

Bill Impacts of RPS Options

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RPS Annual Program Funding Requirements

(dollars in million)

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Reference Case - 25% Pre-EEPS	91.8	77.0	122.8	168.3	224.8	204.9	202.5
Original MWh Targets from September 24, 2004 Order	91.8	78.0	135.8	193.5	265.1	243.0	240.6
30% Post-EEPS - \$24 million PV	91.8	107.4	142.9	176.4	218.6	257.3	298.2
30% Post-EEPS - \$49 million PV	91.8	133.4	168.6	201.8	243.5	281.9	322.3
30% Post-EEPS - \$24 million PV - 50% of Expected EEPS MWh Savings Achieved	91.8	107.4	158.9	208.6	271.4	343.7	416.2

Total RPS Program Funding Requirements

(dollars in million)

	<u>TOTAL</u>
Reference Case - 25% Pre-EEPS	2,229.1
Original MWh Targets from September 24, 2004 Order	2,618.0
30% Post-EEPS - \$24 million PV	2,913.2
30% Post-EEPS - \$49 million PV	3,051.9
30% Post-EEPS - \$24 million PV - 50% of Expected EEPS MWh Savings Achieved	4,094.0

Average RPS Surcharge per kWh (cents per kWh)

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Reference Case - 25% Pre-EEPS	.09	.07	.12	.16	.22	.21	.20
Original MWh Targets from September 24, 2004 Order	.09	.07	.13	.19	.26	.24	.24
30% Post-EEPS - \$24 million PV	.09	.10	.14	.17	.22	.26	.30
30% Post-EEPS - \$49 million PV	.09	.13	.16	.20	.24	.28	.33
30% Post-EEPS - \$24 million PV - 50% of Expected EEPS MWh Savings Achieved	.09	.10	.15	.20	.26	.34	.41

Percentage Increase in Total Bill Due to Surcharge

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Reference Case - 25% Pre-EEPS	.46%	.36%	.55%	.72%	.92%	.81%	.77%
Original MWh Targets from September 24, 2004 Order	.46%	.37%	.61%	.83%	1.09%	.97%	.92%
30% Post-EEPS - \$24 million PV	.46%	.51%	.64%	.76%	.90%	1.02%	1.14%
30% Post-EEPS - \$49 million PV	.46%	.63%	.76%	.87%	1.00%	1.12%	1.23%
30% Post-EEPS - \$24 million PV - 50% of Expected EEPS MWh Savings Achieved	.45%	.50%	.70%	.88%	1.09%	1.33%	1.55%

Forecasted 2015 Energy Price Suppression Due to RPS (cents per kWh)

	<u>CH</u>	<u>Con Ed</u>	<u>NYSEG</u>	<u>NMPC</u>	<u>O&R</u>	<u>RG&E</u>
Reference Case - 25% Pre-EEPS	0.06	0.02	0.16	0.17	0.06	0.17
Original MWh Targets from September 24, 2004 Order	0.17	0.08	0.21	0.21	0.19	0.20
30% Post-EEPS - With \$24 million PV	0.17	0.08	0.21	0.21	0.19	0.20
30% Post-EEPS - With \$49 million PV	0.17	0.08	0.21	0.21	0.19	0.20
30% Post-EEPS - \$24 million PV - 50% of Expected EEPS MWh Savings Achieved	0.20	0.09	0.32	0.33	0.22	0.36

