

October 17, 2022

Carmen D. Diaz Acting Secretary of the Board New Jersey Board of Public Utilities 44 South Clinton Avenue, 1st Floor P.O. Box 350 Trenton, NJ 08625-0350

Submitted via e-mail

DOCKET NOS. QO1901040, QO19060748 & QO17091004

Dear Acting Secretary Diaz:

Pursuant to the Board's current filing procedures, herein is the Annual Progress Report for Program Year 2022¹ ("PY22") of New Jersey Natural Gas ("NJNG" or "Company") with respect to its Clean Energy Act of 2018 Energy Efficiency ("EE") and Peak Demand Reduction ("PDR") Programs.

In accordance with the Order issued by the Board in connection with I/M/O the New Jersey Board of Public Utilities' Response to the COVID-19 Pandemic for a Temporary Waiver of Requirements for Certain Non-Essential Obligations, BPU Docket No. EO20030254, Order dated March 19, 2020, this document is being electronically filed. No paper copies will follow.

Energy Efficiency Program Progress - Executive Summary

Overall Portfolio

The SAVEGREEN Project® (SAVEGREEN), the customer branded name for NJNG's energy efficiency programs, has been serving customers since 2009. This report addresses new efforts for the expansion of SAVEGREEN that occurred on July 1, 2021² to meet the requirements of the Clean Energy Act, including the transition of many programs that were previously administered by New Jersey's Clean Energy Program. NJNG worked closely with the other New Jersey Utilities (Utilities) to develop coordinated programs to offer comprehensive solutions for our customers.

Since NJNG had robust energy-efficiency programs in place and a good working relationship with many contractors, NJNG was able to leverage many elements of our existing structure for program expansion, including the ability to refresh our online marketplace and microsite, established communication and marketing channels with customers and contractors, infrastructure and procedures for our On-Bill Repayment Program (OBRP) and knowledgeable employees, experienced in our energy-efficiency programs, many of whom have been with SAVEGREEN since 2009.. However, NJNG continues to devote significant time to the development of a new Program Management Software System (PMSS) to properly support the tracking of the energy savings and investments of our expanded program portfolio and provide enhanced functionality for customers and contractors, as well as on-going coordination efforts with the Utilities. With limited exception noted within this report, NJNG is not using Third Party Implementation Contractors to administer most programs.

All of NJNG's approved programs that were approved and expected to launch in July were accepting applications from customers and contractors in early July 2021. In addition, as noted in our filing and followup discussions, NJNG intended to launch certain newer Additional Utility Led Programs, including Moderate Income Weatherization, Energy Management, and direct installation elements of the Multi-family Program, later in the program year. All of these Additional Utility Led Programs have been launched. These newer programs did not have any closed projects as of the end of this reporting year, but customer engagement and enrollment were underway during Program Year 1.

The utilities continue to work on developing the Statewide Coordinator (SWC) system that will facilitate the exchange of investments and energy savings between a Lead Utility and a Partner Utility. As of the date of this report, the SWC system is not yet fully tested and operational, therefore the utilities have not yet transferred information for expenditures and energy savings. As discussed during Utility Working Group discussions, Utilities are supporting incentives for comprehensive projects that address both fuels with the intention to transfer all information through the SWC when the system is operational and integrated with each utility's program management software and tracking system. Accordingly, the information reflected within this annual report reflects all investments made by NJNG, including those as the Lead Utility on behalf of a Partner Utility. Energy savings shown within this report only reflect savings for NJNG's primary fuel with the exception of Appendix G which summarizes electric spending that is pending transfer to our partner utilities.

Collectively, the programs delivered over 326,000 DTh in savings. More information on the composition of the savings is presented both within this report and in Appendices B through I.

Additionally, NJNG is committed to improving our program. During PY22, we concluded a competitive solicitation process to select an independent Evaluation, Measurement, and Verification ("EM&V") firm to review our program activity. DNV Energy Insights was selected as the primary evaluation contractor, and their proposal included the use of APPRISE, Inc, for work on the Home Performance with ENERGY STAR and Moderate-Income Weatherization programs. For the purpose of this report, they will collectively be referred to as the "DNV Team". The DNV team worked closely with NJNG to understand our programs, and the guidance developed by the Statewide Evaluator (SWE) Team under contract to the BPU. Work scopes were submitted to the SWE team and evaluation work is underway.

Residential Sector

Year-to-date highlights include:

- The Energy Efficient Products program was launched on July 1, 2021.
 - SAVEGREEN residential HVAC Program completed 2,705 units.
 - There were 1,707 Community Conservation Kits distributed to NJNG customers.
 - The NJNG Online Marketplace sold 8,238 efficient products online to NJNG customers. The majority of sales were smart thermostats, but NJNG also offered discounted energy conservation kits and other energy saving products for the home. NJNG completed the solicitation process and retained EFI as the vendor.
 - NJNG processed 835 appliance rebates for washer/dryer units.
- The Home Performance with ENERGY STAR (HPwES) Program completed 408 projects.
- The Behavioral program had more than 265,500 customers in our treatment group. NJNG retained Uplight, as the vendor that provides this service throughout this triennium. The Behavioral program sends printed Home Energy Reports (HERs) in the fall and winter periods, but electronic Home Energy Reports (eHERS) are provided during the summer months.
- The Quick Home Energy Check-Up (QHEC) Program completed 944 customer visits. NJNG also offered a QHEC+ option that includes a comprehensive Building Performance Institute (BPI) audit and the potential for the installation of a smart thermostat that is purchased on the NJNG Marketplace for a ^{\$49} fee. All QHEC visits and QHEC+ audits are conducted by NJNG employees with full BPI certification.
- CLEAResult, NJNG's Moderate-Income Weatherization Program Implementer, completed 41 audits.
 - NJNG's weatherization marketing campaigns are in process. Outreach includes:
 - Promotions in the June newsletter to 14 senior communities with housing values of less than \$350,000.
 - Direct mail letters/postcards were sent to more than 10,000 households identified as moderate income and emails to more than 25,000 households.
 - Presentations at senior communities Information provided to agencies in Monmouth, Ocean, and Morris counties, including Affordable Housing and Ocean Inc. These agencies provide information on the Moderate-Income Weatherization Program to customers who are over income limits for Comfort Partners.
 - o CLEAResult also serves as our Quality Control vendor.

Commercial Sector

Year-to-date highlights include:

- The NJNG outreach team is actively promoting the programs at events across our service territories. They are also engaged in one-on-one discussions with customers who are interested in learning more about available programs.
- The Prescriptive program completed 2 projects.
- The Direct Install program completed 2 projects. There were 46 applications received.
- During PY22, the Utilities considered feedback from customers and trade allies regarding the structure of the incentive calculations for the Direct Install Program and reached agreement on modifications to the screening tool for Direct Install projects that was implemented on July 1, 2022.
- NJNG also had the infrastructure in place to engage eligible customers in our Engineered Solutions program since we have been running a similar program since early 2019. However, no applications were submitted during PY22.
- NJNG finalized program details to enable the launch of the Energy Management program. No applications were submitted during PY22, but discussions were held with some interested customers.
- As a result of the ramp up of C&I programs, NJNG incurred program costs but had very few closed projects during PY22 so limited energy savings were reported in this period. As a result, the Cost Benefit Analysis results will be negatively affected for PY22.

