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March 18, 2022

**Via E-Docket**

Ms. Elizabeth Rolando  
Chief Clerk  
Illinois Commerce Commission  
527 East Capitol Avenue  
Springfield, IL 62701

Re: MidAmerican Energy Company  
Annual Energy Efficiency Reconciliation Report  
Docket No. 19-0734

Dear Ms. Rolando:

Enclosed for filing please find MidAmerican Energy Company's (MidAmerican) 2021 Energy Efficiency Annual Reconciliation Report. Included with the report are Exhibits A-H. The Report also includes the Verification of Erin Rasmussen.

MidAmerican filed its revised Energy Efficiency Cost Recovery Rider Information Tariff Sheets for natural gas and electric on March 16, 2022 to become effective April 1, 2022.

Sincerely,

*/s/ Arick R. Sears*

Arick R. Sears  
Senior Regulatory Attorney

Attachment(s)

# **2021 Annual Reconciliation Report**

**for**

## **MidAmerican Energy Company Energy Efficiency Plan**

**Docket No. 19-0734**

**March 20, 2022**



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## 1. Executive Summary

### 1.1 Introduction

MidAmerican Energy Company's (MidAmerican) 2021 Annual Reconciliation Report summarizes its Illinois 2021 energy efficiency program results. The 2021 program results are provided in the following exhibits:

- Exhibit A – Measure level statistics by program
- Exhibit B – Comparison of program level savings and expenses to budget
- Exhibit C – Gross-benefit/cost information by program
- Exhibit C – Net-benefit/cost information by program
- Exhibit C – Ex-post net-benefit/cost information by program
- Exhibit D – Annual summaries of energy savings and benefits by program
- Exhibit E – Net-savings calculations for electric programs
- Exhibit E – Ex-post NTG-savings calculations for electric programs
- Exhibit F – Net-savings calculations for natural gas programs
- Exhibit F – Ex-post NTG-savings calculations for natural gas programs
- Exhibit H – 2022 Illinois program changes

### 1.2 Background

On June 1, 2008, MidAmerican began offering energy efficiency programs (EE) as a pilot program in its Illinois service territory pursuant to the Illinois Commerce Commission's (Commission) Order issued on May 21, 2008, in Docket Nos. 08-0108 and 08-0109 (Consolidated). In Docket No. 12-0132, the Commission examined MidAmerican's EE programs and determined that the EE programs should continue beyond the initial pilot program. MidAmerican filed a 2014-2018 five-year EE plan in July 2013, and the Commission approved

the five-year EE plan in Docket Nos. 13-0423 and 13-0424 (Consolidated). Due to legislative developments in Iowa, MidAmerican sought and obtained a one-year extension, until December 31, 2019, of its 2014-2018 Energy Efficiency Plan to allow time for it to secure necessary regulatory approvals for its Iowa Energy Efficiency Plan and develop and file a new Illinois Energy Efficiency Plan. In compliance with the extension, and pursuant to Section 8-408 of the Public Utilities Act (the “PUA”), MidAmerican filed its proposed 2020-2023 Illinois Energy Efficiency Plan (“Plan”) on July 11, 2019, and the Commission approved the four-year EE plan in Docket No. 19-0734 on November 26, 2019.

### 1.3 Overall Plan Performance

MidAmerican presents its 2021 annual report on EE programs and activities. The 2021 results are for the second year of the 2020-2023 Illinois plan. MidAmerican’s 2020-2023 plan includes a comprehensive set of programs that help Illinois customers manage energy use, reduce cost, protect the environment and increase business competitiveness.

The COVID-19 pandemic, labor shortages and global supply chain issues made 2021 a challenging year for the delivery of EE programs across the country including Illinois. MidAmerican continued to offer virtual options to customers when in-person was not an option and allowed preapproval extensions to accommodate supply delays. For example, the Nonresidential Energy Solutions program saw delays on four large projects representing 2,700,000 kWh and 19,000 therms. These projects were expected to complete in 2021, but were delayed to 2022, due to supply chain and other pandemic-related complications.

The residential programs were also impacted as customers either delayed energy efficiency upgrades or were delayed due to equipment availability. However, four times as many customers utilized the HomeCheck® Online home energy assessment and ordered energy efficiency kits than anticipated.

Both electric and natural gas gross savings and net savings were lower than projected in 2021.

- Annual gross electric savings were 12,742,680 kWh, which was 55 percent of overall planned savings. Annual net electric savings were 11,343,359 kWh, which was 56 percent of overall planned savings.
- Annual gross peak demand savings were 37,163 kW, which was 112 percent of overall planned peak demand savings. Annual net peak demand savings were 36,876 kW, which was 114 percent of overall planned peak demand savings.
- Annual gross natural gas savings were 379,995 therms, which was 52 percent of overall planned savings. Annual net natural gas savings were 329,797 therms, which was 54 percent of overall planned savings.
- Annual gross peak therm savings were 4,647 therms, which was 48 percent of overall planned peak therm savings. Annual net peak therm savings were 3,955 therms, which was 49 percent of overall planned peak therm savings.

Both electric and natural gas spend were lower than projected in 2021.

- Electric program spending was \$2,918,395, which was 67 percent of overall planned electric spend.
- Natural gas program spending was \$670,586, which was 66 percent of overall planned natural gas spend.
- Total electric and natural gas program spending was \$3,588,981, which was 67 percent to overall planned spend.

## 2. Residential Programs

In 2021, residential programs achieved annual gross energy savings of 8,041,149 kWh, which was 72 percent of planned savings; and 280,191 therms, which was 54 percent of

planned savings. Annual net energy savings were 7,774,957 kWh, which was 72 percent of planned savings; and 251,818 therms, which was 56 percent of planned savings. Total spending for residential programs was \$1,362,602, which was 74 percent of planned spend.

## 2.1 Residential Equipment

The Residential Equipment program promotes the purchase of high-efficiency heating and cooling equipment including furnaces, air conditioners, air source heat pumps, ductless minisplit heat pumps and smart thermostats. The program provides customers with rebates to offset the higher purchase cost of efficient equipment.

In 2021, the Residential Equipment program achieved annual gross energy savings of 338,006 kWh, which was 45 percent of planned savings; and 70,934 therms, which was 31 percent of planned savings. Annual net energy savings were 202,803 kWh, which was 39 percent of planned savings; and 42,560 therms, which was 26 percent of planned savings. Total spending for the Residential Equipment program was \$477,212 which was 68 percent of planned spend.

Residential Equipment program highlights for 2021 include the following:

- 628 central air conditioners were rebated in 2021, which was 57 percent of planned units. Central air conditioners provided 71 percent of the achieved total gross electric savings for the Residential Equipment program.
- 742 natural gas furnaces were rebated in 2021, which was 49 percent of planned units. Natural gas furnaces provided 92 percent of the achieved total natural gas savings for the Residential Equipment program.
- 178 smart thermostats were rebated in 2021, which was 89 percent of planned units.

MidAmerican promoted the Residential Equipment program by featuring the program in:

- MidAmerican's suite of EE programs on MidAmerican's website, customer bill messaging, paper newsletters, eNewsletters and social media throughout the year.

Key activities planned for 2022 include:

- Continued use of social media, eNewsletters, and bill messages throughout the year.
- Increase trade ally use of the online rebate application tool.
- Implement an online rebate application for residential customers.

## 2.2 Residential Assessment

The Residential Assessment program promotes energy efficiency strategies for existing residential customers. The program is delivered through two components that assist residential customers in reducing energy usage:

- HomeCheck Online, which provides participants access to an interactive home assessment. This online tool is a simple home survey that asks customers questions to determine the source of their greatest energy use and then provides energy-saving tips on ways to reduce their energy consumption based on their responses from the survey.
- Energy efficiency kits, participants who complete the online home energy assessment are eligible for a free energy efficiency kit containing educational material, information on other EE programs, and installation instructions.

In 2021, the Residential Assessment program achieved both gross and net annual energy savings of 321,451 kWh, which was 412 percent of planned savings; and 17,973 therms, which was 413 percent of planned savings. Total program spending was \$135,033 which was 170 percent of planned spend.

Residential Assessment program highlights for 2021 include the following:

- An enhanced web experience was launched in May which made it easier to navigate the tool, thus improving customer engagement and increasing participation.



- Over 3,000 online assessments were completed resulting in 3,024 energy efficiency kits distributed to customers. Results from customer survey cards show customer satisfaction with the online assessment and the energy efficiency kit to be positive.
- The active customer login rate increased from 6.51 percent in 2020 to 35.2 percent in 2021.
- The energy efficiency call center assisted 15 customers with the online home energy assessment

MidAmerican promoted the Residential Assessment program by featuring the program in:

- MidAmerican's suite of EE programs on MidAmerican's website, customer bill messaging, paper newsletters, eNewsletters and social media throughout the year.
- Customized modules in both the electronic and paper Home Energy Reports.

Key activities planned for 2022 include:

- Continued use of MidAmerican's website, customer bill messaging, paper newsletters, eNewsletters, Home Energy Report modules and social media to promote the program.
- Additional Next Best Action banners will be developed for the online assessment to encourage customers to continue to support energy efficient actions.

## 2.3 Residential Behavioral

The Residential Behavioral program is designed to encourage energy savings through behavior modification. The program provides customers with Home Energy Reports that contain personalized information about their energy use and provides smart ways to make their homes more efficient. Customers are randomly chosen by MidAmerican to participate in the program but may "opt out" if they do not wish to participate. The Home Energy Reports compare the customer's energy usage to 100 similarly situated homes in their area. The reports engage

customers and encourage them to take action to bring their energy usage in line with similar homes.

The program empowers customers to understand their energy usage better and act on this knowledge, resulting in changed customer behavior. Additionally, participation in this program encourages participation in other programs by using the Home Energy Report as a promotional vehicle. By helping customers become more energy efficient and lower their utility bills, the program helps customers understand that decisions they make regarding energy usage are important and relevant to their total monthly energy usage. The program also offers an online tool which allows customers to view their energy usage, access a library of energy saving tips and create an individual energy savings plan.

New recipients joining the program through the rolling enrollment group will receive six reports for the first year and then be reduced to four reports for each year thereafter. Legacy customers continue to receive four reports per year.

In 2021, the Residential Behavioral program achieved net annual energy savings of 7,076,866 kWh, which was 72 percent of planned savings; and 187,859 net therms, which was 67 percent of planned savings. The Residential Behavioral program results are already on a net savings basis because of the program model. Total spending for the Residential Behavioral program was \$428,022, which was 87 percent of planned spend due to the renegotiation of the contract pricing after the 2020-2023 Plan was approved.

Residential Behavioral program highlights for 2021 include the following:

- The original Illinois participant group had an average electric savings rate of 2.2 percent for the year, and an average natural gas savings rate of 0.8 percent. The new Illinois rolling enrollment participant group had an average electric savings rate of 2.1 percent, and an average natural gas savings rate of 0.9 percent.

- The lower than planned overall savings can be attributed to weather impacts as well as the impact to customer energy use behavior during the pandemic.
- MidAmerican's program implementation contractor mailed over 192,000 reports to Illinois customers.
- Web engagement increased from 5.15 percent in 2020 to 21.5 percent in 2021.
- The email report open rate was 56 percent among participants who opted into the email version of the report.

Key activities planned for 2022 include:

- The program implementer has planned to launch an updated report experience in 2022.

## 2.4 Residential Load Management

The Residential Load Management program provides financial incentives to residential customers in exchange for allowing MidAmerican to control their central air conditioning on hot summer days when forecasting a system peak demand or operational conditions require use of the program. The program is promoted under the service mark SummerSaver<sup>SM</sup>.

In 2021, the Residential Load Management program realized annual energy savings of 9,536 kWh and 2,540 kW, which was 35 percent and 99 percent of planned savings, respectively. Total spending for the Residential Load Management program was \$164,160, which was 73 percent of planned spend.

Residential Load Management program highlights for 2021 include the following:

- There were two SummerSaver cycling events held in 2021. The first was on June 10, 2021, when the Midcontinent Independent System Operator (MISO) called an event for all SummerSaver participants. The second was on September 27, 2021, when MidAmerican held a certification event for smart thermostat participants only.

- There were 3,270 load control receivers operating in the field during the 2021 season, which was 95 percent of projected units.
- MidAmerican began enrolling smart thermostats into the program in 2021. At the end of the 2021 season 226 participants were enrolled.

MidAmerican promoted the Residential Load Management program by featuring the program in:

- Direct email solicitation to customers who received an eligible smart thermostat equipment rebate to encourage them to enroll in the SummerSaver program.
- Random email solicitation to customers not already enrolled in the program to encourage participation with an eligible smart thermostat.
- Direct mail solicitation to customers who moved using Keep It Going cards. Keep It Going cards are sent to customers that move into a home that has an existing load control receiver installed. The card offers the new homeowner automatic enrollment in the program.
- Promotion as part of the suite of EE programs on MidAmerican's website.

Key activities planned for 2022 include:

- Continue promoting the smart thermostat option to meet enrollment goal of 400 participants.
- Implement direct mail solicitation to customers who move from a home where they were participating in the SummerSaver program into a new home in MidAmerican's service territory to encourage them to continue to participate at the new home.

## 2.5 Residential Appliance Recycling

The Appliance Recycling program encourages residential customers to stop using old, inefficient refrigerators and freezers and assists in the disposal of old units in an environmentally

responsible manner. The program provides rebates to residential customers and provides free pickup and disposal of old working appliances.

The program continued to offer pandemic constrained services in 2021, which included a curbside only pickup option. In September 2021, the program was able to resume full service, allowing in-home pickup which did help to slightly increase participation. However, continued supply chain delays for new refrigerators and freezers affected program participation as customers delayed making these purchases, opting to use existing appliances until new inventory was available.

In 2021, the Residential Appliance Recycling program achieved annual gross energy savings of 284,761 kWh, which was 53 percent of planned savings. Annual net energy savings were 153,771 kWh, which was 49 percent of planned savings. Total spending for the Residential Appliance Recycling program was \$63,908, which was 64 percent of planned spend.

Residential Appliance Recycling program highlights for 2021 include the following:

- 310 residential units were recycled which was 56 percent of planned participation.
- The online scheduling tool continued to be the preferred choice for scheduling appointments. Approximately 62 percent of customers utilized the online scheduling tool in 2021.

MidAmerican promoted the Residential Appliance Recycling program by featuring the program in:

- MidAmerican's suite of EE programs on MidAmerican's website, customer bill messaging, paper newsletters, eNewsletters and social media throughout the year.

Key activities planned for 2022 include:

- Online scheduling tool enhancements to improve the customer experience.

- Improving program efficiency to reduce the length of time between time of pickup and delivery of recycling rebate payment.
- Improving outreach to landlords emphasizing the program's ability to do bulk pickups.
- Improving customer communications by offering additional text and email notifications prior to pickup.

## 2.6 Residential Low Income

The Residential Low Income program provides financial incentives to encourage energy efficiency in existing low income housing. The program is delivered through two separate residential components to serve different customer segments. The first is the statewide weatherization program and the second the multifamily weatherization partnership. Both the statewide weatherization program and the multifamily weatherization partnership are delivered through local Community Action Partner (CAP) agencies and other subcontractors to deliver program services.

Throughout 2021, the participating CAP agency (Project NOW) was limited in offering full weatherization services to customers due to labor shortages, supply chain issues and restrictions related to the pandemic. During restriction periods, Project NOW was only able to offer emergency replacements.

In 2021, the Residential Low Income program achieved annual energy savings of 10,530 kWh, which was 105 percent of planned savings; and 3,425 therms, which was 106 percent to planned savings. The Residential Low Income program results are already on a net savings basis due to the program model. Total spending for the Residential Low Income program was \$69,535, which was 37 percent of planned spend.

Residential Low Income program highlights for 2021 include the following:

- 15 homes received weatherization services during 2021.

- One multifamily unit owned by Project NOW received energy efficient upgrades in 2021 which included the installation of an energy efficient natural gas furnace, programmable thermostat and duct sealing.

Key activities planned for 2022 include:

- Continued collaboration with Project NOW to find opportunities to assist low income customers save energy.

### 3. Nonresidential Programs

In 2021, nonresidential programs achieved annual gross energy savings of 4,701,530 kWh, which was 39 percent of planned savings; and 99,804 therms, which was 48 percent of planned savings. Annual net energy savings were 3,568,402 kWh, which was 38 percent of planned savings; and 77,979 therms, which was 49 percent of planned savings. Total spending for nonresidential programs was \$2,226,378, which was 63 percent of planned spend.

#### 3.1 Nonresidential Equipment

The Nonresidential Equipment program promotes the purchase of energy efficient equipment by nonresidential customers. The program offers financial incentives to customers installing energy efficient equipment in existing buildings. Program measures must save energy delivered directly by MidAmerican. Cost-effective qualifying nonresidential custom projects for non-standard equipment, new technologies, and alternate strategies may receive rebates through MidAmerican's Nonresidential Energy Solutions program.

In 2021, the Nonresidential Equipment program achieved annual gross energy savings of 2,410,790 kWh, which was 73 percent to planned savings; and 1,025 therms, which was two percent to planned savings. Annual net energy savings were 1,808,092 kWh, which was 78 percent of planned savings; and 769 therms, which was two percent of planned savings. Natural gas savings were reduced by 3,301 therms due LED lighting installation heating

penalties. If the heating penalties were not included, achieved natural gas gross savings would have been 4,326 therms, which was nine percent to planned savings. Total spending for the Nonresidential Equipment program was \$579,513, which was 88 percent of planned spend.

Nonresidential Equipment program highlights for 2021 include the following:

- 9,756 LEDs and fixtures were installed. LEDs provided gross electric savings of 2,408,138 kWh, representing the majority of achieved total electric savings.

MidAmerican promoted the Nonresidential Equipment program by featuring the program in:

- MidAmerican's suite of EE programs on MidAmerican's website, customer bill messaging, paper newsletters, eNewsletters and social media throughout the year.
- Regular outreach to assist trade allies in their understanding of the measures and rebates available for nonresidential customers.

Key activities planned for 2022 include:

- Continued use of social media, paper newsletters, eNewsletters, and bill messaging throughout the year.
- Increase trade ally use of the online rebate application tool.
- Implement an online rebate application for nonresidential customers.

### 3.2 Nonresidential Energy Solutions

The Nonresidential Energy Solutions program promotes comprehensive energy efficiency for existing commercial buildings and industrial facilities through the Small Business Express and Direct Project Assistance offerings. These offerings are tailored to the unique needs of nonresidential customers by size and purpose. Business owners can increase their bottom lines and property values by lowering monthly operating costs and investing in advanced, efficient technologies while improving building operations and comfort. Qualifying customers receive expert project evaluation advice and financial incentives to help offset the costs of new energy



efficiency investments. This program also serves agriculture and market-rate multifamily customers.

In 2021, the Nonresidential Energy Solutions program achieved annual gross energy savings of 1,108,284 kWh, which was 14 percent to planned savings; and 62,038 therms, which was 41 percent to planned savings. Annual net energy savings were 919,876 kWh, which was 15 percent to planned savings; and 51,492 therms, which was 42 percent of planned savings. Total spending for the Nonresidential Energy Solutions program was \$584,574 which was 34 percent of planned spend.

