

Matter Number 16-00681, In the Matter of the Clean Energy Fund Investment
Plan

Clean Energy Fund:
Budget Accounting and Benefits Chapter

Submitted by:
The New York State Energy Research and Development Authority

Revised September 17, 2021

Budget Accounting and Benefits

This Budget Accounting and Benefits chapter is intended to provide a current and comprehensive compilation of budgets and benefits for all Market Development and Innovation & Research portfolio initiatives contained within the Clean Energy Fund (CEF) Investment Plan as of September 17, 2021. These are compared to the minimum projected benefits identified in the CEF Order and presented in Table 1 for the combined four portfolios of the CEF which also includes NY-Sun and NYGB. All dollars and benefits are reflected in the year in which they are anticipated to be expended.

Table 1. CEF Minimum Projected Benefits 2016 - 2025 (in millions)

		Cumulative Annual	Lifetime
Energy Efficiency	MWh	10.6	*
	MMBtu	13.4	*
	MW	*	*
Renwable Energy	MWh	*	88
	MW	*	*
CO2e Emissions Reductions (tons)		*	133
Customer Bill Savings		*	\$39,131
Leveraged Funds		*	\$29,356

* Denotes metric to be tracked and reported

Table 2 summarizes the progressive budget schedule by portfolio, admin, and evaluation funding. Two adjustments have been made to the CEF program authorization as of September 17, 2021. The first is to increase the authorization by \$9,604,661 to reinstate the original program authorization amounts per the CEF Order, as there was not a shortfall of uncommitted funds as was previously determined. The second change is to revise the Market Development, Innovation and Research, CEF Administration, and CEF Evaluation budgets to account for a reduction in RGGI funding contributions of \$68,315,532. Table 3 details the budget schedule by all initiatives contained within this Investment Plan.

On July 24, 2020 the Statewide Low- and Moderate-Income Portfolio Implementation Plan (Case 18-M-0084, Case 14-M-0094) was jointly filed by NYSERDA and the Utilities. LMI funding administered by NYSERDA starting in 2020 is now governed by this "Joint Plan" and as such, is no longer managed under the traditional NYSERDA "LMI Chapter". For continuity and transparency, NYSERDA will continue to report the details of Joint Plan programming within the Budget Accounting and Benefits Chapter under the "LMI Chapter" heading.

Table 2. Market Development and Innovation & Research Portfolio Budgets¹

	Program Authorization	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	% of Program Authorization
Market Development																		
Program Funds	\$2,399,728,000	\$28,330,769	\$74,861,305	\$108,779,933	\$158,854,881	\$172,929,739	\$203,823,028	\$301,582,665	\$322,998,615	\$308,533,310	\$250,333,549	\$168,632,272	\$87,839,391	\$52,810,013	\$24,506,546	\$9,198,829	\$2,274,014,845	96%
NYS Cost Recovery Fee		\$732,593	\$1,202,947	\$1,582,111	\$1,911,061	\$2,213,325	\$2,349,828	\$3,343,461	\$3,549,323	\$3,384,397	\$2,758,136	\$1,738,736	\$913,634	\$550,313	\$259,604	\$100,223	\$26,589,691	
Innovation & Research																		
Program Funds	\$631,672,000	\$400,620	\$5,216,206	\$21,694,776	\$24,919,357	\$35,324,210	\$51,964,930	\$64,817,353	\$72,682,070	\$48,446,950	\$31,592,935	\$24,936,767	\$19,243,460	\$11,692,186	\$5,307,883	\$4,483,686	\$422,723,388	68%
NYS Cost Recovery Fee		\$10,172	\$73,012	\$318,550	\$287,036	\$489,822	\$599,091	\$718,590	\$798,679	\$531,430	\$348,086	\$257,118	\$200,155	\$121,840	\$56,228	\$48,851	\$4,858,659	
Administration	\$274,400,000	\$13,732,321	\$25,207,817	\$28,885,275	\$23,097,895	\$24,478,353	\$25,262,234	\$26,020,101	\$26,800,704	\$27,604,725	\$22,827,046	\$0	\$0	\$0	\$0	\$0	\$243,916,471	89%
Evaluation	\$124,200,000	\$146,687	\$1,024,009	\$1,386,267	\$1,707,425	\$3,757,610	\$13,841,744	\$13,784,957	\$12,318,729	\$6,997,716	\$5,868,704	\$6,016,381	\$4,295,974	\$2,713,043	\$1,768,737	\$1,224,845	\$76,852,829	62%
Total	\$3,430,000,000	\$43,353,162	\$107,585,295	\$162,646,913	\$210,777,655	\$239,193,059	\$297,840,856	\$410,267,127	\$439,148,120	\$395,498,527	\$313,728,456	\$201,581,274	\$112,492,613	\$67,887,394	\$31,898,998	\$15,056,434	\$3,048,955,883	89%

¹The CEF Order authorized funding for the combined program costs and New York State Cost Recovery Fee (CRF) costs. NYSERDA has revised the presentation in this summary to report CRF separate from program costs, but still subject to the original authorization (as modified by NYSERDA's Uncommitted Funds filing dated April 29, 2016) on a combined basis. This approach improves the transparency of reporting and also recognizes the differences in the timing of commitment/expenditures of program costs vs. CRF costs. The initial budget for CRF assumed the assessment would average 2.2% of funding over the term of the CEF. This was revised on September 13, 2019 to reflect an average of 1.5% of funding over the term of the CEF, representing data gathered during the first 3 years of the CEF. A 1% rate is being reflected for future forecasts starting in 2021 based on current and anticipated costs. Values for historical years throughout the BAB Chapter are updated annually during annual IPPR filing to reflect recorded progress at that time.

