

*OFFICE OF MARKETS & INNOVATION
CLEAN ENERGY GUIDANCE*

NYSERDA Investment Plan Guidance

Version History Log:

Version	Date Issued	Approval	Changes
1.0	2021-10-13	Marco Padula, Director	N/A

Purpose:

This Clean Energy Guidance document provides guidance to the New York State Energy Research and Development Authority (NYSERDA) on the necessary content and process elements for the filing of the Clean Energy Fund's Market Development and Innovation & Research Portfolios' Investment Plans.

Background:

The Public Service Commission (Commission) authorized the Clean Energy Fund (CEF) in the Order Authorizing the Clean Energy Fund Framework (CEF Framework Order).¹ The CEF includes four distinct portfolios (1) Market Development, (2) Innovation & Research, (3) New York Green Bank and (4) NYSUN. This Guidance document pertains only to the Market Development and Innovative & Research Portfolios. The CEF Framework Order ascribed a progressively built Investment Plan approach whereby NYSERDA files individual Investment Plans, including specific elements as identified in the CEF Framework Order, for Department of Public Service Staff (Staff) review and approval prior to its ability to access the funds.

The Order Approving Clean Energy Fund Modifications (CEF Modifications Order) found that while the Investment Plans produced to date comply with the CEF Framework Order, they are overly wordy, often redundant between initiatives, and not easily digestible for stakeholders.² Further the CEF Modifications Order adopted a Focus Area Budget approach for the Market Development and Innovations & Research Portfolios. The CEF Modifications Order required a streamlining and restructuring of the content of the current Investment Plan structure into a Compiled Investment Plan (CIP), organized by Focus Area and directed Staff to issue this CEF Investment Plan Guidance Document to outline the necessary content and process elements for the

¹ Case 14-M-0094, Proceeding on Motion of the Commission to Consider a Clean Energy Fund, Order Authorizing the Clean Energy Fund Framework, (issued January 16, 2016).

² Case 14-M-0094, supra., Order Approving Clean Energy Fund Modifications, (issued September 9, 2021).

Investment Plans, that meet the Commission's priorities, as stated within the CEF Modifications Order.

Content Requirements:

OVERALL STRUCTURE

The CIP will be organized by Focus Area as outlined in the CEF Modification Order. The CIP will include the following sections:

- I. Market Development Focus Area Investment Plans
- II. Innovation & Research Focus Area Investment Plans
- III. Performance Management, Analyses & Evaluation Plan
- IV. Budgets & Benefits Plan

Appendix

- A. Focus Area Budget Tracking

The CIP must provide clarity on the objectives and activities to be undertaken, with associated costs and benefits, within the Market Development and Innovation & Research portfolios. Material must be presented in a useful format for readers. Therefore, information shall be presented in a clear and concise manner, with attention given to consistency of language within and between Investment Plans, avoidance of acronyms and overuse of jargon, and use of proper citations, where necessary.

I. & II. MARKET DEVELOPMENT AND INNOVATION & RESEARCH FOCUS AREA INVESTMENT PLAN CONTENTS AND CRITERIA³

Each Focus Area Investment Plan shall clearly describe the sound investment strategies identifying the level of funding over the period the activities will be undertaken, the projected outcomes/milestones, and how NYSERDA plans to verify the outcomes and impact of the various initiatives. Each Focus Area Investment Plan shall include the following material:

³ As detailed in the January 16, 2020 Order Authorizing Utility Energy Efficiency and Building Electrification Portfolios through 2025, in Case 18-M-0084, the Commission directed NYSERDA and the utilities to shift to a Statewide LMI Portfolio approach. Accordingly, the annual Statewide LMI Portfolio Implementation Plan serves as the primary filing requirement reflecting details of the Portfolio for all utilities and NYSERDA. Therefore, details of the initiatives are not necessary in each utilities' SEEP or NYSERDA's CEF Investment Plan filings. For transparency, however, NYSERDA should include Budget and Benefits information related to its Low-to Moderate-Income Focus Area in the appropriate tables of the CIP.

OVERVIEW

Overview	
Focus Area Description	Provide a brief high-level description of the Focus Area.
Current State of Market	Broadly define the current state of the market(s) of the Focus Area, identifying past successes, adjusted activities, while identifying the synergies among the initiatives within the focus area as well as any synergies with any external programs, such as those offered by the utilities and other agencies.
Intervention Strategies	A concise characterization of the primary ways in which the initiative(s) intend to move the broader market long term through the near-term investments and activities, articulating the business case for such an approach.