Multi-family Sector

- Our outreach team is engaged in one-on-one discussions with customers who are interested in learning more about the available program.
- NJNG was available to accept interested customers into the program for the initial screening and to process incentives for prescriptive measures and/or the Multi-family HPwES pathway. As of the end of PY 22, there were four Multi-family HPwES projects in the pipeline which consisted of 756 units.
- NJNG also had the infrastructure in place to engage Multi-family property owners in Engineered Solutions. However, no customer applications were submitted during PY22.
- NJNG conducted a competitive solicitation and selected CLEAResult as a Third-Party Implementation Contractor to support the launch of Direct Install of energy savings measures for the Multi-family program. Program details have been put in place to enable the launch of this pathway.
- As a result of the ramp up of the Multi-family programs, NJNG incurred program costs but had no closed projects during PY22 so limited energy savings were reported in this period. As a result, the Cost Benefit Analysis results will be negatively affected for PY22.

Contractor Summary

- 173 Contractors have been onboarded to participate in our OBRP program, this includes 26 contractors for our HPwES program.
- There were 39 commercial contractors onboarded for our Direct Install program.
- There were 46 contractors for our Prescriptive program who signed a participation agreement to allow them to offer our OBRP program.
- Additionally, any licensed contractor can offer rebates for qualifying residential HVAC equipment and commercial Prescriptive equipment.
- There were 12 engineering firms for our Engineered Solutions program.

Table 1 shows the Company's overall performance as a percentage of retail sales, which includes retail sales reductions achieved by the Comfort Partners program, which is the primary program serving low-income customers and is co-managed with the Division of Clean Energy in conjunction with NJNG and the other investor-owned electric and gas utility companies.

Recognizing the transition to utility programs, the Board's June 10, 2020, CEA Order did not establish specific energy use reduction requirements for PY22. Annual targets will become applicable in future years.

Table 1 - Program Year 2022 Program Results

Utility-Administered Programs Ex-ante Energy Savings (Dth)	Comfort Partners Ex-ante Energy Savings (Dth)	Other Programs Ex-ante Energy Savings (Dth) 1	Total Ex-ante Energy Savings (Dth)	Compliance Baseline (Dth)	Annual Target (%)	Annual Target (Dth)	Percent of Annual Target (%)
(A)	(B)	(C)	(D) = (A) + (B) + (C)	(E)	(F)	(G) = (E)*(F)	(H) = (D) / (G)
326,187	8,535	-	334,722	68,709,936	N/A	N/A	N/A

¹ - Other Programs includes Company-specific programs that are not part of the Clean Energy Act (CEA) energy efficiency programs, such as legacy programs and pilots. While NJNG has legacy programs that are expected to contribute to reported savings in PY23 and PY24, all legacy program projects that closed within PY22 reflected the complementary efforts with the NJCEP programs. Accordingly, NJNG is not recording any savings for those legacy programs here. Future years will only reflect savings from legacy programs that do not have an overlap with NJCEP, primarily Engineered Solutions.

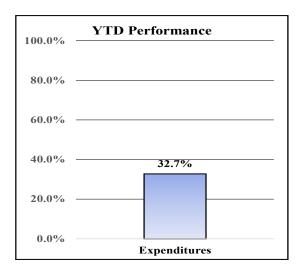


Figure 1: PY22 performance of Annual Energy Savings and Expenditures

Table 2 provides the results of the QPIs for all programs for which utilities are responsible, inclusive of the CEA-funded programs, Comfort Partners program (only included in low/moderate income lifetime savings), and any legacy energy efficiency programs administered by NJNG that were authorized or funded by or through a prior filing or authorization.

Table 2 – Quantitative Performance Indicators

Quantitative Performance Indicator	Utility- Administered Plan Year Results	Comfort Partners Plan Year Results	Other Programs Plan Year Results	Total Plan Year Results	Annual Target 5 & 6	Percent of Annual Target Achieved
Annual Energy Savings (Dth) ¹	326,187	8,535	-	334,722	N/A	N/A
Lifetime Savings (Dth)	1,707,906	161,613	-	1,869,519	N/A	N/A
Annual Demand Savings (Dth-day) ²						
Lifetime of Persisting Demand Savings ⁶ (Dth-day-year)						
Low/Moderate-Income Lifetime Savings ³ (Dth)	22,446	8,535	-	30,980		
Small Commercial Lifetime Savings (Dth) ⁴	6,035		-	6,035		
Net Present Value of Utility Cost Test Net Benefits ⁷ (\$)	\$ 665,739			\$ 665,739		

¹ - Calculated savings at the retail (customer meter) level. Savings are ex-ante.

² - Calculation methodology for Annual Demand Savings and Lifetime of Persisting Demand Savings for natural gas are in development.

³ - Low/Moderate-Income lifetime savings are the total of any income-qualified Residential or Multi-family program, including Comfort Partners.

⁴ - Small Commercial lifetime savings are Direct Install program savings and those from C&I small business customers (<200 kW peak demand) in other programs.

⁵ - The New Jersey Comfort Partners Program does not forecast annual target retail savings (DTh).

⁶ - Annual Targets reflect estimated impacts as filed the Company's 2021-2024 Clean Energy Filing.

⁷ - Cost Effectiveness impacts are not calculated for Comfort Partners or Other Programs.

Sector-Level Participation, Expenditures, and Energy Savings

Participation

NJNG has seen a strong start to the residential programs because we have been offering a range of residential energy-efficiency programs since 2009. NJNG has a robust network of participating contractors, very active communication channels, and marketing efforts.

NJNG is not surprised that there were only a few closed commercial projects. Based on experience supporting the commercial energy efficiency programs run by NJCEP, NJNG recognizes longer lead times for those programs. NJNG had similar expectations for the multi-family program, especially since it launched mid-year during PY22.

Table 3 - Sector-Level Participation

Sector ¹	Current Quarter Participants	Annual Participants	Annual Forecasted Participants	Percent of Annual Forecast
Residential	268,448	280,339	292,815	95.7%
Multi-family	-	-	1,153	0%
C&I	2	4	1,223	0.3%
Reported Totals for Utility Administered Programs	268,450	280,343	295,191	95.0%
Comfort Partners	106	535	873	61.3%
Utility Total	268,556	280,878	296,064	94.9%

¹ Please note that these numbers are totals across all programs within a sector. Appendix B shows the participation results for individual programs or offerings.

Expenditures

NJNG did not make or request any adjustments to budget or incentives during PY22. As reflected in Table 4 below, NJNG has spent approximately 70% of our Residential sector budget and less than 5% of the Commercial and Multi-family sector budgets. The smaller relative spend for the Commercial and Multi-family programs reflects that limited incentives were processed during PY22; however, there is significant activity occurring on projects in process and regarding outreach to engage further customers.

Table 4 - Sector-Level Expenditures

Expenditures ¹	Qua Expen	rrent arter ditures 000)	Expe	nnual nditures 6000)	Bu Exper	nual dget iditures 000)	Percent of Annual Budget	
Residential	\$	6,955	\$	23,305	\$	33,186	70.2%	
Multi-family	\$	85	\$	301	\$	7,399	4.1%	
C&I	\$	546	\$	1,695	\$	36,769	4.6%	
Reported Totals for Utility Administered Programs	\$	7,586	\$	25,301	\$	77,354	32.7%	
Comfort Partners	\$	988	\$	4,969	\$	5,741	86.5%	
Utility Total	\$	8,574	\$	30,270	\$	83,095	36.4%	

¹ - Expenditures include rebates, incentives, and loans, as well as program administration costs allocated across programs.

