

New York’s Regional Greenhouse Gas Initiative Operating Plan Amendment for 2022 (revised)

Background

In New York, responsibility for implementing the Regional Greenhouse Gas Initiative (RGGI) is shared by the Department of Environmental Conservation (DEC) and the New York State Energy Research and Development Authority (NYSERDA). DEC and NYSERDA program responsibilities are contained in coordinated regulations:

- DEC established New York's CO₂ Budget Trading Program and the State's share of the total regional cap through a rule (6 NYCRR Part 242) and revisions to an existing rule (6 NYCRR Part 200, General Provisions). Part 242 establishes the cap-and-trade provisions, as well as program compliance responsibilities and other program aspects.
- NYSERDA set up the CO₂ Allowance Auction Program through regulations (21 NYCRR Part 507). Part 507 establishes administrative procedures for the auction process and provides that proceeds from the sale of the allowances will fund projects and programs for “energy efficiency, renewable or non-carbon emitting technologies, and innovative carbon emissions abatement technologies with significant carbon reduction potential, and for reasonable administrative costs incurred by the Authority.”

The NYSERDA regulations include a provision to annually convene a group of stakeholders representing a broad array of energy and environmental interests. This group advises NYSERDA regarding strategies to best utilize RGGI funds. NYSERDA's RGGI Operating Plan is reviewed and revised on an annual basis. NYSERDA holds an open meeting of the stakeholder group each year, inviting input on how to achieve greater scale of implementation, advance activities that realize benefits in disadvantaged communities, expand private investments and partnerships, and address barriers to program success.

The Draft 2022 Operating Plan Amendment was presented to stakeholders for comment in December 2021 and was approved by NYSERDA's Board in January 2022. Since that time, two factors have contributed material changes, which prompted the development of this “Draft 2022 Operating Plan Amendment (revised)”. First, the 2022 New York State Enacted Budget does not direct NYSERDA to allocate funds to support Environmental Tax Credits; as such, these funds will be re-programmed to NYSERDA's portfolio as per this proposal. Second, CO₂ allowance prices from recent auctions are currently at a level above the approved projection-generated revenue that allows for utilization of the previously approved expansion plan

This “Draft 2022 Operating Plan Amendment (revised)” provides program descriptions and funding levels through March 2025.

Review of Programs and Budgets for the 2022 Operating Plan

New York State invests RGGI proceeds to support comprehensive strategies that best achieve the RGGI greenhouse gas emissions reduction goals, through energy efficiency, renewable energy, and carbon abatement strategies, pursuant to 21 NYCRR Part 507. The programs in the portfolio of initiatives are designed to support the pursuit of the State's greenhouse gas emissions reduction goals by:

- Deploying commercially available energy efficiency and renewable energy technologies;

- Building the State’s capacity for long-term carbon reduction;
- Empowering New York communities to reduce carbon pollution, and transition to cleaner energy;
- Stimulating entrepreneurship and growth of clean energy and carbon abatement companies in New York; and
- Creating innovative financing to increase adoption of clean energy and carbon abatement in the State.

The initiatives described below represent program activities proposed for the 2022 Operating Plan. The 2022 Operating Plan portfolio builds on the 2021 portfolio, with an increased focus on disadvantaged communities. The funding level for each program previously approved and the amounts planned for FY22-23 through FY24-25 are reflected in Table 1 on page 5.

RGGI programs have and will continue, alongside other state programs, to contribute to economy-wide greenhouse gas emissions reductions and provide benefits to New York’s historically overburdened and underserved communities. NYSERDA’s CO₂ Allowance Auction Program regulations reflect the provision of the Climate Leadership and Community Protection Act “that 40%, and no less than 35%, of the overall benefits from the investment of the [CO₂ Allowance Auctions] proceeds” will be realized in disadvantaged communities. Appendix 1 of this Operating Plan amendment provides an estimation of how RGGI program commitments are anticipated to result in benefits for disadvantaged communities based on an interim definition of disadvantaged communities and low-to-moderate-income investments, as the Climate Justice Working Group continues its work to arrive at a long-term definition. As such, Appendix 1 tracks post-2019 cumulative commitments, as this is the timeframe in which benefits are subject to the Climate Act. NYSERDA estimates that 43% of post-2019 commitments are expected to provide benefits to disadvantaged communities.

