STATE OF NEW YORK
DEPARTMENT OF PUBLIC SERVICE

September 21, 2007

TO: Working Group 3, 07-M-0548

FROM: Marc Vatter

SUBJECT: Forecasts of Electric Load and DSM to 2015

Judge Stein asked utilities to provide Staff with forecasts of sales and end-user energy efficiency through 2015 in part for the purpose of defining the target of the 15x15 initiative. As Staff agreed at last Monday's meeting, we have summarized the data we received in the following tables. Before proceeding, we need to complete the tables and clarify what the data represent.

What we are primarily looking for are data on retail sales, measured in megawatt hours, including both sales to full requirements customers and to customers of alternate suppliers. We also request that utilities report requirements in addition to sales, where "requirements" are as defined by the NYISO in its "2007 Load and Capacity Data" forecasts.

We would also ask LIPA and NYPA to provide 1) their forecasted annual DSM/EPS energy and demand savings by program and the associated program and any incremental participant costs through 2015, and 2) documentation supporting the assumptions used in their DSM/EPS forecasts.

In some cases, particularly those of NYSEG and RG&E, it is not clear whether the data we have already received represent sales or requirements. In other cases, NiMo, Con-Ed, and O&R reported incomplete data, omitting forecasts for the latter part of the period to 2015. In many cases, we also need clarification as to whether the actual data reported for 2006 are weather normalized.

Further, we would like explicit agreement among NYPA and the utilities on which portions of NYPA's reported sales supplement what the utilities have reported and which portions have already been included in the utility numbers. (Staff's first attempt was to focus on what NYPA called "Full Service Sales", but we would not be surprised if that required additions or subtractions – or both.)

Finally, we would like contact information for the individuals who prepare the reports.

Electric Energy Loads and DSM Savings[0] Reported by IOU's, LIPA, and NYPA in Case 07-M-0548 (MWh's)

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	Actual					Forecast					Trend Growth
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	(percent)
LIPA											
Total Sales	19,773,425	20,130,617	20,374,711	20,583,075	20,857,840	21,141,156	21,546,387	21,838,996	22,202,987	22,578,419	1.44
Loss/Comp. Use	1,659,800	1,522,557	1,540,514	1,555,569	1,575,617	1,596,288	1,626,001	1,647,203	1,673,760	1,701,152	0.83
Requirements[1]	21,433,225	21,653,174	21,915,226	22,138,645	22,433,456	22,737,444	23,172,389	23,486,199	23,876,747	24,279,571	1.40
Planned DSM	48,438	159,020	267,751	356,630	438,876	507,255	556,225	603,413	646,886	685,976	23.77
Achieved DSM	359,421	351,252	344,344	337,618	331,073	324,719	318,542	312,519	306,619	295,834	-2.05
Pre-DSM Requirements	21,841,084	22,163,447	22,527,321	22,832,893	23,203,405	23,569,418	24,047,155	24,402,131	24,830,252	25,261,382	1.62
NYPA											
Full Service Sales (see attached for more info):	16,436,811	16,885,640	17,055,136	17,186,145	17,304,195	17,423,521	17,563,439	17,705,084	17,848,479	17,993,647	0.89
Embedded DSM: Yearly MWh System Level Reductions (Cumulative)											
NYPA Customers	689531.6	701950.4	728528.1	755105.9	781683.6	808261.4	834839.1	861416.8	887994.6	914572.3	3.25
Non-NYPA Customers	284456.6	288671.4	298600.5	308529.6	318458.6	328387.7	338316.8	348245.8	358174.9	368104	2.97
Central Hudson											
Sales; post-DSM	5,499,403	5,579,958	5,575,538	5,640,128	5,738,558	5,827,148	5,908,898	5,989,258	6,067,588	6,147,358	1.27
Data on current DSM do not exist											
Con-Ed											
Sales (Sales; post-DSM)											
Full Service	25,907,000	25,233,000	24,447,000	23,873,000	23,018,000	22,623,000	22,006,000				
Retail Choice	19,256,000	20,891,000	22,487,000	23,786,000	25,146,000	26,503,000	27,943,000				
NYPA	10,195,000	10,609,000	10,820,000	11,042,000	11,229,000	11,453,000	11,672,000				
EDDS	918,000	808,000	719,000	720,000	720,000	720,000					
Total	56,276,000	57,541,000	58,473,000	59,421,000	60,113,000	61,299,000					
Sendout	60,627,450	62,121,000	63,295,000	64,192,000	65,332,000	66,485,000	67,856,000	68,730,000	69,606,000	70,338,000	1.65
Cumulative Planned DSM [1.5]	56,712	172,870	494,012	753,658	975,724	1,061,134					
Pre-DSM Sendout	60,684,162	62,293,870	63,789,012	64,945,658	66,307,724	67,546,134					
NIMO											
Sales; seemingly post-DSM	34,245,835	34,806,817	35,246,488	35,678,913	36,080,541	36,530,399					
Cumulative Current DSM	1,275	1,746									
NYSEG											
Requirements? [2] ; seemingly post-DSM	15,280,060	16,255,000	16,296,000	16,406,000	16,512,000	16,613,000	16,710,000	16,803,000	16,891,000	16,975,000	0.87
No DSM programs currently in place											
O&R											
Sales; seemingly post-DSM											
Full Service	2,452,965	2,398,074	2,381,066	2,298,208	2,316,336	2,297,660	2,299,929				
Retail Choice	1,576,955	1,689,870	1,807,831	1,865,805	1,968,714	2,022,352	2,093,317				
Total	4,029,920	4,087,944	4,188,897	4,164,013	4,285,050	4,320,012	4,393,246				
Sendout	4,215,701	4,334,932	4,405,121	4,467,685	4,539,723	4,609,323	4,684,746	4,763,081	4,840,294	4,917,507	1.64
DSM plan not yet completed											
RG&E											
Requirements? [2] ; seemingly post-DSM	7,172,965	7,721,000	7,761,000	7,800,000	7,867,000	7,873,000	7,906,000	7,939,000	7,970,000	7,999,000	0.82
No DSM programs currently in place											
Aggregate NYISO Forecast[3]:	165,219,000	167,439,000	169,482,000	171,744,000	174,036,000	176,611,000	178,758,000	181,119,000	183,548,000	186,262,000	1.33