RPS Impact Summary – Reference Case – 25% Pre-EEPS 2015 Bill Impacts

	Cents Per kWh			Percentage Impact			Monthly Bill Impact			Total Dollar Impact
	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	
Central Hudson:										
Residential:	0.23	(0.06)	0.18	2.48%	-0.47%	0.83%	\$1.50	(\$0.36)	\$1.14	\$3,411,383
Non-Residential:	0.23	(0.06)	0.18	4.81%	-0.48%	1.07%	\$13.33	(\$3.22)	\$10.11	\$5,549,222
Con Edison:										
Residential:	0.16	(0.02)	0.14	1.50%	-0.10%	0.41%	\$0.79	(\$0.11)	\$0.67	\$22,051,801
Non-Residential:	0.16	(0.02)	0.14	1.79%	-0.12%	0.48%	\$8.55	(\$1.24)	\$7.31	\$41,626,686
NYSEG:										
Residential:	0.22	(0.16)	0.07	1.97%	-1.30%	0.29%	\$1.31	(\$0.92)	\$0.39	\$3,560,488
Non-Residential:	0.22	(0.16)	0.07	3.04%	-1.16%	0.32%	\$12.01	(\$8.40)	\$3.60	\$4,999,765
National Grid:										
Residential:	0.26	(0.17)	0.09	1.98%	-1.30%	0.35%	\$1.44	(\$0.93)	\$0.51	\$8,760,543
Non-Residential:	0.26	(0.17)	0.09	2.93%	-1.06%	0.37%	\$20.49	(\$13.26)	\$7.23	\$14,235,566
Orange & Rockland:										
Residential:	0.23	(0.06)	0.17	1.98%	-0.45%	0.66%	\$1.53	(\$0.41)	\$1.12	\$2,541,341
Non-Residential:	0.23	(0.06)	0.17	3.54%	-0.47%	0.85%	\$14.51	(\$3.93)	\$10.58	\$3,832,226
RG&E:										
Residential:	0.22	(0.17)	0.05	1.89%	-1.71%	0.23%	\$1.23	(\$0.96)	\$0.28	\$1,065,139
Non-Residential:	0.22	(0.17)	0.05	2.39%	-1.53%	0.24%	\$18.80	(\$14.56)	\$4.23	\$2,036,162
									Total:	\$113,670,321

RPS Impact Summary – Original MWh Target From September 24, 2004 RPS Order 2015 Bill Impacts

	<u>Cents Per kWh</u>			<u>Percentage Impact</u>			<u>Monthly Bill Impact</u>			<u>Total Dollar Impact</u>
	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	
Central Hudson:										
Residential:	0.28	(0.17)	0.10	2.94%	-1.45%	0.49%	\$1.78	(\$1.11)	\$0.67	\$2,017,070
Non-Residential:	0.28	(0.17)	0.10	5.72%	-1.47%	0.63%	\$15.83	(\$9.85)	\$5.98	\$3,281,124
Con Edison:										
Residential:	0.19	(0.08)	0.11	1.78%	-0.34%	0.34%	\$0.94	(\$0.38)	\$0.55	\$18,109,067
Non-Residential:	0.19	(0.08)	0.11	2.13%	-0.39%	0.39%	\$10.16	(\$4.16)	\$6.00	\$34,184,077
NYSEG:										
Residential:	0.26	(0.21)	0.06	2.34%	-1.74%	0.24%	\$1.56	(\$1.23)	\$0.33	\$2,982,216
Non-Residential:	0.26	(0.21)	0.06	3.61%	-1.55%	0.27%	\$14.26	(\$11.24)	\$3.02	\$4,187,735
National Grid:										
Residential:	0.31	(0.21)	0.10	2.36%	-1.65%	0.36%	\$1.71	(\$1.18)	\$0.52	\$9,049,978
Non-Residential:	0.31	(0.21)	0.10	3.48%	-1.35%	0.38%	\$24.34	(\$16.87)	\$7.47	\$14,705,889
Orange & Rockland:										
Residential:	0.27	(0.19)	0.08	2.35%	-1.38%	0.32%	\$1.82	(\$1.28)	\$0.54	\$1,225,024
Non-Residential:	0.27	(0.19)	0.08	4.20%	-1.45%	0.41%	\$17.24	(\$12.13)	\$5.10	\$1,847,281
RG&E:										
Residential:	0.26	(0.20)	0.06	2.24%	-2.01%	0.28%	\$1.47	(\$1.13)	\$0.34	\$1,301,916
Non-Residential:	0.26	(0.20)	0.06	2.84%	-1.80%	0.30%	\$22.33	(\$17.15)	\$5.17	\$2,488,794
									Total:	\$95,380,171