FOCUS AREA FUNDING & BENEFITS SUMMARY

Focus Area Funding Status					
Ordered Focus Area Budget (\$MM)	Modified Focus Area Budget (\$MM)	Funding Previously Planned (\$MM)	Change in Funding Associated with this CIP (\$MM)	Total Planned Funding (\$MM)	Percentage of Total Focus Area Budget Planned (%)
State as a dollar value the Focus Area Budget as stated in the CEF Modifications Order.	State as a dollar value the Modified Focus Area Budget, if applicable, related to any shifts made in compliance with the funding flexibility outlined in the CEF Modifications Order	State as a dollar value the total amount of funding planned for the Focus Area prior to this CIP filing.	State as a dollar value the change in funding (+/-) for the Focus Area put forth in this CIP filing.	State as a dollar value the Funding Previously Planned +/- the Change in Funding as put forth in this CIP filing.	The Total Planned Funding stated as a percentage of the Ordered or Modified Focus Area (whichever applicable).

Focus Area Funding by Initiative			
	Initiatives	Total Planned Funding* (\$MM)	Active Period
Active	1. Sample Initiative	Enter \$ amount	Enter year range
	2. Sample Initiative		
	3. Sample Initiative		
	4. Sample Initiative		
In-Active	1. Sample Initiative	Enter \$ amount	Enter year range
	2. Sample Initiative		
	3. Sample Initiative		
	4. Sample Initiative		
	TOTAL Focus Area Planned Funding	Enter \$ amount	n/a

* Total Planned Funding in this Table should match Total Planned Funding in the prior table.

Focus Area Benefits Summary		
	Contribution to 2025 Target	Contribution to 2030 Target
Cumulative Annual Site Energy Efficiency (EE) Acquired* (MMBtu)		
Cumulative Annual Electricity EE Savings (MWh)		
Cumulative Annual Natural Gas EE Savings (MMBtu)		
Cumulative Annual Other Fuels EE Savings (MMBtu)		
Renewable Energy (RE) Distributed Solar Capacity (MW)		
Mobilized Clean Energy Investment (Leveraged Funds)		
* Equivalent Annual MMBtu, net of all savings and usage		

INITIATIVE SPECIFIC INFORMATION

For each Initiative within the Focus Area provide the following information.

Initiative #1	
Provide a concise overview of the initiative, its purpose, what the initiative is designed to do and identify the related strategies that it will be comprised of. Highlight important achievements of the initiative to date, particularly as they relate to initiative goals. To the extent the initiative will operate in a fuel neutral manner, provide justification for such approach. Discussion of utility, or other Agency, collaboration or relevant market activities shall be identified.	
Participants, Barriers, & Goals	
Target Market Participants	The market participants the initiative seeks to engage with to achieve the initiative’s goals.
Target Market Barriers	Identify the market barriers the initiative intends to overcome.
Initiative Objective(s)	Identify the primary objective(s) the initiative seeks to achieve. Where applicable, identify the market status or actions that are targeted before the initiative exits the market. Milestones, Outputs and Outcomes detailed in the subsequent section should link to the Initiative Objectives stated here.

For each activity (or grouping of activities) within the Initiative provide the information as outlined below. The intersection between current market conditions and the activities that will be undertaken within the initiative shall be described

Key Activities + Measurements							
Activity	Characterization of a specific activity (or group of them) designed to move the market and achieve desired outcome. Description shall clearly identify which market participants are being engaged for each activity						
Target Year		2021	2022	2023	2024	2025	Add additional years, as needed
Milestone	Identify a specific event or action critical to demonstrating progress or successful execution of the Activity. Milestones should primarily be tied to market activity with critical administrative steps as secondary metrics.	Indicate in which year a stated Milestone will be achieved.					
Output	Identify measurable, quantifiable direct results of Activities that will serve as a way of regularly tracking progress, especially in the early stages of an initiative before broader market changes are measurable.	Indicate, as a numeric value, in the relevant year the anticipated measurement for the stated Output. Identify the sources of any baseline figures used, if applicable. Values should be represented as cumulative values.					
Outcome	Encompasses a range of near-term through longer-term changes in market conditions expected to result from the activities/outputs of an intervention which are measured periodically.	Indicate, as a numeric value, in the relevant year the anticipated measurement for the stated Outcome. Identify the sources of any baseline figures used, if applicable. Values should be represented as cumulative values.					

