

# **New York’s Regional Greenhouse Gas Initiative Operating Plan Amendment for 2022**

## **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 NYSEDA 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.
- NYSEDA 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 NYSEDA regulations include a provision to annually convene a group of stakeholders representing a broad array of energy and environmental interests. This group advises NYSEDA regarding strategies to best utilize RGGI funds. NYSEDA’s RGGI Operating Plan is reviewed and revised on an annual basis. NYSEDA 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 2021 Operating Plan Amendment was presented to stakeholders for comment in December 2020 and was approved by NYSEDA's Board in January 2021. The 2021 Operating Plan was then compiled based on the NYSEDA Board approval.

This document represents the 2022 Operating Plan Amendment and provides program descriptions and funding levels through March 2025. Appendix 1 provides an analysis of the revenues and program funding allocations planned for the fiscal years ending March 31<sup>st</sup>, as compared to actual/projected results.

## **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 activity 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 9.

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 CO<sub>2</sub> 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 [CO<sub>2</sub> Allowance Auctions] proceeds" will be realized in disadvantaged communities. Appendix 2 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 2 tracks post-2019 cumulative commitments, as this is the timeframe in which benefits are subject to the Climate Act. NYSERDA estimates that 42% 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 Plan Amendment 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.

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

## **Program Descriptions**

### **Residential PV Plus Storage**

The Amendment proposes \$9 million in FY23-25 to provide incentives to new and existing residential solar projects coupled with new energy storage. This program would allocate \$3 million to Long Island and \$6 million targeting the rest of the state. The program is expected to deliver 2,000 - 3,000 residential storage systems over more than two years, totaling around 10 megawatts (MW) of storage. Similar to the current offering on Long Island, the rest of state engagement is anticipated to leverage utilities by region. These storage projects will provide renewable resource integration, peak power support to the utility (e.g., virtual power plants, dynamic load management, other), with resiliency and clean power to homeowners.

### **Community Heat Pump Systems**

Heat pump technology has become a proven decarbonization solution, providing buildings with clean thermal energy for space heating, cooling and domestic hot water. Existing heat pump programs to-date have targeted customers on an individual building-by-building basis, but community heat pump systems use a network of pipes to share heating water

among a cluster of buildings. The Amendment proposes \$9.7 million in FY23-25 to implement community heat pump systems as part of a statewide program. This program will also provide support for systems in state and local government facilities, as well as Affordable Housing Developments. A community-based program will develop the infrastructure for larger-scale distribution and accelerate the deployment of heat pump systems across the state.

### **LIPA Energy Efficiency and Renewable Energy**

These funds enhance the portfolio of clean energy activities for energy consumers on Long Island, as approved by the Long Island Power Authority (LIPA) and administered by PSEG-Long Island. Funding and reporting requirements are established through a Memorandum of Understanding between NYSERDA and LIPA, which ensure that RGGI funds meet the requirements of the RGGI regulations that funds are used to support energy efficiency and clean energy activities, as well as advancing the goal of benefits of investments in disadvantaged communities. For this 3-year budget proposal, this operating plan amendment proposes to repurpose \$40 million in previously approved funds for energy storage projects on Long Island. LIPA has agreed to procure 200 megawatts of bulk storage or non-wires alternatives storage, allowing funds originally allocated for storage incentives on Long Island to be repurposed to support continuation of funding for LIPA's energy efficiency program. NYSERDA is working with LIPA to maintain the level of market activity designed with the previous RGGI allocations. With this funding re-allocation, as well as additional funds, the Operating Plan is proposed to maintain support for LIPA-implemented energy efficiency and clean energy activity in the amount of \$20 million each year for the calendar years 2022-2024. The LIPA Board of Trustees approves an annual energy efficiency program plan, which details the activities that these funds will support.

### **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 of municipal utilities and/or customers using delivered fuel, which cannot be funded through the Clean Energy Fund, 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. An additional \$8 million in proposed funding over FY22-25 will fund high-efficiency electrification upgrades for low- and moderate- income municipal utility customers using electric resistance heating or delivered fuels.

### **Disadvantaged Communities Schools and Buildings**

The Amendment proposes an additional \$12 million through FY24-25 to fund high-performance energy efficiency and electrification in affordable housing. NYSERDA has partnerships in place with NYS Homes and Community Renewal (HCR), NYC Housing Preservation and Development (HPD) and the New York City Housing Authority (NYCHA) and seeks to continue supporting decarbonization projects with these agencies. In particular, this funding will allow HCR-regulated affordable housing located in non-SBC territories, including municipal electric territory or Long Island, to access building decarbonization grant funding as part of HCR's financing processes and 2) provide training, technical assistance, and strategic planning resources to support NYC HPD's development of a long-term portfolio-wide decarbonization strategy. Additionally, this initiative will support work with public housing authorities, like NYCHA, to decarbonize building with an emphasis on advancing packaged heat pump systems to develop clean heat for all.

