

August 14 Peak Reduction

Special Case Resource / EDRP

8/14/2002, 4 PM

	<u>MW</u>
SCR Only Resources	239
SCR / EDRP Overlap Resources	953
Total	1,192

**Hour
Ended**

**EDRP
MW**

2:00 PM

970

3:00 PM

970

4:00 PM

1,170

5:00 PM

970

6:00 PM

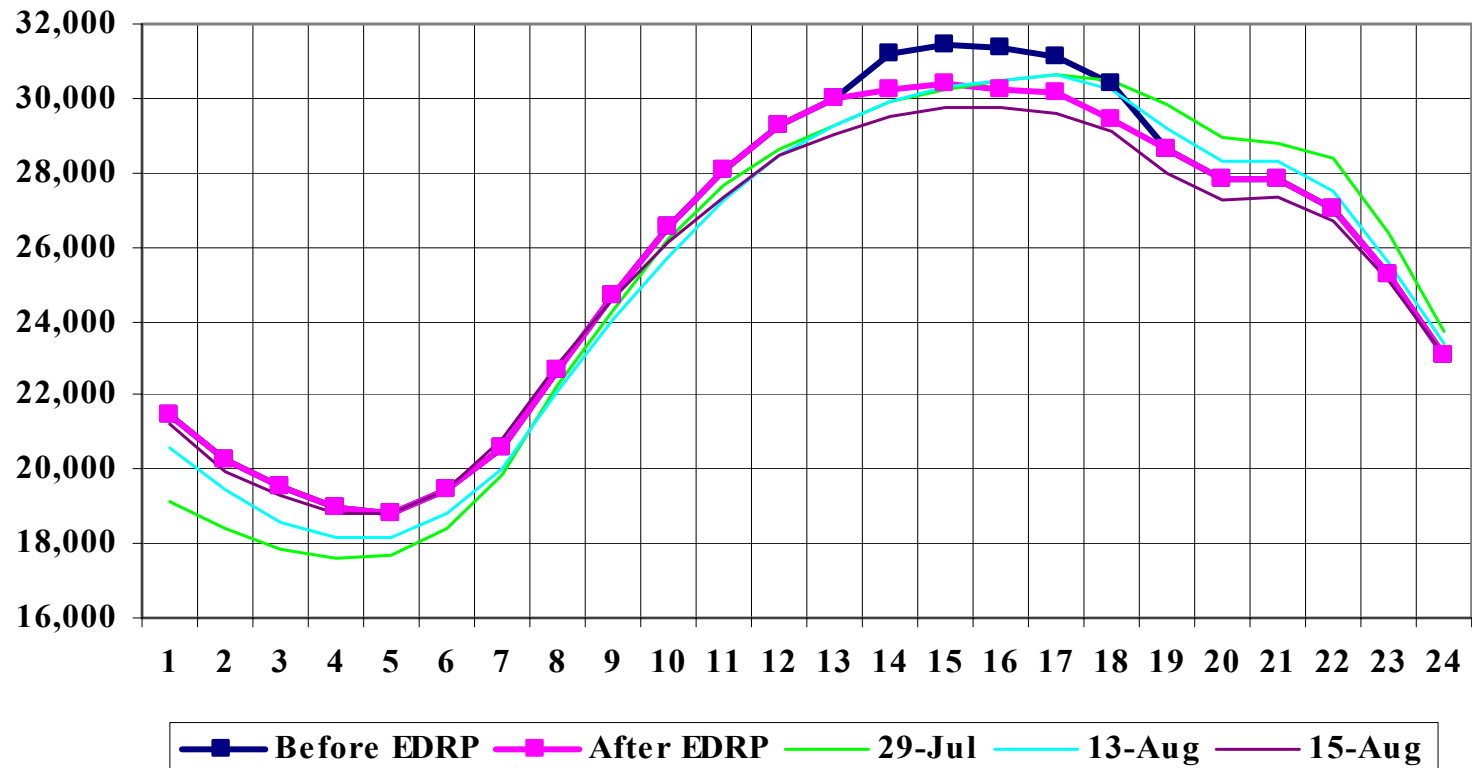
970

Peak Hour

Max EDRP Hour

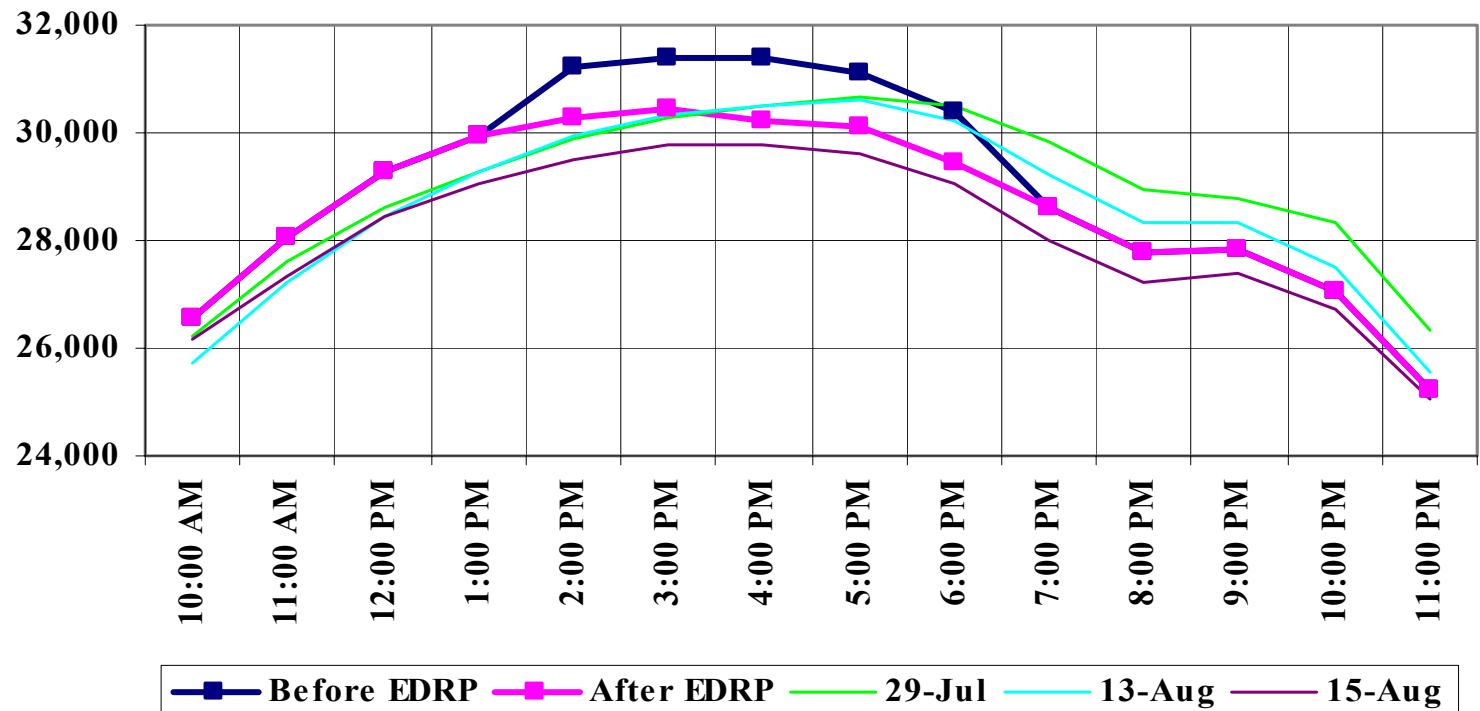
EDRP Load Shapes

8/14



EDRP Load Shapes

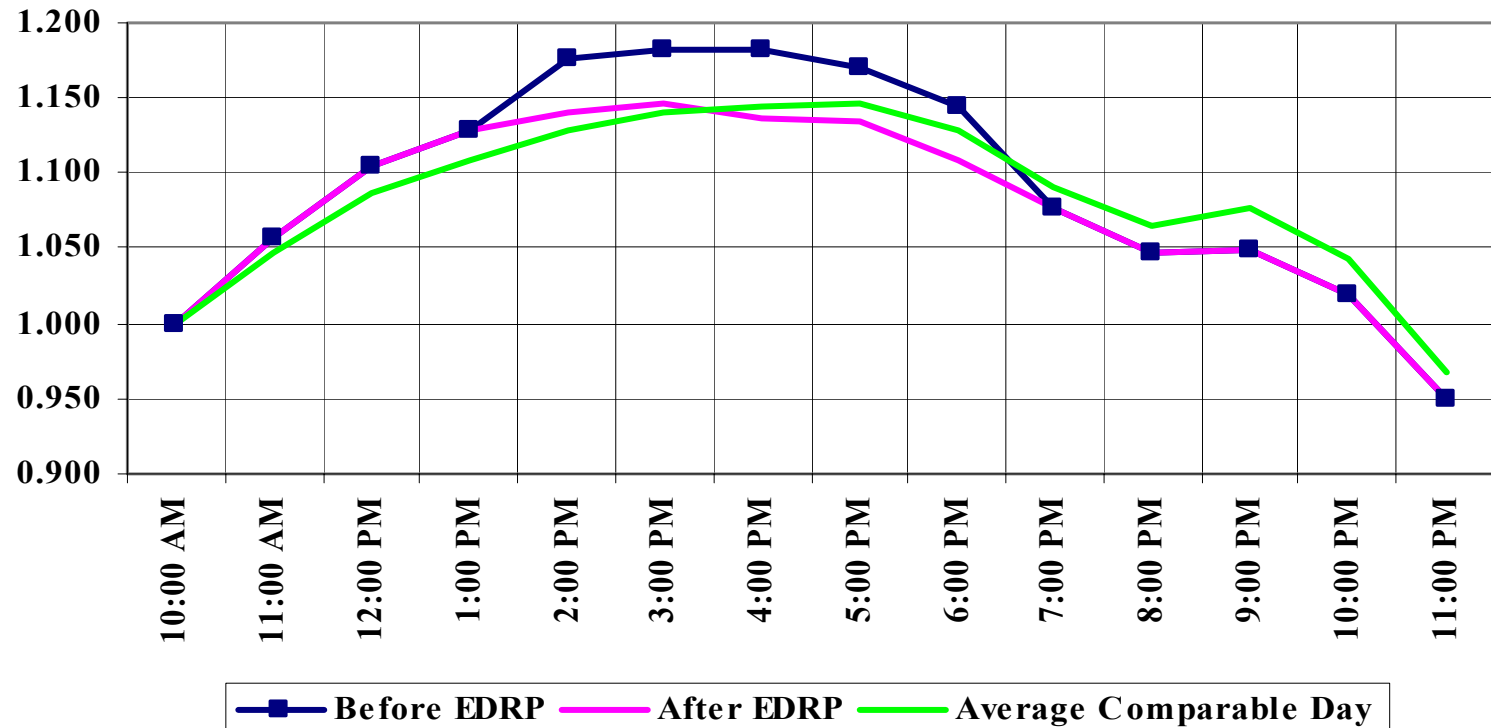
8/14