Nonresidential Energy Solutions program highlights for 2021 include the following:

- Ability to meet, in person, with customers for much of the year, allowed energy managers to re-establish customer relationships, support the identification of energy-saving opportunities and rebuild the pipeline of projects customers intend on completing in 2022.
- Recruited and trained 11 additional Qualified Services Providers (QSPs) for a total of 17 QSPs that serve MidAmerican's Illinois territory.
- Launched a Find an Energy Efficiency Contractor search tool that allows customers interested in Small Business Express to quickly identify QSPs that service their area.
- The Small Business Express program saw four customers complete projects generating 34,795 kWh savings or three percent of gross kWh savings.
- Direct Project Assistance was utilized by 11 customers with projects totaling 1,073,489 kWh accounting for 97 percent of gross savings.
- One manufacturing customer completed a Direct Project Assistance LED upgrade project replacing T5 high output fluorescent fixtures with 512 high-bay LED fixtures resulting in gross savings of 593,633 kWh. This project accounted for 54 percent of the gross electric savings.

- One industrial customer installed an 80/20 recirculating make-up air unit using Direct Project Assistance resulting in 62,038 therm savings. This project accounted for 100 percent of the gross gas savings.
- Approximately 300 customer meetings and phone calls were conducted by energy managers to identify, develop, and manage projects.
- MidAmerican hosted a QSP roundtable meeting on December 9, 2021, to review best practices and obtain feedback to inform program design and administration.

MidAmerican promoted the Nonresidential Energy Solutions program featuring the program in:

- MidAmerican's suite of EE programs on MidAmerican's website, paper newsletters, eNewsletters and social media throughout the year.
- Five additional segment-specific reports were developed and posted to MidAmerican's website (total of 15 now available) to assist small businesses better understand how energy is being used in their building and relevant upgrades that would allow them to save energy and money.
- Email communications to Trade Allies to encourage participation in program offerings.

Key activities planned for 2022 include:

- Continue building the pipeline of projects by maintaining enhanced incentive levels for Small Business Express.
- Developing and implementing strategic marketing plan for business sectors to maximize 2022 participation and continue to build momentum into 2023.

### 3.3 Commercial New Construction

The Commercial New Construction program promotes the design and construction of high-efficiency commercial buildings, including new building construction as well as major

renovations of existing buildings, by using energy modeling to analyze various energy-saving strategies. It is delivered in partnership with developers, architects, engineering firms and equipment contractors and provides a mix of technical and financial assistance to help influence projects during the planning stage. Energy design assistance, construction incentives and design team incentives are offered to reduce market barriers to incorporating energy efficiency into construction projects. All commercial new construction projects are ineligible for residential or nonresidential equipment prescriptive rebates.

In 2021, the Commercial New Construction program achieved annual gross energy savings of 1,140,076 kWh, which was 185 percent of planned savings; and 36,741 therms which was 551 percent of planned savings. Annual net energy savings were 798,053 kWh, which was 162 percent of planned savings; and 25,719 therms, which was 482 percent of planned savings. Total spending for the Commercial New Construction program was \$284,631 which was 121 percent of planned spend.

Commercial New Construction program highlights for 2021 include the following:

- Five completed projects.
- Five new enrollments.
- Continuing outreach to and follow-up discussions with developers working on educational, institutional and commercial projects in the Illinois service territory.
- Collaborating with Business Connections Managers to educate customers on program opportunities.
- Development of the Data Center Advantage offering and factsheet for 2022 rollout.

Key activities planned for 2022 include:

- Implementation of the new Data Center Advantage offering to help data center owners and operators gain access to energy-savings opportunities by helping to identify and evaluate projects.

- Continued growth in the project pipeline through lunch and learn programs, investigating projects leads found through Construct Connect Insights, phone calls to design team firms, monitoring news and construction services, advertising, customer and trade event participation, presentations at customer and industry events, and project identification assistance from MidAmerican Business Connections Managers.

### 3.4 Nonresidential Load Management

The Nonresidential Load Management program provides large nonresidential customers with financial incentives to reduce demand during MidAmerican's system peak hours. Customers must commit to providing a specified amount of load reduction when called for by MidAmerican during the curtailment season (June 1 to September 30). Participating customers reduce demand during curtailment events by shedding load, shifting load to non-peak periods or generating replacement power with on-site generators. The program is marketed to customers as the Curtailment program.

In 2021, the Nonresidential Load Management program realized annual energy savings of 42,380 kWh and peak demand savings of 31,242 kW, which was 15 percent and 129 percent to planned savings, respectively. Total spending for the Nonresidential Load Management program was \$746,641, which was 82 percent of planned spend.

Nonresidential Load Management program highlights for 2021 include the following:

- One curtailment event was called by MISO during the 2021 summer season; it was held on June 10, 2021, for generator participants.
- The increase in peak demand kW savings was the result of customers delivering a higher level of peak demand reduction during curtailment events than was contracted.
- Program spend was lower than planned due to a reduction in the per kW rebate from the planned amount of \$34.88 per kW and the implemented rebate of \$30 per kW.

- Physical test events were held the end of August through September for participants who did not participate in an actual curtailment event during the 2021 summer season.

Key activities planned for 2022 include:

- Due to proposed MISO tariff changes, MidAmerican has filed a tariff change to Rider CS that incorporates the changes to MISO's tariff.
- Offer a webinar for current and prospective curtailment participants to discuss how the program works and review the tools used for the program and how they can not only help during an event but also outside of an event.

## 4. Education Program

The Education program promotes energy efficiency education through activities organized into three general areas: awareness, trade ally support and school curricula.

In 2021, there were no planned electric or natural gas savings for the overall Education program. Total spending for the Education program was \$55,752, which was 65 percent of planned spend.

### 4.1 Awareness

Awareness is driven by MidAmerican's promotion activities that help educate MidAmerican customers about the benefits of energy efficiency. Messaging focuses on promoting the entire portfolio through unpaid media sources such as social media, newsletters, emails, community and customer events and bill messaging.

MidAmerican's awareness efforts in 2021 included:

- Promoting EE programs and topics in all 2021 residential and business eNewsletters and across MidAmerican's social media channels. This promotion focused on:

- Continuing to educate customers on the benefits of energy efficiency, long-term bill savings and available rebates provided by MidAmerican's EE programs.
- Presenting simplified and personalized energy efficiency messages to help customers take action on their own to manage their energy usage.

Key activities planned for 2022 include:

- New television commercial and campaign that highlights energy efficiency tips and programs.

## 4.2 Trade Ally Support

Trade allies provide an important delivery channel for MidAmerican's EE programs. Trade allies include vendors, installers, wholesalers, distributors and manufacturers of a wide range of energy efficient products and services. MidAmerican provides resources designed to keep trade allies fully informed so they can educate customers on the importance of energy efficiency and encourage participation.

MidAmerican's trade ally activities in 2021 included:

- Trade ally ambassadors conducted 295 touch points to Illinois and Quad Cities trade allies. Touch points include email campaigns, outreach and phone calls.
- Continuous outreach to trade allies with virtual meetings, trainings, email communication and phone calls.
- Distributing EE materials to trade allies to increase awareness and participation for EE programs.
- Upgrading the trade ally search tool in August to improve navigation and the customer experience.

Key activities planned for 2022 include:

- Transition trade ally email communications to a new platform and deliver EE messaging quarterly.
- Encourage trade ally use of the online rebate application.

### 4.3 School Curricula

MidAmerican collaborates with schools by providing educational materials that help to integrate energy efficiency education into school curriculum and extracurricular activities. MidAmerican has partnered with Culver Company to deliver a comprehensive energy efficiency outreach program to educators, students and students' families throughout the Illinois service territory. Extensive research and testing have been completed by Culver to determine the critical messaging that maximizes retention and the adoption of energy efficiency behaviors. All classroom materials have been designed to meet state and national standards for science, health and safety, and other subjects. Teachers, students and their families also have access to the additional interactive standards-based materials on the companion e-SMARTkids website ([midamerican.e-smartkids.com](http://midamerican.e-smartkids.com)). These materials include teacher's guides and interactive online games and activities for students and their families.

The School Curricula program highlights for 2021 include the following:

- Outreach to educators in grades K-6 to provided awareness for the eSMART website and encouraged group orders for booklets to supplement online teaching programs.
  - Over 3,600 students received energy efficiency education materials.

Key activities planned for 2022 include:

- Continue to provide EE content and cross promotion of EE programs in the eNewsletter that teachers distribute to parents.

## 5. Plan and Program Changes

Each year starting in the fall, MidAmerican conducts a review of all programs and measures to determine what adjustments may be needed to programs and measures to maximize the overall net economic benefit to our customers. MidAmerican's annual review of programs and measures includes but is not limited to:

- Identification of changes to standards and codes
- Review of third-party evaluator's program and measure recommendations
- Evaluation of existing individual measures and programs including cost-effectiveness, budgets and participation levels
- Review of custom measures to determine if any may be moved to the prescriptive program
- Evaluation of new measures based on cost-effectiveness and market availability
- Discussion with stakeholders on recommendations for changes, modification, or additions to existing programs and measures
- Evaluation of the need for new programs or pilots, including any regulatory approvals required
- Review of marketing and advertising materials including brochures, educational tools, key accounts toolbox references, and the like.
- Review of processes and procedures to achieve and ensure efficiencies in delivery to better meet customers' needs
- System evaluations, including EEMIS tracking system updates
- Development of a communications plan for stakeholders regarding expected plan changes



- Any changes jointly agreed-upon as beneficial by Illinois Commerce Commission staff and MidAmerican

Exhibit H provides the details for the 2022 program changes that went into effective on January 1, 2022. This information was shared with customers, trade allies and all other stakeholders via MidAmerican's website starting on January 1, 2022. This same information was shared with trade allies at MidAmerican's annual trade ally meetings held virtually in December 2021.

## 6. Evaluation, Monitoring and Verification Plan

In March 2020, MidAmerican contracted with Tetra Tech to perform process and impact evaluations of its Illinois programs included in the 2020-2023 plan. At the end of 2021, most reports were finalized and shared with Illinois Commerce Commission staff. The pending reports for Nonresidential Energy Solutions, Nonresidential Load Management and Residential Load Management will be finalized in early 2022. Draft reports for these three programs will be shared with the Illinois Commerce Commission staff for review. All reports include verified and net savings (where applicable) and recommendations for measure and program level savings adjustments and process adjustments.

MidAmerican has established a tracking worksheet of the recommendations included in each report. Each recommendation has been prioritized, high, medium or low, to assist in providing direction to MidAmerican as to which recommendations should be addressed first. MidAmerican has completed its initial review of all high priority recommendations and is currently finalizing the appropriate action needed for those recommendations which will be implemented in 2022 and beyond.

## 7. Reasonableness and Prudence of Costs

The costs associated with MidAmerican's Illinois EE programs in 2021 are reasonable and prudent. Although MidAmerican was under the planned 2021 budgets for both the electric and natural gas programs, the achieved energy savings continue to be beneficial to customers in MidAmerican's service territory. MidAmerican will manage total plan budgets rather than individual program budgets and continue program operation, even if program spending in a given year exceeds the estimates provided in the initial filing. (See MidAmerican Exhibit 1.0, Direct Testimony of Tina M. Yoder, page 12, lines 12-17). Exceeding the 2021 planned spending for the Residential Assessment and Commercial New Construction programs reflects MidAmerican's efforts to continue program operation and ensure that MidAmerican customers can continue to take advantage of EE programs.

As indicated, it's the initial EE Plan filing, fees, charges, billing, and costs and expenses associated with equipment, devices, or services, (including contracted services and/or consultative services), are based on competitive bidding processes and procedures developed and consistently administered by MidAmerican's procurement and supply chain department.

MidAmerican's procurement and supply chain processes and procedures include a requirement to re-bid contracts at regular intervals. Several EE contracts impacting MidAmerican's Illinois programs were re-bid starting in 2019. The process of regularly re-bidding contracts ensures that fees and charges related to EE programs and costs and expenses related to equipment and services for the EE programs are competitively priced and, therefore, cost effective for Illinois customers.

MidAmerican also regularly monitors and examines its expenses for wages, salaries and benefits of all employees, including those engaged in energy efficiency activities. Additionally, MidAmerican followed its internal accounting procedures and ensured that "incremental costs

[will] not include any expenses for wages, salaries and benefits of employees, employed whether before or after the effective date of Section 8-408 of the Act, that are otherwise recovered under other approved tariffs.” (See MidAmerican Exhibit 3.0, Illinois Energy Efficiency Plan, page 101)

MidAmerican continues to monitor its Illinois EE programs and will take appropriate steps to improve program performance. Monitoring and evaluation is a key aspect for the EE programs and help ensure that the EE expenditures are reasonable and prudent.

**RESIDENTIAL EQUIPMENT PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
AIR SOURCE HEAT PUMP	9	13,530	(0.75)	\$ 3,800.00
CENTRAL AIR CONDITIONER	628	239,705	153.01	\$ 163,350.00
AIR SOURCE HEAT PUMP (DUCTLESS MINI-SPLIT)	49	44,565	7.86	\$ 28,819.80
HVAC MEASURES SUBTOTAL	686	297,800	160.12	\$ 195,969.80
SMART ADVANCED THERMOSTAT	177	40,206	19.31	\$ 7,889.90
THERMOSTATS SUBTOTAL	177	40,206	19.31	\$ 7,889.90
Grand Total	863	338,006	179.43	\$ 203,859.70

**RESIDENTIAL ASSESSMENT PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
ENERGY EFFICIENCY KIT	300	22,767	2.69	\$ 8,343.00
ENERGY EFFICIENCY KIT (DUAL FUEL)	2,688	298,683	33.92	\$ 66,049.74
KIT RESHIPMENT FEE	6	-	-	\$ 75.16
KITS SUBTOTAL	2,994	321,451	36.62	\$ 74,467.90
ONLINE ASSESSMENT	4	-	-	\$ 9,983.88
ASSESSMENT SUBTOTAL	4	-	-	\$ 9,983.88
Grand Total	2,998	321,451	36.62	\$ 84,451.78

**RESIDENTIAL BEHAVIORAL PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE	
HOME ENERGY REPORTS	192,271	7,076,866	2,330.81	\$	217,800.00
HOME ENERGY REPORTS SUBTOTAL	192,271	7,076,866	2,330.81	\$	217,800.00
Grand Total	192,271	7,076,866	2,330.81	\$	217,800.00

**RESIDENTIAL LOAD MANAGEMENT PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
SMART THERMOSTAT	288	2,339	419.00	\$ 7,506.69
LOAD CONTROL RECEIVERS (LCR)	3,234	7,197	2,121.00	\$ 64,202.16
RESIDENTIAL LOAD MANAGEMENT SUBTOTAL	3,522	9,536	2,540.00	\$ 71,708.85
Grand Total	3,522	9,536	2,540.00	\$ 71,708.85

**RESIDENTIAL APPLIANCE RECYCLING PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
RECYCLED FREEZER 1ST UNIT	39	31,660	5.12	\$ 5,967.00
RECYCLED FREEZER 2ND UNIT	11	8,930	1.44	\$ 1,280.00
RECYCLED REFRIGERATOR 1ST UNIT	225	211,302	28.37	\$ 34,425.00
RECYCLED REFRIGERATOR 2ND UNIT	35	32,869	4.41	\$ 4,378.00
APPLIANCE RECYCLING SUBTOTAL	310	284,761	39.35	\$ 46,050.00
SCHEDULING INCENTIVE	15	-	-	\$ 75.00
SCHEDULING INCENTIVE SUBTOTAL	15	-	-	\$ 75.00
Grand Total	325	284,761	39.35	\$ 46,125.00



**RESIDENTIAL LOW INCOME PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE	
LOW INCOME WEATHERIZATION	14	10,530	5.14	\$	22,336.33
LOW-INCOME ACTIVITY SUBTOTAL	14	10,530	5.14	\$	22,336.33
Grand Total	14	10,530	5.14	\$	22,336.33

**NONRESIDENTIAL EQUIPMENT PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
CENTRAL AIR CONDITIONER	6	2,652	1.96	\$ 1,500.00
HVAC MEASURES SUBTOTAL	6	2,652	1.96	\$ 1,500.00
LED EXTERIOR FIXTURES - BUILDING EXTERIOR	160	93,686	-	\$ 17,809.92
LED TROFFER	2,048	258,105	71.07	\$ 69,016.38
LED LINEAR LAMPS	5,124	341,322	73.50	\$ 16,540.75
LED EXTERIOR FIXTURES - LED OUTDOOR AREA LIGHTING	268	276,137	-	\$ 31,490.00
LED HIGH-BAY FIXTURE	996	1,081,533	186.02	\$ 259,694.21
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPONENT	26	5,654	2.65	\$ 780.00
LED TROFFER RETROFIT KIT	1,134	351,701	30.65	\$ 17,970.00
LIGHTING MEASURES SUBTOTAL	9,756	2,408,138	363.89	\$ 413,301.26
SUPPLEMENTAL PAYMENT	1	-	-	\$ 2,070.00
OTHER SUBTOTAL	1	-	-	\$ 2,070.00
Grand Total	9,763	2,410,790	365.85	\$ 416,871.26

**NONRESIDENTIAL ENERGY SOLUTIONS PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
CUSTOM - HVAC	3	28,314	6.30	\$ 2,366.00
CUSTOM - LIGHTING	10	1,071,433	156.50	\$ 148,037.00
CUSTOM MEASURES SUBTOTAL	13	1,099,747	162.80	\$ 150,403.00
LED HIGH-BAY FIXTURE	32	6,959	2.49	\$ 9,267.10
LED LINEAR LAMPS	50	1,578	0.42	\$ 300.00
LIGHTING MEASURES SUBTOTAL	82	8,538	2.91	\$ 9,567.10
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANC	519	-	-	\$ 83,904.34
BONUS PAYMENT	1	-	-	\$ 247.50
OTHER SUBTOTAL	520	-	-	\$ 84,151.84
Grand Total	615	1,108,284	165.71	\$ 244,121.94

**COMMERCIAL NEW CONSTRUCTION PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE
DESIGN ASSISTANCE	18	-	-	\$ 51,925.58
INSTALLATION PAYMENT - DUAL FUEL	2	89,770	20.00	\$ 11,185.00
DESIGN TEAM	2	-	-	\$ 4,500.00
INSTALLATION PAYMENT - ELECTRIC ONLY	3	1,050,306	238.00	\$ 111,765.00
COMMERCIAL NEW CONSTRUCTION SUBTOTAL	25	1,140,076	258.00	\$ 179,375.58
Grand Total	25	1,140,076	258.00	\$ 179,375.58

**NONRESIDENTIAL LOAD MANAGEMENT PROGRAM - ELECTRIC MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL KWH	PEAK KW	INCENTIVE	
CURTAILMENT PAYMENT	5	42,380	31,242.00	\$	714,270.00
NONRESIDENTIAL LOAD MANAGEMENT SUBTOTAL	5	42,380	31,242.00	\$	714,270.00
Grand Total	5	42,380	31,242.00	\$	714,270.00

**RESIDENTIAL EQUIPMENT PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
FURNACE	742	65,142	1,076.48	\$	129,850.00
SUPPLEMENTAL PAYMENT	1	-	-	\$	25.50
HVAC MEASURES SUBTOTAL	743	65,142	1,076.48	\$	129,875.50
SMART ADVANCED THERMOSTAT	178	5,792	95.64	\$	5,752.99
THERMOSTATS SUBTOTAL	178	5,792	95.64	\$	5,752.99
Grand Total	921	70,934	1,172.12	\$	135,628.49

