

Potential BQDM Breakdown

Estimated Utility Side Solutions	Distribution	Summer 2014	Summer 2015	Summer 2016	Summer 2017
	kW to MW				
Battery Installation	1,000	0	0	0	0
Voltage Optimization	1,000	0	1	7.9	16.5
Brownsville Area PV Pilot	1,000	0	0	0	0
Plattwood Fuel Cell	1,000	0	0	0	0
Total Megawatts for USS		0	1	7.9	16.5

Estimated Customer Side Solutions	Distribution	Summer 2014	Summer 2015	Summer 2016	Summer 2017
	kW to MW				
Small Business Direct Install (SBDI) Adder	1,000	0	5.1	6.6	10.26
Multifamily EEPS Adder	1,000	0	1.39	1.7	4.11
Other Energy Efficiency	1,000	0	0	0	3.9
Rooftop Photovoltaics	1,000	0	0	0	0
Commercial Refrigeration Energy Storage	1,000	0	0	0	0
Demand Response Auction	1,000	0	0	0	1.8
Residential Demand Response	1,000	0	0	0	0.09
Fuel Cells	1,000	0	0	0	0.8
Combined Heat & Power Adder	1,000	0	0	0	1.0
Battery Projects	1,000	0	0	0	0.3
Total Megawatts for CSS		0.0	6.5	8.3	22.3

AVOIDED COSTS					
Avoided Distribution Costs (\$/kW)		\$0.00	\$113.15	\$116.55	\$120.04

Avoided Distribution Costs	\$0	\$113,153	\$920,726	\$1,980,726
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Summer 2018	Summer 2019	Summer 2020	Summer 2021	Summer 2022	Summer 2023	Summer 2024	Summer 2025	Summer 2026
2	2	2	2	2	2	2	2	2
16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5

Summer 2018	Summer 2019	Summer 2020	Summer 2021	Summer 2022	Summer 2023	Summer 2024	Summer 2025	Summer 2026
12.24	12.237	12.237	12.237	12.237	12.237	12.237	12.237	4.6
5.04	5.035	5.035	5.035	5.035	5.035	5.035	5.035	2.462
6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
0								
0								
16.7								
0.2								
6.1								
2.9								
0.3								
49.9	23.7	23.7	23.7	23.7	23.7	23.7	23.7	13.5

DOLLARS								
\$123.65	\$127.35	\$131.18	\$135.11	\$139.16	\$143.34	\$147.64	\$152.07	\$156.63

Utility Side Solution Avoided Costs								
\$2,287,438	\$2,356,062	\$2,426,743	\$2,499,546	\$2,574,532	\$2,651,768	\$2,731,321	\$2,813,261	\$2,897,659

Avoided Distribution Costs (\$/kW)	\$0	\$734,363	\$966,179	\$2,673,500

Customer Side Solution Avoided Costs								
\$6,166,440	\$3,014,740	\$3,105,182	\$3,198,338	\$3,294,288	\$3,393,116	\$3,494,910	\$3,599,757	\$2,108,556

Summary										
	Summer 2014	Summer 2015	Summer 2016	Summer 2017	Summer 2018	Summer 2019	Summer 2020	Summer 2021	Summer 2022	Summer 2023
AVOIDED COSTS										
DOLLARS										
Avoided Capacity (NYC) \$/kW-yr	\$ -	\$ 84.52	\$ 86.25	\$ 88.01	\$ 79.77	\$ 87.13	\$ 88.51	\$ 123.13	\$ 126.68	\$ 132.44
Avoided Energy (NYC) \$/MWh	\$ -	\$ 33.00	\$ 29.66	\$ 38.66	\$ 41.37	\$ 44.14	\$ 47.57	\$ 49.96	\$ 52.81	\$ 55.03
Avoided Distribution Costs (\$/kW)	\$ -	\$ 113.15	\$ 116.55	\$ 120.04	\$ 123.65	\$ 127.35	\$ 131.18	\$ 135.11	\$ 139.16	\$ 143.34
Net Avoided CO2	\$ -	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24	\$ 24.24
Capacity										
Annual Avoided Generation Capacity Costs (AGCC) due to 1 kW reduction in Peak Load*										
Nominal \$										
NYC only	2014	2015**	2016**	2017	2018	2019	2020	2021	2022	2023
AGCC at Transmission Level	\$ -	\$ 84.52	\$ 86.25	\$ 88.01	\$ 79.77	\$ 87.13	\$ 88.51	\$ 123.13	\$ 126.68	\$ 132.44
*Based on 2016 Gold Book										
**To calculate values pre-2016, de-escalated at 2% per year; 2% is consistent with escalation rates										
Energy										
2016 CARIS 2 LBMP (\$/MWh)										
Nominal \$										
NYCITY (Zone J)*	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	\$ -	\$ 33.00	\$ 29.66	\$ 38.66	\$ 41.37	\$ 44.14	\$ 47.57	\$ 49.96	\$ 52.81	\$ 55.03
2016 Avoided Energy:	\$29.66	\$/MWh	Based on monthly energy savings estimates for installs by the end of 2015. Total savings c							
2015 Avoided Energy:	\$33.00	\$/MWh	Based on monthly energy savings estimates for installs by the end of 2015. Total savings c							
Distribution										
Rate Case										
3% Escalation beyond 2024										
Nominal \$										
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023

Summer 2024	Summer 2025	Summer 2026	Summer 2027
\$ 138.66	\$ 147.08	\$ 157.57	\$ 165.24
\$ 61.45	\$ 64.13	\$ 66.38	n/a
\$ 147.64	\$ 152.07	\$ 156.63	n/a
\$ 24.24	\$ 24.24	\$ 24.24	n/a
2024	2025	2026	2027
\$ 138.66	\$ 147.08	\$ 157.57	\$ 165.24
2024	2025	2026	
\$ 61.45	\$ 64.13	\$ 66.38	
divided by total reductions.			
divided by total reductions.			
2024	2025	2026	