Table 3. Market Development and Innovation & Research Budgets by Chapter

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Innovation & Research	\$ 410,792	\$ 5,289,218	\$ 22,013,326	\$ 25,206,393	\$ 35,814,032	\$ 52,564,022	\$ 65,535,943	\$ 73,480,749	\$ 48,978,379	\$ 31,941,021	\$ 25,193,885	\$ 19,443,615	\$ 11,814,025	\$ 5,364,111	\$ 4,532,537	\$ 427,582,047
Building Innovation Chapter	\$ -	\$ 117,932	\$ 412,766	\$ 1,573,179	\$ 1,302,203	\$ 2,625,000	\$ 5,046,894	\$ 4,403,151	\$ 5,300,000	\$ 3,300,000	\$ 3,000,000	\$ 2,000,000	\$ 918,875	\$ -	\$ -	\$ 30,000,000
NextGen HVAC	\$ -	\$ 117,932	\$ 412,766	\$ 1,573,179	\$ 1,302,203	\$ 2,625,000	\$ 5,046,894	\$ 4,403,151	\$ 5,300,000	\$ 3,300,000	\$ 3,000,000	\$ 2,000,000	\$ 918,875	\$ -	\$ -	\$ 30,000,000
Clean Transportation Chapter	\$ -	\$ 153,233	\$ 844,623	\$ 1,965,472	\$ 2,113,098	\$ 3,235,000	\$ 6,117,164	\$ 9,550,000	\$ 6,430,640	\$ 4,050,000	\$ 2,147,024	\$ 1,000,000	\$ 743,747	\$ -	\$ -	\$ 38,350,001
Electric Vehicles - Innovation	\$ -	\$ 153,233	\$ 844,623	\$ 1,965,472	\$ 2,113,098	\$ 3,235,000	\$ 6,117,164	\$ 9,550,000	\$ 6,430,640	\$ 4,050,000	\$ 2,147,024	\$ 1,000,000	\$ 743,747	\$ -	\$ -	\$ 38,350,001
Public Transportation and Electrified Rail	\$ -	\$ -	\$ 666,820	\$ 1,356,710	\$ 1,133,772	\$ 1,585,000	\$ 3,417,164	\$ 6,300,000	\$ 3,230,640	\$ 1,400,000	\$ 606,661	\$ -	\$ -	\$ -	\$ -	\$ 19,580,000
Energy-Related Environmental Research Chapter	\$ -	\$ 97,601	\$ 1,189,333	\$ 1,899,070	\$ 8,326,002	\$ 5,050,000	\$ 5,000,000	\$ 6,500,000	\$ 4,000,000	\$ 3,000,000	\$ 1,500,000	\$ 1,000,000	\$ 237,994	\$ -	\$ -	\$ 37,800,000
Energy-Related Environmental Research	\$ -	\$ 97,601	\$ 1,189,333	\$ 1,899,070	\$ 8,326,002	\$ 5,050,000	\$ 5,000,000	\$ 6,500,000	\$ 4,000,000	\$ 3,000,000	\$ 1,500,000	\$ 1,000,000	\$ 237,994	\$ -	\$ -	\$ 37,800,000
Grid Modernization Chapter	\$ 400,620	\$ 4,732,411	\$ 14,396,838	\$ 7,595,754	\$ 5,552,190	\$ 6,365,420	\$ 8,153,414	\$ 13,382,263	\$ 13,877,964	\$ 12,109,310	\$ 14,289,743	\$ 13,055,426	\$ 9,791,570	\$ 5,307,883	\$ 4,483,686	\$ 133,494,490
High Performing Electric Grid	\$ 400,620	\$ 4,732,411	\$ 14,396,838	\$ 7,595,754	\$ 5,552,190	\$ 6,365,420	\$ 8,153,414	\$ 13,382,263	\$ 13,877,964	\$ 12,109,310	\$ 14,289,743	\$ 13,055,426	\$ 9,791,570	\$ 5,307,883	\$ 4,483,686	\$ 133,494,490
Power Electronics Manufacturing Consortium	\$ -	\$ 3,322,578	\$ 11,304,802	\$ 2,072,620	\$ (5,510)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,694,490
Innovation Capacity and Business Development Chapter	\$ -	\$ 94,771	\$ 4,106,787	\$ 8,959,627	\$ 14,156,605	\$ 29,682,195	\$ 32,604,319	\$ 28,646,094	\$ 7,551,846	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,828,245
CleanTech Startup Growth	\$ -	\$ 55,175	\$ 3,627,541	\$ 5,969,946	\$ 10,295,297	\$ 24,574,654	\$ 25,236,566	\$ 23,243,087	\$ 4,699,980	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,728,245
Manufacturing Corps	\$ -	\$ 39,596	\$ 445,328	\$ 2,214,178	\$ 1,647,473	\$ 2,551,142	\$ 2,551,142	\$ 2,551,141	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,000,000
Novel Business Models and Offerings	\$ -	\$ -	\$ 33,918	\$ 775,504	\$ 2,213,835	\$ 2,556,400	\$ 4,816,611	\$ 2,851,866	\$ 2,851,866	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,100,000
Market Characterization & Design Innovation & Research Chapter	\$ -	\$ 653	\$ -	\$ -	\$ 172,555	\$ 525,815	\$ 525,815	\$ 525,815	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,750,653
Market Characterization & Design Innovation & Research	\$ -	\$ 653	\$ -	\$ -	\$ 172,555	\$ 525,815	\$ 525,815	\$ 525,815	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,750,653
NYS Cost Recovery Fee Innovation & Research	\$ 10,172	\$ 73,012	\$ 318,550	\$ 287,036	\$ 489,822	\$ 599,091	\$ 718,590	\$ 798,679	\$ 531,430	\$ 348,086	\$ 257,118	\$ 200,155	\$ 121,840	\$ 56,228	\$ 48,851	\$ 4,858,659
NYS Cost Recovery Fee Innovation & Research	\$ 10,172	\$ 73,012	\$ 318,550	\$ 287,036	\$ 489,822	\$ 599,091	\$ 718,590	\$ 798,679	\$ 531,430	\$ 348,086	\$ 257,118	\$ 200,155	\$ 121,840	\$ 56,228	\$ 48,851	\$ 4,858,659
Renewables Optimization Chapter	\$ -	\$ 19,605	\$ 744,429	\$ 2,926,255	\$ 3,701,557	\$ 4,481,500	\$ 7,369,748	\$ 9,674,747	\$ 11,286,500	\$ 9,107,625	\$ 4,000,000	\$ 2,188,034	\$ -	\$ -	\$ -	\$ 55,500,000
Energy Storage Technology and Product Development	\$ -	\$ 19,605	\$ 744,429	\$ 2,926,255	\$ 3,701,557	\$ 4,481,500	\$ 7,369,748	\$ 9,674,747	\$ 11,286,500	\$ 9,107,625	\$ 4,000,000	\$ 2,188,034	\$ -	\$ -	\$ -	\$ 55,500,000
National Offshore Wind Research & Development Consortium	\$ -	\$ -	\$ 2,581	\$ 1,740,959	\$ 1,191,635	\$ 3,251,500	\$ 3,139,748	\$ 3,144,747	\$ 5,456,500	\$ 4,572,330	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,500,000
Market Development	\$ 29,063,362	\$ 76,064,252	\$ 110,362,044	\$ 160,765,942	\$ 175,143,064	\$ 206,172,856	\$ 304,926,126	\$ 326,547,938	\$ 311,917,708	\$ 253,091,686	\$ 170,371,008	\$ 88,753,025	\$ 53,360,325	\$ 24,766,150	\$ 9,299,052	\$ 2,300,604,536
Agriculture Chapter	\$ -	\$ 233,148	\$ 339,673	\$ 430,758	\$ 644,500	\$ 1,838,121	\$ 1,766,615	\$ 1,812,078	\$ 1,279,734	\$ 415,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,760,000
2030 GLASE	\$ -	\$ 233,148	\$ 339,673	\$ 430,758	\$ 644,500	\$ 1,838,121	\$ 1,766,615	\$ 1,812,078	\$ 1,279,734	\$ 415,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,760,000
Advancing Agricultural Energy Technologies	\$ -	\$ -	\$ 1,929	\$ 14,508	\$ 120,368	\$ 432,823	\$ 925,000	\$ 1,175,000	\$ 675,000	\$ 415,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,760,000
Clean Heating and Cooling Chapter	\$ -	\$ 2,773,815	\$ 12,838,436	\$ 22,837,618	\$ 13,096,265	\$ 24,987,399	\$ 27,204,155	\$ 30,666,864	\$ 17,058,884	\$ 12,680,584	\$ 5,098,772	\$ 1,925,893	\$ 1,865,000	\$ 2,115,000	\$ 2,315,000	\$ 177,463,685
Heat Pumps Phase 1 (2017)	\$ -	\$ 2,043,606	\$ 10,667,927	\$ 19,117,883	\$ 8,457,566	\$ 9,364,692	\$ 6,523,916	\$ 3,658,440	\$ 3,252,327	\$ 1,830,499	\$ 605,187	\$ 254,643	\$ -	\$ -	\$ -	\$ 65,776,685
Heat Pumps Phase 2 (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,777,821	\$ 13,478,645	\$ 19,302,642	\$ 26,524,415	\$ 13,806,557	\$ 10,850,085	\$ 4,493,585	\$ 1,671,250	\$ 1,865,000	\$ 2,115,000	\$ 98,200,000
Renewable Heat NY - Clean and Efficient Biomass Heating	\$ -	\$ 730,210	\$ 2,170,509	\$ 3,719,735	\$ 2,860,878	\$ 2,144,062	\$ 1,377,597	\$ 484,009	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,487,000
Clean Transportation Chapter	\$ -	\$ 4,396,761	\$ 7,587,903	\$ 9,576,797	\$ 14,965,080	\$ 2,190,266	\$ 391,597	\$ 391,597	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,500,000
Electric Vehicles - Rebate	\$ -	\$ 4,396,761	\$ 7,587,903	\$ 9,576,797	\$ 14,965,080	\$ 2,190,266	\$ 391,597	\$ 391,597	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,500,000
Codes Chapter	\$ -	\$ 11,548	\$ 362,842	\$ 751,224	\$ 3,850,000	\$ 4,919,609	\$ 6,650,000	\$ 4,454,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,000,000
Code to Zero	\$ -	\$ 11,548	\$ 362,842	\$ 751,224	\$ 3,850,000	\$ 4,919,609	\$ 6,650,000	\$ 4,454,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,000,000
Commercial Chapter	\$ 51,945	\$ 1,675,425	\$ 4,702,578	\$ 12,548,007	\$ 15,183,801	\$ 16,682,605	\$ 29,835,374	\$ 28,318,163	\$ 32,054,261	\$ 23,912,948	\$ 17,590,767	\$ 14,950,615	\$ 13,455,580	\$ 6,484,423	\$ -	\$ 217,446,493
Energy Management Technology	\$ 23,799	\$ 754,589	\$ 2,390,654	\$ 7,373,465	\$ 8,392,841	\$ 10,481,744	\$ 21,642,564	\$ 18,723,594	\$ 21,672,284	\$ 15,115,008	\$ 9,876,945	\$ 3,950,615	\$ 2,000,000	\$ -	\$ -	\$ 122,398,101
P-12 Schools	\$ -	\$ -	\$ 154,783	\$ 743,325	\$ 1,344,727	\$ 1,525,000	\$ 2,737,914	\$ 4,604,247	\$ 6,550,000	\$ 6,000,000	\$ 6,000,000	\$ 10,000,000	\$ 11,455,580	\$ 6,484,423	\$ -	\$ 57,600,000
Real Estate Tenant	\$ 28,146	\$ 631,990	\$ 1,347,624	\$ 3,055,279	\$ 3,502,234	\$ 2,566,019	\$ 2,154,896	\$ 1,546,853	\$ 965,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,798,390
REV Campus Challenge	\$ -	\$ 288,847	\$ 809,517	\$ 1,375,938	\$ 1,943,999	\$ 2,109,842	\$ 3,300,000	\$ 3,443,470	\$ 2,866,627	\$ 2,797,940	\$ 1,713,823	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 21,650,000
Communities Chapter	\$ 12,941	\$ 353,095	\$ 2,070,763	\$ 5,195,064	\$ 6,680,270	\$ 9,389,489	\$ 11,547,591	\$ 13,952,769	\$ 13,077,820	\$ 9,647,591	\$ 7,147,113	\$ 3,794,745	\$ 1,210,531	\$ 1,000,000	\$ -	\$ 85,679,781
Clean Energy Communities	\$ 12,941	\$ 318,646	\$ 1,808,920	\$ 3,807,350	\$ 5,483,890	\$ 8,462,058	\$ 11,547,591	\$ 13,952,769	\$ 13,077,820	\$ 9,647,591	\$ 7,147,113	\$ 3,794,745	\$ 1,210,531	\$ 1,000,000	\$ -	\$ 81,271,963
Community Energy Engagement	\$ -	\$ 34,449	\$ 861,844	\$ 1,387,715	\$ 1,196,379	\$ 927,431	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,407,818
Energy Storage Chapter	\$ -	\$ 226,753	\$ 2,700,481	\$ 2,465,259	\$ 10,410,500	\$ 31,139,500	\$ 1,575,000	\$ 1,575,000	\$ 2,100,000	\$ 2,100,000	\$ 2,000,000	\$ 1,800,000	\$ 1,643,317	\$ 1,824,571	\$ 64,450,000	
Reducing Barriers to Distributed Deployment	\$ -	\$ 226,753	\$ 2,700,481	\$ 2,465,259	\$ 10,410,500	\$ 31,139,500	\$ 1,575,000	\$ 1,575,000	\$ 2,100,000	\$ 2,100,000	\$ 2,000,000	\$ 1,800,000	\$ 1,643,317	\$ 1,824,571	\$ 64,450,000	
Solar Plus Energy Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,885,500	\$ 30,114,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000,000
Industrial Chapter	\$ -	\$ 1,158,498	\$ 1,891,601	\$ 2,132,176	\$ 2,443,867	\$ 3,384,909	\$ 3,694,176	\$ 2,997,318	\$ 2,611,793	\$ 2,395,131	\$ 2,000,000	\$ 1,635,553	\$ 1,350,000	\$ 781,756	\$ 400,000	\$ 28,876,778
Energy Management Practices	\$ -	\$ 1,158,498	\$ 1,891,601	\$ 2,132,176	\$ 2,443,867	\$ 3,384,909	\$ 3,694,176	\$ 2,997,318	\$ 2,611,793	\$ 2,395,131	\$ 2,000,000	\$ 1,635,553	\$ 1,350,000	\$ 781,756	\$ 400,000	\$ 28,876,778
Large Scale Renewables Chapter	\$ 457,666	\$ 5,000,359	\$ 2,660,064	\$ 3,363,577	\$ 1,781,625	\$ 5,724,185	\$ 3,512,525	\$ 1,000,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,000,001
Offshore Wind Master Plan	\$ 450,000	\$ 786,410	\$ 3,507,474	\$ 174,531	\$ 20	\$ 81,565	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Offshore Wind Pre-Development Activities	\$ 7,666	\$ 4,213,949	\$ (847,410)	\$ 3,189,046	\$ 981,605	\$ 1,642,620	\$ 812,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
ORES Support	\$ -	\$ -	\$ -	\$ -	\$ 800,000	\$ 4,000,000	\$ 2,700,000	\$ 1,000,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,000,000
Low-to-Moderate Income Chapter	\$ 19,724,917	\$ 37,410,910	\$ 41,463,922	\$ 50,134,030	\$ 61,222,890	\$ 40,029,768	\$ 79,258,915	\$ 97,142,514	\$ 116,365,971	\$ 92,011,306	\$ 57,289,516	\$ 19,903,578	\$ 7,330,013	\$ 1,946,258	\$ 97,466	\$ 721,331,976
Healthy Homes Feasibility Study	\$ -	\$ 92,374	\$ 45,933	\$ 38,819	\$ 35,021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,147
LMI Multifamily	\$ 123,041	\$ 638,242	\$ 1,668,383	\$ 2,261,738	\$ 7,904,463	\$										

Table 3. Market Development and Innovation & Research Budgets by Chapter

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Multi-Sector Solutions Chapter	\$ -	\$ 807	\$ 395,271	\$ 5,325,169	\$ 9,962,907	\$ 17,813,234	\$ 34,906,686	\$ 51,345,982	\$ 45,109,060	\$ 44,424,353	\$ 30,933,385	\$ 19,274,937	\$ 14,035,924	\$ 4,897,438	\$ -	\$ 278,425,153
Clean Energy Siting and Soft Cost Reduction	\$ -	\$ -	\$ 114,419	\$ 268,538	\$ 351,262	\$ 1,262,507	\$ 1,974,717	\$ 2,686,927	\$ 1,424,420	\$ 712,210	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,795,000
Consumer Awareness	\$ -	\$ -	\$ -	\$ 12,733	\$ 1,195,877	\$ 1,015,000	\$ 580,001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,803,610
Information Products and Brokering	\$ -	\$ -	\$ -	\$ 332,912	\$ 340,671	\$ 375,000	\$ 1,425,000	\$ 1,425,000	\$ 1,975,000	\$ 2,100,000	\$ 526,416	\$ -	\$ -	\$ -	\$ -	\$ 8,500,000
Market Challenges	\$ -	\$ -	\$ 60,150	\$ 2,101,080	\$ 2,877,717	\$ 3,923,551	\$ 13,312,882	\$ 28,352,862	\$ 18,224,728	\$ 19,196,132	\$ 11,058,098	\$ 3,669,972	\$ 2,445,477	\$ -	\$ -	\$ 105,222,650
Pay for Performance	\$ -	\$ -	\$ 51,661	\$ 669,574	\$ 770,018	\$ 3,342,739	\$ 4,374,600	\$ 5,714,980	\$ 9,546,545	\$ 8,420,189	\$ 8,235,105	\$ 7,247,105	\$ 6,370,433	\$ 1,013,760	\$ -	\$ 55,756,709
Technical Services	\$ -	\$ 807	\$ 169,040	\$ 1,940,333	\$ 4,427,361	\$ 7,894,437	\$ 13,239,487	\$ 13,166,212	\$ 13,938,367	\$ 13,995,822	\$ 11,113,765	\$ 8,357,860	\$ 5,220,013	\$ 3,883,678	\$ -	\$ 97,347,184
New Construction Chapter	\$ -	\$ 6,060	\$ 331,016	\$ 1,055,329	\$ 2,603,022	\$ 4,784,117	\$ 9,318,075	\$ 18,759,469	\$ 22,557,912	\$ 21,532,805	\$ 19,283,305	\$ 17,231,899	\$ 8,712,965	\$ 2,588,354	\$ 2,264,865	\$ 131,029,194
New Construction - Market Rate	\$ -	\$ 6,060	\$ 331,016	\$ 1,055,329	\$ 2,603,022	\$ 4,784,117	\$ 9,318,075	\$ 18,759,469	\$ 22,557,912	\$ 21,532,805	\$ 19,283,305	\$ 17,231,899	\$ 8,712,965	\$ 2,588,354	\$ 2,264,865	\$ 131,029,194
NYS Cost Recovery Fee Market Development	\$ 732,593	\$ 1,202,947	\$ 1,582,111	\$ 1,911,061	\$ 2,213,325	\$ 2,349,828	\$ 3,343,461	\$ 3,549,323	\$ 3,384,397	\$ 2,758,136	\$ 1,738,736	\$ 913,634	\$ 550,313	\$ 259,604	\$ 100,223	\$ 26,589,691
NYS Cost Recovery Fee Market Development	\$ 732,593	\$ 1,202,947	\$ 1,582,111	\$ 1,911,061	\$ 2,213,325	\$ 2,349,828	\$ 3,343,461	\$ 3,549,323	\$ 3,384,397	\$ 2,758,136	\$ 1,738,736	\$ 913,634	\$ 550,313	\$ 259,604	\$ 100,223	\$ 26,589,691
On-Site Power Chapter	\$ -	\$ -	\$ 35,733	\$ 49,297	\$ 1,351,388	\$ 3,320,487	\$ 3,754,375	\$ 2,798,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,310,030
Fuel Cells	\$ -	\$ -	\$ 35,733	\$ 49,297	\$ 1,351,388	\$ 3,320,487	\$ 3,754,375	\$ 2,798,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,310,030
Product and Appliance Standards Chapter	\$ -	\$ -	\$ -	\$ 151,061	\$ 145,848	\$ 250,000	\$ 1,200,000	\$ 2,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 2,200,000	\$ 2,200,000	\$ 2,200,000	\$ 1,552,092	\$ 21,699,000
Product and Appliance Standards	\$ -	\$ -	\$ -	\$ 151,061	\$ 145,848	\$ 250,000	\$ 1,200,000	\$ 2,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 2,200,000	\$ 2,200,000	\$ 2,200,000	\$ 1,552,092	\$ 21,699,000
Residential Chapter	\$ -	\$ -	\$ 219,459	\$ 1,991,640	\$ 1,888,440	\$ 5,869,067	\$ 8,786,009	\$ 9,656,261	\$ 10,970,984	\$ 8,332,084	\$ 1,927,421	\$ -	\$ -	\$ -	\$ -	\$ 49,641,366
Residential	\$ -	\$ -	\$ 219,459	\$ 1,991,640	\$ 1,888,440	\$ 5,869,067	\$ 8,786,009	\$ 9,656,261	\$ 10,970,984	\$ 8,332,084	\$ 1,927,421	\$ -	\$ -	\$ -	\$ -	\$ 49,641,366
Resource Acquisition Transition Chapter	\$ 7,767,190	\$ 18,859,088	\$ 25,113,994	\$ 33,885,268	\$ 24,735,008	\$ 31,713,872	\$ 21,589,275	\$ 20,014,951	\$ 9,463,206	\$ 5,037,682	\$ 3,991,494	\$ 850,000	\$ 850,000	\$ 850,000	\$ 744,835	\$ 205,465,862
Agriculture Transition	\$ 582,121	\$ 1,530,330	\$ 1,277,431	\$ 192,950	\$ 12,755	\$ 3,235	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,598,821
Anaerobic Digesters Transition	\$ -	\$ 91,160	\$ 360,755	\$ 686,047	\$ 934,735	\$ 4,015,000	\$ 851,500	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 744,835	\$ 13,634,032
Combined Heat & Power Transition	\$ 265,275	\$ 3,157,587	\$ 5,491,461	\$ 7,952,317	\$ 7,052,140	\$ 10,427,690	\$ 10,032,111	\$ 12,000,000	\$ 3,106,961	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,485,543
Commercial New Construction Transition	\$ 104,002	\$ 963,193	\$ 1,469,257	\$ 1,577,158	\$ 1,683,586	\$ 1,622,027	\$ 2,020,339	\$ 2,149,889	\$ 2,449,960	\$ 2,981,234	\$ 3,141,494	\$ -	\$ -	\$ -	\$ -	\$ 20,162,139
Commercial Transition	\$ 202,172	\$ 1,534,562	\$ 2,174,459	\$ 2,610,692	\$ 1,446,341	\$ 1,648,369	\$ 1,479,838	\$ 1,479,838	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,576,271
Industrial Transition	\$ 919,475	\$ 3,246,770	\$ 7,476,801	\$ 13,132,793	\$ 11,351,359	\$ 11,866,755	\$ 6,342,385	\$ 2,954,137	\$ 2,820,012	\$ 1,047,996	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61,158,483
Low Rise New Construction Transition - Market Rate	\$ 346,032	\$ 886,120	\$ 845,395	\$ 834,336	\$ 469,229	\$ 505,351	\$ 387,744	\$ 264,182	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,538,388
Multifamily Market Rate Transition	\$ 46,554	\$ 78,014	\$ 31,645	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 156,214
Multifamily New Construction Transition - Market Rate	\$ 42,418	\$ 268,317	\$ 213,189	\$ 239,080	\$ 141,652	\$ 396,132	\$ 475,358	\$ 316,905	\$ 236,273	\$ 158,453	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,487,777
Single Family Market Rate Transition	\$ 4,704,744	\$ 5,853,553	\$ 5,443,145	\$ 5,816,874	\$ 1,547,192	\$ 439,709	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,805,217
Small Wind Transition	\$ 500,807	\$ 1,174,803	\$ 232,224	\$ 782,007	\$ 96,018	\$ 783,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,569,207
Solar Thermal Transition	\$ 53,589	\$ 74,678	\$ 98,232	\$ 61,013	\$ -	\$ 6,257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 293,770
REV Technical Assistance Chapter	\$ 59,155	\$ 1,217,655	\$ 942,791	\$ 615,745	\$ 451,523	\$ 2,175,000	\$ 2,288,132	\$ 2,500,000	\$ 1,000,000	\$ 1,750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,000,000
REV Connect	\$ 59,155	\$ 1,217,655	\$ 942,791	\$ 615,745	\$ 451,523	\$ 2,175,000	\$ 2,288,132	\$ 2,500,000	\$ 1,000,000	\$ 1,750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,000,000
Workforce Development and Training Chapter	\$ -	\$ 247,935	\$ 1,193,788	\$ 3,490,056	\$ 6,638,510	\$ 9,473,738	\$ 15,065,697	\$ 24,113,813	\$ 22,577,255	\$ 12,645,901	\$ 11,756,122	\$ 1,142,184	\$ -	\$ -	\$ -	\$ 108,345,000
Building Operations and Maintenance Partnerships	\$ -	\$ 247,935	\$ 1,192,699	\$ 2,074,385	\$ 1,754,840	\$ 2,867,660	\$ 4,156,410	\$ 6,326,843	\$ 5,284,152	\$ 5,544,488	\$ 2,973,542	\$ 922,044	\$ -	\$ -	\$ -	\$ 33,345,000
Talent Pipeline	\$ -	\$ -	\$ 1,089	\$ 1,415,671	\$ 4,883,670	\$ 6,606,078	\$ 10,909,287	\$ 17,786,970	\$ 17,293,103	\$ 7,101,413	\$ 8,782,580	\$ 220,140	\$ -	\$ -	\$ -	\$ 75,000,000
Grand Total	\$ 29,474,154	\$ 81,353,469	\$ 132,375,371	\$ 185,972,335	\$ 210,957,095	\$ 258,736,877	\$ 370,462,069	\$ 400,028,687	\$ 360,896,087	\$ 285,032,706	\$ 195,564,893	\$ 108,196,639	\$ 65,174,351	\$ 30,130,261	\$ 13,831,588	\$ 2,728,186,583