**RESIDENTIAL ASSESSMENT PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
ENERGY EFFICIENCY KIT (DUAL FUEL)	2,501	17,747	45.26	\$	25,422.90
ENERGY EFFICIENCY KIT	36	226	0.61	\$	354.67
KIT RESHIPMENT FEE	4	-	-	\$	25.70
KITS SUBTOTAL	2,541	17,973	45.87	\$	25,803.27
ONLINE ASSESSMENT	4	-	-	\$	2,495.96
ASSESSMENT SUBTOTAL	4	-	-	\$	2,495.96
Grand Total	2,545	17,973	45.87	\$	28,299.23

**RESIDENTIAL BEHAVIORAL PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
HOME ENERGY REPORTS	192,271	187,859	2,442.74	\$	54,450.04
HOME ENERGY REPORTS SUBTOTAL	192,271	187,859	2,442.74	\$	54,450.04
Grand Total	192,271	187,859	2,442.74	\$	54,450.04



**RESIDENTIAL LOW INCOME PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
LOW INCOME WEATHERIZATION	15	3,425	56.44	\$	26,759.32
LOW-INCOME ACTIVITY SUBTOTAL	15	3,425	56.44	\$	26,759.32
Grand Total	15	3,425	56.44	\$	26,759.32

**NONRESIDENTIAL EQUIPMENT PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
FURNACE	18	2,091	29.75	\$	3,510.00
HVAC MEASURES SUBTOTAL	18	2,091	29.75	\$	3,510.00
BOILER	5	2,235	27.16	\$	8,277.50
EQUIPMENT SUBTOTAL	5	2,235	27.16	\$	8,277.50
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPON	26	(78)	(0.40)	\$	-
LED HIGH-BAY FIXTURE	118	(994)	(5.04)	\$	-
LED LINEAR LAMPS	1,034	(732)	(3.71)	\$	-
LED TROFFER	791	(1,498)	(7.60)	\$	-
LIGHTING MEASURES SUBTOTAL	1,969	(3,301)	(16.76)	\$	-
Grand Total	1,992	1,025	40.16	\$	11,787.50

**NONRESIDENTIAL ENERGY SOLUTIONS PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE	
CUSTOM - HVAC	1	62,038	412.90	\$	21,566.00
CUSTOM MEASURES SUBTOTAL	1	62,038	412.90	\$	21,566.00
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANC	493	-	-	\$	108,118.55
OTHER SUBTOTAL	493	-	-	\$	108,118.55
Grand Total	494	62,038	412.90	\$	129,684.55

**COMMERCIAL NEW CONSTRUCTION PROGRAM - GAS MEASURES**

MEASURE DESCRIPTION	UNITS	ANNUAL THERMS	PEAK THERMS	INCENTIVE
DESIGN ASSISTANCE	18	-	-	\$ 9,163.32
DESIGN TEAM	2	-	-	\$ -
INSTALLATION PAYMENT - DUAL FUEL	2	17,611	229.00	\$ 24,935.00
INSTALLATION PAYMENT - GAS ONLY	3	19,130	248.00	\$ 12,647.00
COMMERCIAL NEW CONSTRUCTION SUBTOTAL	25	36,741	477.00	\$ 46,745.32
Grand Total	25	36,741	477.00	\$ 46,745.32

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Participation, Actual & Planned Energy Savings, Capacity Savings, and Expenditures - Electric Programs**  
**Gross Savings**

Program Name	Units	Meter Level				Meter Level							
		Budget kWh	Actual kWh	Variance	Percentage Difference	Budget kW	Actual kW	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential Equipment	863	743,702	338,006	(405,697)	-55%	388	179	(209)	-54%	\$ 379,879	\$ 280,763	\$ (99,116)	-26%
Residential Assessment	2,998	78,088	321,451	243,362	312%	9	37	27	293%	\$ 42,033	\$ 97,285	\$ 55,252	131%
Residential Behavioral	192,271	9,837,000	7,076,866	(2,760,134)	-28%	3,240	2,331	(909)	-28%	\$ 392,068	\$ 342,015	\$ (50,053)	-13%
Residential Load Management	3,522	27,350	9,536	(17,814)	-65%	2,559	2,540	(19)	-1%	\$ 223,637	\$ 164,160	\$ (59,477)	-27%
Residential Appliance Recycling	325	534,582	284,761	(249,820)	-47%	75	39	(36)	-47%	\$ 100,552	\$ 63,908	\$ (36,644)	-36%
Residential Low Income*	14	10,076	10,530	454	5%	13	5	(8)	-62%	\$ 94,470	\$ 32,190	\$ (62,280)	-66%
Residential Education	-	-	-	-	0%	-	-	-	0%	\$ 25,863	\$ 11,523	\$ (14,340)	-55%
Nonresidential Equipment	9,763	3,306,381	2,410,790	(895,591)	-27%	983	366	(617)	-63%	\$ 571,200	\$ 543,300	\$ (27,900)	-5%
Nonresidential Energy Solutions	615	7,777,418	1,108,284	(6,669,133)	-86%	1,432	166	(1,267)	-88%	\$ 1,407,660	\$ 387,886	\$ (1,019,774)	-72%
Commercial New Construction	25	616,827	1,140,076	523,249	85%	132	258	126	95%	\$ 200,840	\$ 226,362	\$ 25,522	13%
Nonresidential Load Management	5	290,463	42,380	(248,083)	-85%	24,203	31,242	7,039	29%	\$ 906,855	\$ 746,641	\$ (160,214)	-18%
Nonresidential Education	-	-	-	-	0%	-	-	-	0%	\$ 20,288	\$ 22,362	\$ 2,074	10%

<b>Total</b>	<b>210,401</b>	<b>23,221,887</b>	<b>12,742,680</b>	<b>(10,479,207)</b>	<b>-45%</b>	<b>33,034</b>	<b>37,163</b>	<b>4,128</b>	<b>12%</b>	<b>\$ 4,365,344</b>	<b>\$ 2,918,395</b>	<b>\$ (1,446,949)</b>	<b>-33%</b>
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Customer Class	Units	Meter Level				Meter Level							
		Budget kWh	Actual kWh	Variance	Percentage Difference	Budget kW	Actual kW	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential	199,993	11,230,798	8,041,149	(3,189,649)	-28%	6,284	5,131	(1,153)	-18%	\$ 1,258,501	\$ 991,844	\$ (266,658)	-21%
Nonresidential	10,408	11,991,089	4,701,530	(7,289,558)	-61%	26,750	32,032	5,281	20%	\$ 3,106,843	\$ 1,926,551	\$ (1,180,292)	-38%
<b>Total</b>	<b>210,401</b>	<b>23,221,887</b>	<b>12,742,680</b>	<b>(10,479,207)</b>	<b>-45%</b>	<b>33,034</b>	<b>37,163</b>	<b>4,128</b>	<b>12%</b>	<b>\$ 4,365,344</b>	<b>\$ 2,918,395</b>	<b>\$ (1,446,949)</b>	<b>-33%</b>

\* Reflects the number of homes in which the low income agency performed measures. Individual measures are not available in system data.

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Participation, Actual & Planned Energy Savings, Capacity Savings, and Expenditures - Electric Programs**  
**Net Savings**

Program Name	Units	Meter Level				Meter Level							
		Budget kWh	Actual kWh	Variance	Percentage Difference	Budget kW	Actual kW	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential Equipment	863	520,592	202,803	(317,788)	-61%	272	108	(164)	-60%	\$ 379,879	\$ 280,763	\$ (99,116)	-26%
Residential Assessment	2,998	78,088	321,451	243,362	312%	9	37	27	293%	\$ 42,033	\$ 97,285	\$ 55,252	131%
Residential Behavioral	192,271	9,837,000	7,076,866	(2,760,134)	-28%	3,240	2,331	(909)	-28%	\$ 392,068	\$ 342,015	\$ (50,053)	-13%
Residential Load Management	3,522	27,350	9,536	(17,814)	-65%	2,559	2,540	(19)	-1%	\$ 223,637	\$ 164,160	\$ (59,477)	-27%
Residential Appliance Recycling	325	315,403	153,771	(161,632)	-51%	44	21	(23)	-52%	\$ 100,552	\$ 63,908	\$ (36,644)	-36%
Residential Low Income*	14	10,076	10,530	454	5%	13	5	(8)	-62%	\$ 94,470	\$ 32,190	\$ (62,280)	-66%
Residential Education	-	-	-	-	0%	-	-	-	0%	\$ 25,863	\$ 11,523	\$ (14,340)	-55%
Nonresidential Equipment	9,763	2,314,467	1,808,092	(506,374)	-22%	688	274	(414)	-60%	\$ 571,200	\$ 543,300	\$ (27,900)	-5%
Nonresidential Energy Solutions	615	6,221,934	919,876	(5,302,058)	-85%	1,146	138	(1,008)	-88%	\$ 1,407,660	\$ 387,886	\$ (1,019,774)	-72%
Commercial New Construction	25	493,461	798,053	304,592	62%	106	181	75	71%	\$ 200,840	\$ 226,362	\$ 25,522	13%
Nonresidential Load Management	5	290,463	42,380	(248,083)	-85%	24,203	31,242	7,039	29%	\$ 906,855	\$ 746,641	\$ (160,214)	-18%
Nonresidential Education	-	-	-	-	0%	-	-	-	0%	\$ 20,288	\$ 22,362	\$ 2,074	10%
<b>Total</b>	<b>210,401</b>	<b>20,108,834</b>	<b>11,343,359</b>	<b>(8,765,476)</b>	<b>-44%</b>	<b>32,280</b>	<b>36,876</b>	<b>4,596</b>	<b>14%</b>	<b>\$ 4,365,344</b>	<b>\$ 2,918,395</b>	<b>\$ (1,446,949)</b>	<b>-33%</b>

Customer Class	Units	Meter Level				Meter Level							
		Budget kWh	Actual kWh	Variance	Percentage Difference	Budget kW	Actual kW	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential	199,993	10,788,509	7,774,957	(3,013,552)	-28%	6,137	5,041	(1,096)	-18%	\$ 1,258,501	\$ 991,844	\$ (266,658)	-21%
Nonresidential	10,408	9,320,325	3,568,402	(5,751,924)	-62%	26,142	31,835	5,692	22%	\$ 3,106,843	\$ 1,926,551	\$ (1,180,292)	-38%
<b>Total</b>	<b>210,401</b>	<b>20,108,834</b>	<b>11,343,359</b>	<b>(8,765,476)</b>	<b>-44%</b>	<b>32,280</b>	<b>36,876</b>	<b>4,596</b>	<b>14%</b>	<b>\$ 4,365,344</b>	<b>\$ 2,918,395</b>	<b>\$ (1,446,949)</b>	<b>-33%</b>

\* Reflects the number of homes in which the low income agency performed measures. Individual measures are not available in system data.

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Participation, Actual & Planned Energy Savings, Capacity Savings, and Expenditures - Gas Programs**  
**Gross Savings**

Program Name	Units	Budget Annual Therms	Actual Annual Therms	Variance	Percentage Difference	Budget Peak Therms	Actual Peak Therms	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential Equipment	921	230,907	70,934	(159,974)	-69%	3,816	1,172	(2,644)	-69%	\$ 318,246	\$ 196,449	\$ (121,797)	-38%
Residential Assessment	2,545	4,351	17,973	13,622	313%	12	46	34	283%	\$ 37,234	\$ 37,748	\$ 514	1%
Residential Behavioral	192,271	281,250	187,859	(93,391)	-33%	3,657	2,443	(1,214)	-33%	\$ 101,660	\$ 86,007	\$ (15,653)	-15%
Residential Low Income*	15	3,242	3,425	183	6%	42	56	15	36%	\$ 94,263	\$ 37,345	\$ (56,917)	-60%
Residential Education	-	-	-	-	0%	-	-	-	0%	\$ 22,333	\$ 13,210	\$ (9,123)	-41%
Nonresidential Equipment	1,992	47,700	1,025	(46,675)	-98%	565	40	(525)	-93%	\$ 83,658	\$ 36,213	\$ (47,445)	-57%
Nonresidential Energy Solutions	494	151,717	62,038	(89,679)	-59%	1,545	413	(1,132)	-73%	\$ 312,091	\$ 196,688	\$ (115,403)	-37%
Commercial New Construction	25	6,666	36,741	30,075	451%	19	477	458	2361%	\$ 33,511	\$ 58,269	\$ 24,758	74%
Nonresidential Education	-	-	-	-	0%	-	-	-	0%	\$ 17,256	\$ 8,657	\$ (8,599)	-50%

<b>Total</b>	<b>198,263</b>	<b>725,834</b>	<b>379,995</b>	<b>(345,839)</b>	<b>-48%</b>	<b>9,656</b>	<b>4,647</b>	<b>(5,009)</b>	<b>-52%</b>	<b>\$ 1,020,252</b>	<b>\$ 670,586</b>	<b>\$ (349,666)</b>	<b>-34%</b>
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Customer Class	Units	Budget Annual Therms	Actual Annual Therms	Variance	Percentage Difference	Budget Peak Therms	Actual Peak Therms	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential	195,752	519,751	280,191	(239,559)	-46%	7,526	3,717	(3,809)	-51%	\$ 573,735	\$ 370,759	\$ (202,976)	-35%
Nonresidential	2,511	206,083	99,804	(106,279)	-52%	2,130	930	(1,199)	-56%	\$ 446,517	\$ 299,827	\$ (146,690)	-33%
<b>Total</b>	<b>198,263</b>	<b>725,834</b>	<b>379,995</b>	<b>(345,839)</b>	<b>-48%</b>	<b>9,656</b>	<b>4,647</b>	<b>(5,009)</b>	<b>-52%</b>	<b>\$ 1,020,252</b>	<b>\$ 670,586</b>	<b>\$ (349,666)</b>	<b>-34%</b>

\* Reflects the number of homes in which the low income agency performed measures. Individual measures are not available in system data.

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Participation, Actual & Planned Energy Savings, Capacity Savings, and Expenditures - Gas Programs**  
**Net Savings**

Program Name	Units	Budget Annual Therms	Actual Annual Therms	Variance	Percentage Difference	Budget Peak Therms	Actual Peak Therms	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential Equipment	921	161,635	42,560	(119,075)	-74%	2,671	703	(1,968)	-74%	\$ 318,246	\$ 196,449	\$ (121,797)	-38%
Residential Assessment	2,545	4,351	17,973	13,622	313%	12	46	34	283%	\$ 37,234	\$ 37,748	\$ 514	1%
Residential Behavioral	192,271	281,250	187,859	(93,391)	-33%	3,657	2,443	(1,214)	-33%	\$ 101,660	\$ 86,007	\$ (15,653)	-15%
Residential Low Income*	15	3,242	3,425	183	6%	42	56	15	36%	\$ 94,263	\$ 37,345	\$ (56,917)	-60%
Residential Education	-	-	-	-	0%	-	-	-	0%	\$ 22,333	\$ 13,210	\$ (9,123)	-41%
Nonresidential Equipment	1,992	33,390	769	(32,621)	-98%	396	30	(365)	-92%	\$ 83,658	\$ 36,213	\$ (47,445)	-57%
Nonresidential Energy Solutions	494	121,374	51,492	(69,882)	-58%	1,236	343	(893)	-72%	\$ 312,091	\$ 196,688	\$ (115,403)	-37%
Commercial New Construction	25	5,333	25,719	20,386	382%	16	334	318	2054%	\$ 33,511	\$ 58,269	\$ 24,758	74%
Nonresidential Education	-	-	-	-	0%	-	-	-	0%	\$ 17,256	\$ 8,657	\$ (8,599)	-50%

<b>Total</b>	<b>198,263</b>	<b>610,575</b>	<b>329,797</b>	<b>(280,778)</b>	<b>-46%</b>	<b>8,029</b>	<b>3,955</b>	<b>(4,074)</b>	<b>-51%</b>	<b>\$ 1,020,252</b>	<b>\$ 670,586</b>	<b>\$ (349,666)</b>	<b>-34%</b>
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Customer Class	Units	Budget Annual Therms	Actual Annual Therms	Variance	Percentage Difference	Budget Peak Therms	Actual Peak Therms	Variance	Percentage Difference	Budget Expenses	Actual Expenses	Variance	Percentage Difference
Residential	195,752	450,478	251,818	(198,660)	-44%	6,382	3,248	(3,133)	-49%	\$ 573,735	\$ 370,759	\$ (202,976)	-35%
Nonresidential	2,511	160,097	77,979	(82,118)	-51%	1,647	707	(940)	-57%	\$ 446,517	\$ 299,827	\$ (146,690)	-33%
<b>Total</b>	<b>198,263</b>	<b>610,575</b>	<b>329,797</b>	<b>(280,778)</b>	<b>-46%</b>	<b>8,029</b>	<b>3,955</b>	<b>(4,074)</b>	<b>-51%</b>	<b>\$ 1,020,252</b>	<b>\$ 670,586</b>	<b>\$ (349,666)</b>	<b>-34%</b>

\* Reflects the number of homes in which the low income agency performed measures. Individual measures are not available in system data.