The funding allocation values represented in Table 1 provide an estimate of when funds will be assigned to each program. These figures do not reflect when funds will be spent or when contracts will be signed. The table also reflects cumulative funding allocations through FY20-21, original and revised funding allocations for FY21-22, and estimated allocations for FY22-23 through FY24-25.

Multi-year programs that have remaining funds available for program expenditures but are not receiving additional funding under this Draft 2022 Operating Plan Amendment (revised) are not described below. Those programs will continue with the planned expenditure of their previously allocated funding as outlined in the 2021 RGGI Operating Plan and the 2022 RGGI Operating Plan Amendment.

For all RGGI-funded activities, NYSERDA will provide timely progress reports utilizing best practice protocols for project tracking and evaluation.

Programs with Pre-Approval from 2022 Operating Plan Amendment

In the previously approved Operating Plan Amendment, NYSERDA identified programs that it intended to fund in the event that auction proceeds exceed the anticipated budgets. NYSERDA will allocate RGGI funding to the following programs:

NYC Retail Storage

The Amendment allocates \$20 million in funding previously approved for NYC Retail Storage will target supporting approximately 70 to 100 MW of storage in New York City, equivalent to a full power plant. The market for retail storage in NYC shows demand remaining from previous incentive blocks and the economics of the projects show that

support is still needed to bridge the gap between current system costs and a self-sustaining market. The incentives would buy down the cost to purchase and install storage systems of up to 5MW that will participate under the VDER tariff and continue the growth of an important storage market in the State, particularly with regard to system benefits.

EmPower Plus: Decarbonizing Buildings for Low- and Moderate-Income Households

To maintain statewide access to fuel neutral, whole buildings energy efficiency opportunities, these funds will maintain support for low-to-moderate-income (LMI) customers including but not limited to customers of municipal utilities and/or customers using delivered fuel, to access incentives through EmPower or Assisted Home Performance with ENERGY STAR, comprehensive energy efficiency services programs for income-qualified residents in existing one-to-four family homes. This Amendment allocates an additional \$39 million, which now totals \$48 million for the EmPower Plus program through FY24-25. This additional investment will fund high-efficiency electrification upgrades for low- and moderate- income utility customers using electric resistance heating or delivered fuels. This funding will also be used to ensure funding continuity for low- to moderate-income programs to bridge CEF funding gaps.

Expansion of Planned Programs

ChargeNY

ChargeNY has been pursuing three strategies to promote plug-in electric vehicle (PEV) adoption by consumers across New York. First, NYSERDA implemented the Drive Clean rebate program for PEVs in March 2017, accelerating purchases of PEVs by reducing higher upfront costs. Second, NYSERDA will continue to invest in marketing and awareness-building activities to build interest in PEVs among the public. A focus on building greater public knowledge and awareness of the capabilities of PEVs is essential to spur more private investment in PEV purchases and PEV charging stations. This work may also include other market development activities, such as policy and business model development studies that support new ways for critical stakeholders, such as utilities, local governments, and car dealers, to get involved in the PEV market. Third, NYSERDA will also support the installation of PEV charging stations at workplaces, multi-family buildings, and targeted public locations – location types that have been seen to be effective drivers for PEV adoption based on usage data reported from previous installations – and work with the site owners to further promote PEV adoptions. This Operating Plan Amendment proposes to provide an additional \$45 million to now total \$96.3 million through FY24-25, which will be used to support continuation of current and additional ChargeNY strategies to ensure effective engagement with the market to build scale and ensure a focus on a just transition into future years.