Energy Savings

Given that this is the first year of activity after the transition of the NJCEP programs, NJNG expected some of the programs to reflect a slower start. NJNG is working to refine procedures to improve the customer experience, including launching our PMSS, to engage more contractors and reach more customers through marketing and outreach. We expect savings to increase significantly in the future.

Table 5 - Sector-Level Energy Savings

Annual Energy Savings ¹	Current Quarter Retail (Dth)	Annual Retail (Dth)	Annual Target Retail ² (Dth)	Percent of Annual Target
Residential	86,964	325,775	256,378	N/A
Multi-family	-	-	9,248	N/A
C&I	358	412	106,160	N/A
Reported Totals for Utility Administered Programs	87,322	326,187	371,786	N/A
Comfort Partners	1,795	8,535	-	N/A
Utility Total	89,117	334,722	371,786	N/A

¹ - Annual energy savings represent the total expected annual savings from all EE measures within each sector. Appendix B shows the annual energy savings results for individual programs or offerings.

² - The New Jersey Comfort Partners Program does not forecast annual target retail savings (DTh).

Portfolio Expenditures Breakdown

Table 6 provides quarterly, and year-to-date costs compared to the full program year budget. Company expenditures during the annual reporting period were approximately 33% of the budget for Program Year 1. Spending will accelerate quickly as other Commercial and Multi-family programs begin to close.

Table 6 - Annual Costs and Budget Variances by Category

Total Utility EE/PDR ¹	Rep	orter orted 00)	Rep	nual orted 000)	Bu	Year dget 000)	Percent of Budget Spent
Capital Costs	\$	286	\$	823	\$	1,350	61.0%
Utility Administration	\$	768	\$	3,543	\$	5,835	60.7%
Marketing	\$	129	\$	511	\$	1,469	34.8%
Outside Services	\$	395	\$	1,155	\$	2,215	52.1%
Rebates	\$	1,997	\$	6,164	\$	34,546	17.8%
No or Low-Interest Loans	\$	4,112	\$	13,753	\$	30,656	44.9%
Evaluation, Measurement & Verification (EM&V)	\$	29	\$	113	\$	2,536	4.5%
Inspections & Quality Control	\$	27	\$	98	\$	159	61.6%
Utility EE/PDR Total	\$	7,743	\$	26,160	\$	78,766	33.2%

¹⁻Categories herein align to NJNG's EE plan as approved by the BPU.

Equity Metrics

These equity metrics draw from the considerable work of the New Jersey Office of Environmental Justice's Overburdened Community (OBC) designations. Per New Jersey's Environmental Justice Law, N.J.S.A. 13:1D-157, census block groups are identified as being an Overburdened Community when specific census criteria are met¹, and metrics reported herein reflect further direction from BPU Staff².

NJNG devoted significant internal resources to developing the proper reports to extract the information used to populate this table from our Customer Information System to calculate the system wide reference points and our PMSS to develop related participation metrics. NJNG intends to improve our understanding of the implications of these metrics and pursue additional focused strategies to improve the participation levels for customers in OBC as needed.

NJNG has pursued distinct outreach strategies to benefit our low-to moderate income customers living in (and outside, e.g., senior populations) OBCs. These strategies provide our customers with information about special programs and enhanced incentives the energy efficiency programs have to help lower their energy bills and potentially improve the comfort and safety of their homes. Activities include outreach events, customer bill inserts and newsletters, email campaigns, social media advertising, and direct mail. NJNG has begun to work with community partners to reach customers in OBC communities. We continue to develop new approaches and strategies to increase participation. For example, NJNG sponsored a Montclair University Sustainable Institute Green Team to develop outreach strategies for OBC communities. Together with NJNG, this team worked directly with Interfaith Neighbors, a nonprofit organization based in Asbury Park to brainstorm and develop strategies that can then be replicated in other OBCs in our territory.

¹ Per N.J.S.A. 13:1D-157: (1) at least 35 percent of the households qualify as low-income households; (2) at least 40 percent of the residents identify as a minority or as members of a State recognized tribal community; or (3) at least 40 percent of the households have limited English proficiency.

² Per guidance from BPU Staff, Overburdened Communities as used in Table 6 reflect those communities where at least 35 percent of the households qualify as low-income households but exclude those communities that are solely designated as Minority, Limited English, or Minority and Limited English.

Table 7 – Equity Performance

Territory-Level Benchmarks	Over-Burdened ¹	Non-Over-Burdened	Total	Ratio ²
# of Household Accounts ³	63,531	461,291	524,822	0.12
# of Large Commercial Accounts ³	1,021	4,630	5,651	0.18
# of Small Commercial Accounts ³	4,545	28,690	33,235	0.14
Totals	69,097	494,611	563,708	0.12

Territory-Level Benchmarks	Over-Burdened ¹	Non-Over-Burdened	Total	Ratio ²
Household Accounts - Annual Energy	50,795,592	447,697,984	498,493,576	0.10
Large Commercial Accounts - Annual Energy	27,595,311	104,746,321	132,341,632	0.21
Small Commercial Accounts - Annual Energy	41,411,785	235,537,917	276,949,702	0.15
Totals (Therms) ⁴	119,802,688	787,982,222	907,784,909.89	0.13
Totals (Dth) ⁴	11,980,269	78,798,222	90,778,490.99	0.13

Program	Sub-Program or Offering	Type of Sub- Program/Offering	Quarter Over- burdened ¹	Quarter Non-Over- burdened	Quarter Ratio ²	YTD Over- burdened ¹	YTD Non-Over- burdened	YTD Ratio ²
Participation								
	HVAC	Core	54	806	0.06	157	2,548	0.06
Residential - Efficient Products 5	Community Kits	Core	185	499	0.27	510	1,197	0.30
Residential - Efficient Products	Online Marketplace	Core	79	781	0.09	752	7,486	0.09
	Appliance Rebates - Washers/Dryers	Core	27	141	0.16	109	726	0.13
Total Efficient Products F	articipation		345	2,227	0.13	1,528	11,957	0.11
Home Performance with Energy Star		Core	20	116	0.15	88	320	0.22
Residential - Existing Homes	Quick Home Energy Check-Up	Additional	23	215	0.10	75	869	0.08
	Moderate-Income Weatherization	Additional	-	-	-	-	-	-
Home Energy Education & Management	Behavioral	Additional	28,165	237,337	0.11	28,165	237,337	0.11
Total Residential Particip	ation		28,553	239,895	0.11	29,856	250,483	0.11
C&I Direct Install	Direct Install	Core	-	2	-	-	2	-
	Prescriptive/Custom	Core	-	-	-	1	1	0.50
Energy Solutions for Business	Energy Management	Additional	-	-	-	-	-	-
	Engineered Solutions	Additional	-	-	-	-	-	-
Total Business Participat	ion		-	2	-	1	3	0.25
	HPwES	Core	-	-	-	-	-	-
Multi-family	Direct Install	Core	-	-	-	-	-	-
	Prescriptive/Custom	Core	-	-	-	-	-	-
	Engineered Solutions	Core	-	-	-	-	-	-
Total Multi-family Partic	ipation	Core	-	-	-	-	-	-
	То	tal Core Participation ⁶	365	2,345	0.13	1,617	12,280	0.12
	Total Ad	ditional Participation ⁶	28,188	237,552	0.11	28,240	238,206	0.11
	Т	OTAL PARTICIPATION 6	28,553	239,897	0.11	29,857	250,486	0.11

