



PNM Energy Efficiency Program

2022 Annual Report



April 17, 2023

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Introduction

- The 2022 Program was cost effective, as measured by the Utility Cost Test (“UCT”), with a UCT of 1.77 for the portfolio of programs.
- The total annual net savings after free rider and other adjustments were accounted for was 96.1 GWh at the customer meter.
- The two load management programs represent an average hourly capacity of approximately 51MW.
- Total program expenses were about \$30.9 million.
- The average cost per kWh of lifetime energy savings from the energy efficiency programs, not including load management, was 2.44¢/kWh.

The PNM Energy Efficiency Program empowers individuals and businesses across PNM’s service area to save energy and money by installing measures and/or adopting practices that result in the reduction of electric consumption or demand curtailment within their homes and businesses. In 2020, and 2021, the COVID-19 pandemic forced adaptability and flexibility in how we interacted with our customers while still providing a positive customer experience. This innovation and malleability not only helped us in maintaining program offerings during these unprecedented circumstances, but also in meeting our targets towards achieving the 2025 Efficient Use of Energy Act (“EUEA”) savings goals. Any necessary modifications that occurred due to the pandemic and continued in 2022 will be described in the specific program sections throughout the report below.

Program Results Summary

PNM submits this annual report on the performance of the PNM Energy Efficiency and Load Management Program for calendar year 2022, (“2022 Program”). This annual report is based on the measurement and verification of PNM’s 2022 programs performed by Evergreen Economics (“Evergreen”). The Evaluation of the 2022 Public Service Company of New Mexico Energy Efficiency and Demand Response Programs (“M&V Report”) prepared by Evergreen is submitted as a separate

document.

The programs evaluated in this annual report were approved by the New Mexico Public Regulation Commission (“NMPRC” or “Commission”) in Case No. 20-00087-UT. This report covers all costs incurred in the implementation of the programs and all customer participation in the programs from January 1, 2022, through December 31, 2022.

This is the fourteenth annual report on PNM’s Energy Efficiency Programs. Results are based upon independent measurement and verification.

Table 1 provides the definition of “Participants or Units” by program.

Table 1

Programs	Participants	Units	Description
Residential Comp.	X	X	Cooling Equip/Appliances/Homes
Residential Products		X	Light bulbs/Non-lighting Measures
Commercial Comp.	X	X	Apartments/Projects/Distributors
Easy Savings		X	Self-install Kits Mailed to Homes
Energy Smart	X		Single Family and Multifamily Homes
New Home Const.	X		New Homes
PNM Home Works	X		Res Education/Self-install Kits
Behavioral Comp.	X		Res Reports and C&I Process Improvements
Power Saver (LM)		X	Res/Sm Bus AC Units/Smart T-Stats
Peak Saver (LM)	X		C&I Premises

Table 2 shows the total number of customer participants (or units), the annual energy and demand savings, the lifetime energy savings, and the total costs for each of the programs for calendar year 2022.

Table 2

Program	Participants or Units	Annual Savings (kWh)	Annual Savings (kW)	Lifetime Savings (kWh)	Total Program Costs
Residential Comp.	9,977	7,920,539	1,479	56,600,135	\$ 4,728,302
Residential Products	1,593,925	38,895,954	7,381	705,961,561	\$ 5,678,631
Commercial Comp.	459	35,566,893	4,885	377,009,078	\$ 9,236,758
Easy Savings	4,672	2,685,739	244	35,451,756	\$ 416,736
Energy Smart	300	1,248,219	64	20,158,729	\$ 651,142
New Home Const.	1,402	1,186,457	317	17,796,860	\$ 773,518
PNM Home Works	13,926	3,817,037	161	42,636,303	\$ 687,152
Behavioral Comp.	219,522	4,267,563	-	6,972,253	\$ 885,561
Power Saver (LM)	60,716	366,045	36,249	366,045	\$ 5,512,439
Peak Saver (LM)	157	155,921	15,449	155,921	\$ 2,333,855
Total	1,905,056	96,110,366	66,231	1,263,108,642	\$ 30,904,095

Program Information

This section highlights the successful strategies and accomplishments of the following programs in 2022.

- (1) Commercial Comprehensive
- (2) Residential Comprehensive
- (3) Residential Products
- (4) Energy Smart
- (5) PNM Home Works
- (6) New Home Construction
- (7) Easy Savings Kit
- (8) Power Saver load management
- (9) Peak Saver load management
- (10) Behavioral Comprehensive
- (11) Market Transformation
- (12) Self-Direct

Commercial Comprehensive

PNM contracted with DNV, Inc. to implement the Commercial Comprehensive energy efficiency program which is comprised of seven sub-programs. DNV implemented the New Construction, Retrofit Rebates, Building Tune-Up, Quick Saver small business, Distributor Discount programs and the Multifamily sub-programs in 2022. Personnel continued standard use of personal protective equipment (“PPE”) during 2022 as recommended by the CDC.

New Construction and **Retrofit Rebates** offer pre-set and custom incentives for installing qualifying equipment in new and existing buildings, and for implementing efficient designs in new buildings. Eligible equipment includes energy efficient lighting, HVAC, refrigeration, food service equipment, motors and variable speed drives, window film and plug load controls. **Building Tune-Up** offers incentives for building owners and operators to improve whole-system building efficiency through retro-commissioning, performing advanced tune-ups of air conditioning systems, and to support building operator certification training. In the PNM **Distributor Discount** program, a participating distributor sells high-efficiency equipment from an approved product list to an eligible PNM customer; the customer receives an instant discount at the point of purchase, and PNM pays the rebate directly to the distributor.

In 2022, there were 261 customer projects in the New Construction, Retrofit Rebate, Building Tune-Up, and Distributor Discount programs. The projects completed at these customers' facilities paid customers approximately \$3.1 million in rebates and will save over 25.7 million kWh per year.

PNM **Quick Saver** is a direct-install program for small business customers who have an annual peak electric demand of 200 kW or less. It offers business customers pre-set incentives for installing qualifying lighting products and refrigeration in existing buildings. An important aspect of the program is ongoing training of participating contractors for continued and successful program implementation. For 2022, the Quick Saver program processed over \$1.3 million in incentives on 198 customer projects which will save approximately 7.5 million kWh per year across the PNM service area.

The **Multifamily** program is designed to meet the needs of the hard-to-reach multifamily customer segment by offering an attractive mix of low-cost direct install measures, such as lighting replacement, along with deeper savings measures, such as upgrades to cooling equipment, all in one package. The program completed 55 projects, paid about \$998,000 in rebates, and achieved 2.4 million kWh of energy savings.