Tables 4 through 12 present the associated benefits of the investments outlined in Table 3. Benefits are rounded to three significant figures therefore totals may not sum. Table 4 includes estimated indirect savings from market effects expected to accrue over the longer term as a result of NYSEERDA's investment and follow on market activity. Indirect impact across NYSEERDA initiatives may not be additive due to multiple initiatives operating within market sectors, therefore, indirect savings shown in Table 4 reflect a 50% discount as a basis for conservative estimation at this time. The indirect savings will be quantified and reported based on periodic Market Evaluation studies. Customer Bill Savings are calculated as direct energy bill savings realized by customers participating in NYSEERDA's programs. For Tables 7 through 10, emissions reductions, energy metrics, and bill savings are measured on a 'lifetime' basis to account for the repeating benefits that are realized year-after-year from the implementation of clean energy activity. The carbon benefits are estimated using standard factors to convert electricity, natural gas, and petroleum savings into carbon (1,103 lbs/MWh, 117 lbs/MMBtu, 162 lbs/MMBtu respectively). Estimated bill savings are based on avoided retail rates and include electric, natural gas and petroleum bill savings. With the May 7, 2021 filing, the time horizon for all tables was expanded from 2016-2025 to 2016-2030 to properly encompass the acquired view of benefits across all CEF initiatives.

Table 4. Energy Efficiency Benefits Summary (MWh, MMBtu)

Portfolio / Metric	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total (Direct)	% of 10 yr Min. Goals (Direct)	Cumulative Annual 2030 Indirect Savings	% of 10 yr Min Goals (Direct + Indirect)
Market Development																			
MWh	16,584	112,629	212,750	341,215	372,674	514,259	654,562	614,172	693,870	609,154	375,228	285,461	82,846	46,690	23,425	4,955,519	-	6,162,003	-
MMBtu	290,902	825,813	3,566,098	3,164,797	2,184,755	2,242,169	3,924,312	3,778,534	4,156,894	4,295,001	2,726,927	2,073,493	814,168	557,781	241,318	34,842,961	-	28,587,174	-
Innovation & Research																			
MWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMBtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total MWh	16,584	112,629	212,750	341,215	372,674	514,259	654,562	614,172	693,870	609,154	375,228	285,461	82,846	46,690	23,425	4,955,519	47%	6,162,003	105%
Total MMBtu	290,902	825,813	3,566,098	3,164,797	2,184,755	2,242,169	3,924,312	3,778,534	4,156,894	4,295,001	2,726,927	2,073,493	814,168	557,781	241,318	34,842,961	260%	28,587,174	473%

Table 5a. Electricity Savings, Gross Annual (MWh)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	16,584	112,629	212,750	341,215	372,674	514,259	654,562	614,172	693,870	609,154	375,228	285,461	82,846	46,690	23,425	4,955,519
Agriculture Chapter	-	-	-	-	-	-	3,700	5,570	2,900	2,900	-	-	-	-	-	15,070
2030 GLASE	-	-	-	-	-	-	800	2,670	-	-	-	-	-	-	-	3,470
Advancing Agricultural Energy Technologies	-	-	-	-	-	-	2,900	2,900	2,900	2,900	-	-	-	-	-	11,600
Clean Heating and Cooling Chapter	-	158	1,191	1,444	568	-	-	-	-	-	-	-	-	-	-	3,361
Heat Pumps Phase 1 (2017)	-	158	1,191	1,444	568	-	-	-	-	-	-	-	-	-	-	3,361
Commercial Chapter	-	-	31,199	128,794	87,298	110,208	198,627	288,519	332,180	291,223	118,311	43,714	25,000	15,800	-	1,670,873
Energy Management Technology	-	-	31,199	79,465	76,748	99,047	170,258	243,031	281,292	225,335	94,311	27,714	-	-	-	1,328,400
P-12 Schools	-	-	-	-	-	2,151	4,564	7,800	12,000	27,000	24,000	16,000	25,000	15,800	-	134,315
Real Estate Tenant	-	-	-	-	-	-	14,796	28,388	28,388	28,388	-	-	-	-	-	99,959
REV Campus Challenge	-	-	-	49,329	10,550	9,010	-	9,300	10,500	10,500	-	-	-	-	-	108,199
Communities Chapter	8,624	81,269	52,384	49,055	5,411	21,455	32,897	32,897	22,885	18,594	7,152	4,291	2,861	-	-	339,775
Clean Energy Communities	8,624	81,269	52,384	49,055	5,411	21,455	32,897	32,897	22,885	18,594	7,152	4,291	2,861	-	-	339,775
Industrial Chapter	-	-	13,352	63,407	39,006	45,093	37,191	36,881	36,033	11,416	13,563	13,563	13,563	13,563	14,063	350,691
Energy Management Practices	-	-	13,352	63,407	39,006	45,093	37,191	36,881	36,033	11,416	13,563	13,563	13,563	13,563	14,063	350,691
Low-to-Moderate Income Chapter	3,588	5,429	6,441	8,937	7,709	23,232	29,925	52,620	69,029	77,225	43,506	31,027	10,019	5,680	3,550	377,917
LMI Multifamily	-	-	-	858	2,254	13,967	15,369	35,204	31,550	33,512	13,253	10,602	-	-	-	156,569
Low Rise New Construction Transition - LMI	4	152	1,084	2,141	1,525	1,447	1,447	362	362	-	-	-	-	-	-	8,523
Multifamily New Construction Transition - LMI	-	-	-	-	170	1,287	2,574	3,217	3,861	1,930	-	-	-	-	-	13,038
New Construction - LMI	-	-	-	59	297	1,571	4,902	8,164	27,358	35,669	28,034	19,872	10,019	5,680	3,550	145,174
NYS Healthy Homes Value Based Payment Pilot	-	-	-	-	30	240	30	-	-	-	-	-	-	-	-	300
RetrofitNY - LMI	-	-	-	-	-	131	221	416	589	704	864	553	-	-	-	3,478
Single Family - Low Income	2,613	4,186	4,534	5,305	1,997	2,691	3,521	3,150	3,050	3,111	780	-	-	-	-	34,937
Single Family - Moderate Income	972	1,091	824	575	1,436	1,898	1,861	2,108	2,259	2,298	576	-	-	-	-	15,897
Multifamily Chapter	-	-	-	-	-	-	-	0	2	3	3	3	-	-	-	10
Multifamily	-	-	-	-	-	-	-	0	2	3	3	3	-	-	-	10
Multi-Sector Solutions Chapter	-	-	988	638	45,726	35,272	94,445	97,834	149,252	87,905	100,661	114,084	22,479	8,485	2,650	760,419
Market Challenges	-	-	-	-	-	-	48,652	50,670	68,414	36,662	23,083	12,850	-	-	-	240,332
Pay for Performance	-	-	-	-	-	225	674	674	22,716	674	32,337	67,532	-	-	-	124,832
Technical Services	-	-	988	638	45,726	35,047	45,119	46,490	58,121	50,569	45,241	33,702	22,479	8,485	2,650	395,255
New Construction Chapter	-	-	-	-	440	5,763	8,805	15,377	18,637	19,888	16,037	15,497	8,925	3,162	3,162	115,695
New Construction - Market Rate	-	-	-	-	440	5,763	8,805	15,377	18,637	19,888	16,037	15,497	8,925	3,162	3,162	115,695
On-Site Power Chapter	-	-	-	-	60,925	60,925	60,925	4,370	-	-	-	-	-	-	-	187,145
Fuel Cells	-	-	-	-	60,925	60,925	60,925	4,370	-	-	-	-	-	-	-	187,145
Residential Chapter	-	-	-	10	48	910	2,075	2,635	3,211	3,084	377	-	-	-	-	12,350
Residential	-	-	-	10	48	910	2,075	2,635	3,211	3,084	377	-	-	-	-	12,350
Resource Acquisition Transition Chapter	4,372	25,772	107,194	88,516	112,171	177,972	114,459	59,664	24,587	12,540	5,305	-	-	-	-	732,553
Agriculture Transition	1,451	8,543	3,674	433	-	-	-	-	-	-	-	-	-	-	-	14,100
Combined Heat & Power Transition	-	1,490	8,180	7,659	13,432	87,498	62,387	31,193	-	-	-	-	-	-	-	211,839
Commercial New Construction Transition	-	1,290	6,617	2,899	3,079	982	1,572	2,947	3,929	4,912	5,305	-	-	-	-	33,532
Commercial Transition	-	362	6,018	19,057	3,865	4,181	3,604	3,604	-	-	-	-	-	-	-	40,691
Industrial Transition	1,189	11,156	80,884	55,818	90,989	84,055	45,470	21,285	20,300	7,390	-	-	-	-	-	418,536
Low Rise New Construction Transition - Market Rate	645	1,906	887	1,632	610	711	711	158	-	-	-	-	-	-	-	7,260
Multifamily New Construction Transition - Market Rate	-	-	-	-	-	545	715	477	358	238	-	-	-	-	-	2,333
Single Family Market Rate Transition	1,087	1,025	935	1,019	197	-	-	-	-	-	-	-	-	-	-	4,262
Workforce Development and Training Chapter	-	-	-	415	13,372	33,430	71,512	17,806	35,156	84,376	70,313	63,282	-	-	-	389,661
Building Operations and Maintenance Partnerships	-	-	-	415	13,372	33,430	71,512	17,806	35,156	84,376	70,313	63,282	-	-	-	389,661
Grand Total	16,584	112,629	212,750	341,215	372,674	514,259	654,562	614,172	693,870	609,154	375,228	285,461	82,846	46,690	23,425	4,955,519