Program	Sub-Program or Offering	Type of Sub- Program/Offering	Quarter Over- burdened ¹	Quarter Non- Over-burdened	Quarter Ratio ²	YTD Over- burdened ¹	YTD Non-Over- burdened	YTD Ratio ²
Annual Energy Savings (Dth)								
	HVAC	Core	1,160	16,587	0.07	1,966	35,035	0.05
Residential - Efficient Products ⁵	Community Kits	Core	2,761	6,492	0.30	2,814	6,605	0.30
Residential - Efficient Products	Online Marketplace	Core	317	2,925	0.10	2,683	26,090	0.09
	Appliance Rebates - Washers/Dryers	Core	18	87	0.17	78	452	0.15
Total Efficient Products A	nnual Energy Savings (Dth)		4,256	26,091	0.14	7,541	68,182	0.10
	Home Performance with Energy Star	Core	293	2,526	0.10	1,095	7,183	0.13
Residential - Existing Homes	Quick Home Energy Check-Up	Additional	31	373	0.08	54	778	0.06
	Moderate-Income Weatherization	Additional	-	-	-	-	-	-
Home Energy Education & Management	Behavioral	Additional	6,511	46,883	0.12	10,495	230,447	0.04
Total Residential Annual	Energy Savings (Dth)		11,091	75,873	0.13	19,185	306,590	0.06
C&I Direct Install	Direct Install	Core	-	358	-	-	358	-
	Prescriptive/Custom	Core	-	-	-	39	15	0.72
Energy Solutions for Business	Energy Management	Additional	-	-	-	-	-	-
	Engineered Solutions	Additional	-	-	-	-	-	-
Total Business Annual En	ergy Savings (Dth)		-	358	-	39	373	0.09
	HPwES	Core	-	-	-	-	-	-
Multi-family	Direct Install	Core	-	-	-	-	-	-
	Prescriptive/Custom	Core	-	-	-	-	-	-
	Engineered Solutions	Core	-	-	-	-	-	-
Total Multi-family Annua	l Energy Savings (Dth)		-	-	-	-	-	-
	Total Core A	nnual Energy Savings ⁶	4,549	28,975	0.14	8,675	75,738	0.10
	Total Additional A	nnual Energy Savings ⁶	6,542	47,256	0.12	10,549	231,225	0.04
	TOTAL ANNU	AL ENERGY SAVINGS ⁶	11,091	76,231	0.13	19,224	306,963	0.06

Program	Sub-Program or Offering	Type of Sub- Program/Offering	Quarter Over- burdened ¹	Quarter Non-Over- burdened	Quarter Ratio ²	YTD Over- burdened ¹	YTD Non-Over- burdened	YTD Ratio ²
Lifetime Energy Savings (Dth)								
	HVAC	Core	21,973	369,656	0.06	37,214	660,888	0.05
Residential - Efficient Products ⁵	Community Kits	Core	41,415	97,363	0.30	42,210	99,070	0.30
Residential - Efficient Products	Online Marketplace	Core	2,465	23,114	0.10	20,219	196,907	0.09
	Appliance Rebates - Washers/Dryers	Core	213	1,047	0.17	938	5,419	0.15
Total Efficient Products	Lifetime Energy Savings (Dth)		66,066	491,180	0.12	100,581	962,284	0.09
	Home Performance with Energy Star	Core	4,383	37,890	0.10	16,418	107,606	0.13
tesidential - Existing Homes	Quick Home Energy Check-Up	Additional	317	4,530	0.07	542	7,781	0.07
	Moderate-Income Weatherization	Additional	-	-	-	-	-	-
Home Energy Education & Management	Behavioral	Additional	13,673	98,453	0.12	25,625	480,352	0.05
Total Residential Lifetin	e Energy Savings (Dth)		84,439	632,053	0.12	143,166	1,558,023	0.08
C&I Direct Install	Direct Install	Core	-	5,981	-	-	5,981	-
	Prescriptive/Custom	Core	-	-	-	210	- 5,981	0.29
Energy Solutions for Business	Energy Management	Additional	-	-	-	-	-	-
	Engineered Solutions	Additional	-	-	-	-	-	-
Total Business Lifetime	Energy Savings (Dth)		-	5,981	-	210	6,506	0.03
	HPwES	Core	-	-	-	-	-	-
Multi familu	Direct Install	Core	-	-	-	-	-	-
Multi-family	Prescriptive/Custom	Core	-	-	-	-	-	-
	Engineered Solutions	Core	-	-	-	-	-	-
Total Multi-family Lifeti	me Energy Savings (Dth)		-	-	-	-	-	-
	Total Core Lif	etime Energy Savings ⁶	70,449	535,051	0.12	117,209	1,076,396	0.10
	Total Additional Lif	etime Energy Savings ⁶	13,990	102,983	0.12	26,167	488,133	0.05
	TOTAL LIFETI	ME ENERGY SAVINGS 6	84,439	638,034	0.12	143,376	1,564,529	0.08

¹ - Across all programs, participation/expenditures/savings are classified as either in an Environmental Justice Overburdened Community census block or not based on the program participant's address. Overburdened Community census blocks were developed and defined by the NJ Department of Environmental Protection (<u>www.nj.gov/dep/ej/communities.html</u>). The Overburdened Community (OBC) census blocks are defined with three criteria: at least 35% of households qualify as low-income, at least 40% of residents identify as minority, and at least 40% of households have limited English proficiency. If any of the three criteria is satisfied, the census block is defined as OBC. Staff directed to only include OBC census blocks where at least 35% of households qualify as low-income. For example, a census block that only satisfies the limited English proficiency criteria is not included.

 2 - The %OBC column shows the ratio of the overburdened metric over the total of overburdened plus non-overburdened. Comparing the territory-level benchmark %OBC (upper table) versus the program %OBC (lower table) shows how equitable the distribution of the program is between the overburdened and non-overburdened populations. If the program %OBC is greater than the benchmark %OBC, then the overburdened population is better represented in the program relative to the percentage of overburdened households or business in the utility territory.

³ - Estimation of accounts with overburdened designation determined to be active immediately preceding the current Plan Year.

⁴ - Estimation of usage with overburdened designation for the 12-month period immediately preceding the current Plan Year.

⁵ - Individual line items or totals as listed in the OBC table may differ slightly from those results in Appendix B table due to rounding.

Benefit-Cost Test Results

Table 8 - Benefit-Cost Test Results

As a result of the ramp up of the Commercial and Multi-family programs, NJNG incurred program costs but had very few closed projects during PY22 so limited energy savings were reported in this period. As a result, the Cost Benefit Analysis results will be affected results were negatively affected for PY22.