Residential Comprehensive

Refrigerator Recycling

ARCA, Inc., the third-party contractor utilized for the Refrigerator Recycling program, operates a center in Albuquerque that disassembles and recycles all refrigerators and freezers collected through the program. The program recycled 6,880 units in 2022.

"Bulldog Energy Solutions has been working with PNM/DNV Energy Services team for over a decade. Our relationship is strong, and it has been both fulfilling and rewarding... We look forward to the future with PNM/DNV and new opportunities to deliver more energy savings to our customers."

-Veronica Shaw of Bulldog Energy Solutions, 2022 PNM Trade Ally Award Recipient



The Retailer Recycling component was added in 2021 to the Refrigerator Recycling program. Through this offering, customers who purchase new refrigerators at participating appliance retailers can easily schedule a pickup of their old appliance at their home while visiting the retailer's location. This convenient one-stop-shop feature allows customers to also arrange for the removal of outdated, inefficient units at the point of sale of their new unit which offsets overall program costs by allowing the program implementer to collect multiple units at a single central location versus traveling across the PNM service area.

In addition, retailers also qualify for incentive payments for their partnership, thereby encouraging other local businesses to participate in the program. Although this retailer component has experienced difficulty gaining traction, PNM plans to continue recruitment efforts into 2023. The Refrigerator Recycling program as a whole achieved approximately 4 million kWh savings in 2022.



“PNM’s multifamily energy efficiency rebate program provided meaningful financial incentives that helped offset the cost of achieving a net-zero operation for Siler Yard. Coupled with other state and federal incentives, it really makes achieving high levels of energy efficiency in new multifamily construction a win-win.”

-Daniel Werwath, Executive Director of NM Interfaith Housing, discussing Siler Yard, a multifamily complex in Santa Fe

Home Energy Checkup, Low-Income Checkup

In the Home Energy Checkup program, a Home Energy Specialist visits a customer’s home and completes a walk-through energy assessment and provides a comprehensive report which includes personalized recommendations based on the conducted assessment. The Energy Specialist installs a selection of direct installation (“DI”) measures, including LEDs, weather stripping, door sweeps, outlet gaskets, big gap filler, and advanced power strips. Wi-Fi smart thermostats are installed at the time of the energy assessment for a nominal co-pay in homes with refrigerated air conditioning. The Energy Specialist also visually inspects and makes recommendations regarding existing windows and level of insulation in the home as well as the age and condition of the existing appliances and provides information about available rebates for early appliance replacement with new ENERGY STAR® qualified appliances. Rebates for installing high efficiency cooling equipment are also available for eligible participants with old inefficient cooling equipment.

All in-home Energy Specialists are bilingual and bilingual call center Customer Representatives or virtual

Energy Specialists are available upon request to ensure that customers are easily able to make appointments and have their energy efficiency questions and concerns answered. Customers have the flexibility to self-schedule appointments via the internet as well.

Income-qualified participants receive the same walk-through assessment, installed DI measures, and a comprehensive assessment report as referenced in the above paragraph. Eligible participants may also qualify for a free ENERGY STAR® refrigerator replacement and free installation of a Wi-Fi smart thermostat for homes with refrigerated air conditioning.

PNM actively seeks out ways to collaborate in the community. PNM is collaborating with New Mexico Gas Company (“NMGC”) to offer Home Energy Checkups to income qualified residential customers living in Native American communities. For several years in a row, PNM has partnered with Prosperity Works and Energy Works to offer income qualified Home Energy Checkups and will continue to look for more opportunities to collaborate with community organizations.

In 2022 PNM continued to offer customers a way to participate in this program virtually. The virtual offering includes rebate applications for appliances and/or cooling equipment, and customized DI measures mailed. Following the initial interaction, the customers receive a follow-up video phone call to review energy savings tips, address customer questions, and to verify that DI measures were installed. A total of 1,333 customers throughout PNM’s service area received a Home Energy Checkup achieving over 1.7 million kWh savings.

Residential Midstream Cooling

In 2021, the Residential Cooling program was modified from a downstream mail-in rebate program to a midstream program offering discounted HVAC systems, heat pumps, heat pump water heaters, and smart thermostats at the distributor level. The program works with distributors across the PNM service area to offer discounts to contractors on high efficiency cooling equipment when the unit is purchased and installed in an active residential PNM customer’s home. With the discount being offered by distributors, customers are no longer required to submit paperwork to receive the benefit. Rebates for evaporative cooling equipment are still available, however, they are offered through the Residential Retail Products Program. A/C tune-ups were added to the cooling program in 2021 as well.

Virtual training with distributors and contractors is still available if requested, however, participating partners chose to participate in over a dozen in-person training sessions.

The newly modified midstream program did not perform as well as expected in 2021 due to a number of factors exacerbated by the ongoing effects of the COVID-19 pandemic including: minimal response to training and recruitment efforts due to time and resource constraints within the HVAC contractor and

“This last year the Midstream Program has benefitted our company in numerous ways. Utilizing program rebates we have developed and maintained relationships with new customers which has increased our sales revenue for the year and expanded our customer base. The program has not only benefitted us and our customers, it has also benefitted the end users of our products. It has created incentive for end users to purchase higher efficiency equipment which is not only a net positive for the environment, it also saves the customer money in the long run.”

- Lisa Cordova,
Vice President
Albuquerque Winair Co.

wholesaler community, equipment cost increases, and low inventory of eligible equipment components due to ongoing supply chain issues. However, while some COVID-19 related issues such as supply chain and resource constraints continued into 2022, the program is seeing continued improvement in recruiting additional wholesale partners to participate in the program. The program achieved savings of approximately 369,000 kWh in 2022. There are 13 wholesale distributors currently participating in the program.

Residential Products

In 2021, the Residential Lighting program was expanded to become the Residential Products program to continue incentivizing LED bulbs, in addition to, in-store discounts on additional non-lighting measures such as advanced power strips, ceiling fans, and air purifiers to name a few. In addition to these newly added discounted items, the program also offers mail-in, online, and instant rebates on high efficiency home appliances and evaporative cooling equipment. A total of 250 retailers including large home improvement stores, warehouse clubs, discount retailers, drug stores, independent hardware, charity retailers, and dollar stores participated in the program throughout the PNM service area achieving a total of approximately 39 million kWh savings and providing approximately \$4 million in total incentives.

Each participating retailer displayed point-of-purchase (“POP”) materials describing the benefits of LEDs, in addition to the newly expanded non-lighting product list and implemented other mass marketing strategies to engage customers. Retailer training was completed in person by field representatives in 2022. Field representatives visited participating retailers on either a bi-weekly or monthly basis depending on the retailer’s sales volume. Field representatives visited stores 2,849 times in 2022.