10 AM - 11 PM



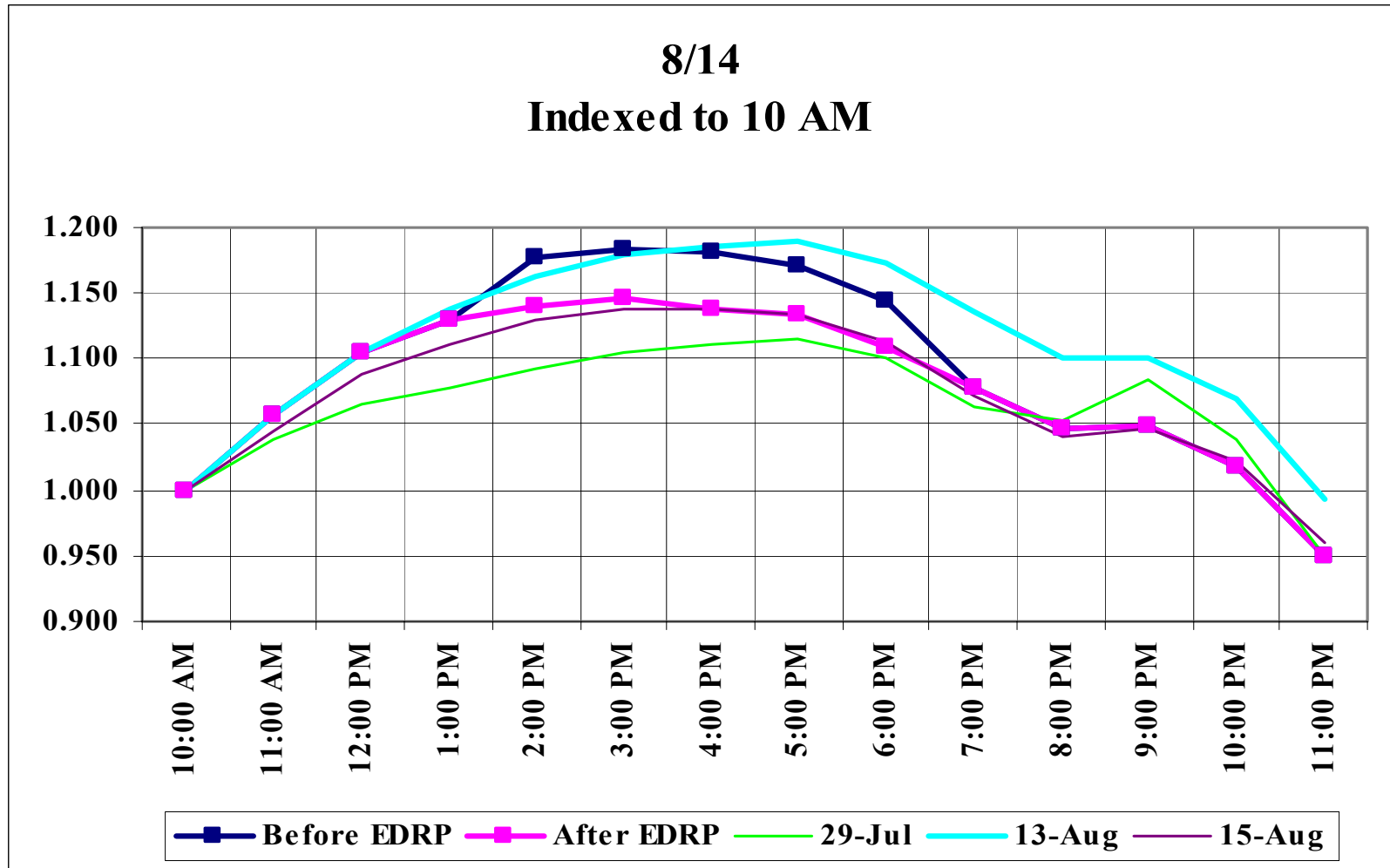
EDRP Load Shapes

8/14

Indexed to 10 AM



EDRP Load Shapes



EDRP Load Shapes

Day-ahead Forecast Errors and EDRP Impacts (MW)

<u>Date</u>	<u>Forecast</u>	<u>Weather Adj Forecast</u>	<u>Actual</u>	<u>Error</u>	<u>Weather Adj Error</u>
2-Jul-02	28,861	29,393	30,258	(1,397)	(865)
3-Jul-02	29,464	30,283	30,520	(1,056)	(237)
29-Jul-02	29,288	30,219	30,664	(1,376)	(445)
30-Jul-02	30,052	29,989	29,352	700	637