Budgets & Benefits

Initiative specific Budget and Benefits information will be presented in greater detail in the Budget and Benefits Plan utilizing the format identified in Appendix B of this Guidance Document.

Disadvantaged Communities

The CEF Modifications Order requires NYSERDA to make a filing within 60 days of the finalization of the Climate Justice Working Group criteria for Disadvantaged Communities, in consultation with Department of Public Service Staff, describing how the Disadvantaged Communities criteria will be integrated into CEF operations and the methods to be utilized in tracking the corresponding benefits delivered to these communities. This Guidance will be updated accordingly to provide guidance for how the CIP shall represent information related to this metric.

III. PERFORMANCE MANAGEMENT, ANALYSES & EVALUATION PLAN

The Performance Management, Analyses & Evaluation Plan shall provide information pertaining to the various evaluation, measurement and verification, as well as market research, market characterization, and analysis activities NYSERDA will undertake related to the Market Development and Innovative & Research Portfolios.

Cross Cutting Activities and Analyses

The Cross Cutting Activities and Analyses section shall present activities and analyses that cover more than one Focus Area and therefore are not reflected in Focus Area-specific plans. Such cross-cutting activities and analyses shall be described in distinct categories⁴ of market characterization and design work and supporting resources, including but not limited to the categories outlined below:

- Market Fundamentals - including Market Baselines, Potentials, and Progress and Macro-Level Analyses; and
- Supporting Resources - including Data Sets and Technical Assistance.

Pre-Development Efforts

Intervention pre-development efforts supporting specific Market Development and Innovation & Research efforts shall be described in the following required Focus Area plans, at a minimum:

- Market Development: Codes and Standards, & Other Multisector Initiatives
- Innovation & Research: Climate Resilience Innovation

Verified Gross Savings (VGS) Specifications

The VGS Specifications outline the strategy for how VGS will be calculated and updated based on internal and independent third-party evaluation, measurement, and verification activities and upon completion of an evaluation, including a Gross Savings Analysis Report.⁵ NYSERDA shall include an initial VGS Specification for each applicable Initiative within the Focus Areas as a component of the CIP. NYSERDA shall file a revised VGS Specification based on findings from its evaluation work in subsequent updates to the CIP.

Study and Activity Schedule

NYSERDA shall provide a schedule of the Performance Management, Analyses & Evaluation studies and activities currently planned or underway as of the date of the initial CIP. Focus area specific as well as cross-cutting activities and analysis should be included. The information shall be provided in table format, as indicated below.

⁴ The categories provided are representative of activities previously included in the Market Characterization & Design Chapter Investment Plan. Additional types of cross cutting activities and analysis may be included, as necessary.

⁵ As described in CE-08 Gross Savings Verification Guidance.

Performance Management, Analyses & Evaluation Studies and Activities Schedule							
Focus Area	Initiative	Study/Activity Name	Type of Study	Study Period	Planned Study/Activity Start Date (Q/Year)	Planned Study/Activity End Date (Q/Year)	Status ⁶
	Initiative 1						
	Initiative 2						
	Initiative 3						

Budget allocations for the Performance Management, Analyses & Evaluation Plan shall be presented as part of the Budget and Benefits Plan as outlined in Appendix C of this Guidance Document.

IV. BUDGET AND BENEFIT PLAN

The Budget and Benefit (BAB) Plan is to provide a current and comprehensive compilation of budgets and benefits of all Market Development and Innovation & Research initiatives. The BAB must include the annual expenditure forecast for each initiative, by focus area and in total. Additionally, the BAB will identify associated primary metrics for each initiative, presented in a manner that shows each initiatives' contribution to the CEF goals established within the 2021 CEF Modifications Order. Information will be compiled in Table Format as reflected below. Budgets represented in all tables that follow represent expenditure forecasts and Benefits are expressed in terms of acquisitions, consistent with the CEF Modifications Order.

Table 1 is provided as a reference of the Performance Targets as defined in the CEF Modifications Order.