Home Works

The PNM Home Works program provides energy efficiency education and energy saving kits to fifth graders and to high school students through the Energy Innovation program. Due to the continued COVID-19 pandemic restrictions in spring of 2021, the Home Works and Energy Innovation programs were delivered through an Energy Champion e-learning course, 100% virtual presentations, and a Kahoot game with a primary focus on energy efficiency, renewable and non-renewable natural resources, and how electricity is created and delivered into homes and businesses with a special emphasis on sustainability and the unique energy usage footprint of a high school-aged student in the home. Virtual presentations are still offered if requested, however most participating schools have returned to requesting in-person presentations.

Once presentations are completed, each fifth grade and high school student receives a sealed customized PNM kit of energy efficiency devices to install at home, which includes easy-to-install lighting and weatherization measures including outlet gaskets, weather stripping, and door sweeps and a written guide to assist students and parents with installation of the efficient technologies while also learning about additional ways to reduce energy waste in the home. The high school kit also contains a tier-two advanced power strip. Participating teachers have the opportunity to receive a mini grant to use in their classrooms to help maximize the number of surveys returned from students and to confirm students installed the kits at home. The value of the mini grant is based on student participation levels.

The program provided just under 14,000 kits to 153 schools throughout the PNM service area during the 2022 spring and fall semesters. The program achieved approximately 3.8 million kWh savings in 2022.



"Y'all go above and beyond the call of duty. Thank you for your invaluable contributions to enrich education."

- Rick Cole, Century High School

New Home Construction

This program incentivizes home builders to exceed the level of energy efficiency required by the applicable building code. The program offers participants incentives for building new, highly efficient, single-family residential homes through either a prescriptive or a performance path. Under the prescriptive path, home builders receive rebates for specific energy efficient technologies, whereas under the performance path home builders can choose to receive rebates for overall home performance upon verification by credentialed home energy raters. The program provided incentives for 1,402 homes in 2022, 528 of which were prescriptive homes, and 874 of which were performance homes. A total of 52 builders participated in the program in 2022; 32 in the central region, 15 in the northern region, and 5 in the southern region of our service area. Supply chain delays, as well as increased building costs and delayed home completion time continued to impact this program in 2022.

Low-Income Focused Programs

In 2022, the portfolio as a whole expended approximately 9% of the budget in low-income focused program offerings throughout our service area.

Easy Savings Kit

In 2022, a custom pick-a-kit portal offered low-income PNM customers the choice to customize an energy kit from a list of pre-selected DI measures that include various specialty LEDs, advanced power strip and other energy saving items. If the customer does not want to customize their own energy saving kit offerings, they may choose the option of a traditional pre-made energy kit that has a standardized mix of DI measures from those listed above. The primary channels for recruiting customers are direct mail or email campaigns. In 2022, the measure mix was enhanced to include outlet gaskets, weather stripping as well as a door sweep. As the market changes, the measure mix will continue to be evaluated for cost effectiveness.

"Not a day goes by that I am not thankful for this wonderful blessing! Winter and summer I no longer worry about being comfortable in this old house or worry about utility bills I can't pay. Thank you seems barely enough to show my gratitude and joy from the blessings you all have brought to me. Please know it is sincere and truly heartfelt!!"

-Joani Amos, Energy Smart weatherization recipient

PNM continues to work with agencies to retain continued awareness of the PNM Easy Savings Kit program and to encourage agencies to provide information and links on their websites as applicable. In 2022, over 4,600 kits were mailed to customers generating approximately 2.6 million kWh energy savings.

EnergySmart

PNM is contracted with the New Mexico Mortgage Finance Authority ("MFA") to install LEDs and replace inefficient refrigerators. Additional weatherization efficiency measures such as attic insulation, air and duct sealing, window and door replacement, and programmable thermostats are also offered through the program to help income-qualified single family and multifamily customers save money and energy in their homes. In 2022,

MFA and its subcontractors leveraged PNM and federal funding, and provided services to 300 income-qualified homes including 75 multifamily and achieved 1.2 million kWh energy savings.

Behavioral Comprehensive

Commercial Strategic Energy Management (SEM) Program

This program targets commercial and industrial customer classes by focusing on business practice change from senior management through employee staff to positively affect organizational culture in reducing energy waste and improving energy intensity. The SEM approach emphasizes the importance of equipping and enabling plant management and staff to impact energy consumption through behavioral and operational change and structured planning of facility upgrades and process improvements.

Beginning in 2021, the SEM program implementer, Strategic Energy Group (SEG), began working in conjunction with the PNM Strategic Account Management team to contact a list of customers whose annual electric usage exceeds 4 GWh as the minimum threshold to participate. In addition to working with the Account Management team, other recruitment strategies were put into place including multiple SEM overview webinars both real-time and recorded, email campaigns, and virtual lunch and learn meetings. In total, there are currently five participants in the SEM program from the healthcare, education, and governmental customer segments with other prospective pending participants being engaged.

While only a small number of customers were able to participate in 2022, other customers could not participate due to issues stemming from COVID-19, lack of available resources, and prior recent participation in similar energy management programs. By nature, a behavioral-based program sees customers realizing savings slowly over the course of a multi-year implementation process. The program achieved 1.3 million kWh energy savings in the 2022 program year.

Residential Home Energy Report Program

This behavior-based program offering utilizes more digital versus the historical paper only delivery method which reduces paper waste and offers a broader sample of participants personalized tips and efficiency rebate recommendations through a phone app, website and/or emailed report. Participants have the capability to fill in any gaps about their homes on a pre-populated online survey, view energy efficiency tips and other program offerings and discover which high level end-use categories specific to their homes, such as cooling, heating and “always on” equipment are consuming the most energy.

This program made its debut in summer 2021 to over 200,000 residential customers within PNM’s service area. However, lower residential annual consumption averages and higher than expected attrition rates due to customer move in/move outs contributed to a decrease in energy savings achieved. A digital expansion wave was launched to over

21,312 customers to counteract the rising attrition rates. Over 3.8 million e-mails were sent in 2022 with a high delivery rate of 97%, and healthy open and click rates of 45% and 4% respectively. Almost 217,000 paper reports were sent to selected customers who did not have e-mail addresses on record.

This program has been very well received by participants with an average e-mail like rate of 80% and is in the top three of the most preferred means to learn about customer-specific energy consumption. This program achieved over 2.9 million kWh energy savings for the 2022 program year with new engagement strategies in place to encourage even more behavior-based energy savings in 2023.