13-Aug-02	29,060	30,142	30,596	(1,536)	(454)
14-Aug-02	30,136	30,738	30,432	(296)	306
Average W/A Error, Non-EDRP Days					(500)
Average Error, EDRP Days					472
Difference					(972)

NYCA 2002 Peak Days

<u>NYCA 2002 Five Highest Peak Days</u>					
	<u>29-Jul</u>	<u>13-Aug</u>	<u>3-Jul</u>	<u>14-Aug</u>	<u>2-Jul</u>
Peak Hour	17	17	16	15	17
Week Day	Mon	Tue	Wed	Wed	Tue
Actual Load	30,664	30,596	30,520	30,432	30,258
Load Relief Measures					
EDRP/SCR	0	0	0	970	0
TO Programs	14	8	12	38	8
Appeals, Volt Reduc	-	-	-	-	-
Other	-	-	-	-	-
Total	14	8	12	1,008	8
Actual Load + LRM	30,678	30,604	30,532	31,440	30,266
Weather					
NYISO Index	81.19	80.87	83.26	82.19	82.22
Design Conditions	81.43	81.43	81.43	81.43	81.43
Design - Observed	0.24	0.56	(1.83)	(0.76)	(0.79)
MW / Degree	580	580	580	580	580
Weather Adjustment	142	327	(1,061)	(443)	(457)
Annual Adjusted Peak Load	30,820	30,930	29,470	31,000	29,810