**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Ex- post Net Benefit/Cost Statistics - Total (Gas and Electric Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	1.36	0.57	1.10	0.74	1.20
Residential Assessment	6.25	0.45	1.15	3.98	4.88
Residential Behavioral	3.02	0.51	1.16	1.16	1.27
Residential Appliance Recycling	6.84	0.35	0.72	1.34	1.73
Residential Low Income	1.52	0.32	0.44	0.44	0.66
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.65	0.56	1.22	0.86	1.18
Nonresidential Energy Solutions	3.40	0.62	1.45	1.54	2.44
Commercial New Construction	5.32	0.91	3.22	3.88	7.27
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.58</b>	<b>0.61</b>	<b>1.42</b>	<b>1.38</b>	<b>2.08</b>

**Ex- post Net Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.27	1.57	1.58	2.51	2.81
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Ex- post Net Benefit/Cost Statistics - Electric Programs (Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	2.26	0.46	0.74	0.85	1.37
Residential Assessment	6.14	0.40	1.03	3.94	4.83
Residential Behavioral	3.13	0.49	1.15	1.15	1.27
Residential Appliance Recycling	6.84	0.35	0.72	1.34	1.73
Residential Low Income	1.33	0.23	0.28	0.28	0.42
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.66	0.57	1.27	0.89	1.21
Nonresidential Energy Solutions	3.28	0.60	1.32	1.43	2.18
Commercial New Construction	5.01	0.92	3.10	3.70	6.98
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.79</b>	<b>0.59</b>	<b>1.35</b>	<b>1.42</b>	<b>2.10</b>

**Ex- post Net Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.27	1.57	1.58	2.51	2.81
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Ex- post Net Benefit/Cost Statistics - Gas Programs**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	0.99	0.68	1.61	0.68	1.11
Residential Assessment	6.58	0.57	1.45	4.07	5.00
Residential Behavioral	2.60	0.59	1.18	1.18	1.27
Residential Low Income	1.68	0.39	0.59	0.59	0.87
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.25	0.30	0.40	0.34	0.65
Nonresidential Energy Solutions	3.58	0.65	1.72	1.75	2.92
Commercial New Construction	6.56	0.89	3.72	4.61	8.46
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.13</b>	<b>0.67</b>	<b>1.64</b>	<b>1.28</b>	<b>2.02</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Ex- post Net Benefit/Cost Input Data - Total (Gas and Electric Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 137,724	\$ 339,488	\$ 572,607	\$ -	\$ 437,070	\$ 524,273	\$ 785,503	\$ -	\$ -	\$ 66,467
Residential Assessment	\$ 22,282	\$ 112,751	\$ 112,751	\$ -	\$ 210,061	\$ 154,988	\$ 187,100	\$ 382,239	\$ 455,005	\$ 17,057
Residential Behavioral	\$ 155,771	\$ 272,250	\$ 272,250	\$ -	\$ 550,014	\$ 495,439	\$ 495,439	\$ -	\$ -	\$ 46,998
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 16,538	\$ -	\$ 66,920	\$ 45,905	\$ 54,096	\$ -	\$ -	\$ 5,410
Residential Low Income	\$ 20,440	\$ 49,096	\$ 49,096	\$ -	\$ 25,721	\$ 30,868	\$ 42,592	\$ -	\$ -	\$ 3,502
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 150,855	\$ 428,659	\$ 666,158	\$ -	\$ 672,037	\$ 704,982	\$ 878,285	\$ -	\$ -	\$ 87,178
Nonresidential Energy Solutions	\$ 210,767	\$ 373,806	\$ 340,109	\$ -	\$ 780,904	\$ 849,437	\$ 1,232,745	\$ -	\$ -	\$ 110,179
Commercial New Construction	\$ 58,510	\$ 226,121	\$ 177,961	\$ -	\$ 720,632	\$ 917,475	\$ 1,572,092	\$ -	\$ -	\$ 147,962
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 774,132</b>	<b>\$ 1,848,296</b>	<b>\$ 2,207,470</b>	<b>\$ -</b>	<b>\$ 3,463,359</b>	<b>\$ 3,723,367</b>	<b>\$ 5,247,854</b>	<b>\$ 382,239</b>	<b>\$ 455,005</b>	<b>\$ 484,752</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Ex- post Net Benefit/Cost Input Data - Electric Programs (Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 76,903	\$ 203,860	\$ 166,051	\$ -	\$ 170,671	\$ 207,510	\$ 302,167	\$ -	\$ -	\$ 30,217
Residential Assessment	\$ 12,833	\$ 84,452	\$ 84,452	\$ -	\$ 151,188	\$ 100,260	\$ 120,960	\$ 283,257	\$ 337,180	\$ 12,096
Residential Behavioral	\$ 124,215	\$ 217,800	\$ 217,800	\$ -	\$ 462,954	\$ 393,591	\$ 393,591	\$ -	\$ -	\$ 39,359
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 16,538	\$ -	\$ 66,920	\$ 45,905	\$ 54,096	\$ -	\$ -	\$ 5,410
Residential Low Income	\$ 9,854	\$ 22,336	\$ 22,336	\$ -	\$ 7,424	\$ 8,935	\$ 12,318	\$ -	\$ -	\$ 1,232
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 126,429	\$ 416,871	\$ 647,328	\$ -	\$ 660,305	\$ 690,428	\$ 852,258	\$ -	\$ -	\$ 85,226
Nonresidential Energy Solutions	\$ 143,764	\$ 244,122	\$ 214,091	\$ -	\$ 459,049	\$ 511,050	\$ 708,920	\$ -	\$ -	\$ 70,892
Commercial New Construction	\$ 46,987	\$ 179,376	\$ 142,491	\$ -	\$ 534,762	\$ 700,761	\$ 1,202,222	\$ -	\$ -	\$ 120,222
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 558,767</b>	<b>\$ 1,414,942</b>	<b>\$ 1,511,086</b>	<b>\$ -</b>	<b>\$ 2,513,274</b>	<b>\$ 2,658,440</b>	<b>\$ 3,646,531</b>	<b>\$ 283,257</b>	<b>\$ 337,180</b>	<b>\$ 364,653</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Ex- post Net Benefit/Cost Input Data - Gas Programs**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 60,821	\$ 135,628	\$ 406,556	\$ -	\$ 266,399	\$ 316,762	\$ 483,336	\$ -	\$ -	\$ 36,250
Residential Assessment	\$ 9,449	\$ 28,299	\$ 28,299	\$ -	\$ 58,873	\$ 54,729	\$ 66,140	\$ 98,982	\$ 117,825	\$ 4,961
Residential Behavioral	\$ 31,557	\$ 54,450	\$ 54,450	\$ -	\$ 87,060	\$ 101,848	\$ 101,848	\$ -	\$ -	\$ 7,639
Residential Low Income	\$ 10,586	\$ 26,759	\$ 26,759	\$ -	\$ 18,297	\$ 21,933	\$ 30,275	\$ -	\$ -	\$ 2,271
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 24,426	\$ 11,788	\$ 18,830	\$ -	\$ 11,731	\$ 14,554	\$ 26,028	\$ -	\$ -	\$ 1,952
Nonresidential Energy Solutions	\$ 67,003	\$ 129,685	\$ 126,018	\$ -	\$ 321,854	\$ 338,388	\$ 523,825	\$ -	\$ -	\$ 39,287
Commercial New Construction	\$ 11,523	\$ 46,745	\$ 35,471	\$ -	\$ 185,870	\$ 216,714	\$ 369,870	\$ -	\$ -	\$ 27,740
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 215,365</b>	<b>\$ 433,354</b>	<b>\$ 696,384</b>	<b>\$ -</b>	<b>\$ 950,085</b>	<b>\$ 1,064,927</b>	<b>\$ 1,601,323</b>	<b>\$ 98,982</b>	<b>\$ 117,825</b>	<b>\$ 120,099</b>

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Benefit/Cost Statistics - Total (Gas and Electric Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	1.12	0.73	1.84	0.80	1.30
Residential Assessment	6.25	0.45	1.15	3.98	4.88
Residential Behavioral	3.02	0.50	1.15	1.15	1.26
Residential Appliance Recycling	5.55	0.45	1.33	1.76	2.28
Residential Low Income	1.52	0.32	0.44	0.44	0.66
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.53	0.65	1.68	0.94	1.29
Nonresidential Energy Solutions	3.55	0.67	1.75	1.76	2.78
Commercial New Construction	5.55	1.00	4.60	4.60	8.63
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.33</b>	<b>0.69</b>	<b>1.89</b>	<b>1.45</b>	<b>2.23</b>

**Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.25	1.42	1.42	2.26	2.53
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Benefit/Cost Statistics - Electric Programs (Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	1.77	0.61	1.24	0.98	1.58
Residential Assessment	6.14	0.40	1.03	3.94	4.83
Residential Behavioral	3.17	0.49	1.17	1.17	1.29
Residential Appliance Recycling	5.55	0.45	1.33	1.76	2.28
Residential Low Income	1.33	0.23	0.28	0.28	0.42
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.54	0.66	1.76	0.97	1.31
Nonresidential Energy Solutions	3.31	0.65	1.59	1.60	2.44
Commercial New Construction	5.26	1.01	4.42	4.42	8.35
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.60</b>	<b>0.67</b>	<b>1.78</b>	<b>1.54</b>	<b>2.31</b>

**Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.25	1.42	1.42	2.26	2.53
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80



**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Benefit/Cost Statistics - Gas Programs**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	0.86	0.82	2.69	0.71	1.17
Residential Assessment	6.58	0.57	1.45	4.07	5.00
Residential Behavioral	2.44	0.56	1.07	1.07	1.15
Residential Low Income	1.68	0.39	0.59	0.59	0.87
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.09	0.37	0.54	0.39	0.75
Nonresidential Energy Solutions	3.99	0.70	2.07	2.07	3.45
Commercial New Construction	6.68	0.96	5.31	5.31	9.75
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>1.82</b>	<b>0.75</b>	<b>2.21</b>	<b>1.27</b>	<b>2.05</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Benefit/Cost Input Data - Total (Gas and Electric Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 137,724	\$ 339,488	\$ 954,328	\$ -	\$ 730,449	\$ 876,217	\$ 1,312,710	\$ -	\$ -	\$ 111,132
Residential Assessment	\$ 22,282	\$ 112,751	\$ 112,751	\$ -	\$ 210,061	\$ 154,988	\$ 187,100	\$ 382,239	\$ 455,005	\$ 17,057
Residential Behavioral	\$ 155,771	\$ 272,250	\$ 272,250	\$ -	\$ 550,757	\$ 493,285	\$ 493,285	\$ -	\$ -	\$ 47,037
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 30,625	\$ -	\$ 123,927	\$ 85,009	\$ 100,177	\$ -	\$ -	\$ 10,018
Residential Low Income	\$ 20,440	\$ 49,096	\$ 49,096	\$ -	\$ 25,721	\$ 30,868	\$ 42,592	\$ -	\$ -	\$ 3,502
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 150,855	\$ 428,659	\$ 888,211	\$ -	\$ 930,502	\$ 976,000	\$ 1,215,515	\$ -	\$ -	\$ 120,684
Nonresidential Energy Solutions	\$ 210,767	\$ 373,806	\$ 370,389	\$ -	\$ 940,848	\$ 1,023,419	\$ 1,485,235	\$ -	\$ -	\$ 132,746
Commercial New Construction	\$ 58,510	\$ 226,121	\$ 226,121	\$ -	\$ 1,029,474	\$ 1,310,679	\$ 2,245,846	\$ -	\$ -	\$ 211,375
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 774,132</b>	<b>\$ 1,848,296</b>	<b>\$ 2,903,771</b>	<b>\$ -</b>	<b>\$ 4,541,739</b>	<b>\$ 4,950,466</b>	<b>\$ 7,082,461</b>	<b>\$ 382,239</b>	<b>\$ 455,005</b>	<b>\$ 653,550</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Benefit/Cost Input Data - Electric Programs (Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 76,903	\$ 203,860	\$ 276,751	\$ -	\$ 286,451	\$ 348,280	\$ 507,150	\$ -	\$ -	\$ 50,715
Residential Assessment	\$ 12,833	\$ 84,452	\$ 84,452	\$ -	\$ 151,188	\$ 100,260	\$ 120,960	\$ 283,257	\$ 337,180	\$ 12,096
Residential Behavioral	\$ 124,215	\$ 217,800	\$ 217,800	\$ -	\$ 472,414	\$ 401,634	\$ 401,634	\$ -	\$ -	\$ 40,163
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 30,625	\$ -	\$ 123,927	\$ 85,009	\$ 100,177	\$ -	\$ -	\$ 10,018
Residential Low Income	\$ 9,854	\$ 22,336	\$ 22,336	\$ -	\$ 7,424	\$ 8,935	\$ 12,318	\$ -	\$ -	\$ 1,232
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 126,429	\$ 416,871	\$ 863,104	\$ -	\$ 914,861	\$ 956,596	\$ 1,180,813	\$ -	\$ -	\$ 118,081
Nonresidential Energy Solutions	\$ 143,764	\$ 244,122	\$ 240,705	\$ -	\$ 553,071	\$ 615,722	\$ 854,120	\$ -	\$ -	\$ 85,412
Commercial New Construction	\$ 46,987	\$ 179,376	\$ 179,376	\$ -	\$ 763,946	\$ 1,001,088	\$ 1,717,460	\$ -	\$ -	\$ 171,746
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 558,767</b>	<b>\$ 1,414,942</b>	<b>\$ 1,915,149</b>	<b>\$ -</b>	<b>\$ 3,273,281</b>	<b>\$ 3,517,525</b>	<b>\$ 4,894,632</b>	<b>\$ 283,257</b>	<b>\$ 337,180</b>	<b>\$ 489,463</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Benefit/Cost Input Data - Gas Programs**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 60,821	\$ 135,628	\$ 677,576	\$ -	\$ 443,998	\$ 527,937	\$ 805,560	\$ -	\$ -	\$ 60,417
Residential Assessment	\$ 9,449	\$ 28,299	\$ 28,299	\$ -	\$ 58,873	\$ 54,729	\$ 66,140	\$ 98,982	\$ 117,825	\$ 4,961
Residential Behavioral	\$ 31,557	\$ 54,450	\$ 54,450	\$ -	\$ 78,343	\$ 91,651	\$ 91,651	\$ -	\$ -	\$ 6,874
Residential Low Income	\$ 10,586	\$ 26,759	\$ 26,759	\$ -	\$ 18,297	\$ 21,933	\$ 30,275	\$ -	\$ -	\$ 2,271
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 24,426	\$ 11,788	\$ 25,107	\$ -	\$ 15,641	\$ 19,404	\$ 34,703	\$ -	\$ -	\$ 2,603
Nonresidential Energy Solutions	\$ 67,003	\$ 129,685	\$ 129,685	\$ -	\$ 387,776	\$ 407,696	\$ 631,114	\$ -	\$ -	\$ 47,334
Commercial New Construction	\$ 11,523	\$ 46,745	\$ 46,745	\$ -	\$ 265,528	\$ 309,591	\$ 528,386	\$ -	\$ -	\$ 39,629
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 215,365</b>	<b>\$ 433,354</b>	<b>\$ 988,622</b>	<b>\$ -</b>	<b>\$ 1,268,458</b>	<b>\$ 1,432,941</b>	<b>\$ 2,187,829</b>	<b>\$ 98,982</b>	<b>\$ 117,825</b>	<b>\$ 164,087</b>

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Net Benefit/Cost Statistics - Total (Gas and Electric Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	1.36	0.57	1.10	0.74	1.20
Residential Assessment	6.25	0.45	1.15	3.98	4.88
Residential Behavioral	3.02	0.50	1.15	1.15	1.26
Residential Appliance Recycling	6.84	0.35	0.72	1.34	1.73
Residential Low Income	1.52	0.32	0.44	0.44	0.66
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.69	0.57	1.26	0.90	1.23
Nonresidential Energy Solutions	3.40	0.62	1.45	1.54	2.44
Commercial New Construction	5.32	0.91	3.22	3.88	7.27
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.59</b>	<b>0.61</b>	<b>1.43</b>	<b>1.39</b>	<b>2.09</b>

**Net Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.25	1.42	1.42	2.26	2.53
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Net Benefit/Cost Statistics - Electric Programs (Non-Curtailment)**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	2.26	0.46	0.74	0.86	1.38
Residential Assessment	6.14	0.40	1.03	3.94	4.83
Residential Behavioral	3.17	0.49	1.17	1.17	1.29
Residential Appliance Recycling	6.84	0.35	0.72	1.34	1.73
Residential Low Income	1.33	0.23	0.28	0.28	0.42
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.70	0.58	1.32	0.93	1.26
Nonresidential Energy Solutions	3.28	0.60	1.32	1.43	2.18
Commercial New Construction	5.01	0.92	3.10	3.70	6.98
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.81</b>	<b>0.60</b>	<b>1.37</b>	<b>1.44</b>	<b>2.12</b>

**Net Benefit/Cost Statistics - Total Electric Curtailment**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Load Management	1.25	1.42	1.42	2.26	2.53
Nonresidential Load Management	1.00	3.45	3.45	3.45	3.80

**MidAmerican Energy Company  
2021 Illinois Energy Efficiency  
Net Benefit/Cost Statistics - Gas Programs**

Program	Participant Test	Ratepayer Impact Test	Utility Test	Total Resource Test	Societal Test
Residential Equipment	0.99	0.68	1.61	0.68	1.11
Residential Assessment	6.58	0.57	1.45	4.07	5.00
Residential Behavioral	2.44	0.56	1.07	1.07	1.15
Residential Low Income	1.68	0.39	0.59	0.59	0.87
Residential Education	-	-	-	-	-
Nonresidential Equipment	1.25	0.30	0.40	0.34	0.65
Nonresidential Energy Solutions	3.58	0.65	1.72	1.75	2.92
Commercial New Construction	6.56	0.89	3.72	4.61	8.46
Nonresidential Education	-	-	-	-	-
<b>Total</b>	<b>2.12</b>	<b>0.66</b>	<b>1.63</b>	<b>1.27</b>	<b>2.01</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Net Benefit/Cost Input Data - Total (Gas and Electric Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 137,724	\$ 339,488	\$ 572,607	\$ -	\$ 438,269	\$ 525,730	\$ 787,626	\$ -	\$ -	\$ 66,679
Residential Assessment	\$ 22,282	\$ 112,751	\$ 112,751	\$ -	\$ 210,061	\$ 154,988	\$ 187,100	\$ 382,239	\$ 455,005	\$ 17,057
Residential Behavioral	\$ 155,771	\$ 272,250	\$ 272,250	\$ -	\$ 550,757	\$ 493,285	\$ 493,285	\$ -	\$ -	\$ 47,037
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 16,538	\$ -	\$ 66,920	\$ 45,905	\$ 54,096	\$ -	\$ -	\$ 5,410
Residential Low Income	\$ 20,440	\$ 49,096	\$ 49,096	\$ -	\$ 25,721	\$ 30,868	\$ 42,592	\$ -	\$ -	\$ 3,502
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 150,855	\$ 428,659	\$ 666,158	\$ -	\$ 697,877	\$ 732,000	\$ 911,636	\$ -	\$ -	\$ 90,513
Nonresidential Energy Solutions	\$ 210,767	\$ 373,806	\$ 340,109	\$ -	\$ 780,904	\$ 849,437	\$ 1,232,745	\$ -	\$ -	\$ 110,179
Commercial New Construction	\$ 58,510	\$ 226,121	\$ 177,961	\$ -	\$ 720,632	\$ 917,475	\$ 1,572,092	\$ -	\$ -	\$ 147,962
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 774,132</b>	<b>\$ 1,848,296</b>	<b>\$ 2,207,470</b>	<b>\$ -</b>	<b>\$ 3,491,142</b>	<b>\$ 3,749,690</b>	<b>\$ 5,281,173</b>	<b>\$ 382,239</b>	<b>\$ 455,005</b>	<b>\$ 488,339</b>



**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Net Benefit/Cost Input Data - Electric Programs (Non-Curtailment)**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 76,903	\$ 203,860	\$ 166,051	\$ -	\$ 171,870	\$ 208,968	\$ 304,290	\$ -	\$ -	\$ 30,429
Residential Assessment	\$ 12,833	\$ 84,452	\$ 84,452	\$ -	\$ 151,188	\$ 100,260	\$ 120,960	\$ 283,257	\$ 337,180	\$ 12,096
Residential Behavioral	\$ 124,215	\$ 217,800	\$ 217,800	\$ -	\$ 472,414	\$ 401,634	\$ 401,634	\$ -	\$ -	\$ 40,163
Residential Appliance Recycling	\$ 17,783	\$ 46,125	\$ 16,538	\$ -	\$ 66,920	\$ 45,905	\$ 54,096	\$ -	\$ -	\$ 5,410
Residential Low Income	\$ 9,854	\$ 22,336	\$ 22,336	\$ -	\$ 7,424	\$ 8,935	\$ 12,318	\$ -	\$ -	\$ 1,232
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 126,429	\$ 416,871	\$ 647,328	\$ -	\$ 686,146	\$ 717,447	\$ 885,609	\$ -	\$ -	\$ 88,561
Nonresidential Energy Solutions	\$ 143,764	\$ 244,122	\$ 214,091	\$ -	\$ 459,049	\$ 511,050	\$ 708,920	\$ -	\$ -	\$ 70,892
Commercial New Construction	\$ 46,987	\$ 179,376	\$ 142,491	\$ -	\$ 534,762	\$ 700,761	\$ 1,202,222	\$ -	\$ -	\$ 120,222
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 558,767</b>	<b>\$ 1,414,942</b>	<b>\$ 1,511,086</b>	<b>\$ -</b>	<b>\$ 2,549,774</b>	<b>\$ 2,694,960</b>	<b>\$ 3,690,049</b>	<b>\$ 283,257</b>	<b>\$ 337,180</b>	<b>\$ 369,005</b>