Table 5b. Beneficial Electrification, Gross Annual (MWh)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	(10)	(16,591)	(33,934)	(53,015)	(38,464)	(5,997)	(5,254)	(3,843)	(4,121)	(5,267)	(6,362)	(2,822)	-	-	-	(175,680)
Clean Heating and Cooling Chapter	-	(5,752)	(16,879)	(33,212)	(4,956)	(1,947)	(3,115)	(3,115)	(3,115)	(3,504)	(3,893)	-	-	-	-	(79,488)
Heat Pumps Phase 1 (2017)	-	(5,752)	(16,879)	(33,212)	(4,956)	(1,947)	(3,115)	(3,115)	(3,115)	(3,504)	(3,893)	-	-	-	-	(79,488)
Clean Transportation Chapter	-	(9,776)	(16,878)	(19,738)	(31,000)	(4,000)	-	-	-	-	-	-	-	-	-	(81,392)
Electric Vehicles - Rebate	-	(9,776)	(16,878)	(19,738)	(31,000)	(4,000)	-	-	-	-	-	-	-	-	-	(81,392)
Communities Chapter	(10)	(1,062)	(177)	(66)	(9)	(50)	(275)	(325)	(200)	(150)	(50)	-	-	-	-	(2,374)
Clean Energy Communities	(10)	(1,062)	(177)	(66)	(9)	(50)	(275)	(325)	(200)	(150)	(50)	-	-	-	-	(2,374)
Multifamily Chapter	-	-	-	-	-	-	-	(403)	(806)	(1,613)	(2,419)	(2,822)	-	-	-	(8,063)
Multifamily	-	-	-	-	-	-	-	(403)	(806)	(1,613)	(2,419)	(2,822)	-	-	-	(8,063)
Multi-Sector Solutions Chapter	-	-	-	-	(1,874)	-	(1,864)	-	-	-	-	-	-	-	-	(3,738)
Market Challenges	-	-	-	-	-	-	(1,864)	-	-	-	-	-	-	-	-	(1,864)
Technical Services	-	-	-	-	(1,874)	-	-	-	-	-	-	-	-	-	-	(1,874)
Resource Acquisition Transition Chapter	-	-	-	-	(625)	-	-	-	-	-	-	-	-	-	-	(625)
Commercial New Construction Transition	-	-	-	-	(625)	-	-	-	-	-	-	-	-	-	-	(625)
Grand Total	(10)	(16,591)	(33,934)	(53,015)	(38,464)	(5,997)	(5,254)	(3,843)	(4,121)	(5,267)	(6,362)	(2,822)	-	-	-	(175,680)

Table 6a. Fuel Savings, Gross Annual (MMBtu)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	290,902	825,813	3,566,098	3,164,797	2,184,755	2,242,169	3,924,312	3,778,534	4,156,894	4,295,001	2,726,927	2,073,493	814,168	557,781	241,318	34,842,961
Agriculture Chapter	-	-	-	-	-	-	45	45	45	45	-	-	-	-	-	180
Advancing Agricultural Energy Technologies	-	-	-	-	-	-	45	45	45	45	-	-	-	-	-	180
Clean Heating and Cooling Chapter	-	90,643	272,372	528,524	94,910	56,945	81,635	75,417	75,417	84,844	94,270	-	-	-	-	1,454,978
Heat Pumps Phase 1 (2017)	-	86,806	258,353	508,127	79,269	47,135	75,417	75,417	75,417	84,844	94,270	-	-	-	-	1,385,056
Renewable Heat NY - Clean and Efficient Biomass Heating	-	3,836	14,019	20,397	15,641	9,810	6,218	-	-	-	-	-	-	-	-	69,922
Clean Transportation Chapter	-	189,782	316,456	353,363	540,000	72,000	-	-	-	-	-	-	-	-	-	1,471,601
Electric Vehicles - Rebate	-	189,782	316,456	353,363	540,000	72,000	-	-	-	-	-	-	-	-	-	1,471,601
Commercial Chapter	-	-	8,372	668,573	108,125	128,570	293,393	548,203	489,124	642,492	341,807	340,684	300,000	178,080	-	4,047,423
Energy Management Technology	-	-	8,372	351,255	70,458	75,669	195,702	405,719	310,123	360,007	196,807	140,684	-	-	-	2,114,796
P-12 Schools	-	-	-	-	-	11,886	25,206	45,000	80,000	165,000	145,000	200,000	300,000	178,080	-	1,150,172
Real Estate Tenant	-	-	-	-	-	-	7,485	27,485	29,001	47,485	-	-	-	-	-	111,456
REV Campus Challenge	-	-	-	317,318	37,667	41,015	65,000	70,000	70,000	70,000	-	-	-	-	-	671,000
Communities Chapter	96,790	219,947	127,756	504,153	24,607	60,395	92,605	92,605	64,421	52,342	20,132	12,079	8,053	-	-	1,375,885
Clean Energy Communities	96,790	219,947	127,756	504,153	24,607	60,395	92,605	92,605	64,421	52,342	20,132	12,079	8,053	-	-	1,375,885
Industrial Chapter	-	-	43,440	510,059	255,565	174,649	149,390	155,390	163,140	104,750	125,000	125,000	125,000	125,000	125,000	2,181,384
Energy Management Practices	-	-	43,440	510,059	255,565	174,649	149,390	155,390	163,140	104,750	125,000	125,000	125,000	125,000	125,000	2,181,384
Low-to-Moderate Income Chapter	114,848	160,395	198,080	246,977	152,352	659,317	727,657	1,278,835	1,157,855	1,177,302	449,783	293,255	54,349	34,467	21,542	6,727,015
LMI Multifamily	-	-	-	18,358	24,721	483,864	485,660	835,213	693,216	708,254	180,730	144,584	-	-	-	3,574,602
Low Rise New Construction Transition - LMI	102	2,149	13,620	21,378	11,450	10,943	10,943	2,736	2,736	-	-	-	-	-	-	76,057
Multifamily New Construction Transition - LMI	-	-	-	-	7,364	7,917	15,834	19,792	23,751	11,875	-	-	-	-	-	86,533
New Construction - LMI	-	-	-	638	2,973	9,675	44,770	256,204	270,514	284,451	213,454	138,751	54,349	34,467	21,542	1,331,787
NYS Healthy Homes Value Based Payment Pilot	-	-	-	-	1,000	8,000	1,000	-	-	-	-	-	-	-	-	10,000
RetrofitNY - LMI	-	-	-	-	2,910	2,346	3,967	7,457	10,551	12,623	15,477	9,920	-	-	-	65,250
REVitalize	-	-	-	9,000	-	-	-	-	-	-	-	-	-	-	-	9,000
Single Family - Low Income	67,344	106,843	144,932	152,652	71,448	96,263	125,959	112,675	109,112	111,300	27,893	-	-	-	-	1,126,421
Single Family - Moderate Income	47,402	51,403	39,528	44,951	30,485	40,309	39,524	44,758	47,976	48,798	12,229	-	-	-	-	447,364
Multifamily Chapter	-	-	-	-	-	-	-	21,980	109,479	121,190	46,462	53,819	-	-	-	352,930
Multifamily	-	-	-	-	-	-	-	21,980	109,479	121,190	46,462	53,819	-	-	-	352,930
Multi-Sector Solutions Chapter	-	-	300	7,036	313,865	274,893	1,343,494	1,035,323	1,442,084	1,090,271	928,427	630,328	292,917	206,862	81,405	7,647,205
Market Challenges	-	-	-	-	-	-	920,601	554,974	799,476	514,939	324,213	180,490	-	-	-	3,294,693
Pay for Performance	-	-	-	-	-	10,071	30,214	30,214	69,621	30,214	20,527	11,650	-	-	-	202,512
Technical Services	-	-	300	7,036	313,865	264,822	392,679	450,134	572,987	545,118	583,687	438,189	292,917	206,862	81,405	4,150,000
New Construction Chapter	-	-	-	-	12,021	20,478	34,523	55,063	61,537	68,539	54,431	54,389	33,849	13,372	13,372	421,573
New Construction - Market Rate	-	-	-	-	12,021	20,478	34,523	55,063	61,537	68,539	54,431	54,389	33,849	13,372	13,372	421,573
Residential Chapter	-	-	-	489	4,035	52,301	120,418	154,399	193,702	177,874	19,233	-	-	-	-	722,451
Residential	-	-	-	489	4,035	52,301	120,418	154,399	193,702	177,874	19,233	-	-	-	-	722,451
Resource Acquisition Transition Chapter	79,264	165,045	2,599,322	341,929	514,980	352,224	224,543	149,702	86,791	23,435	20,785	-	-	-	-	4,558,019
Agriculture Transition	737	23,921	5,511	671	-	-	-	-	-	-	-	-	-	-	-	30,840
Commercial New Construction Transition	-	595	(4,964)	(3,445)	16,392	3,849	6,158	11,547	15,396	19,245	20,785	-	-	-	-	85,557
Commercial Transition	-	-	13,905	87,724	60,844	60,844	60,844	60,844	-	-	-	-	-	-	-	345,005
Industrial Transition	1,265	50,609	2,522,739	161,125	418,014	282,510	150,500	70,450	67,205	-	-	-	-	-	-	3,724,416
Low Rise New Construction Transition - Market Rate	20,407	36,978	20,300	46,529	9,874	3,021	3,021	671	-	-	-	-	-	-	-	140,800
Multifamily Market Rate Transition	-	36	793	-	-	-	-	-	-	-	-	-	-	-	-	829
Multifamily New Construction Transition - Market Rate	-	-	-	-	-	2,000	4,020	6,190	4,190	4,190	-	-	-	-	-	20,590
Single Family Market Rate Transition	56,856	52,907	41,037	49,325	9,857	-	-	-	-	-	-	-	-	-	-	209,982
Workforce Development and Training Chapter	-	-	-	3,695	164,294	390,397	856,608	211,571	313,299	751,917	626,598	563,938	-	-	-	3,882,317
Building Operations and Maintenance Partnerships	-	-	-	3,695	164,294	390,397	856,608	211,571	313,299	751,917	626,598	563,938	-	-	-	3,882,317
Grand Total	290,902	825,813	3,566,098	3,164,797	2,184,755	2,242,169	3,924,312	3,778,534	4,156,894	4,295,001	2,726,927	2,073,493	814,168	557,781	241,318	34,842,961

Table 6b. Fuel Switching, Gross Annual (MMBtu)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	-	(9,023)	(49,534)	(46,379)	(566,421)	(962,148)	(870,645)	(251,814)	-	-	-	-	-	-	-	(2,755,965)
On-Site Power Chapter	-	-	-	-	(485,085)	(485,085)	(485,085)	(34,034)	-	-	-	-	-	-	-	(1,489,289)
Fuel Cells	-	-	-	-	(485,085)	(485,085)	(485,085)	(34,034)	-	-	-	-	-	-	-	(1,489,289)
Resource Acquisition Transition Chapter	-	(9,023)	(49,534)	(46,379)	(81,336)	(477,063)	(385,560)	(217,780)	-	-	-	-	-	-	-	(1,266,676)
Combined Heat & Power Transition	-	(9,023)	(49,534)	(46,379)	(81,336)	(477,063)	(385,560)	(217,780)	-	-	-	-	-	-	-	(1,266,676)
Grand Total	-	(9,023)	(49,534)	(46,379)	(566,421)	(962,148)	(870,645)	(251,814)	-	-	-	-	-	-	-	(2,755,965)

Table 7. Market Development and Innovation & Research Lifetime Benefits Summary

Portfolio / Metric	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	% of 10 yr Min. Goals
Market Development																	
Renewable Energy (MWh)	99,683	226,448	310,484	1,001,753	36,561	1,053,342	1,561,841	1,536,384	1,003,044	833,691	301,217	173,354	115,570	-	-	8,253,372	-
CO2e Reductions (metric tons)	489,505	1,610,589	9,659,441	4,839,386	3,775,517	5,087,368	7,345,270	7,821,072	8,676,744	7,916,080	4,890,532	3,571,687	1,466,491	847,239	367,553	68,364,475	-
Participant Bill Savings (\$ million)	\$ 112	\$ 455	\$ 736	\$ 1,128	\$ 919	\$ 1,240	\$ 1,658	\$ 1,695	\$ 1,850	\$ 1,701	\$ 1,040	\$ 755	\$ 309	\$ 167	\$ 72	\$ 13,838	-
Leveraged Funds (\$ million)	\$ 28	\$ 227	\$ 435	\$ 529	\$ 683	\$ 537	\$ 633	\$ 760	\$ 843	\$ 661	\$ 390	\$ 231	\$ 101	\$ 40	\$ 20	\$ 6,118	-
Innovation and Research																	
Renewable Energy (MWh)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2e Reductions (metric tons)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Participant Bill Savings (\$ million)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Leveraged Funds (\$ million)	\$ -	\$ 26.0	\$ 193.5	\$ 168.5	\$ 109.4	\$ 437.3	\$ 584.4	\$ 740.7	\$ 281.2	\$ 260.2	\$ 173.1	\$ 154.4	\$ 99.8	\$ 99.0	\$ 147.9	\$ 3,475	-
Total Renewable Energy (MWh)	99,683	226,448	310,484	1,001,753	36,561	1,053,342	1,561,841	1,536,384	1,003,044	833,691	301,217	173,354	115,570	-	-	8,253,372	9%
Total CO2e Reductions (metric tons)	489,505	1,610,589	9,659,441	4,839,386	3,775,517	5,087,368	7,345,270	7,821,072	8,676,744	7,916,080	4,890,532	3,571,687	1,466,491	847,239	367,553	68,364,475	51%
Total Participant Bill Savings (\$ million)	\$ 112	\$ 455	\$ 736	\$ 1,128	\$ 919	\$ 1,240	\$ 1,658	\$ 1,695	\$ 1,850	\$ 1,701	\$ 1,040	\$ 755	\$ 309	\$ 167	\$ 72	\$ 13,838	35%
Total Leveraged Funds (\$ million)	\$ 28	\$ 253	\$ 629	\$ 698	\$ 793	\$ 974	\$ 1,218	\$ 1,501	\$ 1,124	\$ 921	\$ 563	\$ 385	\$ 201	\$ 139	\$ 168	\$ 9,593	33%