Equity and Climate Transformation Research

The amendment proposes an additional \$600,000 allocation to now total \$2.6 million through the planning period, which will be used to support Climate Action Council Climate Justice Working Group. This new activity will complement the previously approved proposal to establish an Equity and Climate Transformation Research Program. While the techno-economic pathways for decarbonization have been mapped out in the literature and in analysis for the Climate Action Council, less is known about the social and institutional dimensions of this deep and rapid

transformation. This program would establish an engaged, participatory research framework to study the social dimensions of an equitable and inclusive transition in a manner that centers the lived experiences of underserved and overburdened communities and prioritizes beneficial outcomes for disadvantaged communities. This initial funding would provide the investment necessary to develop both formal proposals for long-term funding as well as pilot initiatives. These pilot initiatives would aim to 1) test initial research hypotheses, 2) engage with a diverse set of NYS communities to understand how they would most benefit from this research and how they can be most effectively engaged in the process and 3) convene academics. The creation of an Equity and Climate Transformation Research Agenda would support scientifically rigorous inquiry that also advances transformative, inclusive solutions to climate action challenges in New York State. The work would inform strategies for effective climate awareness and consumer education initiatives.

Funding Assumptions

The projected revenues and program funding allocations are presented below in Table 1. Additionally, the table presents program administration and evaluation costs, ongoing RGGI, Inc. costs, State Cost Recovery Fees, and other factors. The table below presents an increase in program administration funding, which reflect the projected increased need for additional support based on the anticipated increase in program activity.

This revised Amendment assumes that future auction proceeds are based on an auction allowance price of \$8.00 that is sustained through the end of the planning period. This \$8.00 per allowance estimate is conservatively used going forward, based on a lookback average of recent auctions, increased by a modest inflationary factor of 2.5% per year. Relatedly, the revised auction allowance for FY21-22 is \$11.04, which is an average of the value of the allowances New York State received from the last four RGGI auctions (e.g., Auction 52 through Auction 55).

