

# **NYSRC Fall Forecast Update – 2012 Preliminary Weather Normalized MW**

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**LFTF**

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*Rensselaer, NY*

## Actual and 30-Year Normal Peak-Producing CTHI Statistics – 1983 to 2012

Statistic	Central Hudson	Con-Ed	LIPA	NGrid	NYSEG	NYPA	O&R	RG&E
Max	90.66	91.82	91.70	87.17	88.17	87.54	90.66	88.28
30-Yr Avg	85.94	85.81	84.97	82.81	82.97	81.54	85.94	83.05
Min	80.94	80.41	78.98	78.76	78.88	73.54	80.94	75.76
Std. Dev	2.31	2.73	3.01	2.17	2.28	3.27	2.31	2.61
50th	85.94	85.81	84.97	82.81	82.97	81.54	85.94	83.05
67th: CE, OR	86.94	86.99	86.27	83.74	83.95	82.95	86.94	84.17
90th	88.90	89.30	88.83	85.58	85.89	85.74	88.90	86.39
2012	85.62	83.79	82.68	84.33	84.63	83.36	85.62	85.00
Percentile	44%	23%	22%	76%	77%	71%	44%	77%
z(2012)	-0.14	-0.74	-0.76	0.70	0.73	0.56	-0.14	0.75
Design Temp chg	0.33	3.20	2.29	-1.52	-1.65	-1.82	1.32	-1.95

$$Z = \frac{(\text{CTHI} - \text{Avg})}{\text{Std Dev}}$$

Con-Ed and O&R use the 67<sup>th</sup> percentile for design conditions. All others use the 50<sup>th</sup> percentile.