**MidAmerican Energy Company**  
**2021 Illinois Energy Efficiency**  
**Net Benefit/Cost Input Data - Gas Programs**

Program	Administrative Costs	Incentives Paid	Incremental Investment	Estimated Tax Credits	Bill Savings (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - PRT)	Avoided Energy - Capacity Costs (NPV - SOC)	Non-Energy Benefits (NPV - PRT)	Non-Energy Benefits (NPV - SOC)	Externalities (NPV-SOC)
Residential Equipment	\$ 60,821	\$ 135,628	\$ 406,556	\$ -	\$ 266,399	\$ 316,762	\$ 483,336	\$ -	\$ -	\$ 36,250
Residential Assessment	\$ 9,449	\$ 28,299	\$ 28,299	\$ -	\$ 58,873	\$ 54,729	\$ 66,140	\$ 98,982	\$ 117,825	\$ 4,961
Residential Behavioral	\$ 31,557	\$ 54,450	\$ 54,450	\$ -	\$ 78,343	\$ 91,651	\$ 91,651	\$ -	\$ -	\$ 6,874
Residential Low Income	\$ 10,586	\$ 26,759	\$ 26,759	\$ -	\$ 18,297	\$ 21,933	\$ 30,275	\$ -	\$ -	\$ 2,271
Residential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonresidential Equipment	\$ 24,426	\$ 11,788	\$ 18,830	\$ -	\$ 11,731	\$ 14,553	\$ 26,027	\$ -	\$ -	\$ 1,952
Nonresidential Energy Solutions	\$ 67,003	\$ 129,685	\$ 126,018	\$ -	\$ 321,854	\$ 338,388	\$ 523,825	\$ -	\$ -	\$ 39,287
Commercial New Construction	\$ 11,523	\$ 46,745	\$ 35,471	\$ -	\$ 185,870	\$ 216,714	\$ 369,870	\$ -	\$ -	\$ 27,740
Nonresidential Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 215,365</b>	<b>\$ 433,354</b>	<b>\$ 696,384</b>	<b>\$ -</b>	<b>\$ 941,368</b>	<b>\$ 1,054,729</b>	<b>\$ 1,591,124</b>	<b>\$ 98,982</b>	<b>\$ 117,825</b>	<b>\$ 119,334</b>

Electric Summary (Energy Programs Only)

Total Administrative Cost:	\$	558,767
Total Participant Cost:	\$	1,915,149
Total Incentives Paid:	\$	1,414,942
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 4,971,480	\$ 3,517,525	\$ 3,517,525	\$ 3,800,782	\$ 5,721,276
Total Costs	\$ 1,915,149	\$ 5,246,990	\$ 1,973,709	\$ 2,473,917	\$ 2,473,917
Net Benefits	\$ 3,056,331	\$ (1,729,465)	\$ 1,543,816	\$ 1,326,865	\$ 3,247,359
B/C Ratio	2.60	0.67	1.78	1.54	2.31
Levelized Cost (\$/MWh)	\$ 33.37	\$ 91.43	\$ 34.39	\$ 43.11	\$ 43.11

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	12,690.764	3.381	\$ 89,454	\$ 64,206	\$ 137,252	\$ 372,596	\$ 760,460	\$ 40,807	\$ 66,351
2	5,613.898	1.050	\$ 28,409	\$ 20,391	\$ 43,589	\$ 182,892	\$ 292,366	\$ 40,807	\$ 27,528
3	5,613.898	1.050	\$ 29,048	\$ 20,849	\$ 44,570	\$ 201,660	\$ 296,752	\$ 40,807	\$ 29,613
4	5,613.898	1.050	\$ 29,702	\$ 21,319	\$ 45,572	\$ 207,294	\$ 301,203	\$ 40,807	\$ 30,389
5	5,613.898	1.050	\$ 30,370	\$ 21,798	\$ 46,598	\$ 213,982	\$ 305,721	\$ 40,807	\$ 31,275
6	5,573.692	1.031	\$ 30,482	\$ 21,879	\$ 46,770	\$ 222,994	\$ 306,769	\$ 40,807	\$ 32,213
7	5,573.692	1.031	\$ 31,168	\$ 22,371	\$ 47,822	\$ 230,434	\$ 311,370	\$ 40,807	\$ 33,180
8	5,573.692	1.031	\$ 31,869	\$ 22,874	\$ 48,898	\$ 245,420	\$ 316,041	\$ 40,807	\$ 34,906
9	5,288.931	0.991	\$ 31,343	\$ 22,496	\$ 48,090	\$ 244,821	\$ 299,862	\$ 40,807	\$ 34,675
10	4,967.480	0.955	\$ 30,864	\$ 22,153	\$ 47,356	\$ 238,536	\$ 280,754	\$ -	\$ 33,891
11	2,550.804	0.588	\$ 19,435	\$ 13,950	\$ 29,820	\$ 130,058	\$ 150,985	\$ -	\$ 19,326
12	2,550.804	0.588	\$ 19,873	\$ 14,264	\$ 30,491	\$ 137,008	\$ 153,250	\$ -	\$ 20,164
13	2,550.804	0.588	\$ 20,320	\$ 14,585	\$ 31,177	\$ 147,551	\$ 155,549	\$ -	\$ 21,363
14	2,550.804	0.588	\$ 20,777	\$ 14,913	\$ 31,879	\$ 157,763	\$ 157,882	\$ -	\$ 22,533
15	2,550.804	0.588	\$ 21,244	\$ 15,248	\$ 32,596	\$ 164,040	\$ 160,250	\$ -	\$ 23,313
16	1,437.876	0.418	\$ 15,446	\$ 11,086	\$ 23,699	\$ 94,224	\$ 96,486	\$ -	\$ 14,446
17	1,437.876	0.418	\$ 15,794	\$ 11,336	\$ 24,233	\$ 96,344	\$ 97,934	\$ -	\$ 14,771
18	1,437.876	0.418	\$ 16,149	\$ 11,591	\$ 24,778	\$ 98,512	\$ 99,403	\$ -	\$ 15,103
19	1,140.076	0.258	\$ 10,189	\$ 7,313	\$ 15,633	\$ 77,418	\$ 70,865	\$ -	\$ 11,055
20	1,140.076	0.258	\$ 10,418	\$ 7,478	\$ 15,985	\$ 79,160	\$ 71,928	\$ -	\$ 11,304
21	1,140.076	0.258	\$ 10,653	\$ 7,646	\$ 16,345	\$ 80,941	\$ 73,007	\$ -	\$ 11,558
22	1,140.076	0.258	\$ 10,892	\$ 7,818	\$ 16,712	\$ 82,763	\$ 74,102	\$ -	\$ 11,819
23	1,140.076	0.258	\$ 11,137	\$ 7,994	\$ 17,088	\$ 84,625	\$ 75,213	\$ -	\$ 12,084
24	1,140.076	0.258	\$ 11,388	\$ 8,174	\$ 17,473	\$ 86,529	\$ 76,342	\$ -	\$ 12,356
25	1,140.076	0.258	\$ 11,644	\$ 8,358	\$ 17,866	\$ 88,476	\$ 77,487	\$ -	\$ 12,634
26	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	57,389.804	12.201	\$ 363,401	\$ 260,833	\$ 557,581	\$ 2,335,710	\$ 3,273,281	\$ 283,257	\$ 351,752
NPV - SOC	75,099.269	15.988	\$ 494,468	\$ 354,907	\$ 758,681	\$ 3,286,576	\$ 4,330,516	\$ 337,180	\$ 489,463

## Gas Summary

Total Administrative Cost:	\$	215,365
Total Participant Cost:	\$	988,622
Total Incentives Paid:	\$	433,354
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact	Utility		Total Resource	Societal
Total Benefits	\$	1,800,794	\$	1,432,941	\$	1,531,923	\$ 2,469,741
Total Costs	\$	988,622	\$	1,917,177	\$	1,203,986	\$ 1,203,986
Net Benefits	\$	812,173	\$	(484,236)	\$	327,936	\$ 1,265,755
B/C Ratio		1.82		0.75		1.27	2.05
Levelized Cost (\$/MMBtu)	\$	4.34	\$	8.42	\$	5.29	\$ 3.70

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	38,000	465	\$ -	\$ -	\$ 45,027	\$ 135,653	\$ 154,261	\$ 14,260	\$ 13,551
2	19,214	220	\$ -	\$ -	\$ 21,648	\$ 74,791	\$ 81,021	\$ 14,260	\$ 7,233
3	19,214	220	\$ -	\$ -	\$ 21,940	\$ 78,356	\$ 88,342	\$ 14,260	\$ 7,522
4	19,214	220	\$ -	\$ -	\$ 22,236	\$ 78,973	\$ 92,110	\$ 14,260	\$ 7,591
5	19,214	220	\$ -	\$ -	\$ 22,536	\$ 82,659	\$ 92,934	\$ 14,260	\$ 7,890
6	18,634	211	\$ -	\$ -	\$ 21,850	\$ 83,987	\$ 93,802	\$ 14,260	\$ 7,938
7	18,634	211	\$ -	\$ -	\$ 22,145	\$ 88,818	\$ 97,870	\$ 14,260	\$ 8,322
8	18,634	211	\$ -	\$ -	\$ 22,444	\$ 94,677	\$ 102,908	\$ 14,260	\$ 8,784
9	18,634	211	\$ -	\$ -	\$ 22,747	\$ 98,880	\$ 108,980	\$ 14,260	\$ 9,122
10	16,837	206	\$ -	\$ -	\$ 22,552	\$ 92,899	\$ 102,520	\$ -	\$ 8,659
11	17,167	208	\$ -	\$ -	\$ 23,042	\$ 99,087	\$ 108,122	\$ -	\$ 9,160
12	17,167	208	\$ -	\$ -	\$ 23,353	\$ 103,613	\$ 112,678	\$ -	\$ 9,522
13	17,167	208	\$ -	\$ -	\$ 23,669	\$ 107,069	\$ 117,407	\$ -	\$ 9,805
14	17,167	208	\$ -	\$ -	\$ 23,988	\$ 112,643	\$ 121,070	\$ -	\$ 10,247
15	17,167	208	\$ -	\$ -	\$ 24,312	\$ 117,662	\$ 126,855	\$ -	\$ 10,648
16	16,616	199	\$ -	\$ -	\$ 23,619	\$ 117,805	\$ 127,724	\$ -	\$ 10,607
17	16,616	199	\$ -	\$ -	\$ 23,938	\$ 120,456	\$ 131,894	\$ -	\$ 10,830
18	16,616	199	\$ -	\$ -	\$ 24,261	\$ 123,166	\$ 134,755	\$ -	\$ 11,057
19	16,616	199	\$ -	\$ -	\$ 24,589	\$ 125,937	\$ 137,680	\$ -	\$ 11,289
20	16,616	199	\$ -	\$ -	\$ 24,921	\$ 128,771	\$ 140,669	\$ -	\$ 11,527
21	3,898	50	\$ -	\$ -	\$ 6,387	\$ 30,717	\$ 33,175	\$ -	\$ 2,783
22	3,898	50	\$ -	\$ -	\$ 6,474	\$ 31,408	\$ 33,898	\$ -	\$ 2,841
23	3,898	50	\$ -	\$ -	\$ 6,561	\$ 32,115	\$ 34,637	\$ -	\$ 2,901
24	3,898	50	\$ -	\$ -	\$ 6,650	\$ 32,837	\$ 35,392	\$ -	\$ 2,962
25	3,898	50	\$ -	\$ -	\$ 6,739	\$ 33,576	\$ 36,164	\$ -	\$ 3,024
26	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	227,655	2,684	\$ -	\$ -	\$ 285,693	\$ 1,147,248	\$ 1,268,458	\$ 98,982	\$ 107,471
NPV - SOC	325,008	3,849	\$ -	\$ -	\$ 419,938	\$ 1,767,891	\$ 1,946,444	\$ 117,825	\$ 164,087

## Residential Equipment

Total Administrative Cost:	\$	76,903
Total Participant Cost:	\$	276,751
Total Incentives Paid:	\$	203,860
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 490,310	\$ 348,280	\$ 348,280	\$ 348,280	\$ 557,865
Total Costs	\$ 276,751	\$ 567,214	\$ 280,763	\$ 353,655	\$ 353,655
Net Benefits	\$ 213,559	\$ (218,934)	\$ 67,517	\$ (5,374)	\$ 204,210
B/C Ratio	1.77	0.61	1.24	0.98	1.58
Levelized Cost (\$/MWh)	\$ 82.48	\$ 169.05	\$ 83.68	\$ 105.40	\$ 105.40

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	338.006	0.179	\$ 4,747	\$ 3,407	\$ 7,284	\$ 11,844	\$ 26,253	\$ -	\$ 2,728
2	338.006	0.179	\$ 4,854	\$ 3,484	\$ 7,448	\$ 12,782	\$ 26,647	\$ -	\$ 2,857
3	338.006	0.179	\$ 4,963	\$ 3,563	\$ 7,616	\$ 13,824	\$ 27,047	\$ -	\$ 2,997
4	338.006	0.179	\$ 5,075	\$ 3,643	\$ 7,787	\$ 14,217	\$ 27,453	\$ -	\$ 3,072
5	338.006	0.179	\$ 5,189	\$ 3,725	\$ 7,962	\$ 14,731	\$ 27,864	\$ -	\$ 3,161
6	297.800	0.160	\$ 4,735	\$ 3,399	\$ 7,265	\$ 13,560	\$ 24,744	\$ -	\$ 2,896
7	297.800	0.160	\$ 4,842	\$ 3,475	\$ 7,429	\$ 14,166	\$ 25,116	\$ -	\$ 2,991
8	297.800	0.160	\$ 4,951	\$ 3,553	\$ 7,596	\$ 14,974	\$ 25,492	\$ -	\$ 3,107
9	297.800	0.160	\$ 5,062	\$ 3,633	\$ 7,767	\$ 15,658	\$ 25,875	\$ -	\$ 3,212
10	297.800	0.160	\$ 5,176	\$ 3,715	\$ 7,941	\$ 16,204	\$ 26,263	\$ -	\$ 3,304
11	297.800	0.160	\$ 5,292	\$ 3,799	\$ 8,120	\$ 17,240	\$ 26,657	\$ -	\$ 3,445
12	297.800	0.160	\$ 5,411	\$ 3,884	\$ 8,303	\$ 18,036	\$ 27,057	\$ -	\$ 3,563
13	297.800	0.160	\$ 5,533	\$ 3,971	\$ 8,490	\$ 19,396	\$ 27,463	\$ -	\$ 3,739
14	297.800	0.160	\$ 5,658	\$ 4,061	\$ 8,681	\$ 20,595	\$ 27,874	\$ -	\$ 3,899
15	297.800	0.160	\$ 5,785	\$ 4,152	\$ 8,876	\$ 21,325	\$ 28,293	\$ -	\$ 4,014
16	297.800	0.160	\$ 5,915	\$ 4,246	\$ 9,076	\$ 21,805	\$ 28,717	\$ -	\$ 4,104
17	297.800	0.160	\$ 6,048	\$ 4,341	\$ 9,280	\$ 22,295	\$ 29,148	\$ -	\$ 4,196
18	297.800	0.160	\$ 6,184	\$ 4,439	\$ 9,489	\$ 22,797	\$ 29,585	\$ -	\$ 4,291
19	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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NPV - TRC	3,355.280	1.794	\$ 55,153	\$ 39,586	\$ 84,623	\$ 168,919	\$ 286,451	\$ -	\$ 34,828
NPV - SOC	4,676.176	2.503	\$ 79,132	\$ 56,797	\$ 121,415	\$ 249,806	\$ 406,431	\$ -	\$ 50,715

## Residential Assessment

Total Administrative Cost:	\$	12,833
Total Participant Cost:	\$	84,452
Total Incentives Paid:	\$	84,452
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact	Utility		Total Resource	Societal
Total Benefits	\$	518,897	\$	100,260	\$	383,517	\$ 470,236
Total Costs	\$	84,452	\$	248,473	\$	97,285	\$ 97,285
Net Benefits	\$	434,445	\$	(148,213)	\$	286,232	\$ 372,952
B/C Ratio		6.14		0.40		3.94	4.83
Levelized Cost (\$/MWh)	\$	37.85	\$	111.36	\$	43.60	\$ 43.60

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	321.451	0.037	\$ 969	\$ 695	\$ 1,486	\$ 8,940	\$ 20,646	\$ 40,807	\$ 1,209
2	321.451	0.037	\$ 991	\$ 711	\$ 1,520	\$ 9,498	\$ 20,956	\$ 40,807	\$ 1,272
3	321.451	0.037	\$ 1,013	\$ 727	\$ 1,554	\$ 10,537	\$ 21,270	\$ 40,807	\$ 1,383
4	321.451	0.037	\$ 1,036	\$ 743	\$ 1,589	\$ 10,849	\$ 21,590	\$ 40,807	\$ 1,422
5	321.451	0.037	\$ 1,059	\$ 760	\$ 1,625	\$ 11,229	\$ 21,913	\$ 40,807	\$ 1,467
6	321.451	0.037	\$ 1,083	\$ 777	\$ 1,661	\$ 11,806	\$ 22,242	\$ 40,807	\$ 1,533
7	321.451	0.037	\$ 1,107	\$ 795	\$ 1,699	\$ 12,173	\$ 22,576	\$ 40,807	\$ 1,577
8	321.451	0.037	\$ 1,132	\$ 813	\$ 1,737	\$ 12,952	\$ 22,914	\$ 40,807	\$ 1,663
9	321.451	0.037	\$ 1,158	\$ 831	\$ 1,776	\$ 13,540	\$ 23,258	\$ 40,807	\$ 1,730
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NPV - TRC	2,231.295	0.254	\$ 7,288	\$ 5,231	\$ 11,183	\$ 76,557	\$ 151,188	\$ 283,257	\$ 10,026
NPV - SOC	2,656.063	0.303	\$ 8,736	\$ 6,271	\$ 13,405	\$ 92,549	\$ 180,807	\$ 337,180	\$ 12,096

## Residential Behavioral

Total Administrative Cost:	\$	124,215
Total Participant Cost:	\$	217,800
Total Incentives Paid:	\$	217,800
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	690,214	\$	401,634	\$	401,634	\$	401,634	\$ 441,798
Total Costs	\$	217,800	\$	814,429	\$	342,015	\$	342,015	\$ 342,015
Net Benefits	\$	472,414	\$	(412,795)	\$	59,619	\$	59,619	\$ 99,783
B/C Ratio		3.17		0.49		1.17		1.17	1.29
Levelized Cost (\$/MWh)	\$	30.78	\$	115.08	\$	48.33	\$	48.33	\$ 48.33

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	7,076.866	2.331	\$ 61,670	\$ 44,264	\$ 94,623	\$ 201,078	\$ 472,414	\$ -	\$ 40,163
2	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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NPV - TRC	7,076.866	2.331	\$ 61,670	\$ 44,264	\$ 94,623	\$ 201,078	\$ 472,414	\$ -	\$ 40,163
NPV - SOC	7,076.866	2.331	\$ 61,670	\$ 44,264	\$ 94,623	\$ 201,078	\$ 472,414	\$ -	\$ 40,163

## Residential Load Management

Total Administrative Cost:	\$	92,451
Total Equipment Costs	\$	39,151
Total Participant Cost:	\$	64,202
Total Incentives Paid:	\$	71,709
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 80,378	\$ 2,419,543	\$ 2,419,543	\$ 2,419,543	\$ 3,627,424
Total Costs	\$ 64,202	\$ 1,708,521	\$ 1,699,852	\$ 1,070,077	\$ 1,432,135
Net Benefits	\$ 16,176	\$ 711,022	\$ 719,691	\$ 1,349,465	\$ 2,195,288
B/C Ratio	1.25	1.42	1.42	2.26	2.53
Levelized Cost (\$/kW)	\$ 2.61	\$ 69.50	\$ 69.15	\$ 43.53	\$ 43.58