			Init	ial			Final					
	NJCT	РСТ	PACT	RIMT	TRCT	SCT	NJCT	РСТ	PACT	RIMT	TRCT	SCT
Residential												
Efficient Products	1.5	1.9	1.4	0.8	0.9	2.3	1.8	2.3	1.4	0.8	1.1	1.9
Existing Homes	1.0	1.7	0.6	0.5	0.6	2.2	0.8	1.5	0.6	0.5	0.5	0.9
Home Energy Education & Management	1.8	2.9	1.4	0.8	1.4	2.4	1.8	2.6	1.5	0.8	1.3	1.9
Commercial												
C&I Direct Install	5.6	4.9	3.1	1.4	4.0	11.1	0.7	4.7	0.5	0.4	0.5	0.8
Energy Solutions for Business	4.5	8.5	1.3	0.9	2.8	9.3	0.004	14.8	0.003	0.003	0.003	0.005
Multi-family	2.0	2.3	1.5	1.0	1.2	4.3	N/A	N/A	N/A	N/A	N/A	N/A
Portflio	2.0	2.4	1.6	1.0	1.4	4.0	1.2	2.1	1.1	0.7	0.8	1.5

Please contact the undersigned (via email at <u>APeracchio@NJNG.com</u>) should you have any questions or concerns regarding this report.

Respectfully submitted,

Ane Maire Peracchio

Anne-Marie Peracchio Managing Director Marketing and Energy Efficiency

Cc: Philip Chao Brian Lipman Maura Caroselli Stacy Richardson

List of Appendices

The bolded appendices in this list also appear in the accompanying Annual Report Appendix Spreadsheet.

- Appendix A Participant Definitions
- Appendix B Energy Efficiency and PDR Savings Summary
- Appendix C Energy Efficiency and PDR Savings Summary, LMI Customers
- Appendix D Energy Efficiency and PDR Savings Summary, Business Customers
- Appendix E Annual Baseline Calculation
- Appendix F Energy Savings with 2022 TRM Addendum
- Appendix G Ex-Ante Energy Savings Held for Transfer
- Appendix H Cost Effectiveness Test Details
- Appendix I Program Changes

Appendix A - Participant Definitions

NJ Progra	m/Pathway	Participants (as lead utility)					
	HVAC	Sum of HVAC units (multiple units per customer, counts as multipleparticipants)					
Efficient Products	Rebated Products	Quantity of units rebated (based on SKU)					
Efficient Frouncis	Online Marketplace	Quantity of units sold (based on SKU) - net of returns (negative incurrent period)					
	EE Kits - Giveaway	Per kit delivered					
	Home Performancewith Energy Star	Count of completed HPwES projects					
Existing Homes	Quick Home Energy Checkup	Count of completed visits					
	Moderate Income Weatherization	Same as HPwES - (distinction would be paying for audit in thisprogram)					
Home Energy Education & Management	Behavioral	Count of treatment customers at end of reporting period					
C&I Direct Install	Direct Install	Count based on number of applications/projects completed, notaccount number					
	Prescriptive/Custom	Count based on number of applications/projects completed, notaccount number					
Energy Solutions for Business	Energy Management	Count based on number of applications/projects completed, notaccount number					
	EngineeredSolutions	Count based on number of applications/projects completed, notaccount number					
	MF HPwES	Count of completed HPwES projects					
	Direct Install	Count based on number of projects completed					
Multi-family	Prescriptive/Custom	Count based on number of applications/projects completed, not account number					
	Engineered Solutions	Count based on number of applications/projects completed, not account number					

			Partic	ipation				Expenditures					E	k Ante Energy Savin	gs		
		А	В	с	D = C / B	E	F	G	H	H = G / F	1	J	к	L = K / J	м	o	Р
	NJNG	Current Quarter	Annual Forecasted Participation Number 1	Reported Participation Number YTD	YTD % of Annual Participants	Current Quarter (\$000)	Forecasted Annual Program Cost (\$000)	Repor Progra s Costs (\$000	m , TD Ann	YTD % of nual Budget	Current Quarter Annual Retail Energy Savings (Dth)	Annual Forecasted Retail Energy Savings (Dth)	Reported Retail Energy Savings YTD (Dth)	YTD % of Annual Energy Savings	Current Quarter Reported Wholesale Energy Savings (Dth)	Current Quarter Lifetime Retail Savings 2 (Dth)	YTD Lifetim Retail Savin (Dth)
Residential Programs	Sub-Program																
	HVAC	860	6,385	2,705	42.4%	\$ 4,330	N/A	\$ 14	,176	N/A	17,747	57,524	37,001	64.3%	17,924	391,629	698,1
	Community Kits	684	10,000	1,707	17.1%	\$ 29	N/A		91	N/A	9,253	11,200	9,419	84.1%	9,346	138,778	141,2
Efficient Products *	Others (Online Marketplace & Washers/Dryers)	1,028	18,160	9,073	50.0%	\$ 132	N/#	\$	685	N/A	3,347	53,187	29,303	55.1%	3,380	26,839	223,4
	Total Efficient Products	2,572	34,545	13,485	39.0%	\$ 4,491	\$ 17,79	5 \$ 14	,952	84.0%	30,347	121,911	75,723	62.1%	30,650	557,246	1,062,8
	Home Performance with Energy Star *	136			60.9%	\$ 1,686			,341	56.5%	2,819	20,694	8,278	40.0%	2,847	42,273	124,0
Existing Homes	Quick Home Energy Check-Up	238		944	62.9%	\$ 226			963	53.3%	404	1,964	832	42.4%	408	4,847	8,3
	Moderate-Income Weatherization	-	100		0.0%				397	17.4%	-	3,427	-	0.0%	-	-	
Home Energy Education & Management	Behavioral ³	265,502	256,000	265,502	103.7%	\$ 443	\$ 1,840	5 \$ 1	,652	89.5%	53,394	108,383	240,942	222.3%	53,928	112,127	505,9
	Total Residential	268,448	292,815	280,339	95.7%	\$ 6,955	\$ 33,18	5 \$ 23	,305	70.2%	86,964	256,378	325,775	127.1%	87,834	716,493	1,701,1
Business Programs	Sub-Program																
C&I Direct Install	Direct Install *	2	225	2	0.9%	\$ 298	\$ 15,219	\$	710	4.7%	358	30,935	358	1.2%	362	5,981	5,9
	Prescriptive/Custom *	-	981	2	0.2%	\$ 104	\$ 6,983	\$	443	6.3%	-	42,208	54	0.1%	-	-	7
Energy Solutions for	Energy Management	-	10	-	0.0%	\$ 33	\$ 1,032	\$	117	11.3%	-	2,408	-	0.0%	-	-	
Business	Engineered Solutions	-	7	-	0.0%	\$ 111	\$ 13,535	i \$	425	3.1%	-	30,609	-	0.0%	-	-	
	Total Business	2	1,223	4	0.3%	\$ 546	\$ 36,769) \$ 1	,695	4.6%	358	106,160	412	0.4%	362	5,981	6,7
	HPwES	-	375	-	0.0%	\$-	\$-	\$	-	0.0%	-	-	-	0.0%	-	-	
Multi-family *	Direct Install	-	750	-	0.0%	\$-	\$ -	\$	-	0.0%	-	-	-	0.0%	-	-	
wulti-ramity .	Prescriptive/Custom *	-	22	-	0.0%	\$-	\$ -	\$	-	0.0%	-	-	-	0.0%	-	-	
	Engineered Solutions	-	6	-	0.0%	\$-	\$-	\$	-	0.0%	-	-	-	0.0%	-	-	
	Total Multi-family	-	1,153	-	0.0%	\$85	\$ 7,39	\$	301	4.1%	-	9,248	-	0.0%	-	-	
Other Programs																	
Home Optimization & Peak	Demand Reduction	-	-	-	0.0%	\$-	\$-	\$	-	0.0%	-	-	-	0.0%	-	-	
Total Other		-	-	-	0.0%	\$-	\$-	\$	-	0.0%		-	-	0.0%	-	-	
Portfolio Total		268.450	295,191	280.343	95.0%	\$ 7,586	\$ 77,354	1 ć 37	,301	32.7%	87.322	371,786	326.187	87.7%	88.195	722,474	1,707,9
Portfolio Total Supportive Costs Outside P	entfelie	208,450	295,191	280,343		\$ 7,586 \$ 158			,301 859	32.7% 60.8%	87,322	3/1,/86	320,187	87.1%	88,195	122,474	1,707,9
	ortiono																

Appendix B - Energy Efficiency and PDR Savings Summary

¹ - Annual Forecasted Program Costs reflect values anticipated in Board-approved Utility EE/PDR filings and may incorporate budget adjustments as provided for in the June 10, 2020 Board Order.