RPS Impact Summary – 30% Post-EEPS

With \$24 Million of PV

2015 Bill Impacts

	<u>Cents Per kWh</u>			<u>Percentage Impact</u>			<u>Monthly Bill Impact</u>			<u>Total Dollar Impact</u>
	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	
Central Hudson:										
Residential:	0.34	(0.17)	0.17	3.65%	-1.45%	0.80%	\$2.21	(\$1.11)	\$1.10	\$3,295,775
Non-Residential:	0.34	(0.17)	0.17	7.09%	-1.47%	1.03%	\$19.62	(\$9.85)	\$9.77	\$5,361,166
Con Edison:										
Residential:	0.24	(0.08)	0.16	2.20%	-0.34%	0.47%	\$1.16	(\$0.38)	\$0.78	\$25,445,500
Non-Residential:	0.24	(0.08)	0.16	2.64%	-0.39%	0.55%	\$12.59	(\$4.16)	\$8.43	\$48,032,896
NYSEG:										
Residential:	0.33	(0.21)	0.12	2.90%	-1.74%	0.51%	\$1.94	(\$1.23)	\$0.70	\$6,356,501
Non-Residential:	0.33	(0.21)	0.12	4.47%	-1.55%	0.57%	\$17.67	(\$11.24)	\$6.43	\$8,926,026
National Grid:										
Residential:	0.38	(0.21)	0.17	2.92%	-1.65%	0.65%	\$2.12	(\$1.18)	\$0.93	\$16,107,677
Non-Residential:	0.38	(0.21)	0.17	4.31%	-1.35%	0.68%	\$30.16	(\$16.87)	\$13.29	\$26,174,395
Orange & Rockland:										
Residential:	0.34	(0.19)	0.14	2.92%	-1.38%	0.57%	\$2.25	(\$1.28)	\$0.97	\$2,215,570
Non-Residential:	0.34	(0.19)	0.14	5.21%	-1.45%	0.74%	\$21.36	(\$12.13)	\$9.23	\$3,340,979
RG&E:										
Residential:	0.32	(0.20)	0.12	2.78%	-2.01%	0.57%	\$1.82	(\$1.13)	\$0.69	\$2,646,426
Non-Residential:	0.32	(0.20)	0.12	3.52%	-1.80%	0.60%	\$27.67	(\$17.15)	\$10.52	\$5,059,014
									Total:	\$152,961,927

RPS Impact Summary – 30% Post-EEPS With \$49 Million of PV 2015 Bill Impacts

	<u>Cents Per kWh</u>			<u>Percentage Impact</u>			<u>Monthly Bill Impact</u>			<u>Total Dollar Impact</u>
	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	<u>Delivery</u>	<u>Commodity</u>	<u>Overall</u>	
Central Hudson:										
Residential:	0.37	(0.17)	0.20	3.94%	-1.45%	0.93%	\$2.39	(\$1.11)	\$1.28	\$3,831,555
Non-Residential:	0.37	(0.17)	0.20	7.66%	-1.47%	1.20%	\$21.21	(\$9.85)	\$11.35	\$6,232,707
Con Edison:										
Residential:	0.26	(0.08)	0.18	2.38%	-0.34%	0.53%	\$1.25	(\$0.38)	\$0.87	\$28,519,479
Non-Residential:	0.26	(0.08)	0.18	2.85%	-0.39%	0.62%	\$13.61	(\$4.16)	\$9.45	\$53,835,577
NYSEG:										
Residential:	0.35	(0.21)	0.15	3.14%	-1.74%	0.63%	\$2.09	(\$1.23)	\$0.86	\$7,770,333
Non-Residential:	0.35	(0.21)	0.15	4.84%	-1.55%	0.70%	\$19.10	(\$11.24)	\$7.86	\$10,911,379
National Grid:										
Residential:	0.42	(0.21)	0.20	3.16%	-1.65%	0.77%	\$2.29	(\$1.18)	\$1.10	\$19,064,866
Non-Residential:	0.42	(0.21)	0.20	4.66%	-1.35%	0.81%	\$32.60	(\$16.87)	\$15.74	\$30,979,720
Orange & Rockland:										
Residential:	0.36	(0.19)	0.17	3.15%	-1.38%	0.68%	\$2.43	(\$1.28)	\$1.16	\$2,630,611
Non-Residential:	0.36	(0.19)	0.17	5.63%	-1.45%	0.88%	\$23.09	(\$12.13)	\$10.96	\$3,966,842
RG&E:										
Residential:	0.35	(0.20)	0.15	3.00%	-2.01%	0.69%	\$1.96	(\$1.13)	\$0.84	\$3,209,778
Non-Residential:	0.35	(0.20)	0.15	3.80%	-1.80%	0.73%	\$29.91	(\$17.15)	\$12.76	\$6,135,940