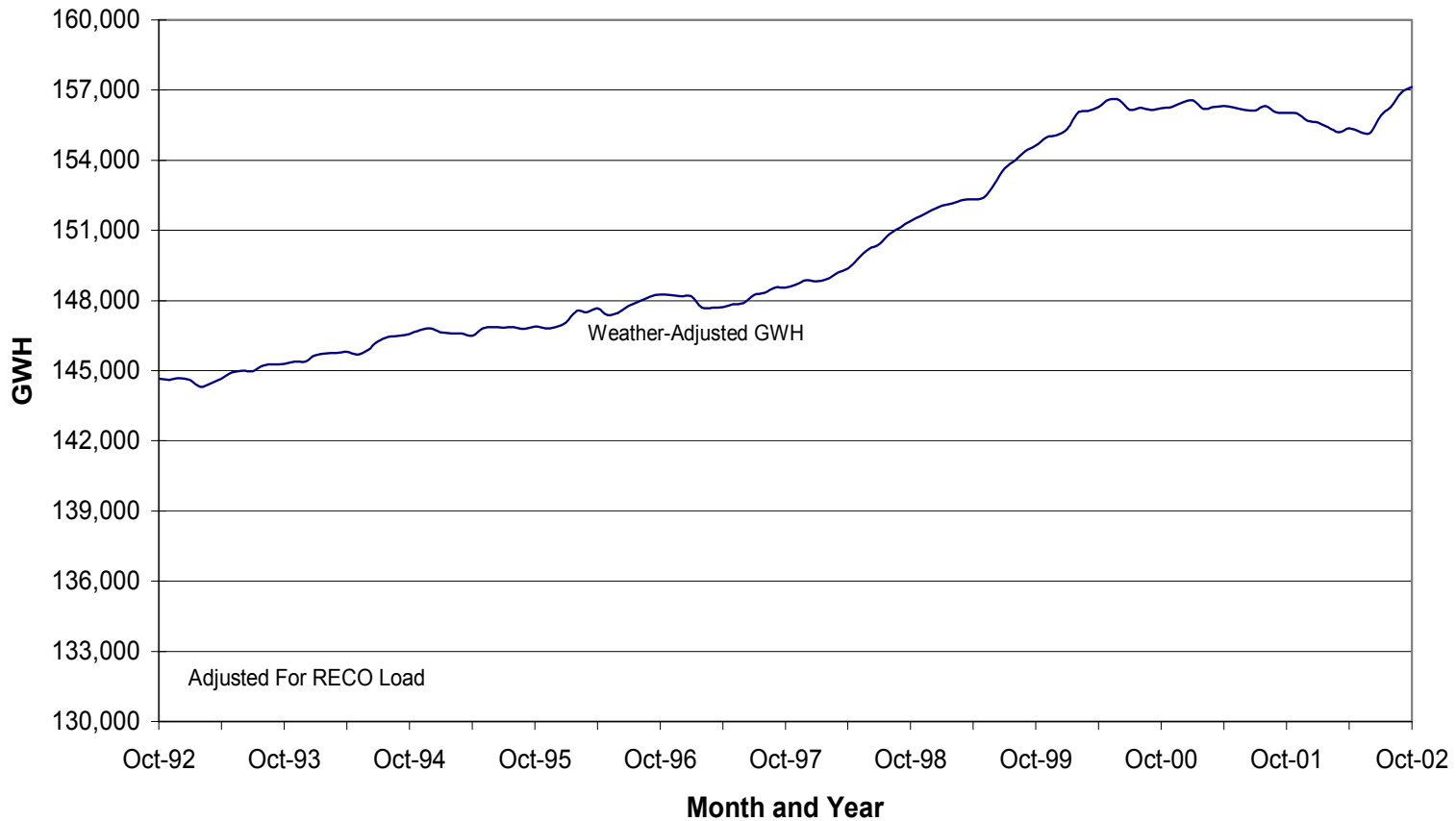
Data Request Status

- 1. TO Hourly Loads, 11/01/01 – 10/31/02
- 2. AAPL, 1998 – 2002
- Weather Normalization Methodology