Market Transformation

The goal of the Market Transformation (“MT”) strategy increases awareness of energy efficiency to induce behavioral changes that result in the adoption of energy efficient measures. In 2022, MT strategy continued to focus on outreach across the PNM service area to help customers better understand how they use energy and how to make better-informed decisions on ways they can use energy more efficiently. This outreach took a variety of forms, including social media outreach and promotional campaigns highlighting the benefits of energy efficiency.

Power Saver and Peak Saver Load Management

Peak Saver and Power Saver are the PNM load management programs. PNM customers with annual peak demand of 50 kW or greater can participate in Peak Saver and customers with annual peak demand of less than 50 kW, including residential customers, can participate in Power Saver. These load management programs were successfully utilized to offset the need for peaking resources during the summer of 2022. PNM dispatched the load management resource three times for a total of about 10 hours. The peak 15-minute load curtailment amount was 76.3 MW. Table 3 shows the times and durations of the load curtailment events in 2022. Generac Grid Services implements the Peak Saver program on behalf of PNM.

Table 3

Date	Start Time (MDT)	End Time (MDT)	Duration (Hr)
6/10/2022	3:00 PM	7:00 PM	4
7/11/2022	3:00 PM	7:00 PM	4
9/2/2022	5:00 PM	7:00 PM	2

On October 28, 2020, the NMPRC issued a final order in Case No. 20-00087-UT, PNM's energy efficiency program application for 2021, 2022 and 2023, which directed Evergreen Economics, as independent program evaluator for PNM's energy efficiency and load management ("EE/LM") programs, to do the following:

- In PNM's future M&V reports, the independent evaluator shall verify that load reductions from deployment of PNM's LM Programs avoided or offset the need for or use of additional peaking units or power purchases or shifted demand from peak to off peak period.

Evergreen addressed these points in the Load Management as a Resource section of the M&V Report. Evergreen made the statement below. Note that the Figures referenced are figures in the M&V report which will be posted to [PNM.com/regulatory](https://www.pnm.com/regulatory).

The evaluation team concludes that PNM's demand response (DR) programs, Power Saver and Peak Saver, were highly effective reducing peak demand during the summer of 2022 when PNM faced tight supply conditions. The LM programs achieved their intended objective of helping to fulfill PNM's reserve margin and responding quickly to operational needs. Both functions offset the need for construction or purchase of traditional peak capacity resources.

The LM programs made a significant contribution during on-peak hours, as demonstrated by Figure 43. This figure shows the actual system load with DR in place and the counterfactual load without DR on June 10th. Both Peak Saver and Power Saver were activated on this day due to a resource constraint brought on by the unexpected loss of a generation resource. During the four-hour event, which was dispatched between 3:00 PM and 7:00 PM, an average of 45.2 MW of load was reduced on PNM's system. Figure 45 shows that PNM system load would have peaked at the hour ending 7:00 PM at approximately 1842 MW absent dispatch of the LM programs. Dispatching DR lowered the net peak for the day by almost 2.5 percent.

Program Benefits and Goals

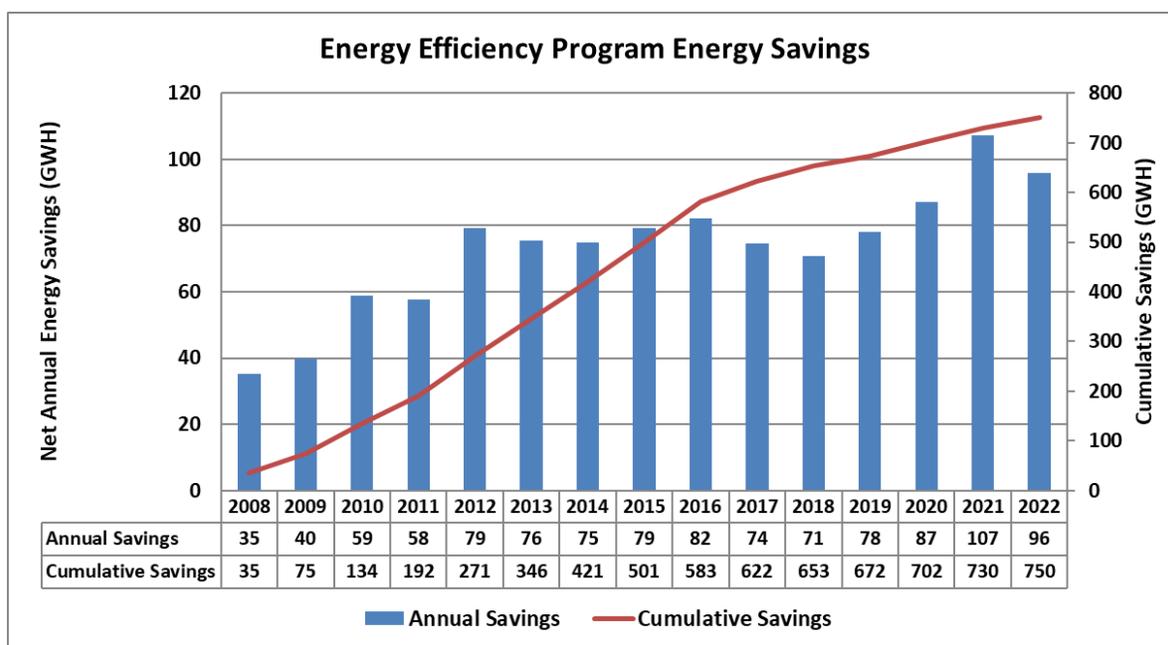
The 2022 Program benefitted the PNM system, customers in all customer classes, the environment, and the New Mexico economy.

The Efficient Use of Energy Act ("EUEA") required that PNM achieve cumulative energy savings of 411 GWh by 2014, equal to five percent (5%) of PNM's retail sales in 2005, and 658 GWh by 2020, equal to eight percent (8%) of 2005 retail sales. PNM's cumulative energy savings of 421 GWh through 2014 exceeded the 2014 savings requirement specified in the EUEA. PNM's cumulative energy savings of 702 GWh through 2020 exceeded the 2020 savings target and represents approximately 8.6% of 2005 retail sales. The 2019 amendment to the EUEA requires that PNM achieve energy savings of not less than 5 percent (5%) of 2020 retail sales from its EE and LM programs implemented in years 2021 through 2025. When PNM filed its application for approval of its 2021 through 2023 EE&LM Program Plan, this target was estimated to be approximately 403 GWh. Based on actual 2020 retail sales, PNM programs will have to achieve 395 GWh or, on average, 79 GWh of annual savings in the years 2021 through 2025.