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities	Assumed Ongoing Administrative Costs	Assumed Ongoing Incentives
1	9.536	2.540	\$ 67,205	\$ 48,237	\$ 103,115	\$ 428	\$ 821	\$ -	\$ 21,898	\$ -	\$ -
2	9.536	2.540	\$ 68,717	\$ 49,322	\$ 105,435	\$ 471	\$ 833	\$ -	\$ 22,394	\$ 94,300	\$ 71,709
3	9.536	2.540	\$ 70,263	\$ 50,432	\$ 107,807	\$ 498	\$ 846	\$ -	\$ 22,900	\$ 96,186	\$ 71,709
4	9.536	2.540	\$ 71,844	\$ 51,566	\$ 110,233	\$ 515	\$ 858	\$ -	\$ 23,416	\$ 98,110	\$ 71,709
5	9.536	2.540	\$ 73,460	\$ 52,727	\$ 112,713	\$ 536	\$ 871	\$ -	\$ 23,944	\$ 100,072	\$ 71,709
6	9.536	2.540	\$ 75,113	\$ 53,913	\$ 115,249	\$ 557	\$ 884	\$ -	\$ 24,483	\$ 102,074	\$ 71,709
7	9.536	2.540	\$ 76,803	\$ 55,126	\$ 117,842	\$ 589	\$ 898	\$ -	\$ 25,036	\$ 104,115	\$ 71,709
8	9.536	2.540	\$ 78,531	\$ 56,366	\$ 120,494	\$ 623	\$ 911	\$ -	\$ 25,601	\$ 106,198	\$ 71,709
9	9.536	2.540	\$ 80,298	\$ 57,635	\$ 123,205	\$ 650	\$ 925	\$ -	\$ 26,179	\$ 108,321	\$ 71,709
10	9.536	2.540	\$ 82,105	\$ 58,931	\$ 125,977	\$ 683	\$ 939	\$ -	\$ 26,770	\$ 110,488	\$ 71,709
11	9.536	2.540	\$ 83,952	\$ 60,257	\$ 128,812	\$ 714	\$ 953	\$ -	\$ 27,374	\$ 112,698	\$ 71,709
12	9.536	2.540	\$ 85,841	\$ 61,613	\$ 131,710	\$ 746	\$ 967	\$ -	\$ 27,991	\$ 114,952	\$ 71,709
13	9.536	2.540	\$ 87,773	\$ 62,999	\$ 134,673	\$ 799	\$ 981	\$ -	\$ 28,624	\$ 117,251	\$ 71,709
14	9.536	2.540	\$ 89,748	\$ 64,417	\$ 137,703	\$ 846	\$ 996	\$ -	\$ 29,271	\$ 119,596	\$ 71,709
15	9.536	2.540	\$ 91,767	\$ 65,866	\$ 140,802	\$ 879	\$ 1,011	\$ -	\$ 29,931	\$ 121,988	\$ 71,709
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NPV - TRC	92.286	24.581	\$ 742,219	\$ 532,732	\$ 1,138,815	\$ 5,778	\$ 8,669	\$ -	\$ 241,954	\$ 913,424	\$ 622,267
NPV - SOC	123.373	32.861	\$ 1,011,532	\$ 726,032	\$ 1,552,032	\$ 8,062	\$ 11,739	\$ -	\$ 329,766	\$ 1,275,482	\$ 856,030



## Residential Appliance Recycling

Total Administrative Cost:	\$	17,783
Total Participant Cost:	\$	30,625
Total Incentives Paid:	\$	46,125
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 170,052	\$ 85,009	\$ 85,009	\$ 85,009	110,195
Total Costs	\$ 30,625	\$ 187,835	\$ 63,908	\$ 48,408	48,408
Net Benefits	\$ 139,427	\$ (102,826)	\$ 21,101	\$ 36,601	61,786
B/C Ratio	5.55	0.45	1.33	1.76	2.28
Levelized Cost (\$/MWh)	\$ 16.90	\$ 103.63	\$ 35.26	\$ 26.71	26.71

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	284.761	0.039	\$ 1,041	\$ 747	\$ 1,597	\$ 8,049	\$ 18,570	\$ -	\$ 1,143
2	284.761	0.039	\$ 1,064	\$ 764	\$ 1,633	\$ 8,559	\$ 18,849	\$ -	\$ 1,202
3	284.761	0.039	\$ 1,088	\$ 781	\$ 1,670	\$ 9,478	\$ 19,131	\$ -	\$ 1,302
4	284.761	0.039	\$ 1,113	\$ 799	\$ 1,708	\$ 9,755	\$ 19,418	\$ -	\$ 1,337
5	284.761	0.039	\$ 1,138	\$ 817	\$ 1,746	\$ 10,097	\$ 19,710	\$ -	\$ 1,380
6	284.761	0.039	\$ 1,164	\$ 835	\$ 1,785	\$ 10,621	\$ 20,005	\$ -	\$ 1,440
7	284.761	0.039	\$ 1,190	\$ 854	\$ 1,825	\$ 10,962	\$ 20,305	\$ -	\$ 1,483
8	284.761	0.039	\$ 1,217	\$ 873	\$ 1,867	\$ 11,655	\$ 20,610	\$ -	\$ 1,561
9	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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NPV - TRC	1,812.491	0.250	\$ 7,115	\$ 5,107	\$ 10,917	\$ 61,871	\$ 123,927	\$ -	\$ 8,501
NPV - SOC	2,113.647	0.292	\$ 8,343	\$ 5,988	\$ 12,800	\$ 73,046	\$ 145,048	\$ -	\$ 10,018

## Residential Low Income

Total Administrative Cost:	\$	9,854
Total Participant Cost:	\$	22,336
Total Incentives Paid:	\$	22,336
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact	Utility		Total Resource	Societal
Total Benefits	\$	29,760	\$	8,935	\$	8,935	\$ 13,549
Total Costs	\$	22,336	\$	39,614	\$	32,190	\$ 32,190
Net Benefits	\$	7,424	\$	(30,679)	\$	(23,255)	\$ (18,641)
B/C Ratio		1.33		0.23		0.28	0.42
Levelized Cost (\$/MWh)	\$	219.19	\$	388.73	\$	315.88	\$ 315.88

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	10.530	0.005	\$ 136	\$ 98	\$ 209	\$ 299	\$ 703	-	\$ 74
2	10.530	0.005	\$ 139	\$ 100	\$ 213	\$ 319	\$ 713	-	\$ 77
3	10.530	0.005	\$ 142	\$ 102	\$ 218	\$ 352	\$ 724	-	\$ 81
4	10.530	0.005	\$ 145	\$ 104	\$ 223	\$ 362	\$ 735	-	\$ 84
5	10.530	0.005	\$ 149	\$ 107	\$ 228	\$ 376	\$ 746	-	\$ 86
6	10.530	0.005	\$ 152	\$ 109	\$ 233	\$ 395	\$ 757	-	\$ 89
7	10.530	0.005	\$ 155	\$ 112	\$ 238	\$ 409	\$ 769	-	\$ 91
8	10.530	0.005	\$ 159	\$ 114	\$ 244	\$ 434	\$ 780	-	\$ 95
9	10.530	0.005	\$ 162	\$ 117	\$ 249	\$ 453	\$ 792	-	\$ 98
10	10.530	0.005	\$ 166	\$ 119	\$ 255	\$ 469	\$ 804	-	\$ 101
11	10.530	0.005	\$ 170	\$ 122	\$ 261	\$ 502	\$ 816	-	\$ 105
12	10.530	0.005	\$ 174	\$ 125	\$ 267	\$ 526	\$ 828	-	\$ 109
13	10.530	0.005	\$ 178	\$ 127	\$ 273	\$ 569	\$ 840	-	\$ 115
14	10.530	0.005	\$ 182	\$ 130	\$ 279	\$ 606	\$ 853	-	\$ 120
15	10.530	0.005	\$ 186	\$ 133	\$ 285	\$ 629	\$ 866	-	\$ 123
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NPV - TRC	101.906	0.050	\$ 1,502	\$ 1,078	\$ 2,305	\$ 4,050	\$ 7,424	-	\$ 893
NPV - SOC	136.233	0.066	\$ 2,047	\$ 1,469	\$ 3,141	\$ 5,661	\$ 10,053	-	\$ 1,232

## Residential Education

Total Administrative Cost:	\$	11,523
Total Participant Cost:	\$	-
Total Incentives Paid:	\$	-
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	-	\$	-	\$	-	\$	-	-
Total Costs	\$	-	\$	11,523	\$	11,523	\$	11,523	11,523
Net Benefits	\$	-	\$	(11,523)	\$	(11,523)	\$	(11,523)	(11,523)
B/C Ratio		-		-		-		-	-
Levelized Cost (\$/MWh)									

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	-	-	\$	-	\$	-	\$	-	\$
2	-	-	\$	-	\$	-	\$	-	\$
3	-	-	\$	-	\$	-	\$	-	\$
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29	-	-	\$	-	\$	-	\$	-	\$
30	-	-	\$	-	\$	-	\$	-	\$
NPV - TRC	-	-	\$	-	\$	-	\$	-	\$
NPV - SOC	-	-	\$	-	\$	-	\$	-	\$

## Nonresidential Equipment

Total Administrative Cost:	\$	126,429
Total Participant Cost:	\$	863,104
Total Incentives Paid:	\$	416,871
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 1,331,732	\$ 956,596	\$ 956,596	\$ 956,596	\$ 1,298,894
Total Costs	\$ 863,104	\$ 1,458,161	\$ 543,300	\$ 989,533	\$ 989,533
Net Benefits	\$ 468,628	\$ (501,565)	\$ 413,296	\$ (32,937)	\$ 309,361
B/C Ratio	1.54	0.66	1.76	0.97	1.31
Levelized Cost (\$/MWh)	\$ 47.85	\$ 80.84	\$ 30.12	\$ 54.86	\$ 54.86

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	2,410.790	0.366	\$ 9,680	\$ 6,948	\$ 14,852	\$ 74,533	\$ 115,199	\$ -	\$ 10,601
2	2,410.790	0.366	\$ 9,898	\$ 7,104	\$ 15,186	\$ 79,429	\$ 116,927	\$ -	\$ 11,162
3	2,410.790	0.366	\$ 10,120	\$ 7,264	\$ 15,528	\$ 87,650	\$ 118,681	\$ -	\$ 12,056
4	2,410.790	0.366	\$ 10,348	\$ 7,427	\$ 15,877	\$ 90,043	\$ 120,461	\$ -	\$ 12,370
5	2,410.790	0.366	\$ 10,581	\$ 7,594	\$ 16,235	\$ 92,825	\$ 122,268	\$ -	\$ 12,724
6	2,410.790	0.366	\$ 10,819	\$ 7,765	\$ 16,600	\$ 97,574	\$ 124,102	\$ -	\$ 13,276
7	2,410.790	0.366	\$ 11,062	\$ 7,940	\$ 16,973	\$ 100,760	\$ 125,964	\$ -	\$ 13,674
8	2,410.790	0.366	\$ 11,311	\$ 8,119	\$ 17,355	\$ 107,434	\$ 127,853	\$ -	\$ 14,422
9	2,410.790	0.366	\$ 11,566	\$ 8,301	\$ 17,746	\$ 112,585	\$ 129,771	\$ -	\$ 15,020
10	2,410.790	0.366	\$ 11,826	\$ 8,488	\$ 18,145	\$ 116,007	\$ 131,717	\$ -	\$ 15,447
11	2.652	0.002	\$ 65	\$ 47	\$ 99	\$ 163	\$ 187	\$ -	\$ 37
12	2.652	0.002	\$ 66	\$ 48	\$ 102	\$ 170	\$ 190	\$ -	\$ 39
13	2.652	0.002	\$ 68	\$ 49	\$ 104	\$ 182	\$ 193	\$ -	\$ 40
14	2.652	0.002	\$ 69	\$ 50	\$ 106	\$ 194	\$ 196	\$ -	\$ 42
15	2.652	0.002	\$ 71	\$ 51	\$ 109	\$ 200	\$ 199	\$ -	\$ 43
16	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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NPV - TRC	18,036.982	2.741	\$ 79,333	\$ 56,942	\$ 121,724	\$ 698,597	\$ 914,861	\$ -	\$ 95,660
NPV - SOC	21,911.944	3.331	\$ 97,273	\$ 69,818	\$ 149,249	\$ 864,472	\$ 1,117,867	\$ -	\$ 118,081

## Nonresidential Energy Solutions

Total Administrative Cost:	\$	143,764
Total Participant Cost:	\$	240,705
Total Incentives Paid:	\$	244,122
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 797,193	\$ 615,722	\$ 615,722	\$ 615,722	\$ 939,533
Total Costs	\$ 240,705	\$ 940,957	\$ 387,886	\$ 384,469	\$ 384,469
Net Benefits	\$ 556,488	\$ (325,235)	\$ 227,837	\$ 231,254	\$ 555,064
B/C Ratio	3.31	0.65	1.59	1.60	2.44
Levelized Cost (\$/MWh)	\$ 22.48	\$ 87.88	\$ 36.23	\$ 35.91	\$ 35.91

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	1,108.284	0.166	\$ 4,384	\$ 3,147	\$ 6,727	\$ 34,173	\$ 52,468	-	\$ 4,843
2	1,108.284	0.166	\$ 4,483	\$ 3,218	\$ 6,878	\$ 36,414	\$ 53,255	-	\$ 5,099
3	1,108.284	0.166	\$ 4,584	\$ 3,290	\$ 7,033	\$ 40,189	\$ 54,054	-	\$ 5,510
4	1,108.284	0.166	\$ 4,687	\$ 3,364	\$ 7,191	\$ 41,289	\$ 54,865	-	\$ 5,653
5	1,108.284	0.166	\$ 4,792	\$ 3,440	\$ 7,353	\$ 42,570	\$ 55,688	-	\$ 5,816
6	1,108.284	0.166	\$ 4,900	\$ 3,517	\$ 7,519	\$ 44,748	\$ 56,523	-	\$ 6,068
7	1,108.284	0.166	\$ 5,011	\$ 3,596	\$ 7,688	\$ 46,208	\$ 57,371	-	\$ 6,250
8	1,108.284	0.166	\$ 5,123	\$ 3,677	\$ 7,861	\$ 49,265	\$ 58,232	-	\$ 6,593
9	1,108.284	0.166	\$ 5,239	\$ 3,760	\$ 8,038	\$ 51,623	\$ 59,105	-	\$ 6,866
10	1,108.284	0.166	\$ 5,356	\$ 3,845	\$ 8,219	\$ 53,197	\$ 59,992	-	\$ 7,062
11	1,099.747	0.163	\$ 5,381	\$ 3,862	\$ 8,256	\$ 56,081	\$ 60,418	-	\$ 7,358
12	1,099.747	0.163	\$ 5,502	\$ 3,949	\$ 8,442	\$ 59,236	\$ 61,324	-	\$ 7,713
13	1,099.747	0.163	\$ 5,626	\$ 4,038	\$ 8,632	\$ 63,730	\$ 62,244	-	\$ 8,203
14	1,099.747	0.163	\$ 5,752	\$ 4,129	\$ 8,826	\$ 68,297	\$ 63,178	-	\$ 8,700
15	1,099.747	0.163	\$ 5,882	\$ 4,222	\$ 9,025	\$ 71,060	\$ 64,126	-	\$ 9,019
16	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
17	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
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30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
NPV - TRC	10,706.869	1.597	\$ 48,201	\$ 34,597	\$ 73,957	\$ 458,968	\$ 553,071	-	\$ 61,572
NPV - SOC	14,305.619	2.133	\$ 65,604	\$ 47,088	\$ 100,659	\$ 640,770	\$ 748,508	-	\$ 85,412

## Commercial New Construction

Total Administrative Cost:	\$	46,987
Total Participant Cost:	\$	179,376
Total Incentives Paid:	\$	179,376
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact	Utility		Total Resource	Societal
Total Benefits	\$	943,321	\$	1,001,088	\$	1,001,088	\$ 1,889,206
Total Costs	\$	179,376	\$	990,308	\$	226,362	\$ 226,362
Net Benefits	\$	763,946	\$	10,780	\$	774,726	\$ 1,662,844
B/C Ratio		5.26		1.01		4.42	8.35
Levelized Cost (\$/MWh)	\$	12.75	\$	70.39	\$	16.09	\$ 16.09

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	1,140.076	0.258	\$ 6,826	\$ 4,900	\$ 10,474	\$ 33,679	\$ 54,205	-	\$ 5,588
2	1,140.076	0.258	\$ 6,980	\$ 5,010	\$ 10,710	\$ 35,890	\$ 55,018	-	\$ 5,859
3	1,140.076	0.258	\$ 7,137	\$ 5,123	\$ 10,951	\$ 39,629	\$ 55,844	-	\$ 6,284
4	1,140.076	0.258	\$ 7,298	\$ 5,238	\$ 11,197	\$ 40,778	\$ 56,681	-	\$ 6,451
5	1,140.076	0.258	\$ 7,462	\$ 5,356	\$ 11,449	\$ 42,153	\$ 57,532	-	\$ 6,642
6	1,140.076	0.258	\$ 7,630	\$ 5,476	\$ 11,706	\$ 44,291	\$ 58,395	-	\$ 6,910
7	1,140.076	0.258	\$ 7,801	\$ 5,599	\$ 11,970	\$ 45,757	\$ 59,270	-	\$ 7,113
8	1,140.076	0.258	\$ 7,977	\$ 5,725	\$ 12,239	\$ 48,706	\$ 60,160	-	\$ 7,465
9	1,140.076	0.258	\$ 8,156	\$ 5,854	\$ 12,515	\$ 50,962	\$ 61,062	-	\$ 7,749
10	1,140.076	0.258	\$ 8,340	\$ 5,986	\$ 12,796	\$ 52,660	\$ 61,978	-	\$ 7,978
11	1,140.076	0.258	\$ 8,527	\$ 6,121	\$ 13,084	\$ 56,073	\$ 62,908	-	\$ 8,380
12	1,140.076	0.258	\$ 8,719	\$ 6,258	\$ 13,378	\$ 59,040	\$ 63,851	-	\$ 8,740
13	1,140.076	0.258	\$ 8,916	\$ 6,399	\$ 13,679	\$ 63,674	\$ 64,809	-	\$ 9,267
14	1,140.076	0.258	\$ 9,116	\$ 6,543	\$ 13,987	\$ 68,071	\$ 65,781	-	\$ 9,772
15	1,140.076	0.258	\$ 9,321	\$ 6,690	\$ 14,302	\$ 70,826	\$ 66,768	-	\$ 10,114
16	1,140.076	0.258	\$ 9,531	\$ 6,841	\$ 14,624	\$ 72,419	\$ 67,769	-	\$ 10,341
17	1,140.076	0.258	\$ 9,745	\$ 6,995	\$ 14,953	\$ 74,049	\$ 68,786	-	\$ 10,574
18	1,140.076	0.258	\$ 9,965	\$ 7,152	\$ 15,289	\$ 75,715	\$ 69,818	-	\$ 10,812
19	1,140.076	0.258	\$ 10,189	\$ 7,313	\$ 15,633	\$ 77,418	\$ 70,865	-	\$ 11,055
20	1,140.076	0.258	\$ 10,418	\$ 7,478	\$ 15,985	\$ 79,160	\$ 71,928	-	\$ 11,304
21	1,140.076	0.258	\$ 10,653	\$ 7,646	\$ 16,345	\$ 80,941	\$ 73,007	-	\$ 11,558
22	1,140.076	0.258	\$ 10,892	\$ 7,818	\$ 16,712	\$ 82,763	\$ 74,102	-	\$ 11,819
23	1,140.076	0.258	\$ 11,137	\$ 7,994	\$ 17,088	\$ 84,625	\$ 75,213	-	\$ 12,084
24	1,140.076	0.258	\$ 11,388	\$ 8,174	\$ 17,473	\$ 86,529	\$ 76,342	-	\$ 12,356
25	1,140.076	0.258	\$ 11,644	\$ 8,358	\$ 17,866	\$ 88,476	\$ 77,487	-	\$ 12,634
26	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
27	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
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30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
NPV - TRC	14,068.115	3.184	\$ 103,139	\$ 74,029	\$ 158,251	\$ 665,669	\$ 763,946	-	\$ 100,109
NPV - SOC	22,222.720	5.029	\$ 171,664	\$ 123,212	\$ 263,390	\$ 1,159,194	\$ 1,249,388	-	\$ 171,746