Also, the Clean Green Schools Initiative will provide low-carbon solutions for schools located within disadvantaged communities. The Amendment proposes \$5 million of the \$12 million expansion over the three-year plan to invest in K-12 STEM, workforce activities, hands-on training, and technical training scholarships for students within disadvantaged communities. This program will meaningfully increase the number of students from within DAC schools who are trained on clean energy solutions, have on the job training and internships with companies, have scholarships for additional education including vocational training, and create family-sustaining jobs within the clean energy workforce.

## **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, municipal lots, and multi-family buildings – location types that have been seen to be effective drivers for PEV adoption based on usage data reported from previous installations. Regions of the State that have seen faster PEV adoption will be identified for additional charging station support, which ensures investments in infrastructure support areas with the greatest potential for additional PEV drivers. This Operating Plan Amendment proposes to provide additional funding of \$35 million from FY22-23 through FY24-25 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.

## **Natural Carbon Solutions**

Achieving a net-zero carbon economy will require reducing emissions across all sectors. The agriculture and forestry sectors are looked upon to contribute carbon sequestration (i.e., negative emissions) as well as emissions reductions. The amendment proposes \$7 million over FY22-25 to catalyze technology and business solutions and lay the foundation for an economically self-sustaining bio-economy in New York State. By establishing a marketplace of natural emissions-lowering solutions the program will demonstrate pathways to support disadvantaged rural communities, economic development, existing agriculture, and forestry industries, while increasing jobs and revenue.

## **Equity and Climate Transformation Research**

The amendment proposes an allocation of \$2 million over FY22-25 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.

### **Climate Mitigation and Resilience Research**

The proposed allocation of \$1.5 million over FY22-24 seeks to support additional work done by the Climate Action Council Integration Analysis team and leverage current research investment to expand on energy and environmental analyses. This would include additional sensitivity analyses on land-use and climate change impact scenarios. This research would map out the risks and vulnerabilities related to climate change impacts for both the business-as-usual energy system and the carbon neutral energy system.

### **Healthy New Home Design & Construction Challenge**

The Amendment proposes a \$7 million investment to go towards creating a healthy home builder and developer network to get builders to design and offer carbon neutral homes. Funding will also be used to run a healthy Neighborhood Design Challenge to support all electric sub-divisions and planned communities, as well as promote the benefits of healthy homes. Through this program, we can accelerate the pivot to decarbonization of residential new construction and build market capability across (i.e., focus on Long Island area to complement existing activities already using Clean Energy Funds elsewhere in the state), which will support requiring decarbonized new construction via code and regulations on an accelerated 5-year track.

### **Workforce Development Talent Pipeline & Priority Population**

The proposed allocation of \$8 million over the three-year plan focusing on the workforce development talent pipeline and priority populations. Specifically, to expand access to NYSERDA's On-the-Job Training program, will provide wage subsidies to businesses that hire new workers in clean energy positions and career pathways training to prepare new and incumbent workers for clean energy jobs. All activities will have a focus on priority populations and disadvantaged communities.

### **Clean Energy Hubs: Community and Stakeholder Engagement**

NYSERDA will continue building local capacity within disadvantaged communities and improve stakeholder engagement through this Amendment, which proposes \$10 million in additional funding from FY22-23 through FY24-25 to increase engagement of residents and communities in New York City, support the participation of community-based and advocacy organizations in stakeholder meetings, and supporting local projects. This will leverage the more than \$4 million for Clean Energy Hubs supported by the Clean Energy Fund. In 2022, NYSERDA will launch a network of Community Energy Hubs, which will build on the success of the Community Energy Engagement Program, wherein community and locally-based organizations across New York State provided outreach and education services to help low-income residents and small businesses make informed energy choices and access incentives and other resources to implement clean energy projects. The Hubs will be designed to enhance community-level engagement and capacity building by supporting clean energy concierge services. These services will be provided to

residents, small businesses, nonprofits, and multifamily building owners in disadvantaged and underserved communities to increase awareness and adoption of clean energy programs and solutions, with the focus of creating a more inclusive clean energy economy.

In addition, NYSERDA will help to increase the capacity of organizations to advance clean energy projects at the local level. NYSERDA will advance a pilot effort to increase the potential for community-based organizations to plan for and develop community-scale clean energy projects that can benefit disadvantaged communities with capacity development grants. Funds allocated in this operating plan will allow for statewide activities alongside efforts supported through the Clean Energy Fund.