Figure 1 shows the annual incremental savings on the left axis and annual cumulative savings achieved through 2022 on the right axis.

The energy efficiency measures installed by PNM customers participating in PNM programs in any specific year will continue to save energy in years to come. However, for cost-effectiveness analysis and for purposes of determining the cumulative savings applicable to the EUEA goals in 2014, 2020 and 2025, the average effective useful life (“EUL”) of the portfolio is applied. The average EUL for the portfolio is determined by dividing the total lifetime savings by the annual savings. The average portfolio EUL for the 2022 Program is 13 years. The average portfolio EUL has historically averaged 10 years. The increase in EUL can mainly be attributed to the extension of the existing EISA I standards. The EISA II standard was anticipated in future years and anticipated to take effect in 2023. The annual savings from 2009 through 2013 no longer contribute to the cumulative savings since the average ten-year life for those savings has ended. The cumulative savings for 2022 in Figure 1 are the sum of all annual savings beginning in 2014.

Figure 1



The 2022 program provided almost \$13 million in rebates and helped a wide range of customers with direct incentives that offset the cost of energy efficiency improvements and lowered their electric bills. Highlights include:

- 6,880 inefficient refrigerators and freezers were removed from the market.
- Over 1.5 million products including lighting and non-lighting measures were discounted through the Residential Products program.

- More than 12,000 low-income customers benefited from the five programs that serve low-income customers.
- Over 450 commercial customer projects, including over 198 small commercial projects, were completed in the business energy efficiency programs.
- 55 common area projects with a combined 69 units were renovated with high-efficiency equipment.

Approximately 61,000 residential and business customers participated in the demand response programs. The 2022 Energy Efficiency Program also had a significant impact on the New Mexico economy. Customer incentives are designed to pay between 25 and 75 percent of the incremental cost of an efficiency improvement. Using a multiplier factor of two, the economic impact of the customer incentives would be about \$26 million dollars. The 2022 Program also had a significant impact on local employment. Most of the PNM programs are implemented by third-party contractors who employ local staff. The 2022 third-party program implementers directly supported approximately 41 local employees. In addition, much of the \$12.8 million in incentives paid to customers supported additional employment by local companies and trade allies that provided energy efficiency improvements.

In addition, the energy savings from the 2022 Program will result in a reduction in water consumption and CO₂ emissions. Estimated water savings and reductions of CO₂ are shown in Table 10 below.

The PNM Energy Efficiency Program, now in its fifteenth year, was a key resource in PNM's 2020 Integrated Resource Plan ("2020 IRP"). The 2020 IRP evaluated many different portfolio options that could be implemented to meet expected growth in the demand for electricity for a planning period of 20 years. Energy efficiency and load management programs are found to be cost-competitive alternatives when compared to meeting system needs with traditional supply-side resources. PNM identified its most cost-effective portfolio to meet the objective of the NMPRC IRP Rule which is to "identify the most cost effective portfolio of resources to supply the energy needs of customers."¹ The IRP Rule further provides that "For resources whose costs and service quality are equivalent, the utility should prefer resources that minimize environmental impacts."² PNM's IRP included the impacts of the 2020 Program Plan and projected growth of programs that allow PNM to achieve the spending requirements and energy saving goals specified in the EUEA.

Tariff Collections

The costs of implementing the 2022 Program are recovered through the Energy Efficiency Rate Rider No. 16 ("Rider") on customer bills. The Rider for 2022 included a program cost rate element that was assessed monthly as a percentage (3.350% of the monthly bill charge. A profit incentive rate element was also assessed monthly as a percentage including a 2022 base element (0.231% and a 2021 reconciliation element 0.056%).

¹ 17.7.3.6 NMAC.

² *Id.*

In 2022, PNM collected \$30,604,381 in program funding through the 3.350% Rider No. 16 rate element. In 2020, PNM's plan year Rider No. 16 collections exceeded expenditures by \$870,666 resulting in an underage added to the amount available for program expenditures in 2022 pursuant to 17.7.2.8(E) NMAC. Accordingly, the amount of rider collections available for program funding in 2022 was \$31,475,047 (\$30,604,381+\$870,666). PNM's actual expenditures in 2022 were \$30,904,095, resulting in an under-expended amount of \$570,952. Accounting for carrying charges on monthly balances in 2022 of \$78,421 resulted in a net underage of \$649,373. The Final Order in Case No. 20-00087-UT authorized PNM to earn a Profit Incentive in 2022. PNM submitted the documentation for a tariff rider adjustment, including the program cost under-expenditure and profit incentive reconciliation, with supporting testimony, along with this annual report.

2022 Cost Reconciliation and Impact on 2024 Program Budget

In compliance with the Final Order, PNM will add the 2022 under-expended amount of \$649,373 to the approved 2024 program plan budget as approved in Case No. 20-00087-UT.

Regulatory Proceedings

On November 4, 2020, the Commission voted to renew the contract with Evergreen Economics to perform independent measurement and verification of New Mexico energy efficiency and load management programs for the 2021 and 2022 program years.

On April 15, 2022, PNM filed Advice Notice No. 585 to reconcile the collection of the 2021 program costs and profit incentive. Rider No. 16 was modified to reflect the profit incentive reconciliation, and the new rates went into effect on May 31, 2022.

Energy Efficiency Rule Reporting Requirements

The following section of the annual report provides detailed information on the performance of the 2021 Program including information required by the NMPRC Energy Efficiency Rule, Section 17.7.2.14 – Annual Report.

Documentation of Program Expenditures

All 2022 Program expenses including labor, materials, third-party expenses, and all other costs, are tracked through a unique set of accounts. Likewise, all revenue collected through the tariff rider is booked to a special regulatory asset account which is balanced against the expenses. These costs and revenues are kept separate from PNM rate-base accounting; therefore, there is no cross-subsidization and no impact on PNM's allowed rate of return. Costs specific to an individual program, such as customer incentives and third-party administration, are allocated directly to that program. Shared costs, such as internal administration, are allocated to each program in proportion to their direct costs.

Total calendar year expenditures for the 2022 Program were \$30,904,095. These expenditures include all expenses incurred by PNM to develop and implement the individual programs. The same total expenditure data was provided to Evergreen to be included in the M&V Report. Table 4 shows the allocation of costs to the various programs for calendar year 2022.