Peak-producing CTHI is the Cumulative Temperature-Humidity Index that occurs on the day of the NYCA peak each year.

# Preliminary Summary of 2012 Weather Normalized Load & Comparison to 2012 ICAP Forecast

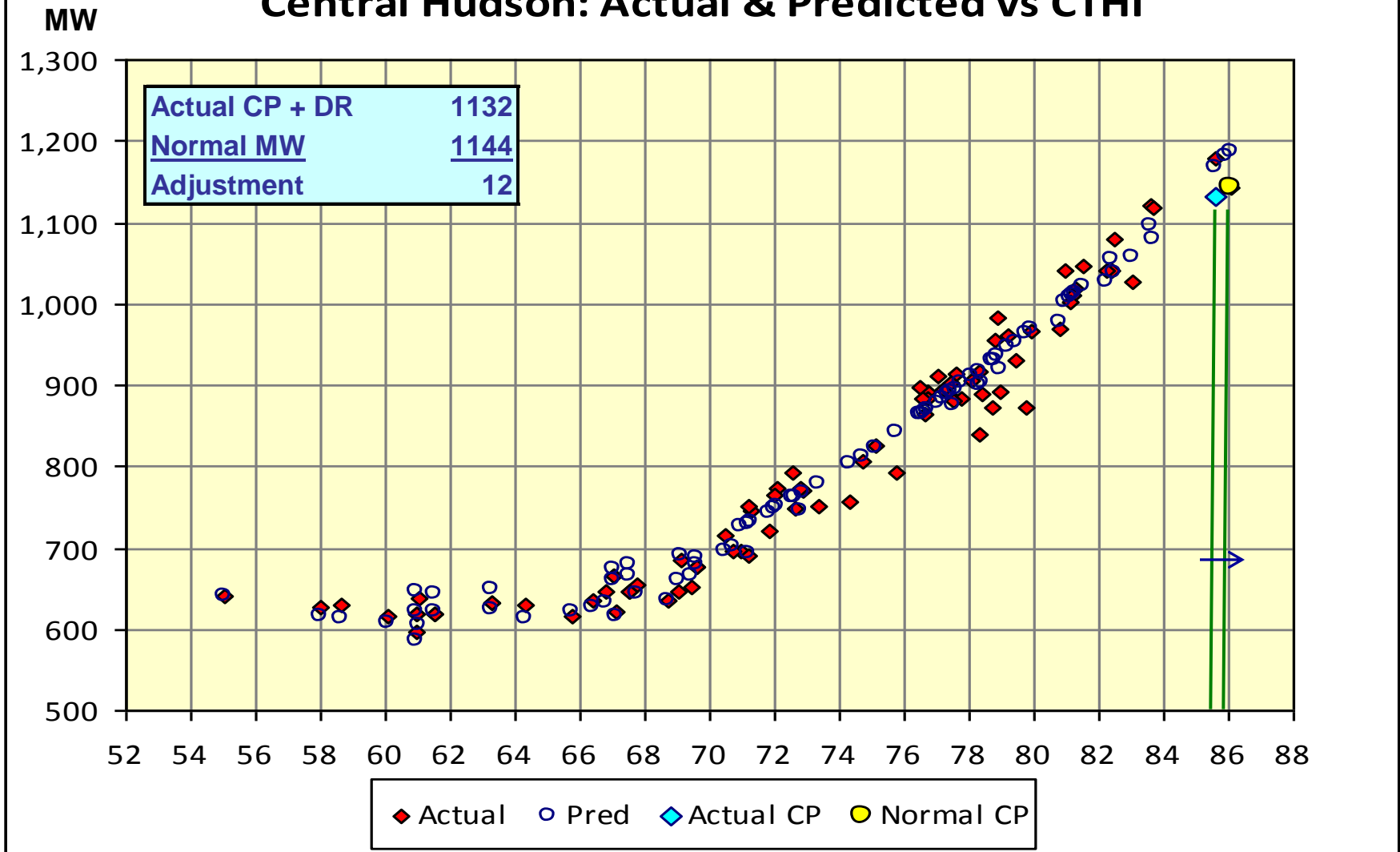
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Transmission District	2012 Actual MW, 7/17/2012 HB 16	2012 Estimated SCR & Muni Self Gen	SCR/EDRP Estimate MW	Weather Adjustment MW	2012 Weather Normalized MW	Loss Reallocation MW	2012 WN MW, Adj for Losses	2012 ICAP Forecast MW	Over/Under MW	Percent Over/Under
Cen. Hudson	1,132	0	0	12	1,144	-7	1,137	1,133	4	0.3%
Con Ed	12,418	75	0	672	13,165	151	13,316	13,431	-115	-0.9%
LIPA	5,110	30	0	277	5,417	25	5,442	5,508	-66	-1.2%
NGrid	7,276	50	0	-312	7,014	-194	6,820	6,749	71	1.0%
NYPA	591	0	0	-5	586	8	594	576	18	3.1%
NYSEG	3,197	0	0	-152	3,045	4	3,049	3,127	-77	-2.5%
O&R	1,056	0	0	77	1,133	5	1,138	1,158	-20	-1.8%
RG&E	1,677	0	79	-103	1,653	8	1,661	1,612	49	2.9%
<b>Grand Total</b>	<b>32,457</b>	<b>155</b>	<b>79</b>	<b>467</b>	<b>33,158</b>	<b>0</b>	<b>33,158</b>	<b>33,295</b>	<b>-137</b>	<b>-0.4%</b>