NYSERDA will also seek to improve the ability for community-based organizations to actively participate, and formalize the process, for stakeholder engagement. Many local organizations often lack the resources and capacity to effectively engage on policy and initiative development, often excluding perspectives from their communities and constituents from the planning process. To ensure that community-based organizations have the resources to engage in stakeholder meetings and public comment processes, NYSERDA will allocate resources to provide stipends to offset the cost of participation as part of a pilot initiative to identify solutions for improving and increasing stakeholder engagement.

### **Climate Action Consumer Awareness & Education**

The amendment proposes \$10 million over three years to increase awareness and understanding of the critical need for and benefits of climate action in New York State. This investment will include an umbrella campaign to encourage broad engagement that is coordinated with a targeted marketing effort to impact the purchase decisions and actions that are needed to reach the State's goals. The targeted effort will address specific barriers across critical sectors and encourage adoption of new technologies that will improve quality of life and help decarbonize our buildings and economy.

### **Community Air Monitoring**

The amendment proposes \$8 million to support a program for community air monitoring. The statewide initiative will be designed to monitor air quality in 10 disadvantaged communities, home to approximately five million New Yorkers living in areas historically overburdened by environmental pollution. Using cloud-based software coupled with air monitoring technology, this initiative will be a first-of-its-kind effort to measure hyperlocal, community-based air pollution levels. The initiative will collect this hyperlocal data to inform solutions to reduce greenhouse gases and other harmful air pollutants.

### **Clean Energy Fund**

Through the Clean Energy Fund (CEF) and its portfolios, NYSERDA is advancing the goals of the Climate Leadership and Community Protection Act (Climate Act). As approved by the Commission, the CEF delivers on its primary goals to reduce greenhouse gas emissions, increase renewable energy generation, increase energy efficiency, and attract greater private investment in clean energy, with investment portfolios that are designed to achieve scale in clean energy markets. These key CEF objectives dovetail with the RGGI investment parameters, creating a unique opportunity to leverage CEF and RGGI funds to help achieve New York's broader Climate Act and clean energy



objectives. In designing the CEF, NYSERDA planned to dedicate \$250 million in RGGI funds to the CEF portfolio over 10 years, supporting the \$3.42 billion Market Development and Innovation and Research activities.

In keeping with this plan, while accounting for new revenue and commitment projections, NYSERDA will allocate to the CEF \$34 million in FY21-22 and \$22 million annually through FY24-25.

### **Green Jobs-Green New York**

The Green Jobs-Green New York (GJGNY) Program, created under the Green Jobs-Green New York Act of 2009, provides New Yorkers with access to energy assessments, installation services, low interest financing, and pathways to training for various green-collar careers. The GJGNY program was originally funded with \$112 million of RGGI funds, of which \$26 million was allocated to a residential revolving loan fund to provide low interest financing for residential energy efficiency improvements, residential solar photovoltaic (PV) systems (effective April 2014), solar thermal systems, and high efficiency pellet stove heating systems through NYSERDA's Renewable Heat NY program. Interest rate changes reviewed with the GJGNY Advisory Council and effectuated in September 2016 are resulting in a reduced level of RGGI funds required to support the financing and refinancing of GJGNY loans.

In June of 2020, as part of our pandemic economic stimulus portfolio, NYSERDA launched a 0% financing loan initiative available for up to 12 months or until \$20 million in loans were approved. Demand far exceeded estimates after only 15 days. Most of these loans were issued in FY20-21 and funded from the revolving loan fund (resulting in an increase in the funding allocation required for the program for FY20-21). Loan participation sales partially reimbursed the funding in FY21-22. The Amendment proposes RGGI funding totaling approximately \$48 million from FY22-23 through FY24-25 (an average of approximately \$16 million per year) for continuation of GJGNY residential financing, including making 3.49% 15-year unsecured financing available to consumers living in federal census block groups where more than 50 percent of households have household income less than 120% of area median income (and allowing consumers living outside of these communities to qualify for this rate if they meet this income threshold), and also offering access to financing for consumers who may not qualify for traditional unsecured loan underwriting criteria and meet NYSERDA's "Tier 2" underwriting criteria.

### **Transfer to State – Clean Energy Tax Credits**

The New York State Budget for FY21-22 directed NYSERDA to transfer \$23 million in RGGI funds to the State General Fund to support clean energy tax credits. For the purpose of developing this proposed Operating Plan Amendment, NYSERDA assumes that the annual State Budget for FY22-23 through FY24-25 will include similar directives and has therefore allocated \$69 million in funding for such transfers for FY22-23 through FY24-25.