	<u>1</u>	<u>2</u>	<u>3</u>
Central Hudson	Y		
Consolidated Edison	Y	Y	
LIPA	Y	Y	
NYPA		Y	Y
NYSEG	Y	Y	Y
NMPC	Y	Y	Y
O&R	Y	Y	
RG&E	Y	Y	Y

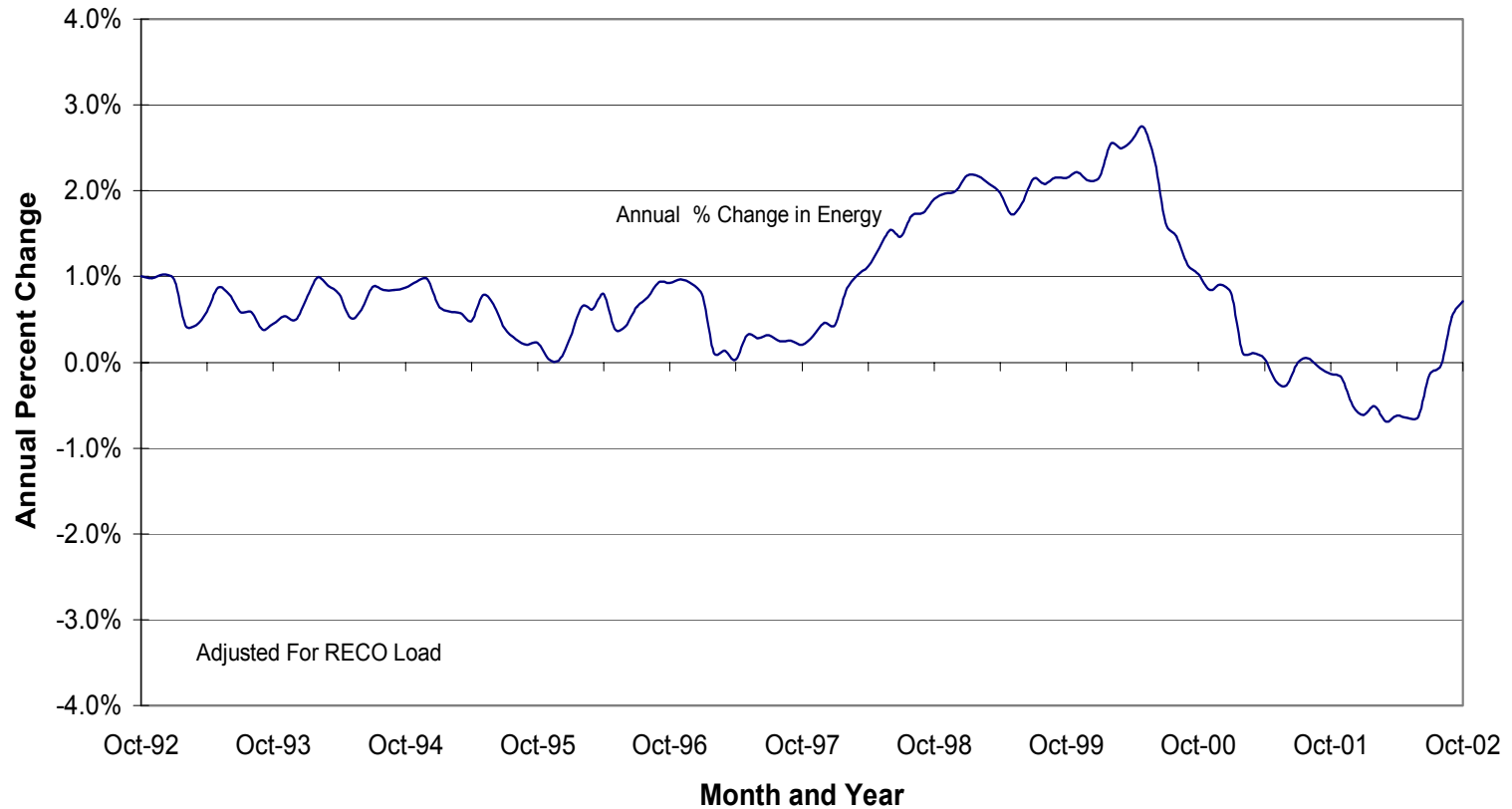
Trends in NYCA Growth

Plot of 12 Month Moving Total of NYCA Weather Adjusted Energy Sendout



Trends in NYCA Growth

Plot of Weather Adjusted 12 Month Moving Total Energy Sendout
Annual Percent Change



Trends in NYCA Growth

	<u>2001</u>	<u>2002</u>	<u>% Growth</u>
Q1	38,597	37,204	-3.61%
Q2	37,387	37,411	0.06%
Q3	42,300	45,073	6.55%
Oct - Nov 18	19,400	20,159	3.91%

Economic Indicators

Concepts Used for Economic Indicators

<u>Emp</u>	<u>Output</u>	<u>HSize</u>	<u>Pop.</u>	<u>Income</u>
FET.NYP06	FGDP\$.NYP06	FHHOLDQ.NYP06	FPOPQ.NYP06	FYP\$Q.NYP06

Finished

Central Hudson

Consolidated Edison

x

LIPA

x

NYPA

NYSEG

Niagara Mohawk

O & R

RG & E

Economic Indicators

Consolidated Edison

	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>
Employment	3828.1	3922.48	4026.43	4138.23	4121.39	4044.37	4093.89
Output	393331.75	417758.31	461796.77	507073.93	510739.37	515879.66	533746.7
Households	3253.23	3283.12	3322.25	3358.85	3362.02	3360.48	3372.94
Population	8690.03	8782.45	8876.55	8942.76	8955.64	8947.09	8961.07
Income	280548.63	296440.8	309001.77	325756.64	331515.86	329279.52	335740.6

	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>
Growth							
Employment		1.025	1.027	1.028	0.996	0.981	1.012244
Output		1.062	1.105	1.098	1.007	1.010	1.034634