² - NNG noted an oversite in the column labeled "Current Quarter Lifetime Savings" subsequent to the PY22Q3 submission. There was a formula which inadvertently pulled in an incorrect value for lifetime savings. The affected programs included Community Kits, Quick Home Energy Check-Up, and Moderate-Income Weatherization. NING has corrected the affected cells with the PY22Q4 submission.

³ - Behavioral lifetime retail savings (Dth) were calculated utilizing useful life of 2.1 years.

Note - On-going discussions within the Evaluation, Measurement and Verification (EM&V) Working Group have noted that there is no clearly defined protocol for calculating peak demand savings for natural gas measures. It is anticipated that this issue will be addressed by the EM&V Working Group within this Triennial. No Peak Demand Savings for natural gas measures will be reported until an agreed upon methodology has been determined.

		Partici	pation	(Customer F	ebate	enditures es & Low/No- ncing)	Ex Ante Ene	ergy Savings
NJI	Α	В	С		D	E	F	
		Reported P Numb	articipation er YTD		ed In osts Y (\$000		Reporte Energy Sa (Dt	
Residential Programs	Sub Program	LMI	Non-LMI or Unverified	LMI		Non-LMI or Unverified	LMI	Non-LMI or Unverified
	HVAC	369	2,336	\$ 2,4	51 \$	10,383	5,900	31,102
Efficient Products	Community Kits	1,707	-	\$	91 \$; -	9,419	-
	Others (Online Marketplace - Washers/Dryers)	-	9,073	\$	- \$	686	-	29,303
	Home Performance with Energy Star ¹	-	408	\$	- \$	6 4,551	-	8,278
Existing Homes	Quick Home Energy Check-Up	-	944	\$	- ¢	5 40	-	832
	Moderate Income Weatherization	-	-	\$	- \$	- 5	-	-
Home Energy Education & Management	Behavioral ^{2 & 3}	6,155	259,347	\$	- \$	5 1,544	7,126	233,816
	Total Residential	8,231	272,108	\$ 2,5	52 \$	17,204	22,445	303,331
Multi-family	HPwes	-	-	\$	- \$		-	-
	Direct Installation/MF QHEC	-	-	\$	- \$		-	-
	Total Multi-family	-	-	\$	- \$	-	-	-
Other Programs				ć		L.		
Home Optimization & Peak Demand Reduction	Total Other	-	-	\$ \$	- \$		-	-
	Total Other	-	-	\$	- 3	-	-	-
	Portfolio Total	8,231	272,108	\$ 2,5	52 \$	17,204	22,445	303,331
	Supportive Costs Outside Portfolio	-,	,100	\$	- \$,	,=
- Income-qualified customers are directed to par	ticipate through the Comfort Partners or Moderate	e Income Weath	erization prograr	ns.				
- NJNG began reporting Behavioral savings relate	d to LMI in Q3.							
³ - Wave of LMI treatment group participants.								

Appendix C - Energy Efficiency and PDR Savings Summary, LMI Customers

Appendix D - Ener	ov Efficiency a	nd PDR Saving	s Summary Bi	isiness Customers
Appendix D = Ener	gy Efficiency a	nu i Dix Saving	s Summary, Di	

		Partici	pation	(Customer Reba	<pre>kpenditures tes and Low/no- hancing)</pre>	Ex Ante Ene	rgy Savings
NJNG		Α	В	С	D	E	F
		Reported Participation Number YTD			Incentive SYTD 00)	Reported Retail Energy Savings YTD (Dth)	
Ducing on Decomposition	Cuth Decomposition	Small	Large	Small	Large	Small	Large
Business Programs	Sub-Program	Commercial ¹	Commercial	Commercial ¹	Commercial	Commercial ¹	Commercial
C&I Direct Install	Direct Install	2	-	\$ 160	\$-	5,981	-
	Prescriptive/Custom	2	-	\$ 66	\$ -	54	-
Energy Solutions for Business	Energy Management	-	-	\$-	\$	-	-
	Engineered Solutions	-	-	\$-	\$-	-	-
	Total Business	4	-	\$ 226	\$-	6,035	-
	HPwES	-	-	\$-	\$-	-	-
Multi-family	Direct Install	-	-	\$-	\$-	-	-
Wurth-ranning	Prescriptive/Custom	-	-	\$-	\$-	-	-
	Engineered Solutions	-	-	\$-	\$-	-	-
				-			
Other Programs							
Home Optimization & Peak Demand Reduction		-	-	\$-	\$-	-	-
	Total Other	-	-	\$-	\$-	-	-
	Portfolio Total	4	-	\$ 226	\$ -	6,035	-
Supp	ortive Costs Outside Portfolio			\$-	\$-		
¹ - Customers with average annual peak demand le	ss than 200 kW.						

Appendix E - Annual Baseline Calculation

					E	nergy Efficiency Co	mpliance Baselines a	and Benchmarks (th	erms)			
Gas Utility	Plan Year	Sales Period	Sales (therms)	Adjustments	Adjusted Retail Sales	Compliance Baseline ²	Overall Annual Energy Reduction Target (%)	Overall Annual Energy Reduction Target (therms)	State-Administered Annual Energy Reduction Target (%)	State-Administered Annual Energy Reduction Target (therms)	Utility-Administered Annual Energy Reduction Target (%)	Utility-Administered Annual Energy Reduction Target (therms)
			(A)	(B)	(C) = (A) - (B)	(D) = Average (C)	(E) ¹	(F) = (E) * (D)	(G) ¹	(H) = (G) * (D)	(I) 1	(J) = (I) * (D)
NJNG	2019	7/1/18 - 6/30/19	706,996,325	5,085,681	701,910,644							
	2020	7/1/19 - 6/30/20	672,480,094	5,866,252	666,613,842							
	2021 *	7/1/20 - 6/30/21	699,330,177	6,556,593	692,773,584							
	2022	7/1/21 - 6/30/22				687,099,357	0.00%	-	0.0%	0.0%	0.0%	0.0%
						68,709,936						
						(Dth)						
(A) Includ	es calend	ar sales for firm an	d interruptible :	service classifica	ations.							
(B) Includ	es adjustr	ments to remove Di	istributed Gene	ration volumes								
¹ - (E,G,I)	No formal	targets establishe	d for PY22 in the	e June 2020 CEA	Framework Orc	ler.						
² - Calcula	ted as ave	erage annual gas us	age in the prior	three plan year	rs (July - June) p	er N.J.S.A. 48:3-87.9	9(a).					