### **Transfer to State – Environmental Protection Fund**

The New York State Budget for FY21-22 directed NYSERDA to transfer \$5 million in RGGI funds to the Environmental Protection Fund (EPF). This operating plan assumes annual funding to support EPF programs that advance New York's leadership in reducing greenhouse gas emissions such as Climate Smart Communities, Smart Growth, and Greenhouse Gas Management.

## **Anticipated Future Funding Allocations**

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 to support additional activities anticipated due to new program activity. As noted, program funding allocations are equal to projected revenues on an annual basis.

## **Funding Assumptions**

This 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. Relatedly, the revised auction allowance for FY21-22 is \$8.32, which is an average of the results of the two RGGI auctions already conducted this fiscal year and the \$8.00 per allowance estimate that is conservatively used going forward, based on a lookback average of the past five auctions, increased by a modest inflationary factor of 2.5% per year.

## **Opportunities for Other Allocations**

New York has some of the most ambitious clean energy and decarbonization policies in the country, and NYSERDA has planned several initiatives and programmatic activities that are commensurate with the goals put forward in those policies.

In the event that future auction proceeds exceed the budgets presented in Table 1, NYSERDA intends to allocate additional funding to the program “Community Heat Pump Systems” presented on page 2, and also for New York City Retail Storage to establish a retail storage incentive block for New York City.

Funding 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.

Another funding opportunity is to support targeted low-cost financing for Disadvantaged Communities to match potential Federal Funds that may be available. This financing will stimulate energy efficiency and renewable energy upgrades to New York Residences by providing low-cost capital for residential customers. It is intentionally structured to provide low-cost loans helping low-to-moderate income households in historically underserved areas convert to cleaner, healthier heating and electrical systems.

Lastly, additional proceeds can also be allocated to emerging or expanded programs focused on serving consumers in disadvantaged communities and low-to-moderate income households.



**Table 1: Revenues and Program Funding Allocations**

| Category                                   | Program  | Cumulative           |                    |                    |                    |                    | Total                |
|--|--|----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|
|  |  | FY20-21              | FY21-22            | FY22-23            | FY23-24            | FY24-25            |                      |
| Proceeds                                   | Number of allowances   | 412,511,868          | 21,502,096         | 20,924,243         | 20,043,750         | 19,163,257         | 494,145,213          |
|  | Allowance price  | \$3.51               | \$8.32             | \$8.00             | \$8.00             | \$8.00             | \$4.26               |
|  | RGGI Auction Proceeds  | 1,446,909,689        | 178,881,539        | 167,393,942        | 160,349,998        | 153,306,054        | 2,106,841,222        |
|  | Interest Earnings  | 18,156,696           | 217,000            | 237,000            | 224,000            | 199,000            | 19,033,696           |
|  | <b>Total Revenues</b>  | <b>1,465,066,385</b> | <b>179,098,539</b> | <b>167,630,942</b> | <b>160,573,998</b> | <b>153,505,054</b> | <b>2,125,874,918</b> |
| Renewable Energy                           | NY SUN NYPA Customer Incentives                                    | 26,000,000           | 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         | 309,600,000          |
|  | Energy Storage (LIPA territory)                                    | 12,926,434           |                    |                    |                    |                    | 12,926,434           |
|  | EmPower Plus   | 53,975,905           | 1,500,000          | 3,000,000          | 3,000,000          | 3,000,000          | 64,475,905           |
|  | Pilot Projects with Municipal Utilities                            | -                    | 1,000,000          | 1,000,000          | 1,000,000          |                    | 3,000,000            |
|  | Disadvantaged Communities Schools/Buildings                        | -                    | 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 Collidor                              | 25,000,000           |                    |                    |                    |                    | 25,000,000           |
|  | Electric Vehicle/Charge NY   | 23,500,000           | 21,500,000         | 42,400,000         | 8,000,000          | 15,900,000         | 111,300,000          |
|  | 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                         | -                    | -                  |                    | 1,000,000          | 1,000,000          | 2,000,000            |
|  | Climate Mitigation and Resilience Research                         | -                    | -                  | 500,000            | 1,000,000          |                    | 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          | 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          |                    | 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          | 500,000            | -                  |                    | 7,500,000            |
|  | Healthy New Homes 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          | 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   | -                    | 2,000,000          | 6,000,000          |                    |                    | 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         | 23,000,000         | 23,000,000         | 248,000,000          |
|  | NYS Environmental Protection Fund                                  | 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         | 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         | 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          | 11,475,000         | 11,475,000         | 11,475,000         | 81,521,359           |
|  | 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            | 12,483,667           |
|  | State Cost Recovery  | 14,085,353           | 1,204,304          | 1,673,939          | 1,603,500          | 1,533,061          | 20,100,157           |
| <b>Total Funding Allocations</b>           |  | <b>1,465,066,385</b> | <b>152,318,568</b> | <b>194,410,913</b> | <b>160,573,998</b> | <b>153,505,054</b> | <b>2,125,874,918</b> |
| Surplus/(Shortfall)                        |  | -                    | 26,779,971         | (26,779,971)       | -                  | -                  | -                    |
| <b>Cumulative Surplus(Shortfall)</b>       |  | <b>-</b>             | <b>26,779,971</b>  | <b>-</b>           | <b>-</b>           | <b>-</b>           | <b>-</b>             |