Total: \$177,088,788

RPS Impact Summary – 30% Post-EEPS - \$24 million PV – 50% of Expected EEPS MWh Savings Achieved 2015 Bill Impacts

	Cents Per kWh			Percentage Impact			Monthly Bill Impact			Total Dollar Impact
	Delivery	Commodity	Overall	Delivery	Commodity	Overall	Delivery	Commodity	Overall	
Central Hudson:										
Residential:	0.46	(0.20)	0.26	5.06%	-1.65%	1.20%	\$3.07	(\$1.35)	\$1.71	\$5,132,355
Non-Residential:	0.46	(0.20)	0.26	9.93%	-1.67%	1.53%	\$27.49	(\$12.14)	\$15.35	\$8,427,143
Con Edison:										
Residential:	0.32	(0.09)	0.23	3.07%	-0.38%	0.70%	\$1.62	(\$0.44)	\$1.18	\$38,492,120
Non-Residential:	0.32	(0.09)	0.23	3.69%	-0.43%	0.81%	\$17.59	(\$4.80)	\$12.79	\$72,849,801
NYSEG:										
Residential:	0.44	(0.32)	0.12	4.02%	-2.60%	0.53%	\$2.68	(\$1.93)	\$0.75	\$6,763,556
Non-Residential:	0.44	(0.32)	0.12	6.29%	-2.32%	0.59%	\$24.79	(\$17.87)	\$6.92	\$9,608,919
National Grid:										
Residential:	0.52	(0.33)	0.19	4.09%	-2.49%	0.72%	\$2.96	(\$1.90)	\$1.07	\$18,430,595
Non-Residential:	0.52	(0.33)	0.19	6.09%	-2.04%	0.76%	\$42.04	(\$26.89)	\$15.15	\$29,829,192
Orange & Rockland:										
Residential:	0.45	(0.22)	0.23	4.04%	-1.58%	0.89%	\$3.12	(\$1.55)	\$1.57	\$3,569,906
Non-Residential:	0.45	(0.22)	0.23	7.31%	-1.64%	1.14%	\$29.96	(\$14.92)	\$15.05	\$5,448,017
RG&E:										
Residential:	0.44	(0.36)	0.07	3.87%	-3.55%	0.34%	\$2.53	(\$2.11)	\$0.42	\$1,608,942
Non-Residential:	0.44	(0.36)	0.07	4.91%	-3.19%	0.36%	\$38.67	(\$32.26)	\$6.41	\$3,084,871
									Total:	\$203,245,417

Statewide Impacts of Public Policy Programs RPS Option – 30% Post-EEPS with \$24M PV (Rate Impacts)

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Total Number of Customers:	6,548,618	6,548,618	6,548,618	6,548,618	6,548,618	6,548,618	6,548,618
Total Expected Revenue (\$Billion) (With all Public Policy Programs):	\$20.204	\$21.362	\$22.460	\$23.476	\$24.503	\$25.407	\$26.475
Rate Impacts of Public Policy Programs (1):							
SBC III Cost							
\$:	180,250,000	180,250,000	180,250,000	180,250,000	180,250,000	180,250,000	180,250,000
% Total Bill:	0.90%	0.85%	0.81%	0.77%	0.74%	0.71%	0.69%
RPS Cost (2)							
\$:	91,829,912	107,351,668	142,851,134	176,390,695	218,616,275	257,333,755	298,158,589
% Total Bill:	0.46%	0.51%	0.64%	0.76%	0.90%	1.02%	1.14%
EEPS Cost (3)							
\$:	324,582,455	324,582,455	324,582,455	324,582,455	324,582,455	324,582,455	243,436,841
% Total Bill:	1.63%	1.54%	1.47%	1.40%	1.34%	1.29%	0.93%
RGGI Cost (4)							
\$:	86,084,053	91,718,671	97,353,288	101,435,937	109,457,137	117,406,085	125,560,038
% Total Bill:	0.43%	0.43%	0.44%	0.43%	0.45%	0.46%	0.48%
Smart Grid Cost (5)							
\$:	0	24,940,000	23,940,000	22,940,000	21,940,000	20,940,000	19,940,000
% Total Bill:	0.00%	0.12%	0.11%	0.10%	0.09%	0.08%	0.08%
PSL 18-a Cost (6)							
\$:	175,860,760	368,663,513	387,612,635	405,163,514	422,877,446	221,144,852	0
% Total Bill:	0.88%	1.76%	1.76%	1.76%	1.76%	0.88%	0.00%
Total Rate Impacts of Surcharges							
\$:	858,607,180	1,097,506,306	1,156,589,512	1,210,762,601	1,277,723,312	1,121,657,147	867,345,468
% Total Bill:	4.44%	5.42%	5.43%	5.44%	5.50%	4.62%	3.39%

