

Reading Municipal Light Department (RMLD) Board of Commissioners
Power & Rate Committee Regular Session Agenda
Monday, September 13, 2010
7:00 p.m.
General Manager's Conference Room

Note: Executive Session has been posted in the event there is a need to address any Chapter 164 Section 47D items.

1. Cost of Service Study School Rate.
2. Cost of Service Study Review of the Residential Time of Use Rate and Streetlight Rate.
3. Concord Steam Update
4. Greenhouse Gas Emissions Reporting

To: RMLD, V. Cameron
 From: R. Soli

6 August 2010

Subject: Documenting School's 68.86% Overage in Demand Charges in COSS

Original, Exhibit #	Total	Res	Res-Water	Res-TOU Commercial	TOU	Resale	Lights	School
Demand + Transmission, \$	27,711,575	10,027,393	225,943	58,808	8,771,113	7,820,287	45,505	164,545
Percentages	100.00%	36.18%	0.82%	0.21%	31.65%	28.22%	0.16%	0.59%
								2.16%

One component of the Demand + Transmission total (above) is the ISO Capacity Cost, listed in the 2011 Operating Budget

ISO Capacity Cost, \$	6,085,800
ISO Capacity Cost spread, \$	2,202,138
	49,620
	12,915
	1,926,243
	1,717,430
	9,993
	36,136
	131,324

On 23 July 2010, Mr. Cameron told Comm. O'Neill and me that the ISO demand charges were based on the once-a-year RMLD demand at the time of peak system demand.

At the Power & Rate committee meeting Mr. Cameron stated that RMLD's peak demand for 2090 was 155 KW; Mr. Soli added that it was 155.8 KW (the exact value is listed in RMLD's report to the DPJ).

Mr. Cameron's information E-mailed to Mr. Soli showed that the school peak demand at the time of system peak demand was 1,991 KW.

Using these values —

RMLD peak KW 8/18/09	155,800		
School peak KW 8/18/09	1,991		
Thus school peak demand	1.28%	i.e., 1,991 / 155,800	
School ISO demand amount	\$77,772	i.e., 1.28% * \$6,085,800	
COSS amount too high by	\$53,552	i.e., \$131,324 - \$77,772	