Highlighted programs indicate newly funded programs or additional funding to existing programs

**Table 2: RGGI Cash Flow**

| Category  |   | Cumulative<br>3/31/21 | FY21-22            | FY22-23            | FY23-24            | FY24-25            | Thereafter        |
|---|---|-----------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| <b>Proceeds</b>                                   | Number of allowances                                      | 412,511,868           | 21,502,096         | 20,924,243         | 20,043,750         | 19,163,257         |                   |
|   | Allowance price   | \$3.51                | \$8.32             | \$8.00             | \$8.00             | \$8.00             |                   |
|   | RGGI Auction Proceeds                                     | 1,446,909,689         | 178,881,539        | 167,393,942        | 160,349,998        | 153,306,054        |                   |
|   | Interest Earnings   | 18,156,697            | 217,000            | 237,000            | 224,000            | 199,000            |                   |
|   | <b>Total Revenues</b>                                     | <b>1,465,066,385</b>  | <b>179,098,539</b> | <b>167,630,942</b> | <b>160,573,998</b> | <b>153,505,054</b> |                   |
| <b>Renewable Energy</b>                           | 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                               | -                     | -                  | -                  | 1,000,000          | 3,000,000          | 5,700,000         |
|   | Advanced Renewable Energy                                 | 2,837,698             | -                  | -                  | -                  | -                  | -                 |
|   | NYS Generation Attributes Tracking System                 | 585,409               | 102,262            | 102,262            | -                  | -                  | -                 |
|   | NYSEERDA PV incentives                                    | 5,319,821             | -                  | -                  | -                  | -                  | -                 |
| <b>Energy Efficiency</b>                          | 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         |
|   | EmPower Plus  | 53,530,393            | 1,500,000          | 1,500,000          | 2,500,000          | 2,000,000          | 3,445,512         |
|   | 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   | -                     | -                  | -                  | -                  | -                  |                   |
| <b>Innovative GHG Abatement Strategies</b>        | Southern Tier Competition (76 West)                       | 10,223,649            | 444,830            | 331,521            | -                  | -                  | -                 |
|   | Brookhaven National Lab- ION Collidor                     | 24,999,638            | 362                | -                  | -                  | -                  | -                 |
|   | Electric Vehicle/Charge NY                                | 22,503,073            | 22,878,755         | 21,000,000         | 21,000,000         | 21,000,000         | 2,918,172         |
|   | 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                | -                     | -                  | -                  | 200,000            | 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             | -                  | -                  | -                  | -                  | -                 |
| <b>Community Clean Energy</b>                     | 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 Homes 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  | -                     | 2,000,000          | 6,000,000          | -                  | -                  | -                 |
|   | Regional Economic Development & GHG Reduction             | 9,807,611             | 238,832            | 200,000            | -                  | -                  | -                 |
| <b>Directed</b>                                   | NYS Environmental Tax Credits                             | 156,000,000           | 23,000,000         | 23,000,000         | 23,000,000         | 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)          | -                 |
| <b>CEF</b>  | 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                                 | -                     | -                  | -                  | -                  | -                  | -                 |
| <b>Administration and Other Non-Program Costs</b> | Program Administration                                    | 39,380,934            | 7,715,425          | 11,475,000         | 11,475,000         | 11,475,000         | -                 |
|   | 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            | 1,050,816          | 1,355,533          | 1,439,478          | 1,504,559          | 908,801           |
| <b>Total Expenses</b>                             |   | <b>1,373,177,501</b>  | <b>145,940,767</b> | <b>180,485,070</b> | <b>160,485,998</b> | <b>179,025,707</b> | <b>86,759,875</b> |
| Cash Increase/(Decrease)                          |   | 91,888,884            | 33,157,772         | (12,854,128)       | 88,000             | (25,520,653)       | (86,759,875)      |
| <b>Cash Balance</b>                               |   | <b>91,888,884</b>     | <b>125,046,656</b> | <b>112,192,528</b> | <b>112,280,528</b> | <b>86,759,876</b>  | <b>0</b>          |