(1) Reflects just the expense portion of the program (e.g. surcharge). Does not include participants expenditures for efficiency measures installed.

(2) Assuming 25% Goal.

(3) "Fast Track" and "Jurisdictional Gap" programs.

(4) Assuming \$2.30/ton in 2009, \$3.00/ton in 2012, and \$4.00/ton in 2015.

(5) Assumes 50% of requested programs are approved for each company.

(6) Assuming 2% from 4/1/09-3/31/14 (Collected July 2009 - June 2014).

Statewide Impacts of Public Policy Programs

RPS Option – 30% Post-EEPS with \$24M PV (Price Suppression)

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Commodity Savings Due to Price Suppression:							
EEPS Savings							
\$:	68,583,472	147,440,068	223,335,927	297,618,209	369,385,033	440,395,572	536,045,975
% Total Bill:	0.34%	0.70%	1.00%	1.28%	1.53%	1.76%	2.07%
RPS Savings							
\$:	17,459,753	39,464,792	59,613,705	79,221,835	98,008,556	116,441,034	145,196,662
% Total Bill:	0.09%	0.19%	0.27%	0.34%	0.40%	0.46%	0.55%
Total Commodity Savings Due to Price Suppression:							
\$:	86,043,225	186,904,860	282,949,632	376,840,044	467,393,589	556,836,606	681,242,637
% Total Bill:	0.43%	0.88%	1.28%	1.63%	1.94%	2.24%	2.64%
Net Bill Impacts If Non-Participant:							
\$:	772,563,955	910,601,446	873,639,879	833,922,557	810,329,723	564,820,541	186,102,831
% Total Bill:	3.98%	4.45%	4.05%	3.68%	3.42%	2.27%	0.71%
Commodity Savings Due To Decreased Usage:							
SBC III Savings (7)							
\$:	125,437,738	173,832,504	227,545,720	301,271,678	384,220,230	478,079,241	583,477,362
% Total Bill:	0.62%	0.82%	1.02%	1.30%	1.59%	1.92%	2.25%
EEPS Savings							
\$:	232,991,687	379,344,541	602,829,971	980,150,736	1,510,887,425	2,096,460,872	2,556,265,379
% Total Bill:	1.17%	1.81%	2.76%	4.36%	6.57%	8.99%	10.69%
Additional Commodity Savings To Participants:							
\$:	\$358,429,425	\$553,177,045	\$830,375,691	\$1,281,422,414	\$1,895,107,655	\$2,574,540,113	\$3,139,742,741
% Total Bill:	1.81%	2.66%	3.84%	5.77%	8.38%	11.28%	13.46%
Net Bill Impacts Due to Public Policy Programs:							
\$:	\$414,134,531	\$357,424,402	\$43,264,188	(\$447,499,857)	(\$1,084,777,932)	(\$2,009,719,572)	(\$2,953,639,910)
% Total Bill:	2.09%	1.70%	0.19%	-1.87%	-4.24%	-7.33%	-10.04%

(7) Based on NYSERDA forecasted savings (2011 level assumed to continue through 2015 due to programs in place).