## Nonresidential Load Management

Total Administrative Cost:	\$	32,371
Total Equipment Costs	\$	1,514
Total Participant Cost:	\$	714,270
Total Incentives Paid:	\$	714,270
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 716,267	\$ 2,579,423	\$ 2,579,423	\$ 2,579,423	\$ 2,837,365
Total Costs	\$ 714,270	\$ 748,638	\$ 746,641	\$ 746,641	\$ 746,641
Net Benefits	\$ 1,997	\$ 1,830,784	\$ 1,832,781	\$ 1,832,781	\$ 2,090,724
B/C Ratio	1.00	3.45	3.45	3.45	3.80
Levelized Cost (\$/kW)	\$ 22.86	\$ 23.96	\$ 23.90	\$ 23.90	\$ 23.90

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities	Assumed Ongoing Administrative Costs	Assumed Ongoing Incentives
1	42.380	31.242	\$ 792,596	\$ 568,890	\$ 1,216,111	\$ 1,825	\$ 1,997	\$ -	\$ 257,942	\$ -	\$ -
2	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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NPV - TRC	42.380	31.242	\$ 792,596	\$ 568,890	\$ 1,216,111	\$ 1,825	\$ 1,997	\$ -	\$ 257,942	\$ -	\$ -
NPV - SOC	42.380	31.242	\$ 792,596	\$ 568,890	\$ 1,216,111	\$ 1,825	\$ 1,997	\$ -	\$ 257,942	\$ -	\$ -

## Nonresidential Education

Total Administrative Cost:	\$	22,362
Total Participant Cost:	\$	-
Total Incentives Paid:	\$	-
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	-	\$	-	\$	-	\$	-	-
Total Costs	\$	-	\$	22,362	\$	22,362	\$	22,362	22,362
Net Benefits	\$	-	\$	(22,362)	\$	(22,362)	\$	(22,362)	(22,362)
B/C Ratio		-		-		-		-	-
Levelized Cost (\$/MWh)									

Year	Loss Adjusted Energy MWh	Loss Adjusted Peak MW	Avoided Generation Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	-	-	\$	-	\$	-	\$	-	\$
2	-	-	\$	-	\$	-	\$	-	\$
3	-	-	\$	-	\$	-	\$	-	\$
4	-	-	\$	-	\$	-	\$	-	\$
5	-	-	\$	-	\$	-	\$	-	\$
6	-	-	\$	-	\$	-	\$	-	\$
7	-	-	\$	-	\$	-	\$	-	\$
8	-	-	\$	-	\$	-	\$	-	\$
9	-	-	\$	-	\$	-	\$	-	\$
10	-	-	\$	-	\$	-	\$	-	\$
11	-	-	\$	-	\$	-	\$	-	\$
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29	-	-	\$	-	\$	-	\$	-	\$
30	-	-	\$	-	\$	-	\$	-	\$
NPV - TRC	-	-	\$	-	\$	-	\$	-	\$
NPV - SOC	-	-	\$	-	\$	-	\$	-	\$



## Residential Equipment

Total Administrative Cost:	\$	60,821
Total Participant Cost:	\$	677,576
Total Incentives Paid:	\$	135,628
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant	Ratepayer Impact	Utility	Total Resource	Societal
Total Benefits	\$ 579,627	\$ 527,937	\$ 527,937	\$ 527,937	\$ 865,977
Total Costs	\$ 677,576	\$ 640,447	\$ 196,449	\$ 738,397	\$ 738,397
Net Benefits	\$ (97,950)	\$ (112,510)	\$ 331,488	\$ (210,460)	\$ 127,580
B/C Ratio	0.86	0.82	2.69	0.71	1.17
Levelized Cost (\$/MMBtu)	\$ 8.95	\$ 8.46	\$ 2.59	\$ 9.75	\$ 6.74

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	7,093	117	\$ -	\$ -	\$ 11,357	\$ 25,670	\$ 29,582	\$ -	\$ 2,777
2	7,093	117	\$ -	\$ -	\$ 11,510	\$ 28,099	\$ 31,354	\$ -	\$ 2,971
3	7,093	117	\$ -	\$ -	\$ 11,665	\$ 29,504	\$ 33,869	\$ -	\$ 3,088
4	7,093	117	\$ -	\$ -	\$ 11,823	\$ 29,690	\$ 35,361	\$ -	\$ 3,113
5	7,093	117	\$ -	\$ -	\$ 11,983	\$ 31,038	\$ 35,634	\$ -	\$ 3,227
6	6,514	108	\$ -	\$ -	\$ 11,153	\$ 29,933	\$ 34,045	\$ -	\$ 3,081
7	6,514	108	\$ -	\$ -	\$ 11,304	\$ 31,485	\$ 35,557	\$ -	\$ 3,209
8	6,514	108	\$ -	\$ -	\$ 11,457	\$ 33,627	\$ 37,194	\$ -	\$ 3,381
9	6,514	108	\$ -	\$ -	\$ 11,611	\$ 35,073	\$ 39,421	\$ -	\$ 3,501
10	6,514	108	\$ -	\$ -	\$ 11,768	\$ 36,432	\$ 40,954	\$ -	\$ 3,615
11	6,514	108	\$ -	\$ -	\$ 11,927	\$ 38,070	\$ 42,401	\$ -	\$ 3,750
12	6,514	108	\$ -	\$ -	\$ 12,088	\$ 39,761	\$ 44,128	\$ -	\$ 3,889
13	6,514	108	\$ -	\$ -	\$ 12,251	\$ 41,074	\$ 45,911	\$ -	\$ 3,999
14	6,514	108	\$ -	\$ -	\$ 12,416	\$ 43,077	\$ 47,316	\$ -	\$ 4,162
15	6,514	108	\$ -	\$ -	\$ 12,584	\$ 45,213	\$ 49,412	\$ -	\$ 4,335
16	6,514	108	\$ -	\$ -	\$ 12,754	\$ 46,602	\$ 51,644	\$ -	\$ 4,452
17	6,514	108	\$ -	\$ -	\$ 12,926	\$ 47,651	\$ 53,129	\$ -	\$ 4,543
18	6,514	108	\$ -	\$ -	\$ 13,101	\$ 48,723	\$ 54,276	\$ -	\$ 4,637
19	6,514	108	\$ -	\$ -	\$ 13,277	\$ 49,819	\$ 55,447	\$ -	\$ 4,732
20	6,514	108	\$ -	\$ -	\$ 13,457	\$ 50,940	\$ 56,644	\$ -	\$ 4,830
21	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	75,726	1,251	\$ -	\$ -	\$ 133,721	\$ 394,216	\$ 443,998	\$ -	\$ 39,595
NPV - SOC	109,562	1,810	\$ -	\$ -	\$ 197,471	\$ 608,089	\$ 682,440	\$ -	\$ 60,417

## Residential Assessment

Total Administrative Cost:	\$	9,449
Total Participant Cost:	\$	28,299
Total Incentives Paid:	\$	28,299
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	186,154	\$	54,729	\$	54,729	\$	153,710	\$ 188,925
Total Costs	\$	28,299	\$	96,621	\$	37,748	\$	37,748	\$ 37,748
Net Benefits	\$	157,855	\$	(41,893)	\$	16,980	\$	115,962	\$ 151,177
B/C Ratio		6.58		0.57		1.45		4.07	5.00
Levelized Cost (\$/MMBtu)	\$	2.27	\$	7.74	\$	3.03	\$	3.03	\$ 2.54

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	1,797	5	\$ -	\$ -	\$ 444	\$ 5,929	\$ 6,815	\$ 14,260	\$ 478
2	1,797	5	\$ -	\$ -	\$ 450	\$ 6,712	\$ 7,370	\$ 14,260	\$ 537
3	1,797	5	\$ -	\$ -	\$ 457	\$ 7,004	\$ 8,174	\$ 14,260	\$ 560
4	1,797	5	\$ -	\$ -	\$ 463	\$ 7,087	\$ 8,488	\$ 14,260	\$ 566
5	1,797	5	\$ -	\$ -	\$ 469	\$ 7,436	\$ 8,593	\$ 14,260	\$ 593
6	1,797	5	\$ -	\$ -	\$ 475	\$ 7,766	\$ 8,965	\$ 14,260	\$ 618
7	1,797	5	\$ -	\$ -	\$ 482	\$ 8,312	\$ 9,318	\$ 14,260	\$ 660
8	1,797	5	\$ -	\$ -	\$ 488	\$ 8,825	\$ 9,887	\$ 14,260	\$ 698
9	1,797	5	\$ -	\$ -	\$ 495	\$ 9,254	\$ 10,423	\$ 14,260	\$ 731
10	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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22	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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28	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	12,476	32	\$ -	\$ -	\$ 3,237	\$ 51,492	\$ 58,873	\$ 98,982	\$ 4,105
NPV - SOC	14,851	38	\$ -	\$ -	\$ 3,869	\$ 62,271	\$ 71,145	\$ 117,825	\$ 4,961

## Residential Behavioral

Total Administrative Cost:	\$	31,557
Total Participant Cost:	\$	54,450
Total Incentives Paid:	\$	54,450
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	132,793	\$	91,651	\$	91,651	\$	91,651	\$ 98,525
Total Costs	\$	54,450	\$	164,350	\$	86,007	\$	86,007	\$ 86,007
Net Benefits	\$	78,343	\$	(72,699)	\$	5,644	\$	5,644	\$ 12,518
B/C Ratio		2.44		0.56		1.07		1.07	1.15
Levelized Cost (\$/MMBtu)	\$	2.90	\$	8.75	\$	4.58	\$	4.58	\$ 4.58

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost		Avoided Transmission Capacity Cost		Avoided Distribution Capacity Cost		Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	18,786	244	\$	-	\$	-	\$	23,668	\$ 67,983	\$ 78,343	\$ -	\$ 6,874
2	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
3	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
4	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
5	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
6	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
7	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
8	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
9	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
10	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
11	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
12	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
13	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
14	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
15	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
16	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
17	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
18	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
19	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
20	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
21	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
22	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
23	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
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29	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
30	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
NPV - TRC	18,786	244	\$	-	\$	-	\$	23,668	\$ 67,983	\$ 78,343	\$ -	\$ 6,874
NPV - SOC	18,786	244	\$	-	\$	-	\$	23,668	\$ 67,983	\$ 78,343	\$ -	\$ 6,874

## Residential Low Income

Total Administrative Cost:	\$	10,586
Total Participant Cost:	\$	26,759
Total Incentives Paid:	\$	26,759
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	45,057	\$	21,933	\$	21,933	\$	21,933	\$ 32,545
Total Costs	\$	26,759	\$	55,643	\$	37,345	\$	37,345	\$ 37,345
Net Benefits	\$	18,297	\$	(33,710)	\$	(15,412)	\$	(15,412)	\$ (4,800)
B/C Ratio		1.68		0.39		0.59		0.59	0.87
Levelized Cost (\$/MMBtu)	\$	8.07	\$	16.79	\$	11.27	\$	11.27	\$ 8.43

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost		Avoided Transmission Capacity Cost		Avoided Distribution Capacity Cost		Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	343	6	\$	-	\$	-	\$	547	\$ 1,239	\$ 1,428	-	\$ 134
2	343	6	\$	-	\$	-	\$	554	\$ 1,357	\$ 1,514	-	\$ 143
3	343	6	\$	-	\$	-	\$	562	\$ 1,425	\$ 1,635	-	\$ 149
4	343	6	\$	-	\$	-	\$	569	\$ 1,434	\$ 1,707	-	\$ 150
5	343	6	\$	-	\$	-	\$	577	\$ 1,499	\$ 1,721	-	\$ 156
6	343	6	\$	-	\$	-	\$	585	\$ 1,574	\$ 1,790	-	\$ 162
7	343	6	\$	-	\$	-	\$	593	\$ 1,655	\$ 1,869	-	\$ 169
8	343	6	\$	-	\$	-	\$	601	\$ 1,768	\$ 1,956	-	\$ 178
9	343	6	\$	-	\$	-	\$	609	\$ 1,844	\$ 2,073	-	\$ 184
10	343	6	\$	-	\$	-	\$	617	\$ 1,915	\$ 2,153	-	\$ 190
11	343	6	\$	-	\$	-	\$	625	\$ 2,002	\$ 2,229	-	\$ 197
12	343	6	\$	-	\$	-	\$	634	\$ 2,091	\$ 2,320	-	\$ 204
13	343	6	\$	-	\$	-	\$	642	\$ 2,160	\$ 2,414	-	\$ 210
14	343	6	\$	-	\$	-	\$	651	\$ 2,265	\$ 2,488	-	\$ 219
15	343	6	\$	-	\$	-	\$	660	\$ 2,377	\$ 2,598	-	\$ 228
16	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
17	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
18	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
19	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
20	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
21	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
22	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
23	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
24	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
25	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
26	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
27	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
28	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
29	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
30	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	-	\$ -
NPV - TRC	3,315	55	\$	-	\$	-	\$	5,725	\$ 16,208	\$ 18,297	-	\$ 1,645
NPV - SOC	4,431	73	\$	-	\$	-	\$	7,742	\$ 22,533	\$ 25,358	-	\$ 2,271



## Nonresidential Equipment

Total Administrative Cost:	\$	24,426
Total Participant Cost:	\$	25,107
Total Incentives Paid:	\$	11,788
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	27,429	\$	19,404	\$	19,404	\$	19,404	\$ 37,305
Total Costs	\$	25,107	\$	51,855	\$	36,213	\$	49,533	\$ 49,533
Net Benefits	\$	2,322	\$	(32,450)	\$	(16,809)	\$	(30,129)	\$ (12,227)
B/C Ratio		1.09		0.37		0.54		0.39	0.75
Levelized Cost (\$/MMBtu)	\$	10.86	\$	22.42	\$	15.66	\$	21.42	\$ 12.19

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	103	4	\$ -	\$ -	\$ 389	\$ 367	\$ 423	\$ -	\$ 57
2	103	4	\$ -	\$ -	\$ 394	\$ 404	\$ 450	\$ -	\$ 60
3	103	4	\$ -	\$ -	\$ 400	\$ 423	\$ 487	\$ -	\$ 62
4	103	4	\$ -	\$ -	\$ 405	\$ 426	\$ 508	\$ -	\$ 62
5	103	4	\$ -	\$ -	\$ 411	\$ 446	\$ 512	\$ -	\$ 64
6	103	4	\$ -	\$ -	\$ 416	\$ 467	\$ 533	\$ -	\$ 66
7	103	4	\$ -	\$ -	\$ 422	\$ 493	\$ 556	\$ -	\$ 69
8	103	4	\$ -	\$ -	\$ 427	\$ 526	\$ 583	\$ -	\$ 71
9	103	4	\$ -	\$ -	\$ 433	\$ 549	\$ 617	\$ -	\$ 74
10	103	4	\$ -	\$ -	\$ 439	\$ 569	\$ 641	\$ -	\$ 76
11	433	6	\$ -	\$ -	\$ 631	\$ 2,511	\$ 2,799	\$ -	\$ 236
12	433	6	\$ -	\$ -	\$ 639	\$ 2,624	\$ 2,914	\$ -	\$ 245
13	433	6	\$ -	\$ -	\$ 648	\$ 2,710	\$ 3,032	\$ -	\$ 252
14	433	6	\$ -	\$ -	\$ 656	\$ 2,848	\$ 3,125	\$ -	\$ 263
15	433	6	\$ -	\$ -	\$ 665	\$ 2,980	\$ 3,268	\$ -	\$ 273
16	223	3	\$ -	\$ -	\$ 322	\$ 1,590	\$ 1,760	\$ -	\$ 143
17	223	3	\$ -	\$ -	\$ 326	\$ 1,626	\$ 1,814	\$ -	\$ 146
18	223	3	\$ -	\$ -	\$ 331	\$ 1,663	\$ 1,853	\$ -	\$ 149
19	223	3	\$ -	\$ -	\$ 335	\$ 1,700	\$ 1,893	\$ -	\$ 153
20	223	3	\$ -	\$ -	\$ 340	\$ 1,738	\$ 1,934	\$ -	\$ 156
21	223	3	\$ -	\$ -	\$ 344	\$ 1,777	\$ 1,976	\$ -	\$ 159
22	223	3	\$ -	\$ -	\$ 349	\$ 1,817	\$ 2,019	\$ -	\$ 162
23	223	3	\$ -	\$ -	\$ 353	\$ 1,858	\$ 2,062	\$ -	\$ 166
24	223	3	\$ -	\$ -	\$ 358	\$ 1,900	\$ 2,107	\$ -	\$ 169
25	223	3	\$ -	\$ -	\$ 363	\$ 1,943	\$ 2,152	\$ -	\$ 173
26	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	2,313	50	\$ -	\$ -	\$ 5,395	\$ 14,009	\$ 15,641	\$ -	\$ 1,455
NPV - SOC	4,063	76	\$ -	\$ -	\$ 8,480	\$ 26,223	\$ 29,210	\$ -	\$ 2,603

## Nonresidential Energy Solutions

Total Administrative Cost:	\$	67,003
Total Participant Cost:	\$	129,685
Total Incentives Paid:	\$	129,685
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact	Utility		Total Resource	Societal
Total Benefits	\$	517,461	\$	407,696	\$	407,696	\$ 678,448
Total Costs	\$	129,685	\$	584,464	\$	196,688	\$ 196,688
Net Benefits	\$	387,776	\$	(176,768)	\$	211,008	\$ 481,760
B/C Ratio		3.99		0.70		2.07	3.45
Levelized Cost (\$/MMBtu)	\$	1.86	\$	8.39	\$	2.82	\$ 1.93