Table 1: Revenues and Program Funding Allocations

Category	Program	Cumulative FY20-21	FY21-22 Original Plan	FY21-22 Revised	FY22-23	FY23-24	FY24-25	Total
Proceeds	Number of allowances	412,511,868	21,874,920	22,706,145	20,924,243	20,043,750	19,163,257	495,349,262
	Allowance price	\$3.51	\$6.82	\$11.04	\$8.00	\$8.00	\$8.00	\$4.40
	RGGI Auction Proceeds	1,446,909,689	149,186,951	250,634,361	167,393,942	160,349,998	153,306,054	2,178,594,044
	Interest Earnings	18,156,696	101,000	54,000	69,000	65,000	59,000	18,403,696
	Total Revenues	1,465,066,385	149,287,951	250,688,361	167,462,942	160,414,998	153,365,054	2,196,997,740
Renewable Energy	NY SUN NYPA Customer Incentives	26,000,000	3,000,000	3,000,000	1,000,000	-	-	30,000,000
	NY SUN Community Solar/K-solar	7,500,000	-	-	-	-	-	7,500,000
	NY SUN Long Island incentives	55,000,000	-	-	-	-	-	55,000,000
	Residential PV Plus Storage	-	-	-	-	6,000,000	3,000,000	9,000,000
	Renewable Heat NY	10,300,083	-	-	-	-	-	10,300,083
	Community Heat Pump Systems	-	-	-	5,000,000	4,700,000	-	9,700,000
	Advanced Renewable Energy	2,837,698	-	-	-	-	-	2,837,698
	NYS Generation Attributes Tracking System	789,933	-	-	-	-	-	789,933
	NYSERDA PV incentives	5,319,821	-	-	-	-	-	5,319,821
Energy Efficiency	Clean Energy Workforce Opportunity Program	15,000,000	-	-	-	-	-	15,000,000
	LIPA Efficiency and RE	229,600,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	309,600,000
	Energy Storage (LIPA territory)	12,926,434	-	-	-	-	-	12,926,434
	NYC Retail Storage	-	-	-	-	20,000,000	-	20,000,000
	Empower Plus	53,975,905	500,000	1,500,000	16,000,000	16,000,000	16,000,000	103,475,905
	Pilot Projects with Municipal Utilities	-	1,000,000	1,000,000	1,000,000	1,000,000	-	3,000,000
	Disadvantaged Communities Schools/Buildings	-	13,000,000	13,000,000	12,600,000	17,300,000	6,500,000	49,400,000
	Multifamily Performance Program	15,046,683	-	-	-	-	-	15,046,683
	Multifamily Carbon Emissions Reduction	5,833,019	-	-	-	-	-	5,833,019
	Solar Thermal incentive	4,226,947	-	-	-	-	-	4,226,947
	Municipal Water/Wastewater	1,245,242	-	-	-	-	-	1,245,242
Green Residential Buildings	2,744,601	-	-	-	-	-	2,744,601	
Innovative GHG Abatement Strategies	Southern Tier Competition (76 West)	11,000,000	-	-	-	-	-	11,000,000
	Brookhaven National Lab- ION Collider	25,000,000	-	-	-	-	-	25,000,000
	Electric Vehicle/Charge NY	23,500,000	21,500,000	36,500,000	42,400,000	23,000,000	30,900,000	156,300,000
	Advanced Buildings & Industrial Innovations	13,307,654	-	-	-	-	-	13,307,654
	Climate Research & Analysis	8,729,296	-	-	-	-	-	8,729,296
	Competitive GHG Reduction Pilot	972,650	-	-	-	-	-	972,650
	Clean Energy Business Development	5,809,987	-	-	-	-	-	5,809,987
	Transportation Research	3,819,311	-	-	-	-	-	3,819,311
	Natural Carbon Solutions	-	-	-	2,000,000	3,000,000	2,000,000	7,000,000
	Equity and Climate Transformation Research	-	-	-	800,000	900,000	900,000	2,600,000