Highlighted programs indicate newly funded programs or additional funding to existing programs

**Appendix 1**

**January 2021 Operating Plan Revenues and Program Funding Allocations Compared to Actuals/Projections**

| Category  | Program  | FY20-21<br>Revised Plan | FY20-21<br>Actual  |
|---|--|-------------------------|--------------------|
| <b>Proceeds</b>                                   | Number of allowances   | 20,308,920              | 20,323,443         |
|   | Allowance price  | \$6.70                  | \$6.92             |
|   | RGGI Auction Proceeds  | 136,141,216             | 140,560,177        |
|   | Interest Earnings  | 199,000                 | 235,000            |
|   | <b>Total Revenues</b>  | <b>136,340,216</b>      | <b>140,795,177</b> |
| <b>Renewable Energy</b>                           | NY SUN NYPA Customer Incentives                                    | 6,000,000               | 6,000,000          |
|   | NY SUN Community Solar/K-solar                                     | -                       | -                  |
|   | NY SUN Long Island incentives                                      | -                       | -                  |
|   | Renewable Heat NY  | -                       | -                  |
|   | Advanced Renewable Energy  | -                       | -                  |
|   | NYS Generation Attributes Tracking System                          | -                       | -                  |
|   | NYSERDA PV incentives  | -                       | -                  |
| <b>Energy Efficiency</b>                          | Clean Energy Workforce Opportunity Program                         | -                       | -                  |
|   | LIPA Efficiency and RE   | 25,000,000              | 25,000,000         |
|   | Energy Storage (LIPA territory)                                    | (40,000,000)            | (40,000,000)       |
|   | EmPower NY   | 200,000                 | 300,000            |
|   | Assisted Home Performance with Energy Star                         | 300,000                 | 200,000            |
|   | Multifamily Performance Program                                    | (115,633)               | (115,633)          |
|   | Multifamily Carbon Emissions Reduction                             | -                       | -                  |
|   | Solar Thermal incentive  | (115,730)               | (115,730)          |
|   | Municipal Water/Wastewater   | -                       | -                  |
| Green Residential Buildings                       | -  | -                       |                    |
| <b>Innovative GHG Abatement Strategies</b>        | Southern Tier Competition (76 West)                                | -                       | -                  |
|   | Brookhaven National Lab- ION Collider                              | -                       | -                  |
|   | Electric Vehicle/Charge NY   | -                       | -                  |
|   | Advanced Buildings & Industrial Innovations                        | (1,308,384)             | (1,308,384)        |
|   | Climate Research & Analysis  | (84)                    | (84)               |
|   | Competitive GHG Reduction Pilot                                    | (40,883)                | (40,883)           |
|   | Clean Energy Business Development                                  | -                       | -                  |
|   | Transportation Research  | -                       | -                  |
|   | PV Manufacturing consortium  | (20,000)                | (20,000)           |
| Carbon Sequestration                              | -  | -                       |                    |
| <b>Community Clean Energy</b>                     | Cleaner Greener Communities  | -                       | -                  |
|   | Clean Energy Communities   | -                       | -                  |
|   | Climate Smart Communities  | -                       | -                  |
|   | Community Energy Engagement  | -                       | -                  |
|   | Economic Development Growth Extension                              | -                       | -                  |
|   | Energy to Lead   | -                       | -                  |
|   | Renewable/Net-Zero Energy Demonstrations                           | -                       | -                  |
|   | Regional Economic Development & GHG Reduction                      | (43,502)                | (43,502)           |
| <b>Directed</b>                                   | NYS Environmental Tax Credits                                      | 23,000,000              | 23,000,000         |
|   | NYS Environmental Protection Fund                                  | 5,000,000               | 5,000,000          |
|   | Electric Generation Facility Cessation Mitigation/ Just Transition | 20,000,000              | 20,000,000         |
|   | Green Jobs-Green NY- Original Legislation                          | -                       | -                  |
|   | Green Jobs-Green NY- Additional Funding                            | 37,700,000              | 37,700,000         |
|   | Transfer to Clean Energy Standard                                  | -                       | -                  |
|   | NYS Budget Transfer  | -                       | -                  |
| <b>CEF</b>  | Transfer to(from) Clean Energy Fund                                | 52,338,026              | 56,646,608         |
| <b>Administration and Other Non-Program Costs</b> | Program Administration   | 6,500,000               | 6,500,000          |
|   | Program Evaluation   | -                       | -                  |
|   | Commensurate Benefit/Litigation reserve                            | -                       | -                  |
|   | RGGI Inc Startup Costs   | -                       | -                  |
|   | RGGI Inc pro-rata costs  | 825,000                 | 825,000            |
|   | State Cost Recovery  | 1,121,406               | 1,267,785          |
| <b>Total Funding Allocations</b>                  |  | <b>136,340,216</b>      | <b>140,795,177</b> |
| Surplus/(Shortfall)                               |  | -                       | -                  |
| <b>Cumulative Surplus(Shortfall)</b>              |  | <b>-</b>                | <b>-</b>           |