NYCA Load at Time of Peak: 32,439 MW, based on system telemetry.

Metered load data from the DSS database is slightly different than the peak value of 32,469 MW obtained from NYISO telemetry.

**Note: Results are used for the NYSRC Installed Reserve Margin Study, and not for the Installed Capacity Market forecast**

## Central Hudson: Actual & Predicted vs CTHI



## Con Ed: Actual & Predicted vs CTHI

MW

14,000

13,000

12,000

11,000

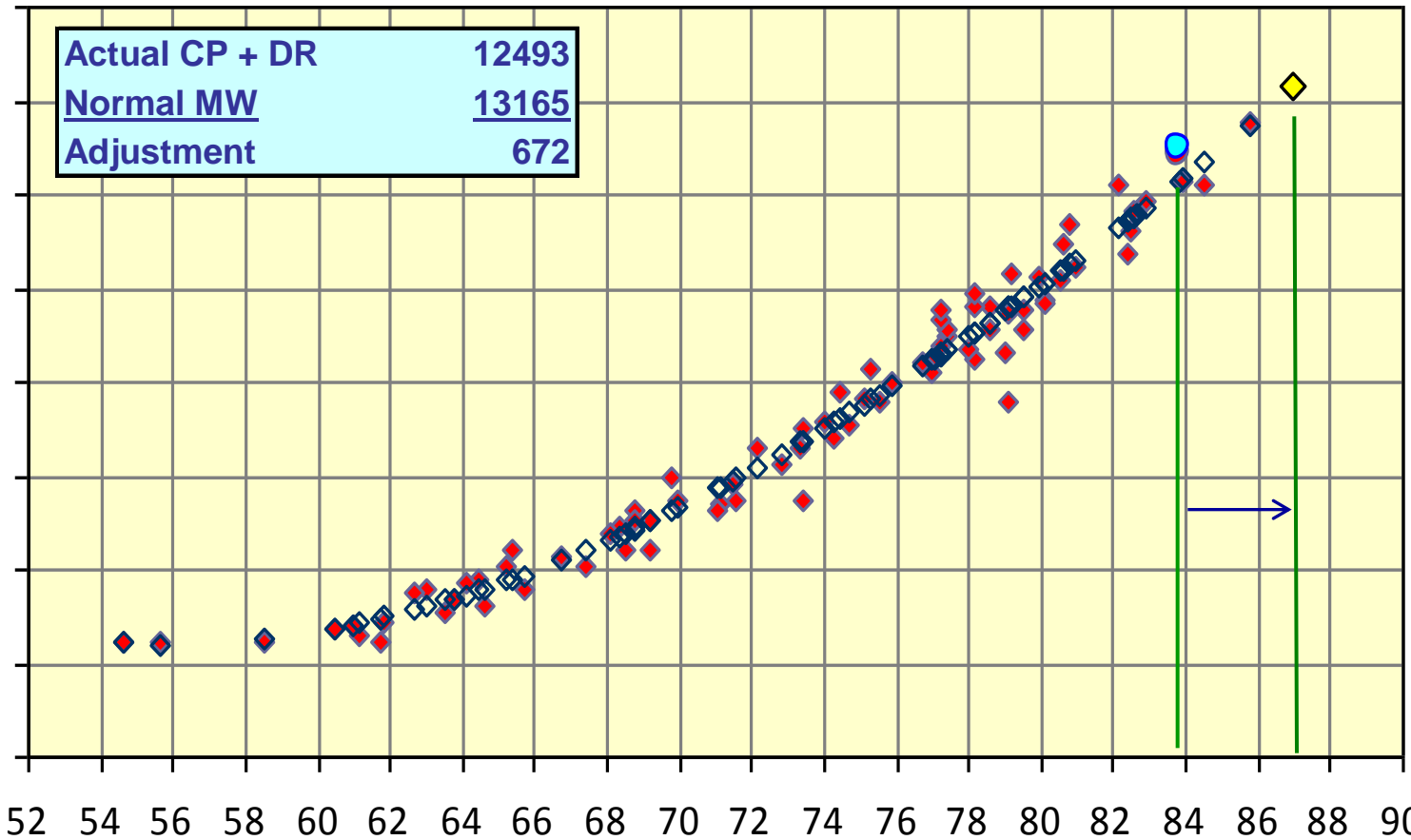
10,000

9,000

8,000

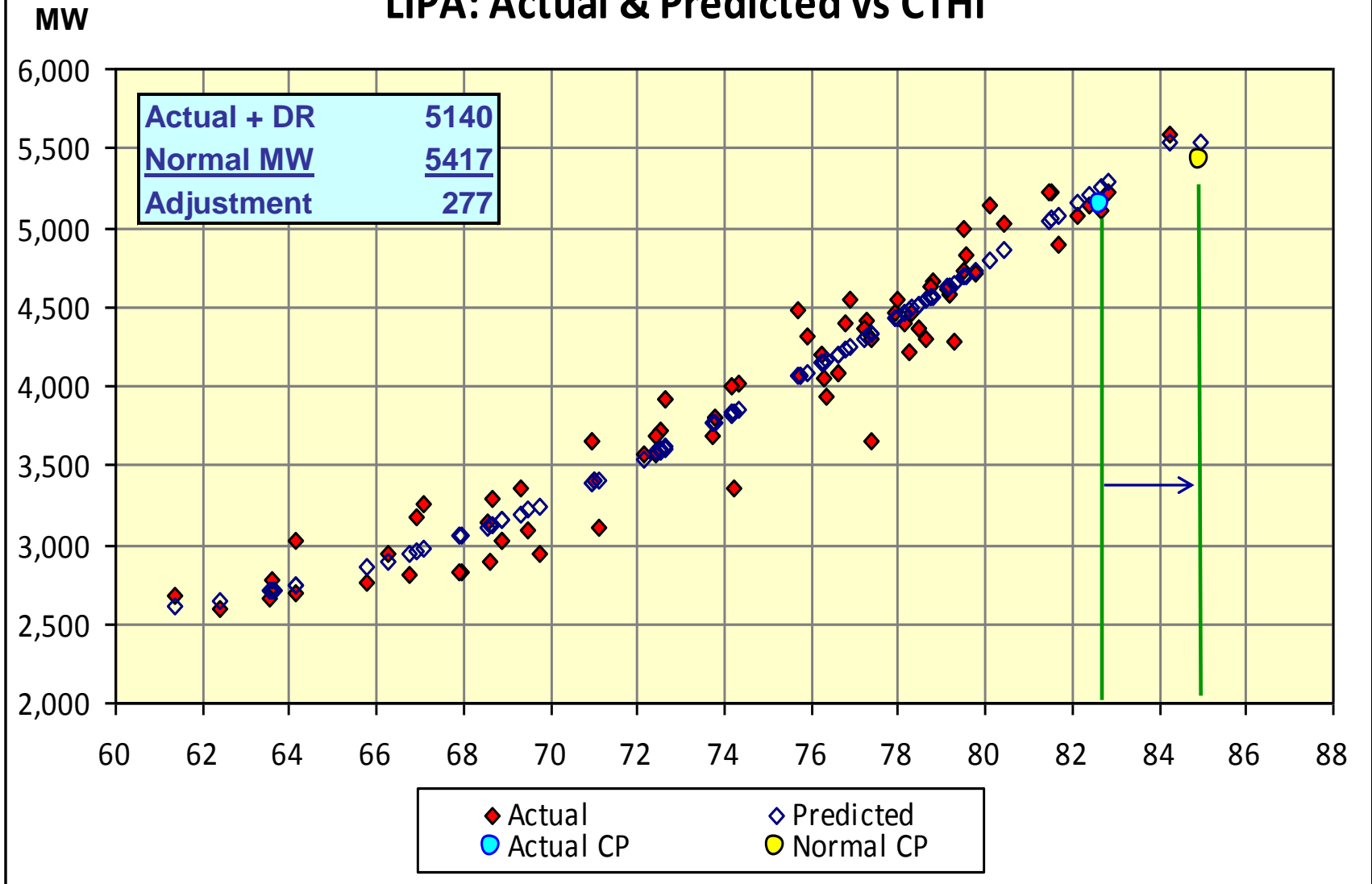
7,000

6,000

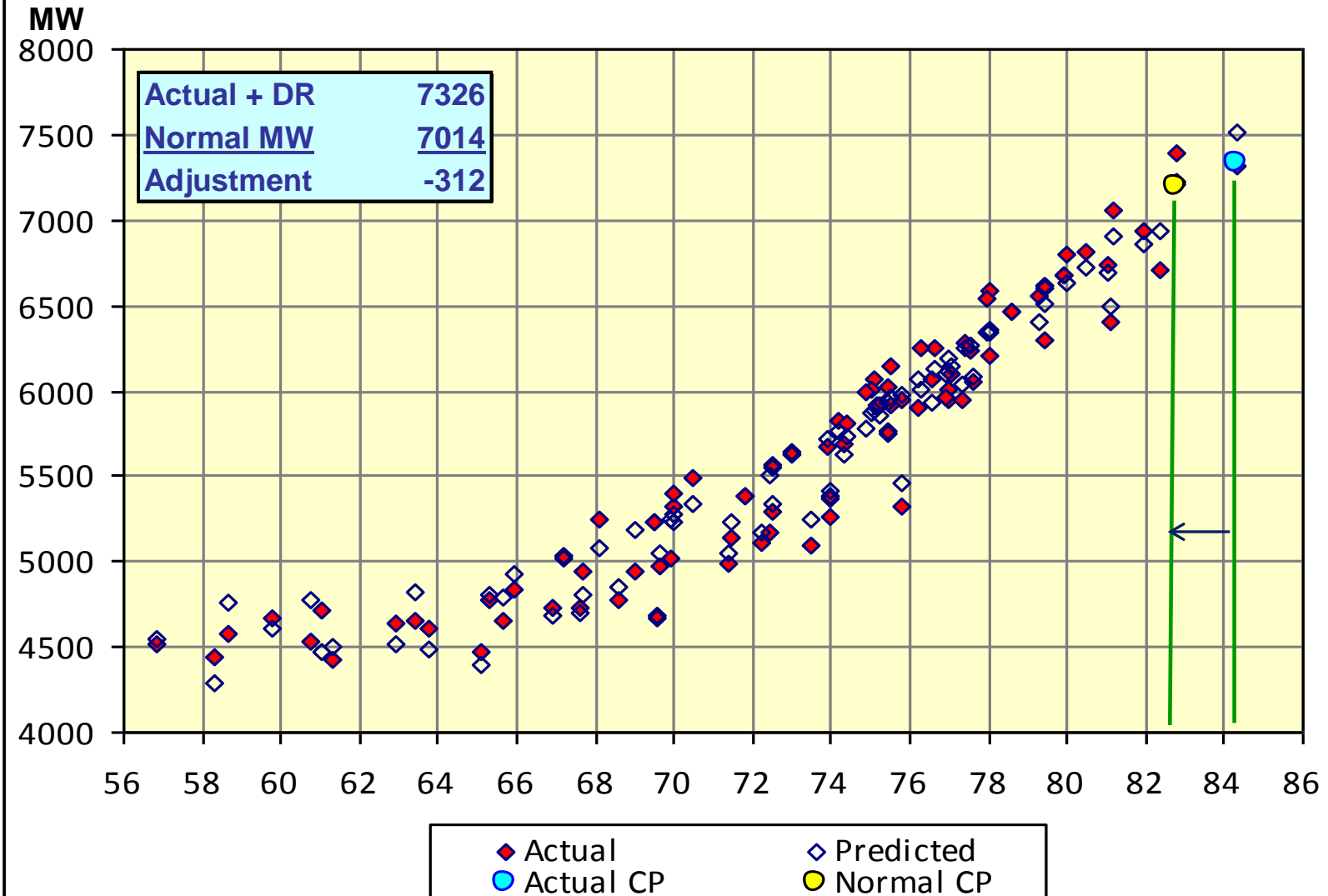


◆ Actual   ◇ Predicted   ● Actual CP   ◆ Normal CP

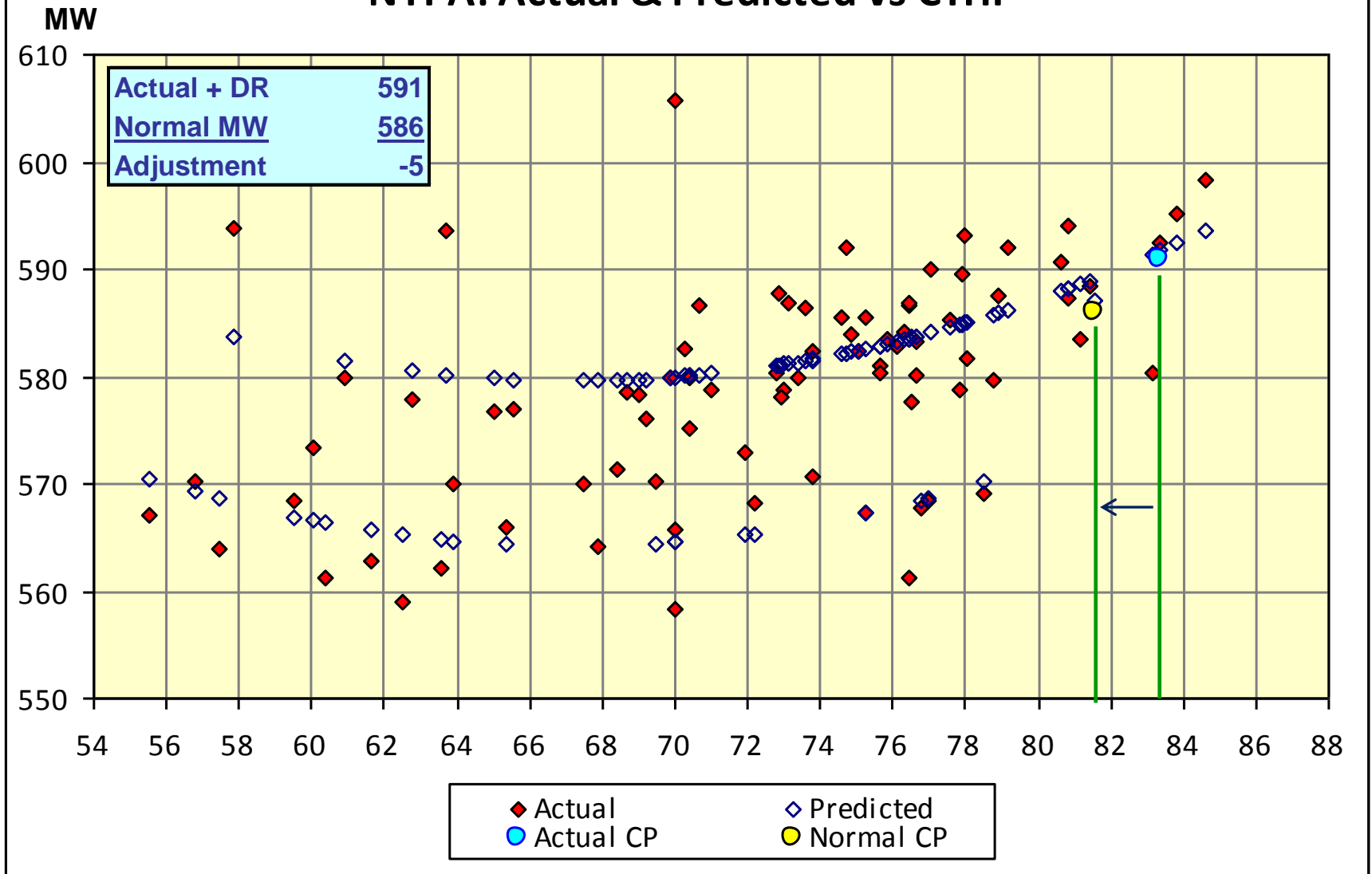
## LIPA: Actual & Predicted vs CTHI



## N Grid: Actual & Predicted vs CTHI

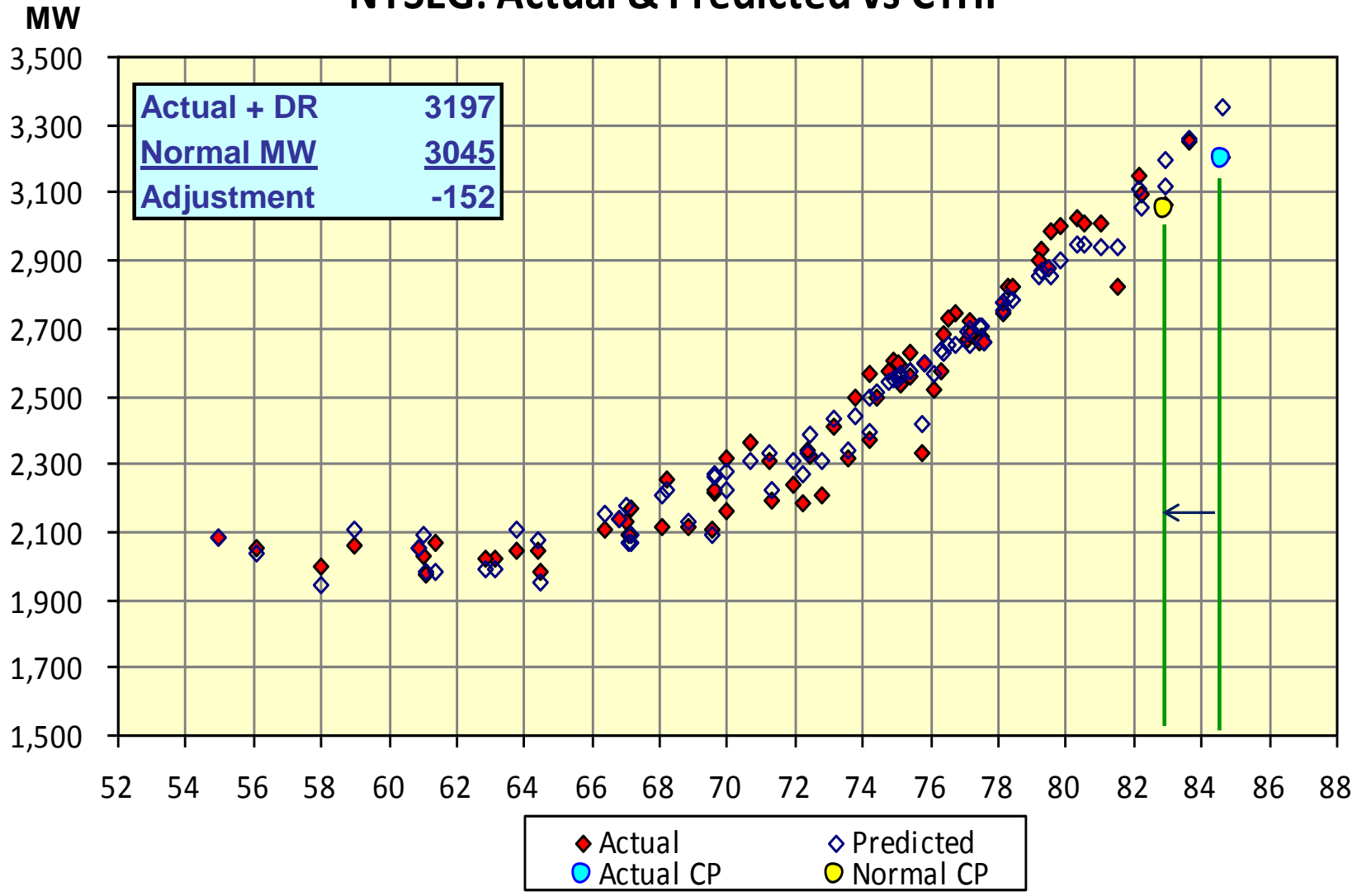


## NYPA: Actual & Predicted vs CTHI

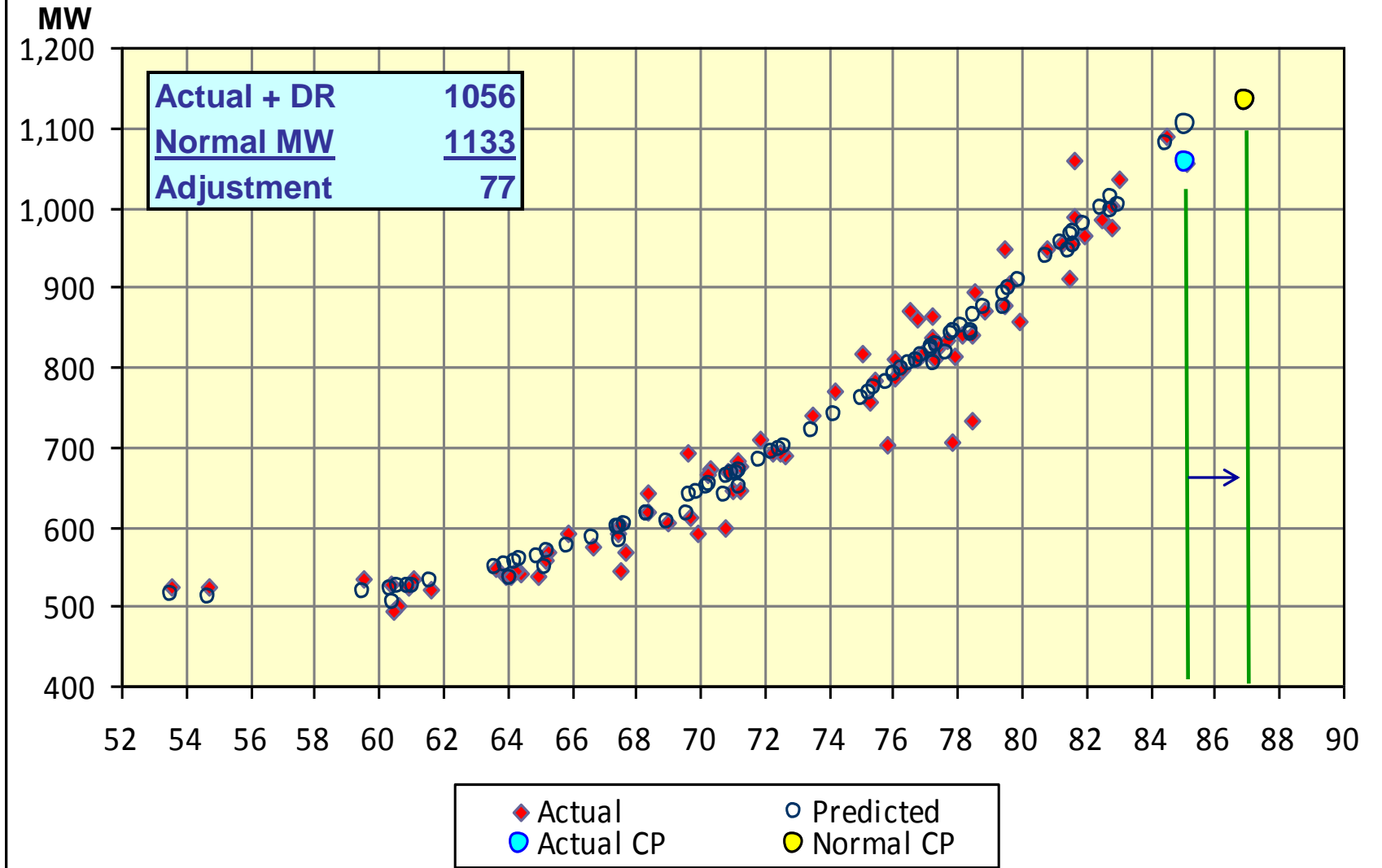




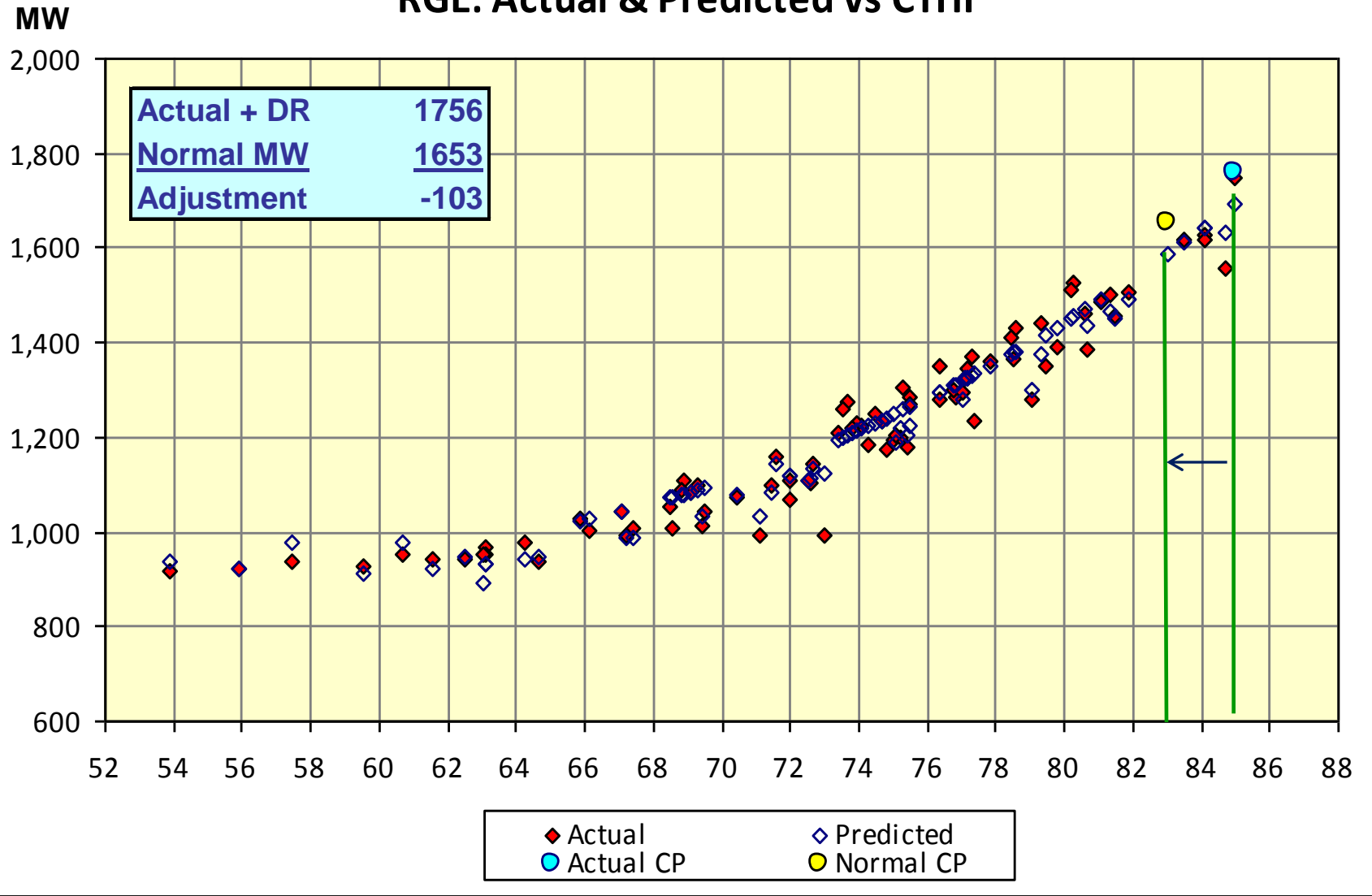
## NYSEG: Actual & Predicted vs CTHI



## O & R: Actual & Predicted vs CTHI



### RGE: Actual & Predicted vs CTHI



## Loss Reallocation Detail

Used to Align 2012 Weather Normalized Loads to ICAP Forecast