	Climate Mitigation and Resilience Research	-	-	500,000	500,000	500,000	-	1,500,000
	PV Manufacturing consortium	8,480,000	-	-	-	-	-	8,480,000
	Carbon Sequestration	1,000,000	-	-	-	-	-	1,000,000
Community Clean Energy	Cleaner Greener Communities	94,261,895	-	-	-	-	-	94,261,895
	Clean Energy Communities	4,273,120	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	16,273,120
	Climate Smart Communities	7,674,999	-	-	-	-	-	7,674,999
	Community Energy Engagement	1,400,000	1,000,000	1,000,000	1,000,000	1,000,000	-	4,400,000
	Economic Development Growth Extension	5,843,047	-	-	-	-	-	5,843,047
	Energy to Lead	3,000,000	-	-	-	-	-	3,000,000
	Renewable/Net-Zero Energy Demonstrations	6,000,000	1,000,000	1,000,000	500,000	-	-	7,500,000
	Healthy New Home Design & Construction Challenge	-	-	-	1,000,000	3,000,000	3,000,000	7,000,000
	Workforce Development Talent Pipeline Priority Population	-	2,000,000	2,000,000	2,000,000	11,000,000	4,000,000	19,000,000
	Clean Energy Hubs	-	-	-	3,000,000	3,000,000	4,000,000	10,000,000
	Climate Action Consumer Awareness & Education	-	-	-	500,000	5,000,000	4,500,000	10,000,000
	Air Monitoring	-	-	8,000,000	-	-	-	8,000,000
	Regional Economic Development & GHG Reduction	10,246,443	-	-	-	-	-	10,246,443
Directed	NYS Environmental Tax Credits	156,000,000	23,000,000	23,000,000	-	-	-	179,000,000
	NYS Environmental Protection Fund	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
	Electric Generation Facility Cessation Mitigation/ Just Transition	50,000,000	-	-	-	-	-	50,000,000
	Green Jobs-Green NY- Original Legislation	112,000,000	-	-	-	-	-	112,000,000
	Green Jobs-Green NY- Additional Funding	142,725,275	12,000,000	12,000,000	29,936,974	4,370,498	14,071,993	203,104,740
	Transfer to Clean Energy Standard	719,424	-	-	-	-	-	719,424
	NYS Budget Transfer	90,000,000	-	-	-	-	-	90,000,000
NYS Temporary Budget Transfer	-	-	-	-	-	-	-	
CEF	Transfer to/(from) Clean Energy Fund	130,437,540	33,789,264	33,789,264	22,000,000	22,000,000	22,000,000	230,226,804
Administration and Other Non-Program Costs	Program Administration	39,596,359	7,500,000	7,500,000	12,800,000	12,800,000	12,800,000	85,496,359
	Program Evaluation	9,155,429	-	-	1,000,000	1,000,000	1,000,000	12,155,429
	Commensurate Benefit/Litigation reserve	21,900,366	-	-	-	-	-	21,900,366
	RGGI Inc Startup Costs	1,598,204	-	-	-	-	-	1,598,204
	RGGI Inc pro-rata costs	9,183,667	825,000	825,000	825,000	825,000	825,000	12,483,667
	State Cost Recovery	14,085,353	1,173,687	1,204,304	1,673,939	1,603,500	1,533,061	20,100,157
	Total Funding Allocations	1,465,066,385	149,287,951	173,818,568	185,535,913	185,998,998	155,030,054	2,165,449,918
Unprogrammed/(Overcommitment)		-	-	76,869,793	(18,072,971)	(25,584,000)	(1,665,000)	31,547,822
Cumulative Unprogrammed/(Overcommitment)		-	-	76,869,793	58,796,822	33,212,822	31,547,822	31,547,822