[0] No explicit representation of programs operated by NYSERDA and funded through the Systems Benefits Charge.

[1] These requirements reflect LIPA's official load forecast as of November 17, 2006, which assumes a continuation of current efficiency programs beyond its authorized expenditures through 2008. In March, 2007, LIPA provided NYISO a forecast which includes the effect of a larger efficiency program that had been developed internally by LIPA staff, but has not been presented to the LIPA Board of Trustees. We understand that the NYISO may provide this forecast to the PSC in response to this question. Using either level of assumed DSM results in the same pre-DSM Load forecast. As a result of the 15x15 program, the LIPA Board of Trustees is likely to be presented with a DSM plan that incorporates a modified efficiency program.

[1.5] Excludes currently proposed, but not planned, DSM.

[2] The definition of "Net Energy for Load (Planning Area)" on FERC Form 714 is: The amount of energy required by the reported utility or group of utilities' retail customers in the system's service area plus the amount of energy supplied to full and partial requirements utilities (wholesale requirements customers) plus the amount of energy losses incurred in the transmission and distribution. This suggests that the data reported are requirements. However, a look at the data submitted for the most recent "Five-Year Book" suggests that the data reported here are sales.

[3] This is not the sum of the forecasts reported by utilities, nor have the utilities generally coordinated their forecasts.