Appendix 2

RGGI Commitments Benefiting Disadvantaged Communities

| RGGI Commitments                           |  | Cumulative Commitments 12/31/19             | SUBJECT TO CLCPA      |  |            | Total                |             |
|--|--|---|-----------------------|--|------------|----------------------|-------------|
| Category                                   | Program  |   | Post-2019 Commitments | Estimated LMI/ Disadvantaged Community Benefit | %          |                      |             |
| SUBJECT TO CLCPA                           | Renewable Energy   | NY SUN NYPA Customer Incentives             | 9,706,046             | 20,293,954                                     | 7,102,884  | 35%                  | 30,000,000  |
|  |  | NY SUN Community Solar/K-solar              | 1,249,272             | 6,250,728                                      | -          | 0%                   | 7,500,000   |
|  |  | NY SUN Long Island incentives               | 51,200,565            | 3,799,435                                      | -          | 0%                   | 55,000,000  |
|  |  | Residential PV Plus Storage                 | -                     | 9,000,000                                      | 3,600,000  | 40%                  | 9,000,000   |
|  |  | Renewable Heat NY                           | 9,634,826             | 665,257  | -          | 0%                   | 10,300,083  |
|  |  | Community Heat Pump Systems                 | -                     | 9,700,000                                      | 6,402,000  | 66%                  | 9,700,000   |
|  |  | Advanced Renewable Energy                   | 2,837,698             | -  | -          | 0%                   | 2,837,698   |
|  |  | NYS Generation Attributes Tracking System   | 789,933               | -  | -          | 0%                   | 789,933     |
|  |  | NYSEEDA PV incentives                       | 5,319,821             | -  | -          | 0%                   | 5,319,821   |
|  | Energy Efficiency  | Clean Energy Workforce Opportunity Program  | 15,000,000            | -  | -          | 0%                   | 15,000,000  |
|  |  | LIPA Efficiency and RE                      | 204,600,000           | 105,000,000                                    | 31,500,000 | 30%                  | 309,600,000 |
|  |  | Energy Storage (LIPA territory)             | 301,575               | 12,624,859                                     | -          | 0%                   | 12,926,434  |
|  |  | EmPower Plus                                | 52,857,971            | 11,617,934                                     | 11,617,934 | 100%                 | 64,475,905  |
|  |  | Pilot Projects with Municipal Utilities     | -                     | 3,000,000                                      | 1,050,000  | 35%                  | 3,000,000   |
|  |  | Disadvantaged Communities Schools/Buildings | -                     | 49,400,000                                     | 49,400,000 | 100%                 | 49,400,000  |
|  |  | Multifamily Performance Program             | 15,046,683            | -  | -          | 0%                   | 15,046,683  |
|  |  | Multifamily Carbon Emissions Reduction      | 5,833,019             | -  | -          | 0%                   | 5,833,019   |
|  |  | Solar Thermal incentive                     | 4,226,947             | -  | -          | 0%                   | 4,226,947   |
|  |  | Municipal Water/Wastewater                  | 1,245,242             | -  | -          | 0%                   | 1,245,242   |
|  | Green Residential Buildings  | 2,744,601                                   | -                     | -  | 0%         | 2,744,601            |             |
|  | Innovative GHG Abatement Strategies                                | Southern Tier Competition (76 West)         | 10,262,850            | 737,150  | -          | 0%                   | 11,000,000  |
|  |  | Brookhaven National Lab- ION Collider       | 25,000,000            | -  | -          | 0%                   | 25,000,000  |
|  |  | Electric Vehicle/Charge NY                  | 11,188,399            | 100,111,601                                    | 23,766,740 | 24%                  | 111,300,000 |
|  |  | Advanced Buildings & Industrial Innovations | 13,307,654            | -  | -          | 0%                   | 13,307,654  |
|  |  | Climate Research & Analysis                 | 8,729,296             | -  | -          | 0%                   | 8,729,296   |
|  |  | Competitive GHG Reduction Pilot             | 972,650               | -  | -          | 0%                   | 972,650     |
|  |  | Clean Energy Business Development           | 5,809,987             | -  | -          | 0%                   | 5,809,987   |
|  |  | Transportation Research                     | 3,819,311             | -  | -          | 0%                   | 3,819,311   |
|  |  | Natural Carbon Solutions                    | -                     | 7,000,000                                      | 3,500,000  | 50%                  | 7,000,000   |
| Equity and Climate Transformation Research |  | -   | 2,000,000             | 2,000,000                                      | 100%       | 2,000,000            |             |
| Climate Mitigation and Resilience Research |  | -   | 1,500,000             | -  | 0%         | 1,500,000            |             |