Note: *Totals may not sum exactly due to rounding. Fiscal years begin on April 1st and end on March 31st.
Highlighted programs indicate newly funded programs or additional funding to existing programs

Table 2: RGGI Cash Flow

Category		Cumulative 3/31/21	FY21-22	FY22-23	FY23-24	FY24-25	Thereafter
Proceeds	Number of allowances	412,511,868	22,706,145	20,924,243	20,043,750	19,163,257	
	Allowance price	\$3.51	\$11.04	\$8.00	\$8.00	\$8.00	
	RGGI Auction Proceeds	1,446,909,689	250,634,361	167,393,942	160,349,998	153,306,054	
	Interest Earnings	18,156,697	54,000	69,000	66,000	60,000	
	Total Revenues	1,465,066,385	250,688,361	167,462,942	160,415,998	153,366,054	
Renewable Energy	NY SUN NYPA Customer Incentives	4,072,420	3,000,000	8,000,000	8,000,000	3,500,000	3,427,580
	NY SUN Community Solar/K-solar	1,209,292	200,000	1,200,000	1,200,000	1,200,000	2,490,708
	NY SUN Long Island incentives	47,611,962	500,000	3,500,000	3,388,038	-	-
	Residential PV Plus Storage	-	-	-	1,000,000	3,000,000	5,000,000
	Renewable Heat NY	9,317,387	434,536	363,910	184,250	-	-
	Community Heat Pump Systems	-	-	1,500,000	3,500,000	3,500,000	1,200,000
	Advanced Renewable Energy	2,837,698	-	-	-	-	-
	NYS Generation Attributes Tracking System	585,409	102,262	102,262	-	-	-
	NYSERDA PV incentives	5,319,821	-	-	-	-	-
Energy Efficiency	Clean Energy Workforce Opportunity Program	15,000,000	-	-	-	-	-
	LIPA Efficiency and RE	229,600,000	20,000,000	20,000,000	20,000,000	20,000,000	-
	Energy Storage (LIPA territory)	1,178,825	1,417,061	1,500,000	2,500,000	3,000,000	3,330,548
	NYC Retail Storage	-	-	-	-	1,000,000	19,000,000
	EmPower Plus	53,530,393	1,500,000	13,500,000	14,500,000	14,000,000	6,445,512
	Pilot Projects with Municipal Utilities	-	-	1,000,000	1,000,000	1,000,000	-
	Disadvantaged Communities Schools/Buildings	-	50,000	3,040,000	6,360,000	13,130,000	26,820,000
	Multifamily Performance Program	14,711,711	162,752	172,220	-	-	-
	Multifamily Carbon Emissions Reduction	5,833,019	-	-	-	-	-
	Solar Thermal incentive	4,226,947	-	-	-	-	-
	Municipal Water/Wastewater	1,245,242	-	-	-	-	-
	Green Residential Buildings	2,744,601	-	-	-	-	-
Innovative GHG Abatement Strategies	Southern Tier Competition (76 West)	10,223,649	444,830	331,521	-	-	-
	Brookhaven National Lab- ION Collider	24,999,638	362	-	-	-	-
	Electric Vehicle/Charge NY	22,503,073	34,392,580	35,000,000	30,000,000	30,000,000	4,404,347
	Advanced Buildings & Industrial Innovations	10,854,772	500,000	1,000,000	500,000	452,882	-
	Climate Research & Analysis	8,618,850	41,516	68,930	-	-	-
	Competitive GHG Reduction Pilot	972,650	-	-	-	-	-
	Clean Energy Business Development	5,625,889	-	184,098	-	-	-
	Transportation Research	3,773,206	46,105	-	-	-	-
	Natural Carbon Solutions	-	-	1,000,000	1,000,000	1,000,000	4,000,000
	Equity and Climate Transformation Research	-	-	400,000	400,000	400,000	1,400,000
	Climate Mitigation and Resilience Research	-	-	300,000	700,000	500,000	-
	PV Manufacturing consortium	8,480,000	-	-	-	-	-
Carbon Sequestration	1,000,000	-	-	-	-	-	
Community Clean Energy	Cleaner Greener Communities	72,584,734	2,447,830	3,710,503	7,579,029	7,761,693	178,106
	Clean Energy Communities	1,505,713	500,000	775,000	1,750,000	2,200,000	9,542,407
	Climate Smart Communities	5,003,147	500,000	768,212	644,808	529,586	229,246
	Community Energy Engagement	515,755	516,162	976,165	597,979	597,979	1,195,960
	Economic Development Growth Extension	5,562,723	-	280,324	-	-	-
	Energy to Lead	699,049	389,391	500,000	500,000	500,000	411,560
	Renewable/Net-Zero Energy Demonstrations	3,000,000	2,000,000	250,000	1,250,000	1,000,000	-
	Healthy New Home Design & Construction Challenge	-	-	500,000	1,000,000	3,000,000	2,500,000
	Workforce Development Talent Pipeline Priority Population	-	55,868	3,029,000	4,328,000	6,058,000	5,529,132
	Clean Energy Hubs	-	-	3,000,000	3,000,000	3,000,000	1,000,000
	Climate Action Consumer Awareness & Education	-	-	500,000	3,500,000	3,000,000	3,000,000
	Air Monitoring	-	8,000,000	-	-	-	-
	Regional Economic Development & GHG Reduction	9,807,611	238,832	200,000	-	-	-
Directed	NYS Environmental Tax Credits	156,000,000	23,000,000	-	-	-	-
	NYS Environmental Protection Fund	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	-
	Electric Generation Facility Cessation Mitigation	45,000,000	2,500,000	2,500,000	-	-	-
	Green Jobs-Green NY- Original Legislation	112,000,000	-	-	-	-	-
	Green Jobs-Green NY- Additional Funding	142,725,275	12,000,000	29,936,974	4,370,498	14,071,993	-
	Transfer to Clean Energy Standard	719,424	-	-	-	-	-
	NYS Budget Transfer	90,000,000	-	-	-	-	-
	NYS Temporary Budget Transfer	5,012,649	(166,000)	(859,581)	(3,306,082)	(680,986)	-
CEF	Transfer to Clean Energy Fund	130,437,540	33,789,264	22,000,000	22,000,000	22,000,000	-
	Transfer to NY Green Bank	-	-	-	-	-	-
Administration and Other Non-Program Costs	Program Administration	39,380,934	7,715,425	12,800,000	12,800,000	12,800,000	-
	Program Evaluation	6,162,155	300,000	500,000	1,000,000	1,000,000	3,193,274
	Commensurate Benefit/Litigation reserve	21,900,366	-	-	-	-	-
	RGGI Inc Startup Costs	1,598,204	-	-	-	-	-
	RGGI Inc pro-rata costs	8,644,798	825,000	825,000	825,000	825,000	538,869
	State Cost Recovery	13,840,970	1,186,306	1,303,094	1,401,935	1,452,199	885,177
Total Expenses	1,373,177,501	163,590,082	180,657,631	162,473,455	179,798,347	105,722,426	
Cash Increase/(Decrease)	91,888,884	87,098,279	(13,194,689)	(2,057,457)	(26,432,293)	(105,722,426)	
Cash Balance	91,888,884	178,987,163	165,792,474	163,735,017	137,302,724	31,580,298	

