

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	78.6	124.4	168.8	225.3	204.9	202.5
30% Post-EEPS - With \$24 million PV	91.8	107.4	142.9	176.4	218.6	257.3	298.2
30% Post-EEPS - With \$49 million PV	91.8	133.4	168.6	201.8	243.5	281.9	322.3

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	0.09	0.07	0.12	0.16	0.22	0.21	0.20
30% Post-EEPS - With \$24 million PV	0.09	0.10	0.14	0.17	0.22	0.26	0.30
30% Post-EEPS - With \$49 million PV	0.09	0.13	0.16	0.19	0.24	0.28	0.33

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	0.46%	0.37%	0.56%	0.73%	0.93%	0.82%	0.78%
30% Post-EEPS - With \$24 million PV	0.46%	0.51%	0.64%	0.76%	0.91%	1.03%	1.15%
30% Post-EEPS - With \$49 million PV	0.46%	0.63%	0.76%	0.87%	1.01%	1.13%	1.24%

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	0.12	0.04	0.15	0.16	0.13	0.17
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

RPS Impact Summary – Reference Case – 25% Pre-EEPS 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:	0.23	(0.12)	0.11	2.47%	-1.02%	0.54%	\$1.50	(\$0.77)	\$0.73	\$2,197,960
Non-Residential:	0.23	(0.12)	0.11	4.80%	-1.03%	0.69%	\$13.33	(\$6.81)	\$6.51	\$3,575,374
Con Edison:										
Residential:	0.16	(0.04)	0.12	1.50%	-0.17%	0.37%	\$0.79	(\$0.18)	\$0.60	\$19,767,077
Non-Residential:	0.16	(0.04)	0.12	1.80%	-0.19%	0.43%	\$8.55	(\$2.00)	\$6.55	\$37,313,865
NYSEG:										
Residential:	0.22	(0.15)	0.07	1.97%	-1.30%	0.29%	\$1.31	(\$0.91)	\$0.40	\$3,624,045
Non-Residential:	0.22	(0.15)	0.07	3.03%	-1.16%	0.33%	\$12.00	(\$8.34)	\$3.67	\$5,089,014
National Grid:										
Residential:	0.26	(0.16)	0.10	1.98%	-1.26%	0.37%	\$1.44	(\$0.90)	\$0.54	\$9,294,650
Non-Residential:	0.26	(0.16)	0.10	2.92%	-1.03%	0.39%	\$20.49	(\$12.82)	\$7.67	\$15,103,471
Orange & Rockland:										
Residential:	0.23	(0.13)	0.10	1.98%	-0.97%	0.38%	\$1.53	(\$0.88)	\$0.65	\$1,470,750
Non-Residential:	0.23	(0.13)	0.10	3.53%	-1.01%	0.50%	\$14.51	(\$8.38)	\$6.13	\$2,217,824
RG&E:										
Residential:	0.22	(0.17)	0.05	1.88%	-1.67%	0.25%	\$1.23	(\$0.93)	\$0.30	\$1,155,200
Non-Residential:	0.22	(0.17)	0.05	2.38%	-1.50%	0.26%	\$18.80	(\$14.20)	\$4.59	\$2,208,326
										Total:
										\$103,017,555

RPS Impact Summary – 30% Post-EEPS with \$24 Million PV 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:	0.34	(0.17)	0.17	3.65%	-1.47%	0.81%	\$2.21	(\$1.11)	\$1.10	\$3,295,775
Non-Residential:	0.34	(0.17)	0.17	7.09%	-1.49%	1.04%	\$19.62	(\$9.85)	\$9.77	\$5,361,166
Con Edison:										
Residential:	0.24	(0.08)	0.16	2.20%	-0.35%	0.48%	\$1.16	(\$0.38)	\$0.78	\$25,445,500
Non-Residential:	0.24	(0.08)	0.16	2.64%	-0.40%	0.56%	\$12.59	(\$4.16)	\$8.43	\$48,032,896
NYSEG:										
Residential:	0.33	(0.21)	0.12	2.90%	-1.75%	0.51%	\$1.94	(\$1.23)	\$0.70	\$6,356,501
Non-Residential:	0.33	(0.21)	0.12	4.47%	-1.56%	0.58%	\$17.67	(\$11.24)	\$6.43	\$8,926,026
National Grid:										
Residential:	0.38	(0.21)	0.17	2.92%	-1.66%	0.65%	\$2.12	(\$1.18)	\$0.93	\$16,107,677
Non-Residential:	0.38	(0.21)	0.17	4.31%	-1.36%	0.68%	\$30.16	(\$16.87)	\$13.29	\$26,174,395
Orange & Rockland:										
Residential:	0.34	(0.19)	0.14	2.92%	-1.41%	0.58%	\$2.25	(\$1.28)	\$0.97	\$2,215,570
Non-Residential:	0.34	(0.19)	0.14	5.21%	-1.47%	0.75%	\$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%	-1.81%	0.61%	\$27.67	(\$17.15)	\$10.52	\$5,059,014
										Total:
										\$152,961,927