| PV Manufacturing consortium                |  | 8,480,000                                   | -                     | -  | 0%         | 8,480,000            |             |
| Carbon Sequestration                       |  | 1,000,000                                   | -                     | -  | 0%         | 1,000,000            |             |
| Community Clean Energy                     | Cleaner Greener Communities  | 94,261,895                                  | -                     | -  | 0%         | 94,261,895           |             |
|  | Clean Energy Communities   | 2,086,963                                   | 14,186,157            | 4,539,570                                      | 32%        | 16,273,120           |             |
|  | Climate Smart Communities  | 5,321,157                                   | 2,353,842             | -  | 0%         | 7,674,999            |             |
|  | Community Energy Engagement  | 675,730                                     | 3,724,270             | 3,000,000                                      | 81%        | 4,400,000            |             |
|  | Economic Development Growth Extension                              | 5,562,723                                   | 280,324               | -  | 0%         | 5,843,047            |             |
|  | Energy to Lead   | 3,000,000                                   | -                     | -  | 0%         | 3,000,000            |             |
|  | Renewable/Net-Zero Energy Demonstrations                           | 3,000,000                                   | 4,500,000             | -  | 0%         | 7,500,000            |             |
|  | Healthy New Home Design & Construction Challenge                   | -   | 7,000,000             | -  | 0%         | 7,000,000            |             |
|  | Workforce Development Talent Pipeline Priority Population          | -   | 19,000,000            | 10,350,000                                     | 54%        | 19,000,000           |             |
|  | Clean Energy Hubs  | -   | 10,000,000            | 10,000,000                                     | 100%       | 10,000,000           |             |
|  | Climate Action Consumer Awareness & Education                      | -   | 10,000,000            | 5,000,000                                      | 50%        | 10,000,000           |             |
|  | Air Monitoring   | -   | 8,000,000             | 8,000,000                                      | 100%       | 8,000,000            |             |
|  | Regional Economic Development & GHG Reduction                      | 10,246,443                                  | -                     | -  | 0%         | 10,246,443           |             |
| Directed                                   | NYS Environmental Tax Credits                                      | 133,000,000                                 | 115,000,000           | 17,250,000                                     | 15%        | 248,000,000          |             |
|  | NYS Environmental Protection Fund                                  | -   | 25,000,000            | 8,750,000                                      | 35%        | 25,000,000           |             |
|  | Electric Generation Facility Cessation Mitigation/ Just Transition | 30,000,000                                  | 20,000,000            | 20,000,000                                     | 100%       | 50,000,000           |             |
|  | Green Jobs-Green NY- Original Legislation                          | 112,000,000                                 | -                     | -  | 35%        | 112,000,000          |             |
|  | Green Jobs-Green NY- Additional Funding                            | 105,025,275                                 | 98,079,465            | 60,809,268                                     | 62%        | 203,104,740          |             |
|  | Transfer to Clean Energy Standard                                  | 719,424                                     | -                     | -  | 0%         | 719,424              |             |
|  | NYS Budget Transfer  | 90,000,000                                  | -                     | -  | 0%         | 90,000,000           |             |
|  | <b>SUBTOTAL</b>  | <b>1,066,063,956</b>                        | <b>679,824,976</b>    | <b>287,638,397</b>                             | <b>42%</b> | <b>1,745,888,932</b> |             |
| Excluded                                   | CEF  | Transfer to(from) Clean Energy Fund         | 73,790,932            | 156,435,872                                    |            | 230,226,804          |             |
|  | Administration and Other Non-Program Costs                         | Program Administration                      | 31,931,071            | 49,590,288                                     |            | 81,521,359           |             |
|  |  | 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           |             |
|  |  | <b>SUBTOTAL</b>                             | <b>155,572,759</b>    | <b>224,413,227</b>                             |            | <b>379,985,986</b>   |             |
| <b>TOTAL</b>                               | <b>1,221,636,715</b>   | <b>904,238,203</b>                          |                       | <b>2,125,874,918</b>                           |            |                      |             |