68.86% % school overage in charge for ISO demand i.e., \$53,552 / \$77,772

READING MUNICIPAL LIGHT DEPARTMENT
2011 BUDGET SUMMARY

DRAFT 1 3/31/10

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
PURCHASED POWER EXPENSE													
NUCLEAR MIX #1 - MILLSTONE	C 199,793	183,288	184,831	180,467	176,216	186,295	194,198	194,177	192,985	190,286	194,087	194,170	2,266,783
MILLSTONE - TRANSMISSION	T 1,072	1,072	1,072	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,081	1,072	12,936
MILLSTONE - ENERGY	E 8,946	8,946	8,946	8,946	8,946	8,946	8,946	8,080	8,934	8,658	8,946	8,658	105,898
NUCLEAR MIX #1 - SEABROOK	C 19,300	20,860	20,866	21,224	21,631	20,642	20,388	20,344	21,495	28,375	20,344	20,344	255,698
SEABROOK - TRANSMISSION	C 155	155	155	155	155	155	155	155	155	155	155	155	1,860
SEABROOK - ENERGY	E 932	932	932	932	932	932	932	842	931	0	932	902	10,131
PROJECT #3 - DEBT SERVICE	C 119,651	119,651	119,651	119,655	119,651	119,629	119,104	119,070	119,068	119,076	119,064	119,064	1,432,402
PROJECT #3 - TRANSMISSION	T 785	785	785	772	772	772	772	772	772	772	772	755	9,236
PROJECT #3 - ENERGY	E 6,860	6,860	6,860	6,860	6,860	6,860	6,860	6,196	6,851	6,538	6,860	6,538	81,203
PROJECT #4 - DEBT SERVICE	C 373,393	373,393	373,393	373,073	373,065	372,912	373,036	373,090	373,023	246,877	372,958	373,161	4,357,075
PROJECT #4 - TRANSMISSION	T 3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	3,514	0	3,514	3,514	42,168
PROJECT #4 - ENERGY	E 22,878	22,878	22,878	22,878	22,878	22,878	22,878	20,664	22,847	22,847	22,878	22,140	248,675
PROJECT #5 - DEBT SERVICE	C 49,677	49,677	49,650	49,637	49,637	49,617	49,633	49,638	49,630	33,918	49,619	49,619	578,973
PROJECT #5 - TRANSMISSION	T 433	433	433	433	433	433	433	433	433	433	433	433	5,196
PROJECT #5 - ENERGY	E 2,823	2,823	2,823	2,823	2,823	2,823	2,823	2,580	2,819	0	2,823	2,732	30,685
PASNY - CAPACITY*	C 12,696	12,696	12,696	12,696	12,696	12,696	12,696	12,696	12,696	12,696	12,696	12,696	152,352
PASNY - TRANSMISSION*	T 36,156	36,156	36,156	36,156	36,156	36,156	36,156	36,156	36,156	36,156	36,156	36,156	433,872
PASNY - ENERGY*	E 9,968	9,968	9,946	9,968	9,968	9,968	10,167	9,183	9,839	9,839	9,839	9,839	118,526
REWECC**	E 750	750	750	750	750	750	750	790	750	750	750	750	9,000
ISO-NE CAPACITY	C 507,150	507,150	507,150	507,150	507,150	507,150	507,150	507,150	507,150	507,150	507,150	507,150	6,085,800
ISO-NE TRANSMISSION***	T 809,307	809,307	809,307	809,307	809,307	809,307	809,307	809,307	809,307	809,307	809,307	809,307	9,799,617
ISO-NE ENERGY	E 230,547	230,547	230,547	230,547	230,547	230,547	230,547	230,547	230,547	230,547	230,547	230,547	2,833,690
NEMA CONGESTION****	E (9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(9,750)	(117,000)
HYDRO QUEBEC SUPPORT SERVICES	C 23,700	23,700	23,700	23,700	23,700	23,700	23,700	23,700	23,700	23,700	23,700	23,700	284,400
PEAKING PROJECT - CAPACITY	T 50,598	50,598	50,598	50,598	50,598	50,598	50,598	50,598	50,598	50,598	50,598	50,598	606,782
PEAKING PROJECT - TRANSMISSION	T 6,650	6,650	6,650	6,650	6,650	6,650	6,650	6,650	6,650	6,650	6,650	6,650	79,877
PEAKING PROJECT - ENERGY	E 32,488	32,488	32,488	32,488	32,488	32,488	32,488	32,488	32,488	32,488	32,488	32,488	394,853
INTERMEDIATE PROJECT - CAPACITY	C 121,381	101,202	169,702	145,115	176,194	113,279	99,015	106,063	122,967	121,679	123,163	105,753	1,506,613
INTERMEDIATE PROJECT - TRANSMISSION	T 8,695	7,828	7,952	9,581	9,100	9,263	9,164	9,070	9,523	9,330	9,615	5,141	104,702
INTERMEDIATE PROJECT - ENERGY	E 373,674	456,065	444,540	796,893	327,364	520,394	57,772	51,877	56,133	52,368	57,500	56,118	3,250,398
DOMINION	E 1,672,362	1,717,729	1,103,895	899,358	934,443	1,061,377	1,048,565	967,782	902,180	748,982	917,110	1,043,958	13,017,921
CONSOLIDATION	E 943,504	960,058	932,760	973,673	1,064,776	1,094,776	518,797	467,040	508,742	465,498	479,936	489,170	8,751,448
BRANTREE WATSON	C 126,088	126,088	126,088	126,088	126,088	126,088	126,088	126,088	126,088	126,088	126,088	126,088	1,517,232
BRANTREE WATSON - ENERGY	E 11,289	11,500	11,230	11,907	12,306	14,062	14,662	13,166	14,247	13,291	14,594	14,243	156,707
COOP / RESALE	E 7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	90,000
MACQUARIE	E 684,001	697,314	583,585	537,446	536,217	562,461	510,421	467,902	507,582	484,166	571,466	594,468	6,742,029
TOTAL BUDGETED PURCHASED POWER	6,468,288	6,994,162	6,644,627	5,766,724	5,374,774	6,181,537	5,505,213	5,140,767	5,173,203	4,828,211	4,994,856	5,151,876	67,224,238
PURCHASED POWER BASE EXPENSE:													
TOTAL CAPACITY PURCHASED	C 1,603,427	1,668,354	1,637,886	1,609,656	1,637,293	1,583,057	1,575,956	1,583,254	1,599,722	1,450,856	1,599,768	1,582,681	19,032,110
TOTAL TRANSMISSION PURCHASED	T 886,087	970,708	694,678	611,420	642,447	720,442	681,536	687,571	672,336	706,723	720,070	715,446	8,679,464
TOTAL ENERGY PURCHASED	E 2,469,514	2,539,062	2,332,564	2,221,276	2,279,740	2,303,499	2,257,492	2,270,826	2,272,068	2,157,579	2,319,838	2,298,127	27,711,574
PURCHASED POWER FUEL EXPENSE:	E 3,598,774	4,455,190	3,322,063	3,648,448	3,095,034	3,678,038	3,247,721	2,859,542	2,901,145	2,670,632	2,675,018	2,853,749	38,512,864