Table 8. Renewable Energy Generation, Lifetime (MWh)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	99,683	226,448	310,484	1,001,753	36,561	1,053,342	1,561,841	1,536,384	1,003,044	833,691	301,217	173,354	115,570	-	-	8,253,372
Commercial Chapter	-	-	-	5,190	-	-	-	-	63,480	63,480	-	-	-	-	-	132,150
REV Campus Challenge	-	-	-	5,190	-	-	-	-	63,480	63,480	-	-	-	-	-	132,150
Communities Chapter	87,104	206,335	303,982	973,279	10,316	866,772	1,329,051	1,329,051	924,557	751,203	288,924	173,354	115,570	-	-	7,359,498
Clean Energy Communities	87,104	206,335	303,982	973,279	10,316	866,772	1,329,051	1,329,051	924,557	751,203	288,924	173,354	115,570	-	-	7,359,498
Low-to-Moderate Income Chapter	-	-	-	-	3,520	-	-	-	-	-	-	-	-	-	-	3,520
REVitalize	-	-	-	-	3,520	-	-	-	-	-	-	-	-	-	-	3,520
Multi-Sector Solutions Chapter	-	-	218	9,450	21,124	-	47,820	22,363	15,007	19,009	12,293	-	-	-	-	147,284
Market Challenges	-	-	-	-	-	-	47,820	22,363	15,007	19,009	12,293	-	-	-	-	116,491
Technical Services	-	-	218	9,450	21,124	-	-	-	-	-	-	-	-	-	-	30,792
Resource Acquisition Transition Chapter	12,579	20,113	6,284	13,834	1,600	186,570	184,970	184,970	-	-	-	-	-	-	-	610,920
Agriculture Transition	1,269	11,655	2,244	1,892	-	-	-	-	-	-	-	-	-	-	-	17,060
Anaerobic Digesters Transition	-	-	-	-	-	184,970	184,970	184,970	-	-	-	-	-	-	-	554,910
Small Wind Transition	9,744	8,175	4,040	11,943	1,600	1,600	-	-	-	-	-	-	-	-	-	37,102
Solar Thermal Transition	1,566	283	-	-	-	-	-	-	-	-	-	-	-	-	-	1,849
Grand Total	99,683	226,448	310,484	1,001,753	36,561	1,053,342	1,561,841	1,536,384	1,003,044	833,691	301,217	173,354	115,570	-	-	8,253,372

Table 9. CO₂e Emission Reductions, Lifetime (Metric Tons)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	489,505	1,610,589	9,659,441	4,839,386	3,775,517	5,087,368	7,345,270	7,821,072	8,676,744	7,916,080	4,890,532	3,571,687	1,466,491	847,239	367,553	68,364,475
Agriculture Chapter	-	-	-	-	-	-	25,803	35,159	21,800	21,800	-	-	-	-	-	104,562
2030 GLASE	-	-	-	-	-	-	4,003	13,358	-	-	-	-	-	-	-	17,361
Advancing Agricultural Energy Technologies	-	-	-	-	-	-	21,800	21,800	21,800	21,800	-	-	-	-	-	87,201
Clean Heating and Cooling Chapter	-	60,504	199,609	366,486	85,650	60,116	82,183	72,994	72,994	82,123	91,250	-	-	-	-	1,173,910
Heat Pumps Phase 1 (2017)	-	55,704	187,175	354,125	62,535	45,619	72,994	72,994	72,994	82,123	91,250	-	-	-	-	1,097,515
Heat Pumps Phase 2 (2020)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Renewable Heat NY - Clean and Efficient Biomass Heating	-	4,800	12,434	12,361	23,114	14,497	9,189	-	-	-	-	-	-	-	-	76,396
Clean Transportation Chapter	-	87,101	142,352	154,496	231,908	31,588	-	-	-	-	-	-	-	-	-	647,446
Electric Vehicles - Rebate	-	87,101	142,352	154,496	231,908	31,588	-	-	-	-	-	-	-	-	-	647,446
Codes Chapter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Code to Zero	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial Chapter	-	-	160,545	1,212,548	533,636	664,741	1,183,893	1,819,022	2,117,545	2,060,979	952,974	514,191	445,499	271,652	-	11,937,225
Energy Management Technology	-	-	160,545	586,078	424,425	664,741	1,183,893	1,819,022	2,117,545	2,060,979	952,974	514,191	445,499	271,652	-	11,937,225
P-12 Schools	-	-	-	-	-	26,360	55,919	97,219	158,825	344,461	304,755	291,996	445,499	271,652	-	1,996,685
Real Estate Tenant	-	-	-	-	-	62,403	125,311	125,956	133,817	-	-	-	-	-	-	447,486
REV Campus Challenge	-	-	-	626,470	109,211	100,323	119,449	125,613	166,378	166,378	-	-	-	-	-	1,413,823
Communities Chapter	150,495	814,080	654,102	1,062,031	37,442	537,747	823,939	823,787	573,149	465,721	179,147	107,580	71,720	-	-	6,300,940
Clean Energy Communities	150,495	814,080	654,102	1,062,031	37,442	537,747	823,939	823,787	573,149	465,721	179,147	107,580	71,720	-	-	6,300,940
Industrial Chapter	-	-	134,842	686,825	480,141	396,415	307,325	293,867	279,975	119,506	138,711	138,711	138,711	138,711	141,213	3,394,955
Energy Management Practices	-	-	134,842	686,825	480,141	396,415	307,325	293,867	279,975	119,506	138,711	138,711	138,711	138,711	141,213	3,394,955
Low-to-Moderate Income Chapter	187,394	262,814	319,121	390,182	260,354	830,822	993,980	1,688,738	1,873,128	1,993,268	983,096	652,810	198,955	117,745	73,591	10,826,000
LMI Multifamily	-	-	-	21,079	37,399	505,703	517,715	902,007	811,113	838,291	249,197	199,357	-	-	-	4,081,860
Low Rise New Construction Transition - LMI	150	3,803	25,326	44,347	27,434	26,114	26,114	6,529	6,529	-	-	-	-	-	-	166,346
Multifamily New Construction Transition - LMI	-	-	-	-	9,526	21,294	42,588	53,235	63,882	31,941	-	-	-	-	-	222,467
New Construction - LMI	-	-	-	1,581	7,743	32,759	121,975	449,254	708,719	831,558	639,860	436,550	198,955	117,745	73,591	3,620,290
NYS Healthy Homes Value Based Payment Pilot	-	-	-	-	1,356	10,850	1,356	-	-	-	-	-	-	-	-	13,563
RetrofitNY - LMI	-	-	-	-	3,335	4,000	6,758	12,709	17,987	21,514	26,384	16,903	-	-	-	109,590
REVitalize	-	-	-	9,569	1,761	-	-	-	-	-	-	-	-	-	-	11,330
Single Family - Low Income	110,310	176,762	231,848	245,194	117,351	158,107	206,881	185,063	179,211	182,805	45,813	-	-	-	-	1,839,346
Single Family - Moderate Income	76,935	82,249	61,947	68,411	54,450	71,995	70,592	79,941	85,689	79,941	21,842	-	-	-	-	761,209
Multifamily Chapter	-	-	-	-	-	-	-	12,800	69,136	73,420	20,363	23,431	-	-	-	199,150
Multifamily	-	-	-	-	-	-	-	12,800	69,136	73,420	20,363	23,431	-	-	-	199,150
Multi-Sector Solutions Chapter	-	-	8,874	16,636	677,548	555,686	1,941,731	1,872,610	2,511,536	1,697,066	1,614,022	1,391,337	463,958	265,361	98,979	13,115,342
Information Products and Brokering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Challenges	-	-	-	-	-	-	1,154,961	1,020,103	1,277,804	720,886	454,043	249,342	-	-	-	4,877,138
Pay for Performance	-	-	-	-	-	13,164	39,492	39,492	207,715	39,492	231,622	447,284	-	-	-	1,018,261
Technical Services	-	-	8,874	16,636	677,548	542,522	747,278	813,015	1,026,017	936,688	928,357	694,711	463,958	265,361	98,979	7,219,943
New Construction Chapter	-	-	-	-	21,636	93,878	150,149	253,007	296,600	321,743	256,492	250,505	147,648	53,770	53,770	1,899,198
New Construction - Market Rate	-	-	-	-	21,636	93,878	150,149	253,007	296,600	321,743	256,492	250,505	147,648	53,770	53,770	1,899,198
On-Site Power Chapter	-	-	-	-	93,878	93,878	93,878	93,878	7,542	-	-	-	-	-	-	289,177
Fuel Cells	-	-	-	-	93,878	93,878	93,878	93,878	7,542	-	-	-	-	-	-	289,177
Product and Appliance Standards Chapter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Product and Appliance Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Chapter	-	-	-	777	6,588	85,222	196,585	252,729	317,272	291,046	31,381	-	-	-	-	1,181,601
Residential	-	-	-	777	6,588	85,222	196,585	252,729	317,272	291,046	31,381	-	-	-	-	1,181,601
Resource Acquisition Transition Chapter	151,615	386,091	8,039,995	946,172	1,223,339	1,437,442	895,271	527,571	269,652	131,912	75,182	-	-	-	-	14,084,241
Agriculture Transition	12,152	88,462	34,467	4,852	-	-	-	-	-	-	-	-	-	-	-	139,933
Anaerobic Digesters Transition	-	-	-	-	-	92,543	92,543	92,543	-	-	-	-	-	-	-	277,629
Combined Heat & Power Transition	-	5,316	29,185	27,326	47,926	368,301	214,321	80,580	-	-	-	-	-	-	-	772,956
Commercial New Construction Transition	-	13,537	60,937	25,346	41,988	13,919	22,277	41,765	55,684	69,612	75,182	-	-	-	-	420,247
Commercial Transition	-	2,989	60,663	225,243	85,274	87,883	83,120	83,120	-	-	-	-	-	-	-	628,294
Industrial Transition	9,932	124,082	7,753,288	500,297	1,016,173	856,085	461,250	215,915	205,936	55,460	-	-	-	-	-	11,198,417
Low Rise New Construction Transition - Market Rate	28,326	58,484	30,483	75,067	16,602	10,331	10,331	2,296	-	-	-	-	-	-	-	231,919
Multifamily Market Rate Transition	-	29	632	-	-	-	-	-	-	-	-	-	-	-	-	661
Multifamily New Construction Transition - Market Rate	-	-	-	-	-	7,580	11,429	11,351	8,032	6,840	-	-	-	-	-	45,232
Single Family Market Rate Transition	95,547	88,959	68,318	82,066	14,576	-	-	-	-	-	-	-	-	-	-	349,465
Small Wind Transition	4,875	4,090	2,021	5,975	801	801	-	-	-	-	-	-	-	-	-	18,563
Solar Thermal Transition	783	142	-	-	-	-	-	-	-	-	-	-	-	-	-	925
Workforce Development and Training Chapter	-	-	-	3,231	123,396	299,833	650,533	161,247	273,956	657,495	547,913	493,121	-	-	-	3,210,727
Building Operations and Maintenance Partnerships	-	-	-	3,231	123,396	299,833	650,533	161,247	273,956	657,495	547,913	493,121	-	-	-	3,210,727
Grand Total	489,505	1,610,589	9,659,441	4,839,386	3,775,517	5,087,368	7,345,270	7,821,072	8,676,744	7,916,080	4,890,532	3,571,687	1,466,491	847,239	367,553	68,364,475

