868	913	913	913	913
Central Hudson	-	13	22	23	24	24	24	24
Con Edison	-	82	196	218	219	219	219	219
NYSEG	-	-	36	49	50	50	50	50
Niagara Mohawk	-	69	240	250	256	256	256	256
O&R	-	10	20	20	18	18	18	18
RG&E	-	-	19	27	27	27	27	27
Total Energy	62	594	1,196	1,456	1,506	1,506	1,506	1,506

2008 – 2011 from DPS; 2012 – 2015 is a likely projection.

Accounting for Spending Lag (1)

NYSERDA-EEPS		Calendar Year - Implementation Fractions											
Annual Goal - GWh	Program Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
483	2009	0.2	0.3	0.5									
663	2010		0.3	0.4	0.3								
868	2011			0.4	0.4	0.2							
913	2012				0.4	0.4	0.2						
913	2013					0.4	0.4	0.2					
913	2014						0.4	0.4	0.2				
913	2015							0.4	0.4	0.2			

		Calendar Year - GWh Achievements											
Program Year		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2009		97	145	241									
2010			199	265	199								
2011				347	347	174							
2012					365	365	183						
2013						365	365	183					
2014							365	365	183				
2015								365	365	183			
Annual GWh		97	344	854	911	904	913	913	548	183	0	0	0

Accounting for Spending Lag (2)

Utility-EEPS		Calendar Year - Implementation Fractions for Each Vintage											
Annual Goal - GWh	Program Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
174	2009	0.2	0.3	0.5									
533	2010		0.3	0.4	0.3								
588	2011			0.4	0.4	0.2							
595	2012				0.4	0.4	0.2						
595	2013					0.4	0.4	0.2					
595	2014						0.4	0.4	0.2				
595	2015							0.4	0.4	0.2			

Calendar Year - GWh Achievements for Each Vintage												
Program Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2009	35	52	87									
2010		160	213	160								
2011			235	235	118							
2012				238	238	119						
2013					238	238	119					
2014						238	238	119				
2015							238	238	119			
Annual GWh	35	212	535	633	594	595	595	357	119	0	0	0

Summary of All NY EE Impacts

Revised

Year	LIPA	NYPA	Other State Agencies	NYSERDA SBC 3	Utilities + T&D	Codes & Standards	EEPS - NYSERDA	EEPS - Utilities	Achieved Annual GWh	Achieved Cumulative GWh
2010	240	60	0	120	0	0	216	134	770	770
2011	162	60	0	120	0	0	538	337	1,217	1,987
2012	156	120	0	120	0	425	574	399	1,794	3,781
2013	141	240	0	120	0	425	570	374	1,870	5,651
2014	115	240	0	120	0	297	575	375	1,722	7,373
2015	183	240	0	120	0	297	575	375	1,790	9,163
2016	162	120	0	120	0	297	345	225	1,269	10,432
2017	131	60	0	120	0	0	115	75	501	10,933
2018	132	60	0	120	0	0	0	0	312	11,245
2019	121	60	0	120	0	0	0	0	301	11,545
2020	88	60	0	120	0	0	0	0	268	11,813
GWh	1,630	1,320	0	1,320	0	1,742	3,508	2,294	11,813	
Goal	2,337	1,894		3,775		8,572	5,014	3,277	24,870	
Pct	70%	70%		35%		20%	70%	70%	48%	

Cumulative Energy Impacts by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2010	56	36	59	25	28	42	39	10	30	204	241	770
2011	167	106	176	73	84	125	117	29	90	614	406	1,987
2012	337	213	354	147	168	252	235	58	174	1,214	629	3,781
2013	516	326	543	225	257	387	361	89	264	1,841	841	5,651
2014	684	432	720	299	341	512	478	119	350	2,429	1,007	7,373
2015	852	539	897	372	425	638	595	148	435	3,018	1,242	9,163
2016	967	611	1,018	422	482	724	675	168	492	3,421	1,452	10,432
2017	1,006	636	1,059	440	502	754	703	174	512	3,562	1,584	10,933
2018	1,026	648	1,080	448	512	768	717	178	521	3,629	1,718	11,245
2019	1,045	660	1,100	457	521	783	730	181	530	3,696	1,841	11,545
2020	1,065	673	1,121	465	531	797	744	185	539	3,764	1,931	11,813
Zonal Pct	6.3%	5.9%	6.1%	6.5%	6.0%	6.3%	6.1%	5.2%	7.4%	6.1%	7.2%	6.3%