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

	Cents Per kWh			Percentage Impact			Monthly Bill Impact			Total Dollar Impact
	Delivery	Commodity	Overall	Delivery	Commodity	Overall	Delivery	Commodity	Overall	
Central Hudson:										
Residential:	0.37	(0.17)	0.20	3.94%	-1.47%	0.94%	\$2.39	(\$1.11)	\$1.28	\$3,831,555
Non-Residential:	0.37	(0.17)	0.20	7.66%	-1.49%	1.21%	\$21.21	(\$9.85)	\$11.35	\$6,232,707
Con Edison:										
Residential:	0.26	(0.08)	0.18	2.38%	-0.35%	0.54%	\$1.25	(\$0.38)	\$0.87	\$28,519,479
Non-Residential:	0.26	(0.08)	0.18	2.85%	-0.40%	0.62%	\$13.61	(\$4.16)	\$9.45	\$53,835,577
NYSEG:										
Residential:	0.35	(0.21)	0.15	3.14%	-1.75%	0.63%	\$2.09	(\$1.23)	\$0.86	\$7,770,333
Non-Residential:	0.35	(0.21)	0.15	4.84%	-1.56%	0.71%	\$19.10	(\$11.24)	\$7.86	\$10,911,379
National Grid:										
Residential:	0.42	(0.21)	0.20	3.16%	-1.66%	0.77%	\$2.29	(\$1.18)	\$1.10	\$19,064,866
Non-Residential:	0.42	(0.21)	0.20	4.66%	-1.36%	0.81%	\$32.60	(\$16.87)	\$15.74	\$30,979,720
Orange & Rockland:										
Residential:	0.36	(0.19)	0.17	3.15%	-1.41%	0.69%	\$2.43	(\$1.28)	\$1.16	\$2,630,611
Non-Residential:	0.36	(0.19)	0.17	5.63%	-1.47%	0.89%	\$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%	-1.81%	0.74%	\$29.91	(\$17.15)	\$12.76	\$6,135,940
										Total: \$177,088,788

RPS Impact – Difference between Reference Case and 30% with \$24M PV

	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:	0.11	(0.05)	0.06	1.14%	-0.46%	0.27%	\$0.71	(\$0.34)	\$0.37	\$1,097,815
Non-Residential:	0.11	(0.05)	0.06	2.17%	-0.46%	0.34%	\$6.29	(\$3.04)	\$3.25	\$1,785,792
Con Edison:										
Residential:	0.08	(0.04)	0.04	0.70%	-0.18%	0.11%	\$0.37	(\$0.20)	\$0.17	\$5,678,423
Non-Residential:	0.08	(0.04)	0.04	0.83%	-0.21%	0.12%	\$4.04	(\$2.16)	\$1.88	\$10,719,031
NYSEG:										
Residential:	0.10	(0.05)	0.05	0.91%	-0.46%	0.22%	\$0.62	(\$0.32)	\$0.30	\$2,732,456
Non-Residential:	0.10	(0.05)	0.05	1.39%	-0.41%	0.25%	\$5.67	(\$2.90)	\$2.76	\$3,837,013
National Grid:										
Residential:	0.12	(0.05)	0.07	0.92%	-0.40%	0.27%	\$0.68	(\$0.28)	\$0.39	\$6,813,028
Non-Residential:	0.12	(0.05)	0.07	1.34%	-0.33%	0.29%	\$9.67	(\$4.05)	\$5.62	\$11,070,924
Orange & Rockland:										
Residential:	0.11	(0.06)	0.05	0.92%	-0.44%	0.19%	\$0.72	(\$0.40)	\$0.33	\$744,820
Non-Residential:	0.11	(0.06)	0.05	1.61%	-0.46%	0.25%	\$6.85	(\$3.75)	\$3.10	\$1,123,155
RG&E:										
Residential:	0.10	(0.03)	0.07	0.87%	-0.35%	0.32%	\$0.58	(\$0.19)	\$0.39	\$1,491,226
Non-Residential:	0.10	(0.03)	0.07	1.10%	-0.32%	0.34%	\$8.88	(\$2.95)	\$5.93	\$2,850,688
										Total:
										\$49,944,372