Table 10. Participant Bill Savings, Lifetime (\$ Million)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development	\$ 112.41	\$ 455.17	\$ 736.16	\$ 1,128.44	\$ 918.54	\$ 1,239.64	\$ 1,657.73	\$ 1,695.42	\$ 1,850.46	\$ 1,701.44	\$ 1,039.83	\$ 755.41	\$ 308.52	\$ 167.42	\$ 71.61	\$ 13,838.19
Agriculture Chapter	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6.46	\$ 8.03	\$ 5.79	\$ 5.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26.07
2030 GLASE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.67	\$ 2.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.91
Advancing Agricultural Energy Technologies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.79	\$ 5.79	\$ 5.79	\$ 5.79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23.16
Clean Heating and Cooling Chapter	\$ -	\$ 19.08	\$ 67.90	\$ 121.67	\$ 16.60	\$ 11.76	\$ 13.97	\$ 10.79	\$ 10.79	\$ 12.14	\$ 13.49	\$ -	\$ -	\$ -	\$ -	\$ 298.20
Heat Pumps Phase 1 (2017)	\$ -	\$ 17.35	\$ 62.97	\$ 116.02	\$ 8.60	\$ 6.74	\$ 10.79	\$ 10.79	\$ 10.79	\$ 12.14	\$ 13.49	\$ -	\$ -	\$ -	\$ -	\$ 269.69
Renewable Heat NY - Clean and Efficient Biomass Heating	\$ -	\$ 1.73	\$ 4.93	\$ 5.65	\$ 8.01	\$ 5.02	\$ 3.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28.52
Clean Transportation Chapter	\$ -	\$ 48.67	\$ 80.86	\$ 89.85	\$ 136.89	\$ 18.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 374.59
Electric Vehicles - Rebate	\$ -	\$ 48.67	\$ 80.86	\$ 89.85	\$ 136.89	\$ 18.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 374.59
Commercial Chapter	\$ -	\$ -	\$ 52.38	\$ 274.60	\$ 132.87	\$ 165.33	\$ 275.49	\$ 395.67	\$ 503.05	\$ 495.35	\$ 228.34	\$ 112.51	\$ 91.81	\$ 56.41	\$ -	\$ 2,783.80
Energy Management Technology	\$ -	\$ -	\$ 52.38	\$ 148.64	\$ 108.70	\$ 138.00	\$ 223.43	\$ 318.05	\$ 401.26	\$ 350.93	\$ 160.19	\$ 52.64	\$ -	\$ -	\$ -	\$ 1,954.23
P-12 Schools	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.95	\$ 12.63	\$ 21.85	\$ 35.12	\$ 76.93	\$ 68.15	\$ 59.87	\$ 91.81	\$ 56.41	\$ -	\$ 428.72
Real Estate Tenant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16.07	\$ 31.42	\$ 31.49	\$ 32.30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 111.28
REV Campus Challenge	\$ -	\$ -	\$ -	\$ 125.96	\$ 24.17	\$ 21.37	\$ 23.36	\$ 24.35	\$ 35.19	\$ 35.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 289.58
Communities Chapter	\$ 34.90	\$ 235.49	\$ 187.67	\$ 244.64	\$ 8.32	\$ 138.95	\$ 212.89	\$ 212.85	\$ 148.09	\$ 120.34	\$ 46.29	\$ 27.80	\$ 18.53	\$ -	\$ -	\$ 1,636.78
Clean Energy Communities	\$ 34.90	\$ 235.49	\$ 187.67	\$ 244.64	\$ 8.32	\$ 138.95	\$ 212.89	\$ 212.85	\$ 148.09	\$ 120.34	\$ 46.29	\$ 27.80	\$ 18.53	\$ -	\$ -	\$ 1,636.78
Industrial Chapter	\$ -	\$ -	\$ 19.28	\$ 91.01	\$ 77.09	\$ 75.07	\$ 60.56	\$ 58.36	\$ 56.04	\$ 19.03	\$ 22.08	\$ 22.08	\$ 22.08	\$ 22.08	\$ 22.50	\$ 567.26
Energy Management Practices	\$ -	\$ -	\$ 19.28	\$ 91.01	\$ 77.09	\$ 75.07	\$ 60.56	\$ 58.36	\$ 56.04	\$ 19.03	\$ 22.08	\$ 22.08	\$ 22.08	\$ 22.08	\$ 22.50	\$ 567.26
Low-to-Moderate Income Chapter	\$ 41.22	\$ 59.21	\$ 68.13	\$ 83.47	\$ 59.44	\$ 159.17	\$ 198.10	\$ 334.91	\$ 398.49	\$ 434.29	\$ 233.27	\$ 154.51	\$ 53.19	\$ 31.36	\$ 19.60	\$ 2,328.35
LMI Multifamily	\$ -	\$ -	\$ -	\$ 2.90	\$ 7.25	\$ 81.71	\$ 84.71	\$ 158.78	\$ 140.09	\$ 145.67	\$ 46.55	\$ 37.24	\$ -	\$ -	\$ -	\$ 704.90
Low Rise New Construction Transition - LMI	\$ 0.02	\$ 0.65	\$ 4.91	\$ 8.86	\$ 7.01	\$ 6.66	\$ 6.66	\$ 1.67	\$ 1.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38.11
Multifamily New Construction Transition - LMI	\$ -	\$ -	\$ -	\$ -	\$ 1.26	\$ 4.30	\$ 8.59	\$ 10.74	\$ 12.89	\$ 6.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44.23
New Construction - LMI	\$ -	\$ -	\$ -	\$ 0.27	\$ 1.94	\$ 8.71	\$ 30.95	\$ 98.55	\$ 177.62	\$ 214.06	\$ 165.52	\$ 113.95	\$ 53.19	\$ 31.36	\$ 19.60	\$ 915.72
NYS Healthy Homes Value Based Payment Pilot	\$ -	\$ -	\$ -	\$ -	\$ 0.32	\$ 2.57	\$ 0.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.22
RetrofitNY - LMI	\$ -	\$ -	\$ -	\$ -	\$ 0.54	\$ 0.79	\$ 1.33	\$ 2.50	\$ 3.53	\$ 4.23	\$ 5.18	\$ 3.32	\$ -	\$ -	\$ -	\$ 21.41
REVitalize	\$ -	\$ -	\$ -	\$ 1.26	\$ 0.47	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.73
Single Family - Low Income	\$ 25.35	\$ 42.22	\$ 50.84	\$ 56.54	\$ 27.52	\$ 37.08	\$ 48.52	\$ 43.40	\$ 42.03	\$ 42.87	\$ 10.74	\$ -	\$ -	\$ -	\$ -	\$ 427.12
Single Family - Moderate Income	\$ 15.85	\$ 16.34	\$ 12.38	\$ 13.64	\$ 13.13	\$ 17.36	\$ 17.02	\$ 19.27	\$ 20.66	\$ 21.01	\$ 5.27	\$ -	\$ -	\$ -	\$ -	\$ 171.91
Multifamily Chapter	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.32	\$ 8.49	\$ 8.27	\$ 0.35	\$ 0.36	\$ -	\$ -	\$ -	\$ 18.80
Multifamily	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.32	\$ 8.49	\$ 8.27	\$ 0.35	\$ 0.36	\$ -	\$ -	\$ -	\$ 18.80
Multi-Sector Solutions Chapter	\$ -	\$ -	\$ 2.64	\$ 4.46	\$ 145.65	\$ 107.79	\$ 337.67	\$ 366.02	\$ 466.41	\$ 300.89	\$ 304.18	\$ 282.34	\$ 85.69	\$ 44.32	\$ 16.26	\$ 2,464.30
Market Challenges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 185.21	\$ 203.10	\$ 223.15	\$ 116.67	\$ 73.56	\$ 38.85	\$ -	\$ -	\$ -	\$ 840.53
Pay for Performance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.53	\$ 10.60	\$ 10.60	\$ 50.33	\$ 10.60	\$ 61.02	\$ 117.60	\$ -	\$ -	\$ -	\$ 264.28
Technical Services	\$ -	\$ -	\$ 2.64	\$ 4.46	\$ 145.65	\$ 104.26	\$ 141.85	\$ 152.32	\$ 192.94	\$ 173.62	\$ 169.61	\$ 125.89	\$ 85.69	\$ 44.32	\$ 16.26	\$ 1,359.49
New Construction Chapter	\$ -	\$ -	\$ -	\$ -	\$ 4.74	\$ 23.97	\$ 39.06	\$ 65.41	\$ 75.86	\$ 82.62	\$ 65.15	\$ 63.57	\$ 37.22	\$ 13.25	\$ 13.25	\$ 484.12
New Construction - Market Rate	\$ -	\$ -	\$ -	\$ -	\$ 4.74	\$ 23.97	\$ 39.06	\$ 65.41	\$ 75.86	\$ 82.62	\$ 65.15	\$ 63.57	\$ 37.22	\$ 13.25	\$ 13.25	\$ 484.12
On-Site Power Chapter	\$ -	\$ -	\$ -	\$ -	\$ 108.51	\$ 108.51	\$ 108.51	\$ 7.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 333.39
Fuel Cells	\$ -	\$ -	\$ -	\$ -	\$ 108.51	\$ 108.51	\$ 108.51	\$ 7.87	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 333.39
Residential Chapter	\$ -	\$ -	\$ -	\$ 0.18	\$ 1.74	\$ 21.52	\$ 49.90	\$ 64.58	\$ 81.51	\$ 74.15	\$ 7.80	\$ -	\$ -	\$ -	\$ -	\$ 301.39
Residential	\$ -	\$ -	\$ -	\$ 0.18	\$ 1.74	\$ 21.52	\$ 49.90	\$ 64.58	\$ 81.51	\$ 74.15	\$ 7.80	\$ -	\$ -	\$ -	\$ -	\$ 301.39
Resource Acquisition Transition Chapter	\$ 36.29	\$ 92.72	\$ 257.30	\$ 217.96	\$ 205.19	\$ 356.44	\$ 241.20	\$ 141.32	\$ 44.70	\$ 25.60	\$ 16.41	\$ -	\$ -	\$ -	\$ -	\$ 1,635.11
Agriculture Transition	\$ 3.98	\$ 24.19	\$ 9.92	\$ 1.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39.54
Anaerobic Digesters Transition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.60	\$ 24.60	\$ 24.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 73.80
Combined Heat & Power Transition	\$ -	\$ 4.08	\$ 14.13	\$ 20.06	\$ 26.75	\$ 180.08	\$ 123.38	\$ 58.93	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 427.42
Commercial New Construction Transition	\$ -	\$ 3.69	\$ 18.23	\$ 8.65	\$ 8.34	\$ 3.04	\$ 4.86	\$ 9.11	\$ 12.15	\$ 15.19	\$ 16.41	\$ -	\$ -	\$ -	\$ -	\$ 99.67
Commercial Transition	\$ -	\$ 0.96	\$ 15.34	\$ 51.67	\$ 14.02	\$ 14.72	\$ 13.45	\$ 13.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 123.62
Industrial Transition	\$ 1.49	\$ 25.38	\$ 177.49	\$ 101.75	\$ 149.19	\$ 129.26	\$ 69.73	\$ 32.64	\$ 31.13	\$ 9.31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 727.38
Low Rise New Construction Transition - Market Rate	\$ 5.08	\$ 10.22	\$ 5.22	\$ 12.34	\$ 3.81	\$ 2.83	\$ 2.83	\$ 0.63	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42.95
Multifamily Market Rate Transition	\$ -	\$ 0.00	\$ 0.06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.06
Multifamily New Construction Transition - Market Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.67	\$ 2.35	\$ 1.95	\$ 1.41	\$ 1.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8.48
Single Family Market Rate Transition	\$ 24.18	\$ 23.10	\$ 16.42	\$ 20.45	\$ 2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86.96
Small Wind Transition	\$ 1.37	\$ 1.05	\$ 0.49	\$ 1.59	\$ 0.25	\$ 0.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.00
Solar Thermal Transition	\$ 0.19	\$ 0.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.24
Workforce Development and Training Chapter	\$ -	\$ -	\$ -	\$ 0.60	\$ 21.48	\$ 52.81	\$ 113.92	\$ 28.29	\$ 51.24	\$ 122.98	\$ 102.48	\$ 92.24	\$ -	\$ -	\$ -	\$ 586.04
Building Operations and Maintenance Partnerships	\$ -	\$ -	\$ -	\$ 0.60	\$ 21.48	\$ 52.81	\$ 113.92	\$ 28.29	\$ 51.24	\$ 122.98	\$ 102.48	\$ 92.24	\$ -	\$ -	\$ -	\$ 586.04
Grand Total	\$ 112.41	\$ 455.17	\$ 736.16	\$ 1,128.44	\$ 918.54	\$ 1,239.64	\$ 1,657.73	\$ 1,695.42	\$ 1,850.46	\$ 1,701.44	\$ 1,039.83	\$ 755.41	\$ 308.52	\$ 167.42	\$ 71.61	\$ 13,838.19