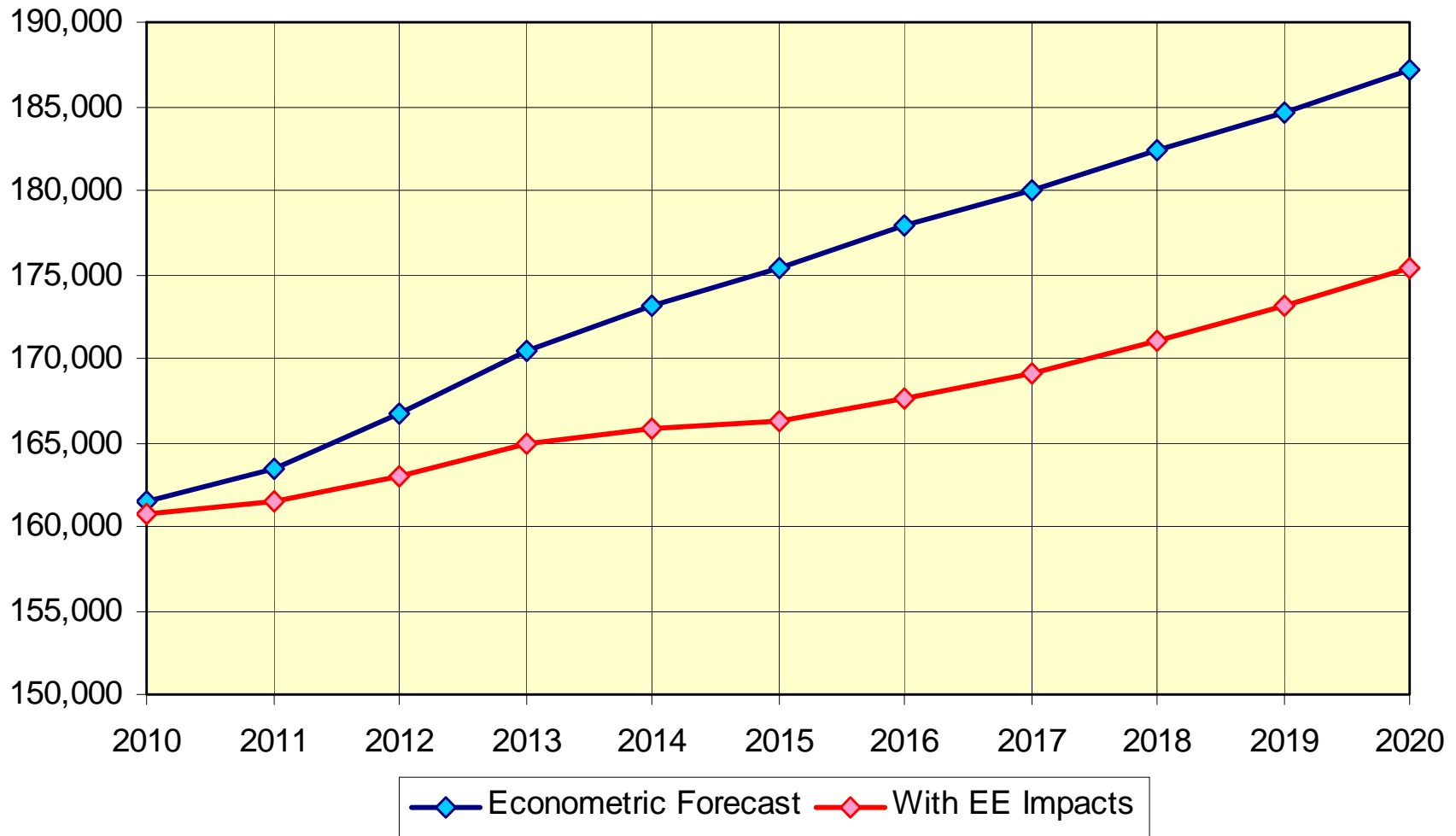
Peak Demand Impacts by Zone – MW (under development)

2010 Gold Book Forecast

2010 Gold Book Forecast Annual Energy - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2010	15,366	9,994	16,249	4,234	8,014	11,385	10,449	3,009	5,868	53,866	22,284	160,718
2011	15,321	9,986	16,324	4,365	8,028	11,439	10,484	3,050	5,933	54,150	22,393	161,472
2012	15,227	9,995	16,370	4,910	8,007	11,451	10,567	3,041	5,967	54,894	22,560	162,988
2013	15,172	10,045	16,441	6,214	8,004	11,457	10,652	3,034	6,021	55,147	22,677	164,863
2014	15,234	10,107	16,491	6,340	7,999	11,473	10,700	3,062	6,118	55,387	22,839	165,750
2015	15,246	10,134	16,547	6,366	7,999	11,491	10,750	3,090	6,181	55,467	23,006	166,276
2016	15,277	10,185	16,601	6,379	8,037	11,527	10,810	3,140	6,289	55,926	23,379	167,549
2017	15,383	10,288	16,735	6,429	8,112	11,620	10,918	3,182	6,376	56,368	23,655	169,065
2018	15,512	10,402	16,893	6,501	8,197	11,729	11,068	3,238	6,494	57,040	24,009	171,081
2019	15,641	10,521	17,052	6,572	8,283	11,839	11,238	3,295	6,618	57,704	24,386	173,149
2020	15,772	10,642	17,213	6,640	8,368	11,951	11,412	3,357	6,752	58,367	24,882	175,356

2010 Long Term Energy Forecast - GWh



2010 Gold Book Forecast Summer Peak Demand – MW (under development)

Note: 2010 peak forecast is the ICAP Forecast.



The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for state's bulk electricity system.

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