Table 4

Programs	Admin	M&V	Promotion	Incentives (Rebates)	Third-Party Costs	Market Transformation	Total Costs
Residential Comp.	\$ 173,822	\$ 148,295	\$ 98,202	\$ 1,605,791	\$ 2,599,992	\$ 102,201	\$ 4,728,302
Residential Products	\$ 213,418	\$ 55,327	\$ 120,571	\$ 3,907,384	\$ 1,256,449	\$ 125,482	\$ 5,678,631
Commercial Comp.	\$ 343,427	\$ 187,870	\$ 194,020	\$ 5,207,398	\$ 3,102,120	\$ 201,922	\$ 9,236,758
Easy Savings	\$ 15,816	\$ -	\$ 8,935	\$ 233,473	\$ 149,212	\$ 9,299	\$ 416,736
Energy Smart	\$ 24,712	\$ -	\$ 13,961	\$ 498,260	\$ 99,678	\$ 14,530	\$ 651,142
New Home Const.	\$ 17,069	\$ -	\$ 9,643	\$ 392,087	\$ 344,683	\$ 10,036	\$ 773,518
PNM Home Works	\$ 26,079	\$ -	\$ 14,733	\$ 631,006	\$ -	\$ 15,334	\$ 687,152
Behavioral Comp.	\$ 31,299	\$ 60,860	\$ 17,683	\$ -	\$ 757,317	\$ 18,403	\$ 885,561
Power Saver (LM)	\$ 208,187	\$ 26,963	\$ 117,616	\$ 350,856	\$ 4,686,411	\$ 122,406	\$ 5,512,439
Peak Saver (LM)	\$ 87,552	\$ 26,963	\$ 49,463	\$ -	\$ 2,118,399	\$ 51,477	\$ 2,333,855
Total	\$ 1,141,383	\$ 506,278	\$ 644,828	\$ 12,826,254	\$ 15,114,262	\$ 671,090	\$ 30,904,095

The total approved budget for 2022 was \$31,018,623 and the total actual expenses for the year were \$30,904,095; therefore, total spending was less than 1 percent below the approved budget. Table 5 shows the budgeted amounts, the actual expenditures, and the variances for each program.

Table 5

Programs	Approved Budget	2022 Actual Costs	Variance (\$)
Residential Comp.	\$ 6,480,692	\$ 4,728,302	\$ (1,752,390)
Residential Products	\$ 3,641,180	\$ 5,678,631	\$ 2,037,451
Commercial Comp.	\$ 9,525,633	\$ 9,236,758	\$ (288,875)
Easy Savings	\$ 587,822	\$ 416,736	\$ (171,087)
Energy Smart	\$ 246,427	\$ 651,142	\$ 404,715
New Home Const.	\$ 682,841	\$ 773,518	\$ 90,677
PNM Home Works	\$ 582,089	\$ 687,152	\$ 105,063
Behavioral Comp.	\$ 1,083,133	\$ 885,561	\$ (197,572)
Power Saver (LM)	\$ 5,655,445	\$ 5,512,439	\$ (143,005)
Peak Saver (LM)	\$ 2,533,360	\$ 2,333,855	\$ (199,506)
Total	\$ 31,018,623	\$ 30,904,095	\$ (114,528)

Estimated and Actual Participation and Savings

Table 6 presents estimated and actual customer participation (or units), annual energy savings and annual peak demand savings for each program. Estimated values represent the targets for calendar year 2022. Please note that all energy savings are reported as savings at the customer meter.

Table 6

Program	Estimated Participants or Units	Actual Participants or Units	Estimated Savings (kWh)	Actual Savings (kWh)	Estimated Savings (kW)	Actual Savings (kW)
Residential Comp.	10,602	9,977	7,308,118	7,920,539	1,601	1,479
Residential Products	1,008,890	1,593,925	29,744,405	38,895,954	4,959	7,381
Commercial Comp.	676	459	52,277,959	35,566,894	8,365	4,885
Easy Savings	7,200	4,672	1,642,095	2,685,739	126	244
Energy Smart	238	300	991,092	1,248,219	244	64
New Home Const.	1,100	1,402	1,510,569	1,186,457	370	317
PNM Home Works	12,850	13,926	3,435,723	3,817,037	473	161
Behavioral Comp.	329,179	219,522	17,073,997	4,267,563	977	-
Power Saver (LM)	-	60,716	1,548,878	366,045	55,000	36,249
Peak Saver (LM)	-	157	782,000	155,921	25,000	15,449
Total	1,370,735	1,905,056	116,314,834	96,110,366	97,114	66,231

Estimated and Actual Costs and Avoided Costs (Benefits)

Table 7 presents the net present value of estimated and actual monetary costs and benefits for each program. Estimated costs and benefits are those contained in the 2022 Program Plan, approved in Case No.20-00087-UT. The actual net present value of monetary benefits was determined by taking the discounted value of the annual avoided costs times the annual savings over the effective useful life of each program. Please see Appendix A for PNM avoided costs.

Table 7

Program	Estimated NPV of Monetary Costs	Actual NPV of Monetary Costs	Estimated NPV of Monetary Benefits	Actual NPV of Monetary Benefits
Residential Comp.	\$ 4,728,302	\$ 3,602,736	\$ 2,387,803	\$ 1,408,487
Residential Products	\$ 5,678,631	\$ 5,247,662	\$ 27,616,028	\$ 24,840,745
Commercial Comp.	\$ 9,236,758	\$ 10,666,682	\$ 12,534,928	\$ 13,124,040
Easy Savings	\$ 416,736	\$ 379,526	\$ 1,106,692	\$ 633,814
Energy Smart	\$ 651,142	\$ 252,209	\$ 483,146	\$ 182,617
New Home Const.	\$ 773,518	\$ 931,208	\$ 1,033,367	\$ 1,306,480
PNM Home Works	\$ 687,152	\$ 776,517	\$ 879,465	\$ 557,006
Behavioral Comp.	\$ 885,561	\$ 432,714	\$ 86,841	\$ 64,073
Power Saver (LM)	\$ 5,512,439	\$ 4,641,494	\$ 5,956,446	\$ 1,039,335
Peak Saver (LM)	\$ 2,333,855	\$ 2,537,792	\$ 2,538,628	\$ 538,836
Total	\$ 30,904,095	\$ 29,468,541	\$ 54,623,346	\$ 43,695,434

Cost Effectiveness Evaluation

Table 8 presents the Utility Cost Test (“UCT”) ratio for each program and for the total portfolio of programs as determined by the independent evaluator. The UCT ratio is the ratio of actual monetary benefits to monetary costs. The UCT of the total portfolio of programs as determined by the independent evaluator was 1.77.