Table 1. CEF Performance Targets & Tracking Metrics

Performance Targets & Definitions		Performance Target 2025	Performance Target 2030	Calculated Lifetime Benefits of CEF Total Investment**
Energy Efficiency (EE)	Cumulative Annual Site EE Acquired*	53 TBtu	79 TBtu	1,150 Tbtu
	Cumulative Annual Electricity Savings – approximate	23 TBtu (6.7 million MWh)	34 TBtu (10 million MWh)	440 Tbtu (130 million MWh)
	Cumulative Annual Natural Gas Savings – approximate	25 TBtu	38 TBtu	490 Tbtu
	Cumulative Annual Other Fuels Savings – approximate	15 TBtu	17 TBtu	220 Tbtu
Renewable Energy (RE)	Renewable Distributed Solar Capacity Installed in NYS	6 GW	TBD	n/a

⁶ Provide the appropriate status: Upcoming, In Progress, Delayed, Withdrawn, or Completed for annual filing. If activities have been completed or withdrawn within a year, the status should be updated in the subsequent revision to the CIP. Completed and withdrawn activities should be reflected in the CEF Annual Report and do not need to be carried forward in the annual CIP filing.

Mobilize Clean Energy Investment	Mobilization/Leveraged Funds	\$20 billion	n/a	n/a
Equity for Disadvantaged Communities	Benefits of CEF Investments Accruing to Disadvantaged Communities	40%	40%	n/a

* Cumulative Annual EE Acquired is less than the sum of Electricity, Natural Gas and Other Fuels savings due to netting out usage associated with electrification and other fuel switches.

Tracking Metrics & Definitions		2025	2030	Calculated Lifetime Benefits of CEF Total Investment**
Emission Reductions	Annual CO _{2e} Million Metric Tons (MMT)***	9	12	190
Clean Energy Jobs	Statewide Clean Energy Industry Jobs Priority Populations Trained and Employed in Clean Energy	To be tracked and reported		n/a
Participant Bill Savings	Energy Bill Savings for Participating Customers Energy Bill Savings for Participating LMI Households	To be tracked and reported		
Local Air Quality	Reduced On-Site Fossil Fuel Combustion in EJ Areas	To be tracked and reported		

** Calculated Lifetime Benefits are not considered performance targets but are provided as estimates as to the longer-term return on investment of the CEF.

***Carbon factors used in this calculation are: 1,100 lbs/MWH electricity, 117 lbs/MMBTU natural gas, and 162 lbs/MMBTU as a value for all other fuels.

Tables 2 and 3 provide budget information. Table 2 provides high level budget information by year and in total, including allocations for Program Funds, NYS Cost Recovery Fee, Administration and Evaluation. Table 3 provides budget information, by year and in total for Program Funds by Focus Area and Initiative.

Table 2. Market Development and Innovation & Research Portfolio Budgets

	Program Authorization	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	% of Program Authorization
Market Development																		
Program Funds																		
NYS Cost Recovery Fee																		
Innovation & Research																		
Program Funds																		
NYS Cost Recovery Fee																		
Administration																		
Evaluation																		
Total																		

Table 3. Market Development and Innovation & Research Budgets by Focus Area and Initiative

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Market Development																
Focus Area 1																

Tables 4 through 11 provide information on benefits associated with the Market Development and Innovation & Research initiatives for which funding is represented in Tables 2 and 3. Table 4 provides an overall summary of energy efficiency benefits by fuel type and year for each Portfolio and in total. The Indirect Benefits reflected in Table 4 shall reflect 50% of the projected Indirect benefits anticipated to account for overlap within the portfolio and uncertainty associated with the timing and measurement of Indirect benefits. Tables 5 through 7 reflect fuel specific energy efficiency savings. Tables 8 through 10 reflect additional fuel usage resulting from beneficial fuel switching. Table 11 reflects leveraged funds.

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

Portfolio / Metric	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	% of 2025 Target	% of 2030 Target
Market Development																			
MWh	Direct																		
	Indirect																		
MMBtu (Gas)	Direct																		
	Indirect																		
MMBtu (Other)	Direct																		
	Indirect																		
Innovation & Research																			
MWh	Direct																		
	Indirect																		
MMBtu (Gas)	Direct																		
	Indirect																		
MMBtu (Other)	Direct																		
	Indirect																		
Total MWh	Direct																		
	Indirect																		
Total MMBtu (Gas)	Direct																		
	Indirect																		
Total MMBtu (Other)	Direct																		
	Indirect																		

Table 5. Electricity Savings, Annual (MWh)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 6. Natural Gas Savings, Annual (MMBtu)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 7. Other Fuel Savings, Annual (MMBtu)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 8. Electricity Usage, Annual (MWh)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 9. Gas Usage, Annual (MMBtu)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 10. Other Fuel Usage, Annual (MMBtu)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

Table 11. Leveraged Funds (\$ Million)

Portfolio /Focus Area / Initiative	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Market Development																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																
Innovation & Research																
Focus Area 1																
Initiative 1																
Focus Area 2																
Initiative 1																

INITIATIVE SPECIFIC BUDGETS AND BENEFITS

As previously discussed, Tables associated with Initiative Specific Budgets and Benefits, as outlined in Appendix B, will be included in this section.