* PASNY - POWER AUTHORITY FOR THE STATE OF NEW YORK
 ** REWECC - RHODE ISLAND, EASTERN MASSACHUSETTS, VERMONT ENERGY CONTROL
 *** ISO-NE INDEPENDENT SYSTEM OPERATOR - NEW ENGLAND
 **** NEMA - NORTHEAST MASSACHUSETTS



from FY 2010 Monthly Power Supply reports

Item	Total	July	August	Sept	Oct	...
NYPA, \$	142,752	11,896	11,896	11,896	11,896	...
NYPA, kw	67,141	4,534	4,019	4,533	6,328	...
ISO \$, %	32.05%	32.25%	27.22%	31.03%	37.33%	...
ISO Dmd\$	6,309,820	515,991	511,784	503,549	537,098	...
ISO Kw	1,543,677	125,958	125,846	125,496	131,553	...
Total Dmnd\$	19,687,248	1,600,167	1,880,365	1,622,793	1,438,821	...
Total Kw	2,884,520	228,562	227,926	228,092	250,315	...
\$ / Kw	\$6.83	\$7.00	\$8.25	\$7.11	\$5.75	...
ISO Kw, %	53.52%	55.11%	55.21%	55.02%	52.55%	...

240,377 Average Kw per month in 2010

from 2011 budget summary, reduced by 19,032,105 / 19,033,110 0.9999997

Item	\$	\$			
Project 3 - Debt	1,432,402 C	1,432,402			
Project 4 - Debt	4,351,075 C	4,351,074			
Project 5 - Debt	579,973 C	579,973			
Hydro - Support	284,400 C	284,400			
Peaking - Capacity	606,782 C	606,782	Sub-total		
Braintree Watson	1,517,232 C	1,517,232	8,771,863		
Nuke #1 Millstone	2,260,783 V	2,260,782			
Nuke Mix 1 Seabrook	255,698 V	255,698	Sub-total		
Intermediate - Capacity	1,505,613 V	1,505,613	4,022,093		
NYPA Capacity	152,352 X	152,352			
ISO Capacity	6,085,800 Z	6,085,797	Av'g rate	\$6.60	% of Kw 100.00%
Sum	19,032,110	New Sum 19,032,105	NYPA rate	\$2.27	2.33%

Capacity,	Kw	19,032,105	6,886,739	155,176	40,389	6,023,936	5,370,915	31,252	113,008	410,689
Percent		100.00%	36.18%	0.82%	0.21%	31.65%	28.22%	0.16%	0.59%	2.16%

Original, Exhibit 5 Demand, COSS p. 1	Total	Res	Res-Water	Res-TOU	Commercial	TOU	Resale	Lights	School
Estimated Kw	19,032,105	6,886,739	155,176	40,389	6,023,936	5,370,915	31,252	113,008	410,689
Percentages	2,788,530	1,009,026	22,736	5,918	882,610	786,931	4,579	16,558	60,173
ISO Capacity Cost, \$	100.00%	36.18%	0.82%	0.21%	31.65%	28.22%	0.16%	0.59%	2.16%
RMLD peak 8/18/09	6,085,800	2,202,138	49,620	12,915	1,926,243	1,717,430	9,993	36,136	131,324
School peak 8/18/09	2,202,138	49,620	12,915	1,926,243	1,717,430	9,993	36,136	131,324	
Thus school demand %	36.98%	0.83%	0.22%	32.35%	28.84%	0.17%	0.61%	0.00%	
School ISO demand am't	53,552	19,805	446	116	17,324	15,446	90	325	0
COSS amount too high by	53,552	19,805	446	116	17,324	15,446	90	325	0
Remove old School	6,085,800	2,221,943	50,066	13,031	1,943,567	1,732,876	10,083	36,461	77,772
Percentages	100.00%	36.98%	0.83%	0.22%	32.35%	28.84%	0.17%	0.61%	0.00%
Spread of School -delta	53,552	19,805	446	116	17,324	15,446	90	325	0
New ISO Spread	6,085,800	2,221,943	50,066	13,031	1,943,567	1,732,876	10,083	36,461	77,772

Some COSS-related Motions

What Are the Impacts of COSS Changes?

1. Move that the RMLD GM provide to the RMLB the cost & revenue results for the 12 months after the previous COSS rate changes went into effect.
2. Move that the RMLD GM provide to the RMLB the cost & revenue results for the 12 months after COSS rate changes enacted after 30 June 2010 go into effect.

Improved RMLD Metering

3. Move that all metering for Industrial TOU be of the type to record hourly data.
4. Move that the metering for at least 100 randomly selected Commercial customers (non house of worship) be of the type to record hourly data.
5. Move that the metering for at least 25% randomly selected houses of worship be of the type to record hourly data.

Basis of Charges from Demand & Transmission Vendors

6. Move that basis of charges, i.e., on what basis are the charges computed and what could the RMLD do to decrease the charge by 5%, be obtained from Demand and Transmission vendors