* - Adjusted retail sales for 2021 to match actuals in this report, previous quarterly reports reflected an estimate.

Appendix F - Energy Savings with 2022 TRM Addendum

For compliance purposes throughout the first triennium, the utilities calculate program savings (collectively, Primary Metrics) based on a mix of protocols from the FY20 NJCEP Protocols, FY21 NJCEP Protocols Addendum, and TRMs from other states when no applicable NJ-specific measure calculation is available. This mix of protocols is cataloged in the Joint Utility Coordinated Measures List. The EM&V Working Group created the 2022 TRM Addendum to address key non-NJ specific and dated assumptions in the Coordinated Measures List. Program Energy Savings Metrics calculated with the 2022 TRM Addendum are called the "Secondary Metrics." The Secondary Metric values are informational for stakeholders to assess program performance under a more current and NJ-specific measure calculation approach and to inform future program design.

Table F-1 - Sector-Level Energy Savings: Primary Metrics from 2020/21 TRM								
Annual Energy Savings ¹	Annual Retail (Dth)	Annual Target Retail Savings (Dth) 2	Percent of Annual Target					
Residential	325,775	11,920	3.7%					
Multi-family	-	-	0%					
C&I	412	291	0.1%					
Reported Totals for Utility Administered Programs	326,187	12,211	3.7%					

Table F-2 - Sector-Level Energy Savings: Secondary Metrics from 2022 TRM Addendum

Annual Energy Savings ¹	Annual Retail (Dth)	Annual Target Retail Savings (Dth) 2	Percent of Annual Target
Residential	323,145	9,290	2.9%
Multi-family	-	-	0%
C&I	292	171	0.1%
Reported Totals for Utility Administered Programs	323,437	9,461	2.9%

¹ - Annual energy savings represent the total expected annual savings from all energy efficiency measures within each sector, and not only those measures affected by the FY2022 TRM Addendum.

² - Values in column labeled 'Annual Target Retail Savings' represent total savings for the affected measures by the FY 2022 addendum.

Appendix G - Ex-Ante Energy Savings Held for Transfer

The following data are presented to provide Board Staff visibility into the full picture of statewide annual ex-ante energy projects in progress, with these energy savings being excluded from data presented in the body of the report. These data are based upon coordinated program projects completed by a lead utility and awaiting transfer to a partner utility. The data presented are estimates and are subject to change during transfer to and verification by partner utilities. Transferred savings and associated costs will be included in partner utility results once allocated by the Statewide Coordinator platform.

Program	MWh Held for Transfer
Efficient Products	1,622.1889
Existing Homes	496.5713
C&I Direct Install	62.1863
Energy Solutions for Business ¹	-
Multi-family ¹	-

¹ - Program(s) did not have shared measures held for transferring electric savings and/or associated costs during PY22.

Appendix H - Cost Effectiveness Test Details

As a result of the ramp up of the Commercial and Multi-family programs, NJNG incurred program costs but had very few closed projects during PY22 so limited energy savings were reported in this period. As a result, the Cost Benefit Analysis results will be affected results were negatively affected for PY22.