PERFORMANCE MANAGEMENT, ANALYSES, & EVALUATION BUDGETS

As previously discussed, a Table reflecting the Budget detail associated with the Performance Management, Analyses, & Evaluation Plan, as outlined in Appendix C, will be included in this section.

Process Requirements:

FILING AND APPROVAL

NYSERDA will file its first Compiled Investment Plan by December 1, 2021 and at least annually thereafter on or before November 1 in Matter 16-00681. NYSERDA will also file a revised Compiled Investment Plan periodically when any new funding is being added to an existing initiative or a new initiative is being put forth or when any material changes are being made to initiatives or associated benefits.⁷

In the event of material changes being made, the Compiled Investment Plan will employ a Record of Revision (RoR) Table approach to document the changes being made within the filing. The RoR Table should be inserted at the start of each Focus Area Investment Plan or the Performance Management, Analyses & Evaluation Plan. Given that the Budget and Benefits Plan is continually updated, it is not necessary to include a RoR Table in the Budget and Benefits Plan. The RoR Table shall be formatted in the following manner with additional rows added for subsequent revisions.

Insert Title of Plan		
Revision Date	Description of Revision	Revision on Page(s)
Month/Day/Year	Original Issuance	Original Issuance
Month/Day/Year	Describe the change being made.	Identify the Page and or Table number in which the revisions have been made.

Staff will conduct a compliance review when the Compiled Investment Plan is filed and the Director of the Office of Markets & Innovation will issue a letter of acceptance, or identify deficiencies to be corrected, within 30 days upon receipt.

⁷ In the CEF Framework, the Commission authorized NYSERDA to make non-material adjustments and refinements to activities presented in the Investment Plans, as needed to deliver outcomes and impact, without Staff approval. Non-material changes are considered changes to the timing of milestones or modifications to benefits that are less than 20%. Any non-material changes will be reflected in the next scheduled update to the Compiled Investment Plan.

FOCUS AREA FUNDING FLEXIBILITY

The CEF Modifications Order adopted a Focus Area Budget approach to provide further transparency and a shift to a purposeful build out of the remainder of the Market Development and Innovation & Research portfolios best aligned with current state policy objectives, market needs, and leveraging NYSERDA's role. Focus Area Budgets as specified in the CEF Modifications Order are reflected in Appendix A.⁸

The Commission recognizes that the energy industry is rapidly transforming, and it can be expected that Focus Area funding adjustments may be warranted to respond to evolving market conditions and needs, and to best meet the overall CEF performance targets and expectations. Therefore, it placed the following conditions upon this Focus Area Funding flexibility:

- 1) funding shall not be reallocated between the Market Development and Innovation & Research portfolios;
- 2) any funding committed to a Focus Area within the 2016-2019 period that should become uncommitted for any reason, including project attrition, shall remain within the Focus Area and be available for activities within the 2020-2025 period;
- 3) cumulative reallocations from any one Focus Area to another may not exceed a 20% threshold of the total 10-year budget reflected in Appendix A (below), with the exception of the LMI focus area which may be added to, but not reduced;
- 4) the 20% threshold will apply similarly to both removal and addition of funds to focus areas;
- 5) funding from the reserve shall not be subject to the 20% threshold as it is intended to be available to meet needs identified in the future; and
- 6) all such reallocation shall be documented in the quarterly revision and Investment Plan process.

⁸ The CEF Modifications Order authorized the transfer of excess funds previously allocated to the NYS Cost Recovery Fee to the Focus Area Reserve budgets. NYSERDA is required to reflect any such transfers in the December 1, 2021 CIP filing as well as a concurrent filing to the Secretary. Any subsequent changes shall be documented in the same manner.

Shifts in the Focus Area Funding, utilizing the flexibility granted by the Commission, must be tracked in a consistent and transparent manner. The CIP should include an Appendix utilizing the following format to achieve this objective. A separate Table should be presented for Market Development and Innovation & Research.