Table 11. Leveraged Funds (\$ Million)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Innovation & Research	\$ -	\$ 25.99	\$ 193.53	\$ 168.55	\$ 109.41	\$ 437.34	\$ 584.40	\$ 740.70	\$ 281.22	\$ 260.19	\$ 173.13	\$ 154.36	\$ 99.75	\$ 98.97	\$ 147.94	\$ 3,475.49
Building Innovation Chapter	\$ -	\$ -	\$ 0.04	\$ 0.56	\$ 0.60	\$ 1.80	\$ 3.10	\$ 6.20	\$ 12.50	\$ 25.00	\$ 48.00	\$ 54.10	\$ -	\$ -	\$ -	\$ 151.90
NextGen HVAC	\$ -	\$ -	\$ 0.04	\$ 0.56	\$ 0.60	\$ 1.80	\$ 3.10	\$ 6.20	\$ 12.50	\$ 25.00	\$ 48.00	\$ 54.10	\$ -	\$ -	\$ -	\$ 151.90
Clean Transportation Chapter	\$ -	\$ -	\$ 0.82	\$ 1.73	\$ 1.67	\$ 3.00	\$ 8.00	\$ 13.50	\$ 13.50	\$ 15.00	\$ 15.00	\$ 9.00	\$ 7.31	\$ 3.00	\$ 1.50	\$ 93.03
Electric Vehicles - Innovation	\$ -	\$ -	\$ 0.72	\$ 0.84	\$ 0.77	\$ 1.50	\$ 5.00	\$ 9.00	\$ 9.00	\$ 9.00	\$ 9.00	\$ 3.00	\$ 1.31	\$ -	\$ -	\$ 49.14
Public Transportation and Electrified Rail	\$ -	\$ -	\$ 0.10	\$ 0.89	\$ 0.90	\$ 1.50	\$ 3.00	\$ 4.50	\$ 4.50	\$ 6.00	\$ 6.00	\$ 6.00	\$ 6.00	\$ 3.00	\$ 1.50	\$ 43.89
Energy-Related Environmental Research Chapter	\$ -	\$ -	\$ -	\$ 0.08	\$ 0.51	\$ 1.01	\$ 1.00	\$ 1.30	\$ 0.80	\$ 0.60	\$ 0.30	\$ 0.20	\$ 0.05	\$ -	\$ -	\$ 5.85
Energy-Related Environmental Research	\$ -	\$ -	\$ -	\$ 0.08	\$ 0.51	\$ 1.01	\$ 1.00	\$ 1.30	\$ 0.80	\$ 0.60	\$ 0.30	\$ 0.20	\$ 0.05	\$ -	\$ -	\$ 5.85
Grid Modernization Chapter	\$ -	\$ 0.06	\$ 135.48	\$ 3.98	\$ 2.70	\$ 10.25	\$ 15.40	\$ 25.60	\$ 35.60	\$ 40.60	\$ 50.50	\$ 60.50	\$ 60.40	\$ 50.47	\$ 64.17	\$ 555.72
High Performing Electric Grid	\$ -	\$ 0.06	\$ 0.48	\$ 3.98	\$ 2.70	\$ 10.25	\$ 15.40	\$ 25.60	\$ 35.60	\$ 40.60	\$ 50.50	\$ 60.50	\$ 60.40	\$ 50.47	\$ 64.17	\$ 420.72
Power Electronics Manufacturing Consortium	\$ -	\$ -	\$ 135.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 135.00
Innovation Capacity and Business Development Chapter	\$ -	\$ 25.93	\$ 56.67	\$ 159.48	\$ 100.07	\$ 411.84	\$ 544.34	\$ 680.77	\$ 203.93	\$ 163.44	\$ 34.33	\$ 3.07	\$ -	\$ -	\$ -	\$ 2,383.87
CleanTech Startup Growth	\$ -	\$ 25.93	\$ 56.67	\$ 135.57	\$ 88.67	\$ 389.27	\$ 488.01	\$ 628.25	\$ 150.65	\$ 158.44	\$ 26.45	\$ 3.07	\$ -	\$ -	\$ -	\$ 2,150.97
Manufacturing Corps	\$ -	\$ -	\$ -	\$ 22.89	\$ 8.57	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.00	\$ 7.88	\$ -	\$ -	\$ -	\$ -	\$ 64.34
Novel Business Models and Offerings	\$ -	\$ -	\$ -	\$ 1.03	\$ 2.83	\$ 17.57	\$ 51.33	\$ 47.53	\$ 48.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 168.56
Renewables Optimization Chapter	\$ -	\$ -	\$ 0.51	\$ 2.70	\$ 3.86	\$ 9.45	\$ 12.56	\$ 13.32	\$ 14.90	\$ 15.55	\$ 25.00	\$ 27.50	\$ 32.00	\$ 45.50	\$ 82.27	\$ 285.12
Energy Storage Technology and Product Development	\$ -	\$ -	\$ 0.48	\$ 2.49	\$ 3.60	\$ 2.99	\$ 6.49	\$ 7.24	\$ 7.99	\$ 8.55	\$ 17.00	\$ 19.50	\$ 23.00	\$ 30.50	\$ 42.49	\$ 172.29
National Offshore Wind Research & Development Consortium	\$ -	\$ -	\$ 0.03	\$ 0.22	\$ 0.26	\$ 6.46	\$ 6.08	\$ 6.09	\$ 6.91	\$ 7.00	\$ 8.00	\$ 8.00	\$ 9.00	\$ 15.00	\$ 39.78	\$ 112.83
Market Development	\$ 28.21	\$ 226.82	\$ 435.37	\$ 529.00	\$ 683.32	\$ 536.62	\$ 633.10	\$ 759.86	\$ 843.10	\$ 660.96	\$ 390.05	\$ 230.69	\$ 100.86	\$ 40.15	\$ 19.70	\$ 6,117.81
Agriculture Chapter	\$ -	\$ -	\$ -	\$ -	\$ 0.03	\$ 0.11	\$ 0.69	\$ 1.00	\$ 1.38	\$ 1.56	\$ 1.75	\$ 1.75	\$ 1.50	\$ 0.46	\$ -	\$ 10.22
2030 GLASE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.50	\$ 0.75	\$ 1.25	\$ 1.50	\$ 1.75	\$ 1.75	\$ 1.50	\$ 0.46	\$ -	\$ 9.46
Advancing Agricultural Energy Technologies	\$ -	\$ -	\$ -	\$ -	\$ 0.03	\$ 0.11	\$ 0.19	\$ 0.25	\$ 0.13	\$ 0.06	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.76
Clean Heating and Cooling Chapter	\$ -	\$ 8.19	\$ 42.84	\$ 80.60	\$ 23.51	\$ 17.44	\$ 26.10	\$ 24.87	\$ 24.87	\$ 27.98	\$ 31.09	\$ -	\$ -	\$ -	\$ -	\$ 307.50
Heat Pumps Phase 1 (2017)	\$ -	\$ 7.62	\$ 40.36	\$ 76.56	\$ 20.41	\$ 15.54	\$ 24.87	\$ 24.87	\$ 24.87	\$ 27.98	\$ 31.09	\$ -	\$ -	\$ -	\$ -	\$ 294.18
Renewable Heat NY - Clean and Efficient Biomass Heating	\$ -	\$ 0.57	\$ 2.48	\$ 4.04	\$ 3.10	\$ 1.89	\$ 1.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13.32
Clean Transportation Chapter	\$ -	\$ 112.46	\$ 191.63	\$ 196.11	\$ 315.00	\$ 42.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 857.19
Electric Vehicles - Rebate	\$ -	\$ 112.46	\$ 191.63	\$ 196.11	\$ 315.00	\$ 42.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 857.19
Commercial Chapter	\$ -	\$ -	\$ 7.54	\$ 48.72	\$ 61.27	\$ 103.99	\$ 166.98	\$ 221.58	\$ 298.24	\$ 196.98	\$ 77.93	\$ 30.41	\$ 22.40	\$ -	\$ -	\$ 1,236.04
Energy Management Technology	\$ -	\$ -	\$ 7.54	\$ 31.02	\$ 58.45	\$ 91.50	\$ 149.66	\$ 194.04	\$ 269.13	\$ 162.75	\$ 66.40	\$ 12.00	\$ 5.91	\$ -	\$ -	\$ 1,048.41
P-12 Schools	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.48	\$ 6.41	\$ 7.69	\$ 8.97	\$ 14.09	\$ 11.53	\$ 18.41	\$ 16.48	\$ -	\$ -	\$ 88.05
Real Estate Tenant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.91	\$ 8.85	\$ 8.85	\$ 8.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28.45
REV Campus Challenge	\$ -	\$ -	\$ -	\$ 17.71	\$ 2.81	\$ 8.00	\$ 9.00	\$ 11.01	\$ 11.30	\$ 11.30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 71.13
Communities Chapter	\$ 0.75	\$ 38.24	\$ 4.24	\$ 9.59	\$ 2.41	\$ 10.34	\$ 14.05	\$ 14.05	\$ 9.77	\$ 7.94	\$ 3.05	\$ 1.83	\$ 1.22	\$ -	\$ -	\$ 117.49
Clean Energy Communities	\$ 0.75	\$ 38.24	\$ 4.24	\$ 9.59	\$ 2.41	\$ 9.16	\$ 14.05	\$ 14.05	\$ 9.77	\$ 7.94	\$ 3.05	\$ 1.83	\$ 1.22	\$ -	\$ -	\$ 116.31
Community Energy Engagement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.18
Energy Storage Chapter	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.98	\$ 19.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.11
Reducing Barriers to Distributed Deployment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.95
Solar Plus Energy Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.98	\$ 15.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20.15
Industrial Chapter	\$ -	\$ -	\$ 2.53	\$ 31.43	\$ 7.88	\$ 15.94	\$ 18.44	\$ 17.33	\$ 16.37	\$ 10.33	\$ 12.50	\$ 12.50	\$ 12.50	\$ 12.50	\$ 6.88	\$ 177.11
Energy Management Practices	\$ -	\$ -	\$ 2.53	\$ 31.43	\$ 7.88	\$ 15.94	\$ 18.44	\$ 17.33	\$ 16.37	\$ 10.33	\$ 12.50	\$ 12.50	\$ 12.50	\$ 12.50	\$ 6.88	\$ 177.11
Low-to-Moderate Income Chapter	\$ 7.69	\$ 10.36	\$ 12.28	\$ 19.57	\$ 21.25	\$ 60.02	\$ 67.54	\$ 195.11	\$ 225.57	\$ 254.29	\$ 155.13	\$ 107.19	\$ 34.92	\$ 14.08	\$ 8.80	\$ 1,193.82
LMI Multifamily	\$ -	\$ -	\$ -	\$ 2.51	\$ 10.17	\$ 24.81	\$ 29.59	\$ 92.87	\$ 78.80	\$ 104.28	\$ 35.09	\$ 28.08	\$ -	\$ -	\$ -	\$ 406.19
Low Rise New Construction Transition - LMI	\$ 0.02	\$ 0.45	\$ 3.41	\$ 5.70	\$ 4.30	\$ 3.88	\$ 3.88	\$ 0.97	\$ 0.97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23.56
Multifamily New Construction Transition - LMI	\$ -	\$ -	\$ -	\$ -	\$ 0.13	\$ 4.27	\$ 8.54	\$ 10.68	\$ 12.81	\$ 6.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42.83
New Construction - LMI	\$ -	\$ -	\$ -	\$ 0.17	\$ 1.05	\$ 3.85	\$ 11.92	\$ 68.47	\$ 103.47	\$ 109.31	\$ 83.55	\$ 56.65	\$ 34.92	\$ 14.08	\$ 8.80	\$ 496.23
RetrofitNY - LMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18.49	\$ 8.99	\$ 16.89	\$ 23.90	\$ 28.59	\$ 35.05	\$ 22.47	\$ -	\$ -	\$ -	\$ 154.37
REVitalize	\$ -	\$ -	\$ -	\$ 1.57	\$ 2.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.60
Single Family - Moderate Income	\$ 7.68	\$ 9.91	\$ 8.88	\$ 9.62	\$ 3.57	\$ 4.72	\$ 4.63	\$ 5.24	\$ 5.62	\$ 5.72	\$ 1.43	\$ -	\$ -	\$ -	\$ -	\$ 67.03
Multifamily Chapter	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.95	\$ 4.99	\$ 9.49	\$ 13.49	\$ 15.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44.97
Multifamily	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.95	\$ 4.99	\$ 9.49	\$ 13.49	\$ 15.05	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44.97
Multi-Sector Solutions Chapter	\$ -	\$ -	\$ 0.53	\$ 2.53	\$ 10.07	\$ 22.02	\$ 116.44	\$ 115.39	\$ 158.98	\$ 77.12	\$ 75.09	\$ 50.48	\$ 15.87	\$ 9.09	\$ -	\$ 653.62
Market Challenges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 71.48	\$ 76.15	\$ 95.73	\$ 36.55	\$ 24.12	\$ 10.58	\$ -	\$ -	\$ -	\$ 314.61
Pay for Performance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.68	\$ 11.03	\$ 11.03	\$ 33.62	\$ 11.03	\$ 26.07	\$ 20.57	\$ -	\$ -	\$ -	\$ 117.01
Technical Services	\$ -	\$ -	\$ 0.53	\$ 2.53	\$ 10.07	\$ 18.35	\$ 33.94	\$ 28.21	\$ 29.63	\$ 29.55	\$ 24.89	\$ 19.33	\$ 15.87	\$ 9.09	\$ -	\$ 222.00
New Construction Chapter	\$ -	\$ -	\$ -	\$ -	\$ 0.85	\$ 8.43	\$ 14.84	\$ 24.16	\$ 26.78	\$ 29.68	\$ 22.37	\$ 21.77	\$ 12.45	\$ 4.02	\$ 4.02	\$ 169.38
New Construction - Market Rate	\$ -	\$ -	\$ -	\$ -	\$ 0.85	\$ 8.43	\$ 14.84	\$ 24.16	\$ 26.78	\$ 29.68	\$ 22.37	\$ 21.77	\$ 12.45	\$ 4.02	\$ 4.02	\$ 169.38
On-Site Power Chapter	\$ -	\$ -	\$ -	\$ -	\$ 12.11	\$ 29.88	\$ 33.79	\$ 25.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100.97
Fuel Cells	\$ -	\$ -	\$ -	\$ -	\$ 12.11	\$ 29.88	\$ 33.79	\$ 25.19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100.97