Note: *Totals may not sum exactly due to rounding. Fiscal years begin on April 1st and end on March 31st.
Highlighted programs indicate newly funded programs or additional funding to existing programs

Appendix 1

RGGI Commitments Benefiting Disadvantaged Communities

Category	Program	Cumulative Commitments 12/31/19	Estimated LMI/ Disadvantaged Community Benefit	%	SUBJECT TO CLCPA			Total	
					Post-2019 Commitments	Estimated LMI/ Disadvantaged Community Benefit	%		
SUBJECT TO CLCPA	Renewable Energy	NY SUN NYPA Customer Incentives	9,706,046	3,397,116	35%	20,293,954	7,102,884	35%	30,000,000
		NY SUN Community Solar/K-solar	1,249,272	-	0%	6,250,728	-	0%	7,500,000
		NY SUN Long Island incentives	51,200,565	-	0%	3,799,435	-	0%	55,000,000
		Residential PV Plus Storage	-	-	40%	9,000,000	3,600,000	40%	9,000,000
		Renewable Heat NY	9,634,826	-	0%	665,257	-	0%	10,300,083
		Community Heat Pump Systems	-	-	66%	9,700,000	6,402,000	66%	9,700,000
		Advanced Renewable Energy	2,837,698	-	0%	-	-	0%	2,837,698
		NYS Generation Attributes Tracking System	789,933	-	0%	-	-	0%	789,933
	NYSDERDA PV incentives	5,319,821	-	0%	-	-	0%	5,319,821	
	Energy Efficiency	Clean Energy Workforce Opportunity Program	15,000,000	-	0%	-	-	0%	15,000,000
		LIPA Efficiency and RE	204,600,000	61,380,000	30%	105,000,000	31,500,000	30%	309,600,000
		Energy Storage (LIPA territory)	301,575	-	0%	12,624,859	-	0%	12,926,434
		NYC Retail Storage	-	-	0%	20,000,000	8,000,000	40%	20,000,000
		EmPower Plus	52,857,971	52,857,971	100%	50,617,934	29,617,934	59%	103,475,905
		Pilot Projects with Municipal Utilities	-	-	35%	3,000,000	1,050,000	35%	3,000,000
		Disadvantaged Communities Schools/Buildings	-	-	100%	49,400,000	49,400,000	100%	49,400,000
		Multifamily Performance Program	15,046,683	-	0%	-	-	0%	15,046,683
		Multifamily Carbon Emissions Reduction	5,833,019	-	0%	-	-	0%	5,833,019
		Solar Thermal incentive	4,226,947	-	0%	-	-	0%	4,226,947
		Municipal Water/Wastewater	1,245,242	-	0%	-	-	0%	1,245,242
	Green Residential Buildings	2,744,601	-	0%	-	-	0%	2,744,601	
	Innovative GHG Abatement Strategies	Southern Tier Competition (76 West)	10,262,850	-	0%	737,150	-	0%	11,000,000
		Brookhaven National Lab- ION Collidor	25,000,000	-	0%	-	-	0%	25,000,000
		Electric Vehicle/Charge NY	11,188,399	-	0%	145,111,601	30,516,740	21%	156,300,000
		Advanced Buildings & Industrial Innovations	13,307,654	-	0%	-	-	0%	13,307,654
		Climate Research & Analysis	8,729,296	-	0%	-	-	0%	8,729,296
		Competitive GHG Reduction Pilot	972,650	-	0%	-	-	0%	972,650
		Clean Energy Business Development	5,809,987	-	0%	-	-	0%	5,809,987
Transportation Research		3,819,311	-	0%	-	-	0%	3,819,311	
Natural Carbon Solutions		-	-	50%	7,000,000	3,500,000	50%	7,000,000	