Focus Area Funding Tracking			
Ordered Focus Area Budget (\$MM)	Increases or Decreases to Ordered Focus Area Budgets from other Focus Areas (\$MM)	Increases to Ordered Focus Area Budget From Reserve (\$MM)	Revised Focus Area Budgets as of this CIP Filing (\$MM)
State, as a dollar value, the Focus Area Budget as authorized in the CEF Modifications Order.	List by Date of filing the individual and cumulative increase or decrease to the Ordered Focus Area Budgets associated with transfers from other Focus Areas	List by Date of Filing the individual and cumulative increase to the Focus Area Budget associated with transfers from the Reserve.	State as a dollar value the Modified Focus Area Budgets, if applicable, related to any shifts made in compliance with the funding flexibility outlined in the CEF Modifications Order. This value should represent the most current view of the Focus Area Budgets at the time of the CIP filing.
Each Focus Area should be represented in a separate row.	Each Focus Area should be represented in a separate row.	Each Focus Area should be represented in a separate row.	Each Focus Area should be represented in a separate row.

**APPENDIX A: AUTHORIZED FOCUS AREA BUDGETS 2016-2025, AS DETAILED
IN CEF MODIFICATIONS ORDER**

MARKET DEVELOPMENT FOCUS AREAS	Commitments 2016-2019	Future Plan 2020-2025	Total 2016- 2025
Low-to-Moderate Income	\$221.22	\$540.00	\$761.22
Single Family Residential	\$32.09	\$77.11	\$109.20
Multifamily Residential	\$5.16	\$66.00	\$71.16
Commercial/Industrial/Agriculture	\$199.23	\$302.00	\$501.23
New Construction	\$63.39	\$117.00	\$180.39
Communities	\$19.76	\$65.92	\$85.68
Transportation	\$22.68	\$24.00	\$46.68
Clean Heating and Cooling	\$55.83	\$79.92	\$135.76
Workforce	\$16.94	\$91.41	\$108.34
Codes, Standards, & Multi-Sector Solutions	\$24.29	\$110.00	\$134.29
Renewable/Distributed Energy Resources	\$151.90	\$37.00	\$188.90
Market Development Reserve		\$37.00	\$37.00
Total Market Development Budget	\$812.51	\$1,547.36	\$2,359.86
INNOVATION & RESEARCH FOCUS AREAS	Commitments 2016-2019	Future Plan 2020-2025	Total 2016-2025
Tech to Market	\$48.00	\$93.00	\$141.00
Building Innovations	\$9.00	\$66.00	\$75.00
Clean Transportation	\$14.00	\$40.00	\$54.00
Energy Related Environmental Research	\$14.00	\$33.00	\$47.00
Grid Modernization	\$53.00	\$81.00	\$134.00
Renewables Optimization	\$18.00	\$44.00	\$62.00
Negative Emissions	\$0.00	\$32.00	\$32.00
Gas Innovation	\$0.00	\$40.00	\$40.00
Climate Resilience	\$0.00	\$20.00	\$20.00
Innovation & Research Reserve	\$0.00	\$16.00	\$16.00
Total Innovation & Research Budget	\$156.00	\$465.00	\$621.00
*Dollars in Millions			

APPENDIX B: INITIATIVE SPECIFIC BUDGET AND BENEFITS

Direct Benefits – Annual	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Energy Efficiency MWh – Electric																
Energy Efficiency MMBtu Annual- Gas																
Energy Efficiency MMBtu Annual- Other Fuel																
Energy Efficiency MW																
Renewable Energy Distributed Installed MW Capacity																
Leveraged Funds																

Indirect Benefits – Annual	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Energy Efficiency MWh – Electric																
Energy Efficiency MMBtu – Gas																
Energy Efficiency MMBtu - Other Fuel																
Renewable Energy Distributed Installed MW Capacity																

Energy Usage -Annual	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Direct Energy Usage MWh – Electric																
Direct Energy Usage MMBtu – Gas																
Direct Energy Usage MMBtu – Other Fuel																
Indirect Energy Usage MWh – Electric																
Indirect Energy Usage MMBtu – Gas																
Indirect Energy Usage MMBtu – Other Fuel																

Expenditures Budget	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Incentives and Services																
Implementation																
Research and Technology Studies																
Tools, Training and Replication																
Business Support																
Total																

APPENDIX C: PERFORMANCE MANAGEMENT, ANALYSES, & EVALUATION BUDGET

Budget Elements	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Initiative-Specific Evaluations																
Cross-Cutting Activities and Analyses																
Market Fundamentals																
Supporting Resources																
<i>Data Sets</i>																
<i>Technical Assistance</i>																
Total Planned Evaluation Funding																