Table 11. Leveraged Funds (\$ Million)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Residential Chapter	\$ -	\$ -	\$ -	\$ 0.04	\$ 0.91	\$ 3.73	\$ 8.06	\$ 9.10	\$ 13.65	\$ 9.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44.82
Residential	\$ -	\$ -	\$ -	\$ 0.04	\$ 0.91	\$ 3.73	\$ 8.06	\$ 9.10	\$ 13.65	\$ 9.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44.82
Resource Acquisition Transition Chapter	\$ 19.77	\$ 57.51	\$ 173.74	\$ 137.38	\$ 221.67	\$ 198.35	\$ 118.09	\$ 72.85	\$ 36.51	\$ 17.57	\$ 6.04	\$ -	\$ -	\$ -	\$ -	\$ 1,059.48
Agriculture Transition	\$ 1.56	\$ 10.09	\$ 3.27	\$ 0.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.33
Anaerobic Digesters Transition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.32	\$ 3.32	\$ 3.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9.95
Combined Heat & Power Transition	\$ -	\$ 13.93	\$ 9.87	\$ 16.09	\$ 60.88	\$ 56.65	\$ 33.82	\$ 25.37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 216.62
Commercial New Construction Transition	\$ -	\$ 0.39	\$ 1.64	\$ 0.43	\$ 1.00	\$ 1.12	\$ 1.79	\$ 3.36	\$ 4.47	\$ 5.59	\$ 6.04	\$ -	\$ -	\$ -	\$ -	\$ 25.83
Commercial Transition	\$ -	\$ 0.17	\$ 5.41	\$ 6.75	\$ 6.30	\$ 6.60	\$ 6.25	\$ 6.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37.75
Industrial Transition	\$ 0.02	\$ 9.36	\$ 130.01	\$ 83.31	\$ 147.67	\$ 127.33	\$ 69.38	\$ 32.48	\$ 30.98	\$ 11.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 641.82
Low Rise New Construction Transition - Market Rate	\$ 1.21	\$ 2.75	\$ 2.21	\$ 3.35	\$ 1.12	\$ 1.42	\$ 1.42	\$ 0.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13.79
Multifamily Market Rate Transition	\$ -	\$ 0.07	\$ 0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.07
Multifamily New Construction Transition - Market Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.76	\$ 2.11	\$ 1.76	\$ 1.05	\$ 0.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7.38
Single Family Market Rate Transition	\$ 16.19	\$ 19.60	\$ 21.07	\$ 25.91	\$ 4.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87.30
Small Wind Transition	\$ 0.70	\$ 1.15	\$ 0.26	\$ 1.13	\$ 0.16	\$ 0.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.55
Solar Thermal Transition	\$ 0.08	\$ 0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.08
REV Technical Assistance Chapter	\$ -	\$ 0.07	\$ 0.05	\$ 0.66	\$ 1.33	\$ 7.60	\$ 8.00	\$ 8.75	\$ 3.50	\$ 4.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34.50
REV Connect	\$ -	\$ 0.07	\$ 0.05	\$ 0.66	\$ 1.33	\$ 7.60	\$ 8.00	\$ 8.75	\$ 3.50	\$ 4.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34.50
Workforce Development and Training Chapter	\$ -	\$ -	\$ -	\$ 2.37	\$ 5.03	\$ 9.84	\$ 15.97	\$ 20.98	\$ 13.99	\$ 8.57	\$ 5.10	\$ 4.76	\$ -	\$ -	\$ -	\$ 86.61
Building Operations and Maintenance Partnerships	\$ -	\$ -	\$ -	\$ 1.16	\$ 1.62	\$ 3.83	\$ 4.24	\$ 1.74	\$ 2.50	\$ 6.08	\$ 5.10	\$ 4.76	\$ -	\$ -	\$ -	\$ 31.03
Talent Pipeline	\$ -	\$ -	\$ -	\$ 1.22	\$ 3.42	\$ 6.00	\$ 11.72	\$ 19.24	\$ 11.49	\$ 2.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55.58
Grand Total	\$ 28.21	\$ 252.81	\$ 628.90	\$ 697.55	\$ 792.74	\$ 973.96	\$ 1,217.50	\$ 1,500.55	\$ 1,124.32	\$ 921.15	\$ 563.19	\$ 385.06	\$ 200.61	\$ 139.12	\$ 167.64	\$ 9,593.30

Table 12. Participant (Count)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Innovation & Research	-	2	461	1,400	1,171	1,498	708	227	77	50	20	17	11	4	-	5,645
Building Innovation Chapter	-	-	-	2	8	10	20	15	5	3	-	-	-	-	-	63
NextGen HVAC	-	-	-	2	8	10	20	15	5	3	-	-	-	-	-	63
Clean Transportation Chapter	-	-	1	9	25	26	29	16	3	2	-	-	-	-	-	111
Electric Vehicles - Innovation	-	-	1	9	3	16	15	10	3	2	-	-	-	-	-	59
Public Transportation and Electrified Rail	-	-	-	-	22	10	14	6	-	-	-	-	-	-	-	52
Energy-Related Environmental Research Chapter	-	2	10	18	7	25	25	33	20	15	8	5	1	-	-	168
Energy-Related Environmental Research	-	2	10	18	7	25	25	33	20	15	8	5	1	-	-	168
Grid Modernization Chapter	-	-	12	-	15	21	25	23	22	15	12	12	10	4	-	171
High Performing Electric Grid	-	-	-	-	15	21	25	23	22	15	12	12	10	4	-	159
Power Electronics Manufacturing Consortium	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	12
Innovation Capacity and Business Development Chapter	-	-	438	1,371	1,062	1,402	592	127	23	15	-	-	-	-	-	5,030
CleanTech Startup Growth	-	-	173	43	395	565	581	115	15	15	-	-	-	-	-	1,902
Manufacturing Corps	-	-	265	1,328	667	833	-	-	-	-	-	-	-	-	-	3,093
Novel Business Models and Offerings	-	-	-	-	-	4	11	12	8	-	-	-	-	-	-	35
Renewables Optimization Chapter	-	-	-	-	54	14	17	13	4	-	-	-	-	-	-	102
Energy Storage Technology and Product Development	-	-	-	-	32	5	12	12	4	-	-	-	-	-	-	65
National Offshore Wind Research & Development Consortium	-	-	-	-	22	9	5	1	-	-	-	-	-	-	-	37
Market Development	8,974	19,731	26,844	38,916	45,553	64,223	75,981	111,451	126,606	123,550	37,526	22,493	8,038	3,239	2,118	715,242
Agriculture Chapter	-	-	-	-	27	4	2	-	-	-	-	-	-	-	-	33
2030 GLASE	-	-	-	-	25	-	-	-	-	-	-	-	-	-	-	25
Advancing Agricultural Energy Technologies	-	-	-	-	2	4	2	-	-	-	-	-	-	-	-	8
Clean Heating and Cooling Chapter	-	1,353	4,064	7,758	1,577	646	425	8	8	9	10	-	-	-	-	15,858
Heat Pumps Phase 1 (2017)	-	1,188	3,284	6,390	528	5	8	8	8	9	10	-	-	-	-	11,438
Renewable Heat NY - Clean and Efficient Biomass Heating	-	165	780	1,368	1,049	641	417	-	-	-	-	-	-	-	-	4,420
Clean Transportation Chapter	-	3,213	5,475	5,603	9,000	1,200	-	-	-	-	-	-	-	-	-	24,491
Electric Vehicles - Rebate	-	3,213	5,475	5,603	9,000	1,200	-	-	-	-	-	-	-	-	-	24,491
Codes Chapter	-	-	596	993	12,000	5,100	5,000	5,000	-	-	-	-	-	-	-	28,689
Code to Zero	-	-	596	993	12,000	5,100	5,000	5,000	-	-	-	-	-	-	-	28,689
Commercial Chapter	-	94	37	285	175	602	1,237	1,027	692	582	408	350	225	50	-	5,764
Energy Management Technology	-	-	27	256	167	237	482	267	341	231	58	-	-	-	-	2,065
P-12 Schools	-	-	-	-	-	54	334	340	350	350	350	350	225	50	-	2,403
Real Estate Tenant	-	-	-	-	-	308	418	418	-	-	-	-	-	-	-	1,145
REV Campus Challenge	-	94	10	29	8	3	3	2	1	1	-	-	-	-	-	151
Communities Chapter	56	210	201	43	7	6,524	-	-	-	-	-	-	-	-	-	7,041
Clean Energy Communities	56	210	201	43	7	-	-	-	-	-	-	-	-	-	-	517
Community Energy Engagement	-	-	-	-	-	6,524	-	-	-	-	-	-	-	-	-	6,524
Energy Storage Chapter	-	1	19	-	-	26	42	31	34	37	37	36	35	35	27	360
Reducing Barriers to Distributed Deployment	-	1	19	-	-	22	31	31	34	37	37	36	35	35	27	345
Solar Plus Energy Storage	-	-	-	-	-	4	11	-	-	-	-	-	-	-	-	15
Industrial Chapter	-	-	5	32	5	22	26	20	25	20	25	25	25	25	25	280
Energy Management Practices	-	-	5	32	5	22	26	20	25	20	25	25	25	25	25	280
Low-to-Moderate Income Chapter	6,468	10,852	12,217	18,969	15,842	29,875	32,266	54,139	52,649	60,957	27,386	17,513	6,056	2,468	1,543	349,199
LMI Multifamily	-	-	-	1,137	2,530	5,559	6,219	21,845	18,709	26,896	8,293	6,634	-	-	-	97,822
Low Rise New Construction Transition - LMI	3	100	913	1,491	1,143	997	997	249	-	-	-	-	-	-	-	6,143
Low-Income Forum on Energy	-	1,439	936	1,172	810	826	842	859	876	894	-	-	-	-	-	8,654
Multifamily New Construction Transition - LMI	-	-	-	-	23	641	1,281	1,601	1,922	961	-	-	-	-	-	6,428
New Construction - LMI	-	-	-	51	294	4,683	12,766	19,564	20,539	21,603	16,126	10,457	6,056	2,468	1,543	116,149
NYS Healthy Homes Value Based Payment Pilot	-	-	-	-	50	400	50	-	-	-	-	-	-	-	-	500
RetrofitNY - LMI	-	-	-	-	-	46	-	61	260	321	390	422	-	-	-	1,500
REVitalize	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	3
Single Family - Low Income	4,921	7,159	8,158	9,094	3,555	4,789	6,267	5,606	5,428	5,537	1,388	-	-	-	-	61,902
Single Family - Moderate Income	1,544	2,154	2,210	2,273	2,965	3,920	3,844	4,353	4,666	4,746	1,189	-	-	-	-	33,865
Solar for All	-	-	-	3,750	4,470	8,014	-	-	-	-	-	-	-	-	-	16,234
Multifamily Chapter	-	-	-	-	-	498	1,178	7,871	22,411	19,929	-	-	-	-	-	51,887
Multifamily	-	-	-	-	-	498	1,178	7,871	22,411	19,929	-	-	-	-	-	51,887

Table 12. Participant (Count)

Portfolio / Chapter / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Multi-Sector Solutions Chapter	-	113	165	318	292	899	3,088	4,140	6,829	1,924	2,749	1,946	134	138	-	22,735
Clean Energy Siting and Soft Cost Reduction	-	113	133	195	26	15	15	15	15	15	-	-	-	-	-	542
Information Products and Brokering	-	-	-	-	150	125	1,200	2,200	3,000	-	-	-	-	-	-	6,675
Market Challenges	-	-	-	-	-	14	8	11	8	-	-	-	-	-	-	41
Pay for Performance	-	-	-	-	-	500	1,500	1,500	3,380	1,500	2,472	1,732	-	-	-	12,584
Technical Services	-	-	32	123	116	245	365	414	426	409	277	214	134	138	-	2,893
New Construction Chapter	-	-	-	-	207	1,041	2,074	3,116	3,124	3,640	2,606	2,605	1,563	523	523	21,021
New Construction - Market Rate	-	-	-	-	207	1,041	2,074	3,116	3,124	3,640	2,606	2,605	1,563	523	523	21,021
On-Site Power Chapter	-	-	-	-	5	5	5	2	-	-	-	-	-	-	-	17
Fuel Cells	-	-	-	-	5	5	5	2	-	-	-	-	-	-	-	17
Residential Chapter	-	-	-	37	2,276	11,901	23,479	28,240	33,940	33,260	4,261	-	-	-	-	137,395
Residential	-	-	-	37	2,276	11,901	23,479	28,240	33,940	33,260	4,261	-	-	-	-	137,395
Resource Acquisition Transition Chapter	2,450	3,895	4,065	4,658	1,082	788	778	475	173	126	24	-	-	-	-	18,513
Agriculture Transition	103	404	261	31	-	-	-	-	-	-	-	-	-	-	-	799
Anaerobic Digesters Transition	-	-	-	-	-	7	7	7	-	-	-	-	-	-	-	21
Combined Heat & Power Transition	-	24	13	15	24	67	40	20	-	-	-	-	-	-	-	203
Commercial New Construction Transition	-	3	4	4	13	4	7	13	18	22	24	-	-	-	-	112
Commercial Transition	-	3	33	98	180	180	179	179	-	-	-	-	-	-	-	852
Industrial Transition	2	23	60	90	61	47	17	5	5	4	-	-	-	-	-	314
Low Rise New Construction Transition - Market Rate	233	580	502	753	244	228	228	51	-	-	-	-	-	-	-	2,818
Multifamily Market Rate Transition	-	18	128	-	-	-	-	-	-	-	-	-	-	-	-	146
Multifamily New Construction Transition - Market Rate	-	-	-	-	-	250	300	200	150	100	-	-	-	-	-	1,000
Single Family Market Rate Transition	2,098	2,817	3,063	3,647	555	-	-	-	-	-	-	-	-	-	-	12,180
Small Wind Transition	7	17	1	20	5	5	-	-	-	-	-	-	-	-	-	55
Solar Thermal Transition	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Workforce Development and Training Chapter	-	-	-	220	3,058	5,093	6,382	7,382	6,721	3,067	20	18	-	-	-	31,961
Building Operations and Maintenance Partnerships	-	-	-	1	8	16	17	6	10	24	20	18	-	-	-	120
Talent Pipeline	-	-	-	219	3,050	5,077	6,365	7,376	6,711	3,043	-	-	-	-	-	31,841
Grand Total	8,974	19,733	27,305	40,316	46,724	65,722	76,689	111,677	126,683	123,600	37,545	22,510	8,049	3,243	2,118	720,888