		Residential	1	Business		MF		Other	Total Portfolio
Fotal Resource Cost T	est (TRC)								
1 Lifetime Avoide	d Electric Supply Costs	\$ 546,439	\$	31,560	\$	-	\$	-	\$ 577,999
2 Lifetime Avoide	d Electric Capacity Costs	\$ 133,639	\$	31,638	\$	-	\$	-	\$ 165,277
3 Lifetime Avoide	d Natural Gas Supply Costs	\$ 4,247,601	\$	13,694	\$	-	\$	-	\$ 4,261,295
4 Lifetime Merit (Order (DRIPE) Benefits	\$ 244,580	\$	41,853	\$	-	\$	-	\$ 286,433
5 Lifetime REC Av	oided Purchases	\$ 300,173	\$	16,169	\$	-	\$	-	\$ 316,342
6 Lifetime Whole	sale Volatility Value	\$ 492,768	\$	7,689	\$	-	\$	-	\$ 500,457
7 Lifetime Avoide	d Replacement	\$-	\$	-	\$	-	\$	-	\$-
8 Lifetime Avoide	d T&D Costs	\$ 7,250,020	\$	149,348	\$	-	\$	-	\$ 7,399,368
Total Benefit = 1	+2+3+4+5+6+7+8	\$ 13,215,220	\$	291,951	\$	-	\$	-	\$ 13,507,171
9 Lifetime Partici	oant Costs	\$ 5,681,571	\$	4,653	\$	-	\$	-	\$ 5,686,224
10 Lifetime Admin	stration Costs	\$ 3,470,255	\$	1,411,717	\$	-	\$	-	\$ 4,881,972
11 Lifetime Progra	m Investment Costs	\$ 5,823,352	\$	70,662	\$	-	\$	-	\$ 5,894,014
Total Costs (9+1	0+11)	\$ 14,975,178	\$	1,487,031	\$	-	\$	-	\$ 16,462,209
Benefit Cost Rat	io = (1+2+3+4+5+6+7+8)/(9+10+11)	0.9		0.2		N/A		N/A	0.8
Particpant Cast Tast (PCT)								
Particpant Cost Test (12 Lifetime Partici		\$ 21,802,698	\$	299,967	\$	-	\$	-	\$ 22,102,665
13 Lifetime Repayr		\$ 2,442,464		19,784		-		-	
	io = (11+12+13)/9	2.1	Ŷ	4.2	Ŷ	N/A	<u> </u>	N/A	2.1
						,		,	
Program Administrat	or Cost Test (PAC)								
Benefit Cost Rat	io = (1+2+3+4+5+6+7+8)/(10+11+13)	1.1		0.2		N/A		N/A	1.0
Ratepayer Impact Me	asure Test (RIM)								
14 Lifetime utility		\$ 13,215,219	\$	291,951	\$	-	\$	-	\$ 13,507,170
15 Lifetime Utility		\$ 18,893,222		1,624,796		_		-	\$ 20,518,018
	io = (1+2+3+4+5+6+7+8+14)/(10+11+13+15)	0.9	Ļ	1,024,750 0.2	Ţ	N/A	<u>,</u>	N/A	0.8
	· · · · · · · · · · · · · · · · · · ·								
	•								
16 Lifetime Avoide	d Electric Supply Costs	\$ 677,329		40,950	\$	-	\$	-	
16 Lifetime Avoide 17 Lifetime Avoide	d Electric Supply Costs d Electric Capacity Costs	\$ 187,838	\$	44,292	\$	-	\$	-	\$ 232,130
16 Lifetime Avoide17 Lifetime Avoide18 Lifetime Avoide	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs	\$ 187,838 \$ 5,395,135	\$ \$	44,292 17,598	\$ \$	-	\$ \$		\$ 232,130 \$ 5,412,733
16 Lifetime Avoide17 Lifetime Avoide18 Lifetime Avoide19 Lifetime Merit 0	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Drder (DRIPE) Energy Benefits	\$ 187,838 \$ 5,395,135 \$ 347,831	\$ \$ \$	44,292 17,598 58,289	\$ \$ \$	-	\$ \$ \$	-	\$ 232,130 \$ 5,412,733 \$ 406,120
16 Lifetime Avoide17 Lifetime Avoide18 Lifetime Avoide19 Lifetime Merit (20 Natural Gas Derivation	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530	\$ \$ \$ \$	44,292 17,598 58,289 270	\$ \$ \$ \$	-	\$ \$ \$ \$	-	\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116	\$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677	\$ \$ \$ \$ \$	-	\$ \$ \$ \$ \$		\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030	\$ \$ \$ \$ \$	44,292 17,598 58,289 270	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs	 \$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 	\$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677	\$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings	 \$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812	\$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs	 \$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ 232,130 \$ 5,412,733 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit O 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings	 \$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ 232,130 \$ 5,412,733 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288
16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit O 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided RPS RE 23 Lifetime Avoide 24 Lifetime Avoide 25 Avoided SO ₂ + N 26 Job and Energy Total Benefit = (d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ - \$ - \$ -
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit O 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ - \$ - \$ 2,051,521 \$ - \$ 11,792,606
16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit O 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided RPS RE 23 Lifetime Avoide 24 Lifetime Avoide 25 Avoided SO ₂ + N 26 Job and Energy Total Benefit = (d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Dant Costs	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ - \$ - \$ 2,051,521 \$ - \$ 11,792,606
 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Deri 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy Total Benefit = (27) 27 Lifetime Particip 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Dant Costs Istration Costs	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488 \$ 11,725,184	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - 487,986 67,422	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ 232,130 \$ 5,412,733 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy Total Benefit = (27) 27 Lifetime Particin 28 Lifetime Admin Total Costs = (27) 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Dant Costs Istration Costs	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488 \$ 11,725,184 \$ 3,544,908	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - 487,986 67,422 1,441,778	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ - \$ 2,4290,474 \$ 11,792,606 \$ 4,986,686 \$ 16,779,292
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (20) 20 Natural Gas Der 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy Total Benefit = (27) 27 Lifetime Particin 28 Lifetime Admin Total Costs = (27) Benefit Cost Rational Administration 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Dant Costs istration Costs +28) io = (16+17+18+19+20+21+22+23+24+25+26)/(27+28)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ 24,290,474 \$ 11,792,600 \$ 4,986,686 \$ 16,779,292
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (2) 20 Natural Gas Deritor 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy Total Benefit = (2) 27 Lifetime Partici 28 Lifetime Adminition 29 Total Costs = (2) 30 Benefit Cost Ration 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOx Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Dant Costs istration Costs +28) io = (16+17+18+19+20+21+22+23+24+25+26)/(27+28)	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092 1.6	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ 2,051,521 \$ 24,290,474 \$ 11,792,606 \$ 4,986,686 \$ 16,779,292 1.4
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (2) 20 Natural Gas Deritor 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy 27 Total Benefit = (2) 28 Lifetime Adminining 29 Total Costs = (2) 30 Benefit Cost Ration 29 Lifetime Merit (2) 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits hand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOX Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) Doant Costs istration Costs +28) io = (16+17+18+19+20+21+22+23+24+25+26)/(27+28) (NJCT) Order (DRIPE) Capacity Benefits	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ - \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092 1.6	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ 24,290,474 \$ 11,792,606 \$ 16,779,292 1.4
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (2) 20 Natural Gas Derivation 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy 27 Lifetime Particion 28 Lifetime Adminin 29 Total Benefit = (2) 20 Benefit Cost Rest 29 Lifetime Merit (2) 30 Lifetime Avoide 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits mand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOX Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) coant Costs istration Costs 12+28) io = (16+17+18+19+20+21+22+23+24+25+26)/(27+28) (NJCT) Order (DRIPE) Capacity Benefits d Ancillary Services Costs ¹	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 58,812 487,986 67,422 1,441,778 1,509,200 0.3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ 24,290,474 \$ 11,792,606 \$ 4,986,686 \$ 16,779,292 1.4
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (2) 20 Natural Gas Derivation 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + Noided SO₂ + Noide 26 Lifetime Particion 27 Lifetime Particion 28 Lifetime Adminin 29 Total Benefit = (27) 20 Benefit Cost Rate 29 Lifetime Merit (20) 30 Lifetime Avoide 31 Lifetime Avoide 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOX Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) coant Costs istration Costs 16= (16+17+18+19+20+21+22+23+24+25+26)/(27+28) (NJCT) Order (DRIPE) Capacity Benefits d Ancillary Services Costs ¹ d Replacement	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092 1.6 3 3 4 5 5 5 5 1 5 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ 24,290,474 \$ 11,792,606 \$ 11,792,606 \$ 16,779,292 1.4
 16 Lifetime Avoide 17 Lifetime Avoide 18 Lifetime Avoide 19 Lifetime Merit (2) 10 Natural Gas Derivation 21 Avoided RPS RE 22 Avoided Whole 23 Lifetime Avoide 24 Lifetime Emission 25 Avoided SO₂ + N 26 Job and Energy 27 Lifetime Particion 28 Lifetime Adminininini 29 Total Benefit = (2) 29 Lifetime Merit (2) 30 Benefit Cost Ration 30 Lifetime Avoide 31 Lifetime Avoide 32 Lifetime Avoide 33 Lifetime Avoide 34 Lifetime Avoide 35 Lifetime Avoide 36 Lifetime Avoide 37 Lifetime Avoide 38 Lifetime Avoide 39 Lifetime Avoide 30 Lifetime Avoide 31 Lifetime Avoide 32 Lifetime Non Eriv 	d Electric Supply Costs d Electric Capacity Costs d Natural Gas Supply Costs Order (DRIPE) Energy Benefits nand Reduction Induced Price Effects (DRIPE) C Purchase Costs sale Volatility Costs d Wholesale T&D Costs on Savings IOX Emissions Damages Savings Economic Value-Added Multiplier Benefits 16+17+18+19+20+21+22+23+24+25+26) coant Costs istration Costs 16= (16+17+18+19+20+21+22+23+24+25+26)/(27+28) (NJCT) Order (DRIPE) Capacity Benefits d Ancillary Services Costs ¹ d Replacement	\$ 187,838 \$ 5,395,135 \$ 347,831 \$ 22,530 \$ 366,116 \$ 626,030 \$ 9,050,313 \$ 5,130,476 \$ 1,998,890 \$ \$ 23,802,488 \$ 11,725,184 \$ 3,544,908 \$ 15,270,092 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	44,292 17,598 58,289 270 20,677 10,284 184,183 58,812 52,631 - - - 487,986 67,422 1,441,778 1,509,200 0.3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		 \$ 232,130 \$ 5,412,733 \$ 406,120 \$ 22,800 \$ 386,793 \$ 636,314 \$ 9,234,496 \$ 5,189,288 \$ 2,051,521 \$ - \$ 24,290,474 \$ 11,792,606 \$ 4,986,686 \$ 16,779,292 1.4

Appendix I - Program Changes

This table is a summary of the program changes that were already reported in the Q1, Q2, and Q3 quarterly reports plus any changes that occurred in Q4.

Program	Summary of Program Changes
Efficient Products	N/A
Existing Homes	N/A
Home Energy Education & Management	N/A
C&I Direct Install	1
Energy Solutions for Business	N/A
Multi-family	N/A
¹ - During PY22, the Utilities considered feedbac trade allies regarding the structure of the incent	

trade allies regarding the structure of the incentive calculations for the Direct Install Program and reached agreement on modifications to the screening tool for Direct Install projects that was implemented on July 1, 2022.

N/A - No other major program changes were implemented during PY22.