RPS Impact – Difference between Reference Case and 30% with \$49M PV

	Cents Per kWh			Percentage Impact			Monthly Bill Impact			Total Dollar Impact
	Delivery	Commodity	Overall	Delivery	Commodity	Overall	Delivery	Commodity	Overall	
Central Hudson:										
Residential:	0.14	(0.05)	0.08	1.43%	-0.46%	0.40%	\$0.89	(\$0.34)	\$0.55	\$1,633,595
Non-Residential:	0.14	(0.05)	0.08	2.72%	-0.46%	0.51%	\$7.88	(\$3.04)	\$4.84	\$2,657,333
Con Edison:										
Residential:	0.10	(0.04)	0.05	0.87%	-0.18%	0.16%	\$0.47	(\$0.20)	\$0.27	\$8,752,402
Non-Residential:	0.10	(0.04)	0.05	1.04%	-0.21%	0.19%	\$5.06	(\$2.16)	\$2.90	\$16,521,712
NYSEG:										
Residential:	0.13	(0.05)	0.08	1.14%	-0.46%	0.33%	\$0.78	(\$0.32)	\$0.46	\$4,146,288
Non-Residential:	0.13	(0.05)	0.08	1.74%	-0.41%	0.38%	\$7.10	(\$2.90)	\$4.19	\$5,822,365
National Grid:										
Residential:	0.15	(0.05)	0.10	1.15%	-0.40%	0.39%	\$0.85	(\$0.28)	\$0.57	\$9,770,216
Non-Residential:	0.15	(0.05)	0.10	1.68%	-0.33%	0.41%	\$12.12	(\$4.05)	\$8.06	\$15,876,249
Orange & Rockland:										
Residential:	0.13	(0.06)	0.08	1.15%	-0.44%	0.30%	\$0.90	(\$0.40)	\$0.51	\$1,159,861
Non-Residential:	0.13	(0.06)	0.08	2.02%	-0.46%	0.39%	\$8.58	(\$3.75)	\$4.83	\$1,749,018
RG&E:										
Residential:	0.13	(0.03)	0.10	1.09%	-0.35%	0.44%	\$0.73	(\$0.19)	\$0.54	\$2,054,579
Non-Residential:	0.13	(0.03)	0.10	1.38%	-0.32%	0.47%	\$11.12	(\$2.95)	\$8.17	\$3,927,614
									Total:	\$74,071,233

Statewide Impacts of Public Policy Programs

RPS Option – 30% Post-EEPS with \$24M PV

	<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 (With all Public Policy Programs):	\$20,093,966,650	\$21,229,562,778	\$22,305,807,247	\$23,303,229,695	\$24,312,067,157	\$25,200,743,805	\$26,254,778,664
Average Monthly Bill:	\$255.70	\$270.15	\$283.85	\$296.54	\$309.38	\$320.69	\$334.10
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:	0.91%	0.86%	0.81%	0.78%	0.75%	0.72%	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%	0.91%	1.03%	1.15%
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:	1.64%	1.55%	1.48%	1.41%	1.35%	1.30%	0.94%
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%	0.44%	0.45%	0.47%	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)							
\$:	174,902,974	366,385,865	384,960,000	402,173,801	419,584,607	219,353,655	0
% Total Bill:	0.88%	1.76%	1.76%	1.76%	1.76%	0.88%	0.00%
Total Rate Impacts							
\$:	857,649,394	1,095,228,658	1,153,936,876	1,207,772,889	1,274,430,473	1,119,865,951	867,345,468
% Total Bill:	4.46%	5.44%	5.46%	5.47%	5.53%	4.65%	3.42%