Households		1.009	1.012	1.011	1.001	1.000	1.003708
Population		1.011	1.011	1.007	1.001	0.999	1.001563
Income		1.057	1.042	1.054	1.018	0.993	1.019622

W/N Peaks	11200	11450	11650	11825	12225	12400
W/N Peak Growth		1.0223	1.0175	1.0150	1.0338	1.0143

Peak Growth divided by:

Employment	0.998	0.991	0.988	1.038	1.034
Output	0.963	0.920	0.924	1.026	1.004
Households	1.013	1.005	1.004	1.033	1.015
Population	1.012	1.007	1.008	1.032	1.015
Income	0.968	0.976	0.963	1.016	1.021

Economic Indicators

LIPA

	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>
Employment	1121.01	1148.34	1190.17	1217.88	1224.71	1230.61	1242.78
Output	81977.87	86466.34	91687.29	95932.36	98977.11	102195.4	104105.8
Households	888.91	897.12	909.01	917.58	922.49	924.12	928.56
Population	2697.58	2716.65	2740.27	2761.56	2772.02	2779.72	2788.99
Income	93317.92	98058.87	100314.4	104399.7	105559.5	106699.7	109296.7

Growth

Employment	1.024	1.036	1.023	1.006	1.005	1.009889
Output	1.055	1.060	1.046	1.032	1.033	1.018694
Households	1.009	1.013	1.009	1.005	1.002	1.004805
Population	1.007	1.009	1.008	1.004	1.003	1.003335
Income	1.051	1.023	1.041	1.011	1.011	1.024339

W/N Peaks	4080	4205	4275	4455	4616	4738
W/N Peak Growth		1.0306	1.0166	1.0421	1.0361	1.0264

Peak Growth divided by:

Employment	1.006	0.981	1.018	1.030	1.022
Output	0.977	0.959	0.996	1.004	0.994
Households	1.021	1.003	1.032	1.031	1.025
Population	1.023	1.008	1.034	1.032	1.024
Income	0.981	0.994	1.001	1.025	1.015