Table 8

Program Name	Net UCT
Residential Comp.	0.51
Refrig. Recycl.	0.62
HEC - Mkt	0.41
HEC - LI	0.46
Cooling & Midstream	0.47
Residential Products	3.58
Commercial Comp.	1.36
Easy Savings	2.66
Energy Smart (MFA)	0.74
New Home Const.	1.34
Behavioral	0.10
Home Works	1.28
Power Saver (LM)	1.08
Peak Saver (LM)	1.09
Total	1.77

Table 9 reflects a separate UCT based on avoided costs that were filed and approved with the Commission and this UCT also relies on contract terms that defined payment terms and savings assumptions.

Table 9

	kWh	kW	Lifetime kWh	EUL	LI%	Total Cost	2021 UCT
Residential Comp.	7,920,539	1,479	56,600,135	7	31.1%	4,728,302	0.41
Refrig. Recycl.	4,089,349	949	20,107,329	4.92	0.0%	\$ 1,588,016	0.62
HEC - Mkt	1,788,600	172	16,007,966	8.95	0.0%	\$ 1,060,675	0.41
HEC - LI	1,674,087	194	14,983,078	8.95	100.0%	\$ 1,181,752	0.46
Midstream Cooling	368,504	165	5,501,763	14.93	0.0%	\$ 897,860	0.47
Residential Products	38,895,954	7,381	705,961,561	18.15	0.0%	\$ 5,678,631	4.86
Commercial Comp.	35,566,894	4,885	377,009,078	10.60	26.3%	\$ 9,236,758	1.45
Easy Savings	2,685,739	244	35,451,756	13.20	100.0%	\$ 416,736	2.66
Energy Smart (MFA)	1,248,219	64	20,158,729	16.15	100.0%	\$ 651,142	0.74
New Home Const.	1,186,457	317	17,796,860	15.00	0.0%	\$ 773,518	1.34
Behavioral Comp.	4,267,563	-	6,972,253	2.00	0.0%	\$ 885,561	0.10
Home Works	3,817,037	161	42,636,303	11.17	40.0%	\$ 687,152	1.28
Power Saver (LM)	366,045	36,249	366,045	1.00	0.0%	\$ 5,512,439	1.08
Peak Saver (LM)	155,921	15,449	155,921	1.00	0.0%	\$ 2,333,855	1.09
Total	96,110,368	66,231	1,263,108,642			\$ 30,904,095	1.77

Self-Direct Program Participation and Evaluation

PNM received no Self-Direct applications in 2022.

Estimated Water and CO2 Savings

Table 10 shows the estimated carbon dioxide (“CO₂”) emission reductions and water savings associated with the PNM portfolio of programs. The annual avoided CO₂ emissions and water savings for the 2022 Program were determined by multiplying the PNM weighted-average emissions rate and water consumption by the annual and lifetime energy savings.

Table 10

Emission Impact	Avoided Electric Emissions Rate (Metric Tons/GWh)	Annual Avoided Emissions (Metric tons)	Lifetime Avoided Emissions (Metric tons)
CO ₂ Reduced	419	40,282	529,393
Water Impact	Water Consumption (gal/MWH)	Annual Water Saved (gal)	Lifetime Water Saved (gal)
Water Saved	240.0	23,066,488	303,146,074

Independent Measurement and Verification Report

PNM contracted with Evergreen Economics to conduct the independent evaluation of the 2022 Program. The M&V Report is submitted as a separate document along with this annual report. A summary of some of the more important findings and recommendations, along with comments from PNM, is provided below.

Background and Purpose

On November 2, 2020, the Commission renewed the selection of Evergreen Economics as the state-wide independent evaluator and approved the M&V budget and scope of work for a two-year term to conduct annual measurement and verification analysis for the 2022 program year. Evergreen conducted an independent evaluation of the 2022 Program and their M&V Report is based on data from January 1, 2022, through December 31, 2022. PNM worked closely with Evergreen to provide the data necessary to complete the 2022 M&V Report. This included rebate processing and participant files, budget data by program and avoided-cost information.

Summary of Findings and PNM Comments

The total portfolio of programs was found to be cost effective. The results of the M&V analysis will be used to adjust technical assumptions made by PNM regarding program performance, unit savings and net-to-gross values. The M&V Report contains specific findings and recommendations which are summarized in the following section.

Key Points

The evaluator performed a project sampling of engineering desk reviews for Commercial Comprehensive, deemed savings reviews, and statistical models for Peak and Power Saver programs. The reviews resulted in high realized gross savings, particularly for kWh.

Participant surveys were conducted with participants in the Retrofit Rebate, QuickSaver, Home Energy Checkup, Residential Midstream Cooling, and Refrigerator Recycling programs. Customer satisfaction with the PNM Energy Efficiency programs remains high.

Overall, participant surveys in the Commercial Comprehensive program resulted in high levels of satisfaction in 2022 from the already high levels observed in previous years.

A low-income household survey identified that opportunities continue to exist to achieve energy efficiency in the low-income segment and to increase trust and protect customer privacy among low-income households. However, cost effectiveness continues to be a concern among our low-income portfolio of programs.

Commercial Comprehensive

The Commercial Comprehensive program consists of the following sub-programs; Quick Saver, Retrofit Rebates, New Construction, Midstream and Multifamily. The evaluation activities, which included surveys with Retrofit Rebate and Quick Saver participants as well as interviews with Multifamily and New Construction participants, noted that nearly all interviewees expressed high levels of satisfaction with the majority of participants reporting ratings of “very satisfied” for all eleven program components. The survey asked about PNM as an energy provider, the rebate program, time it took to receive the rebate, equipment and quality of installation, contractor interaction and quality of installation, and the overall value of program regarding the time and effort it required to participate. The

evaluator specifically mentioned that Quick Saver participants were the most satisfied overall of all eleven program components.

To determine the mix of projects to evaluate, a statistically significant sample of projects, stratified by savings and measure type, was defined for detailed desk reviews. The evaluator requested the implementer to continue to improve upon the documentation whenever changes in the calculation steps are made to ensure that the documentation can be followed to reproduce the reported savings estimates. For each sub-program, the evaluator determined an Engineering Adjustment Factor (“EAF”) by dividing the verified savings by the reported savings value. PNM and the program implementer have improved upon savings assumptions and calculations based on prior years evaluations, and as a result the evaluator EAF is very close to 1.0. On average, an EAF of 0.987 was determined for kWh savings and an EAF of 0.985 was determined for kW savings.

Despite the EAF adjustment being close to 1.0, the evaluator had several recommendations regarding documentation of energy savings calculations, and additional documentation of prescriptive elements that may not be Energy Star or not on the DLC (Design Lights Consortium) qualified products list. Further information is available in the 2022 M&V report.