Equity and Climate Transformation Research		-	-	100%	2,600,000	2,600,000	100%	2,600,000	
Climate Mitigation and Resilience Research		-	-	0%	1,500,000	-	0%	1,500,000	
PV Manufacturing consortium		8,480,000	-	0%	-	-	0%	8,480,000	
Carbon Sequestration		1,000,000	-	0%	-	-	0%	1,000,000	
Community Clean Energy	Cleaner Greener Communities	94,261,895	-	0%	-	-	0%	94,261,895	
	Clean Energy Communities	2,086,963	-	0%	14,186,157	4,539,570	32%	16,273,120	
	Climate Smart Communities	5,321,157	-	0%	2,353,842	-	0%	7,674,999	
	Community Energy Engagement	675,730	-	0%	3,724,270	3,000,000	81%	4,400,000	
	Economic Development Growth Extension	5,562,723	-	0%	280,324	-	0%	5,843,047	
	Energy to Lead	3,000,000	-	0%	-	-	0%	3,000,000	
	Renewable/Net-Zero Energy Demonstrations	3,000,000	-	0%	4,500,000	-	0%	7,500,000	
	Healthy New Home Design & Construction Challenge	-	-	0%	7,000,000	-	0%	7,000,000	
	Workforce Development Talent Pipeline Priority Population	-	-	0%	19,000,000	10,350,000	54%	19,000,000	
	Clean Energy Hubs	-	-	100%	10,000,000	10,000,000	100%	10,000,000	
	Climate Action Consumer Awareness & Education	-	-	50%	10,000,000	5,000,000	50%	10,000,000	
	Air Monitoring	-	-	100%	8,000,000	8,000,000	100%	8,000,000	
	Regional Economic Development & GHG Reduction	10,246,443	-	0%	-	-	0%	10,246,443	
Directed	NYS Environmental Tax Credits	133,000,000	19,950,000	15%	46,000,000	6,900,000	15%	179,000,000	
	NYS Environmental Protection Fund	-	-	35%	25,000,000	8,750,000	35%	25,000,000	
	Electric Generation Facility Cessation Mitigation/ Just Transition	30,000,000	30,000,000	100%	20,000,000	20,000,000	100%	50,000,000	
	Green Jobs-Green NY- Original Legislation	112,000,000	39,200,000	35%	-	-	35%	112,000,000	
	Green Jobs-Green NY- Additional Funding	105,025,275	36,758,846	35%	98,079,465	60,809,268	62%	203,104,740	
	Transfer to Clean Energy Standard	719,424	-	0%	-	-	0%	719,424	
	NYS Budget Transfer	90,000,000	-	0%	-	-	0%	90,000,000	
	SUBTOTAL	1,066,063,956	243,543,933	23%	715,424,976	310,638,397	43%	1,781,488,932	
Excluded	Administration and Other Non-Program Costs	Transfer to/from Clean Energy Fund	73,790,932	-	-	156,435,872	-	-	230,226,804
		Program Administration	31,931,071	-	-	53,565,288	-	-	85,496,359
		Program Evaluation	5,999,519	-	-	6,155,910	-	-	12,155,429
		Commensurate Benefit/Litigation reserve	21,900,366	-	-	-	-	-	21,900,366
		RGGI Inc Startup Costs	1,598,204	-	-	-	-	-	1,598,204
		RGGI Inc pro-rata costs	7,746,048	-	-	4,737,619	-	-	12,483,667
		State Cost Recovery	12,606,619	-	-	7,493,538	-	-	20,100,157
		SUBTOTAL	155,572,759	-	-	228,388,227	-	-	383,960,986
TOTAL	1,221,636,715	243,543,933	23%	943,813,203	310,638,397	43%	2,165,449,918		