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
TO	2012 Actual MW	2012 Adjusted MW	Actual Losses	WN Losses	WN Load Less Losses	Proportion of LLL	WN Losses, Proportional	2012 Adjusted Actual MW	Loss Reallocation
Central Hudson	1,132	1,144	30.0	30.0	1,114	0.034	23.0	1,137	-7.0
Con Ed	12,418	13,165	106.0	112.0	13,053	0.402	263.0	13,316	151.0
LIPA	5,110	5,417	78.0	83.0	5,334	0.164	108.0	5,442	25.0
NGrid	7,276	7,014	341.0	329.0	6,685	0.206	135.0	6,820	-194.0
NYPA	591	586	4.0	4.0	582	0.018	12.0	594	8.0
NYSEG	3,197	3,045	59.0	56.0	2,989	0.092	60.0	3,049	4.0
O&R	1,056	1,133	17.0	18.0	1,115	0.034	23.0	1,138	5.0
RG&E	1,677	1,653	25.0	25.0	1,628	0.050	33.0	1,661	8.0
<b>Total</b>	<b>32,457</b>	<b>33,158</b>	<b>660.0</b>	<b>657.0</b>	<b>32,501</b>	<b>1.000</b>	<b>657.0</b>	<b>33,158</b>	<b>0.0</b>

**(4) Actual losses were 660 MW.**

**(5) Weather-normalized losses were 657 MW.**

**(8) Losses are reallocated proportional to MW share of TD Loads-Less Losses**

**(10) Net change in losses for each TD**

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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