Residential Comprehensive

The Prescriptive path under the Residential Comprehensive program is made up of three sub-programs: Refrigerator Recycling, Home Energy Checkup (including a low-income component), and Residential Midstream Cooling. Home Energy Checkup includes a walk-through energy assessment and installation of a selection of DI measures and rebates for energy efficient appliances as well as a newly offered virtual home visit. The evaluator was able to reasonably confirm the Residential Comprehensive program savings assumptions; however, they recommend further documentation of baseline assumptions and calculation methods. Participant surveys were also used as a process evaluation tool that assessed how well the programs operate.

Residential Products (Formerly Residential Lighting Program)

The Residential Products program incorporates in-store, mail-in and online incentives for non-lighting residential products such as ENERGY STAR appliances, advanced power strips, room ACs, as well as incentives on LED products in retailers across PNM’s service area.

The evaluator determined savings impacts using a pricing elasticity model which estimates sales of incentivized lamps when compared to pricing of regular lamps. Approximately 75 percent of lamps sold were priced at \$2.00 or less, demonstrating the effectiveness of incentives.

The evaluator did not make any specific comments regarding the Residential Products separate from the lighting program; however, they did report the savings separately. The total net savings of the lighting and residential products program was 38.9 GWh,

lighting accounted for 28.2 GWh and non-lighting products achieved 10.7 GWh representing 27.4 percent of the Program savings.

Residential Behavioral Home Energy Reports

The PNM Home Energy Reports (“HER”) program provides customers with information on their energy consumption that includes a comparison with a matched set of similar households. As part of this design, the program implementer Bidgely randomly assigns customers to a treatment group that receives the HER that provides tips on how to reduce energy consumption. Those customers not in the treatment group are randomly assigned to the control group and do not receive the report.

Early energy reports were “digital” in that email communication was the primary point of contact. A subsequent effort used paper mail. Paper mail realized the most savings, however, earlier digital communications were unable to target higher use customers. This program will be re-evaluated in 2023.

Peak Saver

The Peak Saver program is a demand response program offered to non-residential customers with peak load contributions of at least 50 kW. The program compensates participants for reducing electric load upon dispatch during periods of high system load. Peak Saver was implemented by Generac Grid Services in 2022, who managed the enrollment, dispatch, and settlement with participating customers. During the summer 2022 demand response season, there were 157 participating facilities and three demand response events.

One-minute interval load data is used to calculate load impacts using a customer baseline (“CBL”) method per the contract between PNM and Generac Grid Services. A CBL is an estimate of what participant loads would have been absent the DR event dispatch. Load impacts are the difference between the CBL and the metered load during the event. The evaluator was able to replicate the calculations used for contract settlement. The peak impact as reported by the implementer results in an average event capacity of 26,831 kW. Evaluator-calculated performance resulted in an average performance of 15,449 kW. The difference is largely a result of prior hour adjustments to the measured baseline prior to the event.

Power Saver

Power Saver is a direct load control program offered to residential, small commercial (< 50 kW), and medium commercial (50 kW – 150 kW) PNM customers. To facilitate load control, participants must have a device attached to the exterior of their air conditioning unit. This “paging” device receives a paging signal that will activate a control sequence that cycles the unit’s compressor for an interval of time (usually half the time as normal) to reduce peak demand in the summer. Residential and small commercial participants receive an annual \$25 incentive for their participation. Medium commercial participants receive an annual incentive of \$9 per ton of refrigerated air conditioning. A residential smart thermostat component was added to the program in 2018 and a residential bring your own thermostat (“BYOT”) specifically promoting Google-Nest was promoted in 2022.

For thermostat components, load curtailment is achieved via communication with the Wi-Fi-enabled thermostat.

There were two Power Saver events during the summer 2022 demand response season. Power Saver was not called for the third event that Peak Saver was called for. All events used a 50% cycling strategy where curtailment is based on the runtime in the previous hour. The peak contract capacity as determined by the maximum 15-minute capacity during an event was 49,480 kW. The realized gross energy savings was 366,031 kWh and the realized gross demand savings (calculated as an hourly average reduction) was 36,250 kW.

Appendix A – PNM Avoided Costs

The following table provides the avoided energy, demand and carbon costs for calendar year 2022. These costs were used in the PNM cost-effectiveness model and by Evergreen in its program evaluation. These are the avoided costs included in PNM's most recently approved energy efficiency plan, Case No. 20-00087-UT.

Avoided Energy and Capacity Costs EE and DR	EE Energy Capacity (\$/kWyr)	EE Avoided T & D (\$/kWyr)	EE Total Capacity MW (\$/kW-yr)	EE Energy (incl CO ₂) (\$/kWh)	DR MW (\$/kW-yr)	Avoided Energy Cost DR (\$/kWh)
2021	\$0.00	\$5.00	\$5.00	\$0.009	\$30.42	\$0.00
2022	\$159.13	\$5.08	\$164.20	\$0.012	\$139.59	\$0.00
2023	\$148.55	\$5.15	\$153.70	\$0.014	\$119.80	\$0.00
2024	\$141.06	\$5.23	\$146.29	\$0.013	\$135.53	\$0.00
2025	\$149.81	\$5.31	\$155.11	\$0.015	\$150.01	\$0.00
2026	\$155.65	\$5.39	\$161.04	\$0.017	\$129.07	\$0.00
2027	\$138.36	\$5.47	\$143.83	\$0.016	\$125.84	\$0.00
2028	\$134.22	\$5.55	\$139.77	\$0.019	\$125.84	\$0.00
2029	\$139.38	\$5.63	\$145.02	\$0.020	\$125.84	\$0.00
2030	\$129.56	\$5.72	\$135.28	\$0.019	\$113.44	\$0.00
2031	\$121.17	\$5.80	\$126.97	\$0.021	\$101.00	\$0.00
2032	\$110.58	\$5.89	\$116.47	\$0.029	\$80.64	\$0.00
2033	\$133.42	\$5.98	\$139.39	\$0.026	\$141.75	\$0.00
2034	\$130.84	\$6.07	\$136.91	\$0.028	\$141.75	\$0.00
2035	\$128.52	\$6.16	\$134.68	\$0.029	\$141.75	\$0.00
2036	\$126.14	\$6.25	\$132.40	\$0.030	\$140.99	\$0.00
2037	\$118.09	\$6.34	\$124.43	\$0.028	\$91.05	\$0.00
2038	\$136.97	\$6.44	\$143.41	\$0.030	\$160.06	\$0.00
2039	\$129.03	\$6.54	\$135.57	\$0.030	\$65.70	\$0.00