Electric Energy Loads and DSM Savings Reported by NYPA in Case 07-M-0548

	Actual					Forecast				
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
NYPA Customers										
I. **Full Service Customers**										
1. Government										
a. South East NY	*9,796,081*	9,925,412	10,038,823	10,153,573	10,255,108	10,357,660	10,461,236	10,565,849	10,671,507	10,778,222
b. Federal [2]	*239,051*	280,415	280,415	280,415	280,415	280,415	280,415	280,415	280,415	280,415
2. Industrial Customers										
a. High Load Factor Manufact	*528,664*	524,459	524,459	524,459	524,459	524,459	524,459	524,459	524,459	524,459
b. North Country	*4,070,393*	4,308,258	4,344,813	4,344,813	4,344,813	4,344,813	4,344,813	4,344,813	4,344,813	4,344,813
3. Full Requirement Munis & Coops	*1,799,178*	1,843,663	1,863,192	1,879,452	1,895,966	1,912,740	1,949,082	1,986,115	2,023,851	2,062,304
4. All Others	*3,444*	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433
5. Total Full Service	*16,436,811*	*16,885,640*	*17,055,136*	*17,186,145*	*17,304,195*	*17,423,521*	*17,563,439*	*17,705,084*	*17,848,479*	*17,993,647*
II. **Partial Service Customers**										
1. Sales to Utilities [3]										
a. R&D Firm and Peaking [4]										
A. NYSEG	*1,519,030*	1,434,526	1,278,528	1,278,528	1,278,528	1,278,528	1,278,528	1,278,528	1,278,528	1,278,528
B. NGRID	*1,724,738*	1,636,983	1,457,787	1,457,787	1,457,787	1,457,787	1,457,787	1,457,787	1,457,787	1,457,787
C. RG&E	*841,346*	791,199	698,872	698,872	698,872	698,872	698,872	698,872	698,872	698,872
b. EP										
A. NGRID	*1,057,667*	1,182,005	1,243,557	1,305,735	1,371,021	1,371,021	1,371,021	1,371,021	1,371,021	1,371,021
B. NYSEG	*279,876*	312,910	313,824	329,515	345,991	345,991	345,991	345,991	345,991	345,991
C. Jamestown	*19,494*	19,544	19,544	19,544	19,544	19,544	19,544	19,544	19,544	19,544
c. RP [5]	*3,114,949*	2,956,050	2,882,496	2,882,496	2,882,496	2,882,496	2,882,496	2,882,496	2,882,496	2,882,496
2. Partial Requirement Munis & Coo	*2,860,626*	2,938,815	2,960,287	2,975,089	2,989,964	3,004,914	3,034,963	3,065,313	3,095,966	3,126,925
3. Business Customers										
a. PFJ [2]	*1,258,169*	1,103,225	1,106,340	1,103,225	1,103,225	1,103,225	1,103,225	1,103,225	1,103,225	1,103,225
b. EDP [2, 6]	*1,479,038*	1,491,476	1,491,476	1,491,476	1,491,476	1,491,476	1,491,476	1,491,476	1,491,476	1,491,476
4. Re-licensing Customers [4]		59,438	233,654	233,503	233,503	233,503	233,503	233,503	233,503	233,503
5. All Others [6]	*16,112*	15,854	15,854	15,854	15,854	15,854	15,854	15,854	15,854	15,854
GRAND TOTAL	***47,044,667***	**47,713,306**	**47,812,490**	**48,163,913**	**48,496,651**	**48,750,252**	**49,060,138**	**49,373,778**	**49,691,220**	**50,012,516**
Embedded DSM: Yearly MWh System Level Reductions (Cumulative)										
NYPA Customers	689,532	701,950	728,528	755,106	781,684	808,261	834,839	861,417	887,995	914,572
Non-NYPA Customers	284,457	288,671	298,601	308,530	318,459	328,388	338,317	348,246	358,175	368,104

Footnotes: draft 9/20/2007 10:34

[1] *Actuals prepared by NYPA's Accounting group and forecasts*

[2] *In part or all a market based purchase*

[3] *Does not include approximately 1,420 MWh in sales made to 7 Neighboring States customers*

[4] *9/2007 R&D power withdrawals are re-allocated to other power programs contained within this table*

[5] *On 9/2007 power sales will be based on actual Load Factor rather than contracted Load Factor*

[6] *Includes a small quantity of Full Service customers*

Known Characteristics of Electric Energy Loads and DSM Savings Reported by IOU's, LIPA, and NYPA in Case 07-M-0548

draft 9/20/2007 11:48

	Pre- vs. Post-Embedded DSM	Requirements or Sales	2006 Actuals Weather-Normalized?	Contact Info
LIPA	both	both	"billed"	
NYPA	post	sales		
CH	post	sales	no	
Con-Ed	both	both		
NiMo	both	sales		
NYSEG	no utility DSM	requirements (FERC 714) [1]		
O&R	DSM plan not completed	both		
RG&E	no utility DSM	requirements (FERC 714) [1]		

[1] The definition of "Net Energy for Load (Planning Area)" on FERC Form 714 is: The amount of energy required by the reported utility or group of utilities' retail customers in the system's service area plus the amount of energy supplied to full and partial requirements utilities (wholesale requirements customers) plus the amount of energy losses incurred in the transmission and distribution. This suggests that the data reported are requirements. However, a look at the data submitted for the most recent "Five-Year Book" suggests that the data reported here are sales.