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost	Avoided Transmission Capacity Cost	Avoided Distribution Capacity Cost	Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	6,204	41	\$ -	\$ -	\$ 4,001	\$ 21,645	\$ 23,659	\$ -	\$ 1,923
2	6,204	41	\$ -	\$ -	\$ 4,055	\$ 24,004	\$ 25,331	\$ -	\$ 2,104
3	6,204	41	\$ -	\$ -	\$ 4,109	\$ 25,122	\$ 27,745	\$ -	\$ 2,192
4	6,204	41	\$ -	\$ -	\$ 4,165	\$ 25,334	\$ 28,919	\$ -	\$ 2,212
5	6,204	41	\$ -	\$ -	\$ 4,221	\$ 26,529	\$ 29,188	\$ -	\$ 2,306
6	6,204	41	\$ -	\$ -	\$ 4,278	\$ 27,789	\$ 30,441	\$ -	\$ 2,405
7	6,204	41	\$ -	\$ -	\$ 4,336	\$ 29,438	\$ 31,760	\$ -	\$ 2,533
8	6,204	41	\$ -	\$ -	\$ 4,394	\$ 31,360	\$ 33,468	\$ -	\$ 2,682
9	6,204	41	\$ -	\$ -	\$ 4,454	\$ 32,759	\$ 35,451	\$ -	\$ 2,791
10	6,204	41	\$ -	\$ -	\$ 4,514	\$ 33,904	\$ 36,912	\$ -	\$ 2,881
11	6,204	41	\$ -	\$ -	\$ 4,575	\$ 35,487	\$ 38,118	\$ -	\$ 3,005
12	6,204	41	\$ -	\$ -	\$ 4,636	\$ 37,141	\$ 39,765	\$ -	\$ 3,133
13	6,204	41	\$ -	\$ -	\$ 4,699	\$ 38,389	\$ 41,483	\$ -	\$ 3,232
14	6,204	41	\$ -	\$ -	\$ 4,763	\$ 40,481	\$ 42,796	\$ -	\$ 3,393
15	6,204	41	\$ -	\$ -	\$ 4,827	\$ 42,137	\$ 44,954	\$ -	\$ 3,522
16	6,204	41	\$ -	\$ -	\$ 4,892	\$ 43,720	\$ 46,677	\$ -	\$ 3,646
17	6,204	41	\$ -	\$ -	\$ 4,958	\$ 44,704	\$ 48,328	\$ -	\$ 3,725
18	6,204	41	\$ -	\$ -	\$ 5,025	\$ 45,710	\$ 49,381	\$ -	\$ 3,805
19	6,204	41	\$ -	\$ -	\$ 5,093	\$ 46,738	\$ 50,457	\$ -	\$ 3,887
20	6,204	41	\$ -	\$ -	\$ 5,162	\$ 47,790	\$ 51,557	\$ -	\$ 3,971
21	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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27	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPV - TRC	69,703	464	\$ -	\$ -	\$ 49,695	\$ 358,001	\$ 387,776	\$ -	\$ 30,577
NPV - SOC	101,699	677	\$ -	\$ -	\$ 73,995	\$ 557,119	\$ 602,322	\$ -	\$ 47,334

## Commercial New Construction

Total Administrative Cost:	\$	11,523
Total Participant Cost:	\$	46,745
Total Incentives Paid:	\$	46,745
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	312,274	\$	309,591	\$	309,591	\$	309,591	\$ 568,015
Total Costs	\$	46,745	\$	323,797	\$	58,269	\$	58,269	\$ 58,269
Net Benefits	\$	265,528	\$	(14,206)	\$	251,322	\$	251,322	\$ 509,746
B/C Ratio		6.68		0.96		5.31		5.31	9.75
Levelized Cost (\$/MMBtu)	\$	1.03	\$	7.14	\$	1.29	\$	1.29	\$ 0.81

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost		Avoided Transmission Capacity Cost		Avoided Distribution Capacity Cost		Avoided Energy Cost	Bill Savings	Non-Energy Benefits	Externalities
1	3,674	48	\$	-	\$	-	\$	4,622	\$ 12,819	\$ 14,011	\$ -	\$ 1,308
2	3,674	48	\$	-	\$	-	\$	4,684	\$ 14,216	\$ 15,002	\$ -	\$ 1,417
3	3,674	48	\$	-	\$	-	\$	4,747	\$ 14,878	\$ 16,431	\$ -	\$ 1,472
4	3,674	48	\$	-	\$	-	\$	4,811	\$ 15,003	\$ 17,127	\$ -	\$ 1,486
5	3,674	48	\$	-	\$	-	\$	4,876	\$ 15,711	\$ 17,286	\$ -	\$ 1,544
6	3,674	48	\$	-	\$	-	\$	4,942	\$ 16,458	\$ 18,028	\$ -	\$ 1,605
7	3,674	48	\$	-	\$	-	\$	5,009	\$ 17,434	\$ 18,809	\$ -	\$ 1,683
8	3,674	48	\$	-	\$	-	\$	5,077	\$ 18,572	\$ 19,821	\$ -	\$ 1,774
9	3,674	48	\$	-	\$	-	\$	5,145	\$ 19,401	\$ 20,995	\$ -	\$ 1,841
10	3,674	48	\$	-	\$	-	\$	5,215	\$ 20,079	\$ 21,860	\$ -	\$ 1,897
11	3,674	48	\$	-	\$	-	\$	5,285	\$ 21,017	\$ 22,575	\$ -	\$ 1,973
12	3,674	48	\$	-	\$	-	\$	5,356	\$ 21,996	\$ 23,550	\$ -	\$ 2,051
13	3,674	48	\$	-	\$	-	\$	5,429	\$ 22,735	\$ 24,567	\$ -	\$ 2,112
14	3,674	48	\$	-	\$	-	\$	5,502	\$ 23,974	\$ 25,345	\$ -	\$ 2,211
15	3,674	48	\$	-	\$	-	\$	5,576	\$ 24,955	\$ 26,623	\$ -	\$ 2,290
16	3,674	48	\$	-	\$	-	\$	5,651	\$ 25,893	\$ 27,644	\$ -	\$ 2,366
17	3,674	48	\$	-	\$	-	\$	5,728	\$ 26,475	\$ 28,622	\$ -	\$ 2,415
18	3,674	48	\$	-	\$	-	\$	5,805	\$ 27,071	\$ 29,245	\$ -	\$ 2,466
19	3,674	48	\$	-	\$	-	\$	5,883	\$ 27,680	\$ 29,883	\$ -	\$ 2,517
20	3,674	48	\$	-	\$	-	\$	5,963	\$ 28,303	\$ 30,534	\$ -	\$ 2,570
21	3,674	48	\$	-	\$	-	\$	6,043	\$ 28,939	\$ 31,199	\$ -	\$ 2,624
22	3,674	48	\$	-	\$	-	\$	6,125	\$ 29,591	\$ 31,880	\$ -	\$ 2,679
23	3,674	48	\$	-	\$	-	\$	6,208	\$ 30,256	\$ 32,575	\$ -	\$ 2,735
24	3,674	48	\$	-	\$	-	\$	6,291	\$ 30,937	\$ 33,285	\$ -	\$ 2,792
25	3,674	48	\$	-	\$	-	\$	6,376	\$ 31,633	\$ 34,012	\$ -	\$ 2,851
26	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
27	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
28	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
29	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
30	-	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
NPV - TRC	45,337	589	\$	-	\$	-	\$	64,252	\$ 245,339	\$ 265,528	\$ -	\$ 23,219
NPV - SOC	71,617	930	\$	-	\$	-	\$	104,713	\$ 423,673	\$ 457,626	\$ -	\$ 39,629



## Nonresidential Education

Total Administrative Cost:	\$	8,657
Total Participant Cost:	\$	-
Total Incentives Paid:	\$	-
Total Tax Credits:	\$	-

Benefit/Cost Data	Participant		Ratepayer Impact		Utility		Total Resource		Societal
Total Benefits	\$	-	\$	-	\$	-	\$	-	-
Total Costs	\$	-	\$	8,657	\$	8,657	\$	8,657	8,657
Net Benefits	\$	-	\$	(8,657)	\$	(8,657)	\$	(8,657)	(8,657)
B/C Ratio		-		-		-		-	-
Levelized Cost (\$/MMBtu)									

Year	Energy MMBtu	Peak MMBtu	Avoided Production Capacity Cost		Avoided Transmission Capacity Cost		Avoided Distribution Capacity Cost		Avoided Energy Cost		Bill Savings	Non-Energy Benefits		Externalities
1	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
2	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
3	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
4	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
5	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
6	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
7	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
8	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
9	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
10	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
11	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
12	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
13	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
14	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
15	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
16	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
17	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
18	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
19	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
20	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
21	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
22	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
23	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
24	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
25	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
26	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
27	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
28	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
29	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
30	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
NPV - TRC	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-
NPV - SOC	-	-	\$	-	\$	-	\$	-	\$	-	-	\$	-	-

## Residential Equipment

Total Administrative Costs		\$		76,903																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities		B/C Ratio					
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC.)	(NPV - SOC.)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net				
AIR SOURCE HEAT PUMP	0.60	1.00	1.00	13,530	(0.75)	8,118	(0.45)	\$ 5,237	\$ 3,142	\$ -	\$ -	\$ 0.60486	\$ 1,555.28	\$ 7,016	\$ 4,210	\$ 702	\$ 421	1.47	1.47				
CENTRAL AIR CONDITIONER	0.60	1.00	1.00	239,705	153.01	143,823	91.80	\$ 226,934	\$ 136,160	\$ -	\$ -	\$ 0.86178	\$ 1,555.28	\$ 444,542	\$ 266,725	\$ 44,454	\$ 26,673	2.15	2.15				
AIR SOURCE HEAT PUMP (DUCTLESS MINI-SPLIT)	0.60	0.98	0.97	44,565	7.86	26,204	4.59	\$ 27,276	\$ 16,366	\$ -	\$ -	\$ 0.60486	\$ 1,555.28	\$ 39,184	\$ 22,989	\$ 3,918	\$ 2,299	1.58	1.55				
SMART ADVANCED THERMOSTAT	0.60	0.89	0.79	40,206	19.31	21,398	9.14	\$ 17,304	\$ 10,383	\$ -	\$ -	\$ 0.20128	\$ 430.65	\$ 16,408	\$ 8,243	\$ 1,641	\$ 824	1.04	0.87				
Total				338,006	179.43	199,543	105.08	\$ 276,751	\$ 166,051	\$ -	\$ -			\$ 507,150	\$ 302,167	\$ 50,715	\$ 30,217						
Societal Test				Ex-ante Gross	Ex-post Net																		
Avoided Cost				\$ 507,150	\$ 302,167																		
Non Energy Benefits				\$ -	\$ -																		
Externalities				\$ 50,715	\$ 30,217																		
Benefits				\$ 557,865	\$ 332,384																		
Incremental Investment				\$ 276,751	\$ 166,051																		
Administrative Cost				\$ 76,903	\$ 76,903																		
Net Benefits				\$ 204,210	\$ 89,430																		
Societal Test				1.58	1.37																		

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Assessment

Total Administrative Costs		\$ 12,833																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities		B/C Ratio			
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net		
ENERGY EFFICIENCY KIT	1.00	1.00	1.00	22,767	2.69	22,767	2.69	\$ 8,343	\$ 8,343	\$ 45,139	\$ 45,139	\$ 0.28791	\$ 775.93	\$ 8,644	\$ 8,644	\$ 864	\$ 864	6.55	6.55		
ENERGY EFFICIENCY KIT (DUAL FUEL)	1.00	1.00	1.00	298,683	33.92	298,683	33.92	\$ 66,050	\$ 66,050	\$ 292,041	\$ 292,041	\$ 0.28791	\$ 775.93	\$ 112,316	\$ 112,316	\$ 11,232	\$ 11,232	6.29	6.29		
KIT RESHIPMENT FEE	1.00	1.00	1.00	-	-	-	-	\$ 75	\$ 75	-	-	-	-	-	-	-	-	-	-		
ONLINE ASSESSMENT	1.00	1.00	1.00	-	-	-	-	\$ 9,984	\$ 9,984	-	-	-	-	-	-	-	-	-	-		
Total				321,451	36.62	321,451	36.62	\$ 84,452	\$ 84,452	\$ 337,180	\$ 337,180			\$ 120,960	\$ 120,960	\$ 12,096	\$ 12,096				
Societal Test		Ex-ante Gross	Ex-post Net																		
Avoided Cost		\$ 120,960	\$ 120,960																		
Non Energy Benefits		\$ 337,180	\$ 337,180																		
Externalities		\$ 12,096	\$ 12,096																		
Benefits		\$ 470,236	\$ 470,236																		
Incremental Investment		\$ 84,452	\$ 84,452																		
Administrative Cost		\$ 12,833	\$ 12,833																		
Net Benefits		\$ 372,952	\$ 372,952																		
Societal Test		4.83	4.83																		

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Behavioral

Total Administrative Costs		\$	124,215																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities		B/C Ratio				
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net			
HOME ENERGY REPORTS				1.00	0.96	1.00	7,076,866	2,330.81	6,793,791	2,330.81	\$ 217,800	\$ 217,800	\$ -	\$ -	\$ 0.02841	\$ 86.05	\$ 401,634	\$ 393,591	\$ 40,163	\$ 39,359	2.03	1.99
Total							7,076,866	2,330.81	6,793,791	2,330.81	\$ 217,800	\$ 217,800	\$ -	\$ -			\$ 401,634	\$ 393,591	\$ 40,163	\$ 39,359		
Societal Test				Ex-ante Gross	Ex-post Net																	
Avoided Cost				\$ 401,634	\$ 393,591																	
Non Energy Benefits				\$ -	\$ -																	
Externalities				\$ 40,163	\$ 39,359																	
Benefits				\$ 441,798	\$ 432,950																	
Incremental Investment				\$ 217,800	\$ 217,800																	
Administrative Cost				\$ 124,215	\$ 124,215																	
Net Benefits				\$ 99,783	\$ 90,935																	
Societal Test				1.29	1.27																	

All factors based on program wide Net-to-Gross from TetraTech final reports

# Residential Appliance Recycling

Total Administrative Costs		\$ 17,783																			
		Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities		B/C Ratio			
Measure	NTG Ratio	kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC.)	(NPV - SOC.)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net		
RECYCLED FREEZER 1ST UNIT	0.54	1.00	1.00	31,660	5.12	17,097	2.76	\$ 4,017	\$ 2,169	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 11,650	\$ 6,291	\$ 1,165	\$ 629	3.19	3.19		
RECYCLED FREEZER 2ND UNIT	0.54	1.00	1.00	8,930	1.44	4,822	0.78	\$ 730	\$ 394	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 3,286	\$ 1,774	\$ 329	\$ 177	4.95	4.95		
RECYCLED REFRIGERATOR 1ST UNIT	0.54	1.00	1.00	211,302	28.37	114,103	15.32	\$ 23,175	\$ 12,515	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 73,767	\$ 39,834	\$ 7,377	\$ 3,983	3.50	3.50		
RECYCLED REFRIGERATOR 2ND UNIT	0.54	1.00	1.00	32,869	4.41	17,749	2.38	\$ 2,628	\$ 1,419	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 11,475	\$ 6,196	\$ 1,147	\$ 620	4.80	4.80		
SCHEDULING INCENTIVE	0.54	1.00	1.00	-	-	-	-	\$ 75	\$ 41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-		
Total				284,761	39.35	153,771	21.25	\$ 30,625	\$ 16,538	\$ -	\$ -			\$ 100,177	\$ 54,096	\$ 10,018	\$ 5,410				
Societal Test		Ex-ante Gross		Ex-post Net																	
Avoided Cost		\$ 100,177		\$ 54,096																	
Non Energy Benefits		\$ -		\$ -																	
Externalities		\$ 10,018		\$ 5,410																	
Benefits		\$ 110,195		\$ 59,505																	
Incremental Investment		\$ 30,625		\$ 16,538																	
Administrative Cost		\$ 17,783		\$ 17,783																	
Net Benefits		\$ 61,786		\$ 25,184																	
Societal Test		2.28		1.73																	

All factors based on program wide Net-to-Gross from TetraTech final reports

Residential Low Income

Total Administrative Costs		\$		9,854																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC)	SOC Avoided Cost		Externalities		B/C Ratio					
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net			Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net				
LOW INCOME WEATHERIZATION	1.00	1.00	1.00	10,530	5.14	10,530	5.14	\$ 22,336	\$ 22,336	\$ -	\$ -	\$ 0.53757	\$ 1,295.12	\$ 12,318	\$ 12,318	\$ 1,232	\$ 1,232	0.61	0.61				
Total				10,530	5.14	10,530	5.14	\$ 22,336	\$ 22,336	\$ -	\$ -			\$ 12,318	\$ 12,318	\$ 1,232	\$ 1,232						
Societal Test	Ex-ante Gross	Ex-post Net																					
Avoided Cost	\$ 12,318	\$ 12,318																					
Non Energy Benefits	\$ -	\$ -																					
Externalities	\$ 1,232	\$ 1,232																					
Benefits	\$ 13,549	\$ 13,549																					
Incremental Investment	\$ 22,336	\$ 22,336																					
Administrative Cost	\$ 9,854	\$ 9,854																					
Net Benefits	\$ (18,641)	\$ (18,641)																					
Societal Test	0.42	0.42																					

All factors based on program wide Net-to-Gross from TetraTech final reports

## Nonresidential Equipment

Total Administrative Costs		\$ 126,429																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio			
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net			Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net		
CENTRAL AIR CONDITIONER	0.75	1.00	1.00	2,652	1.96	1,989	1.47	\$ 1,734	\$ 1,301	\$ -	\$ -	\$ 0.69141	\$ 1,295.12	\$ 4,373	\$ 3,280	\$ 437	\$ 328	2.77	2.77		
LED EXTERIOR FIXTURES - BUILDING EXTERIOR	0.75	0.95	0.00	93,686	-	67,032	-	\$ 110,794	\$ 83,096	\$ -	\$ -	\$ 0.35822	\$ -	\$ 33,560	\$ 24,012	\$ 3,356	\$ 2,401	0.33	0.32		
LED TROFFER	0.75	0.97	0.94	258,105	71.07	187,191	50.05	\$ 138,428	\$ 103,821	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 153,744	\$ 110,216	\$ 15,374	\$ 11,022	1.22	1.17		
LED LINEAR LAMPS	0.75	0.97	0.94	341,322	73.50	247,544	51.76	\$ 73,687	\$ 55,265	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 185,653	\$ 133,314	\$ 18,565	\$ 13,331	2.77	2.65		
LED EXTERIOR FIXTURES - LED OUTDOOR AREA LIGHTING	0.75	0.95	0.00	276,137	-	197,576	-	\$ 213,374	\$ 160,031	\$ -	\$ -	\$ 0.35822	\$ -	\$ 98,917	\$ 70,775	\$ 9,892	\$ 7,078	0.51	0.49		
LED HIGH-BAY FIXTURE	0.75	0.95	1.00	1,081,533	186.02	773,837	139.52	\$ 254,995	\$ 191,246	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 547,841	\$ 397,514	\$ 54,784	\$ 39,751	2.36	2.29		
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPONENT	0.75	0.95	1.00	5,654	2.65	4,045	1.99	\$ 4,498	\$ 3,374	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 4,310	\$ 3,163	\$ 431	\$ 316	1.05	1.03		
LED TROFFER RETROFIT KIT	0.75	0.97	0.94	351,701	30.65	255,071	21.58	\$ 65,594	\$ 49,196	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 152,414	\$ 109,983	\$ 15,241	\$ 10,998	2.56	2.46		
SUPPLEMENTAL PAYMENT	1.00	1.00	1.00	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-		
Total				2,410,790	365.85	1,734,285	266.37	\$ 863,104	\$ 647,328	\$ -	\$ -			\$ 1,180,813	\$ 852,258	\$ 118,081	\$ 85,226				
Societal Test	Ex-ante Gross	Ex-post Net																			
Avoided Cost	\$ 1,180,813	\$ 852,258																			
Non Energy Benefits	\$ -	\$ -																			
Externalities	\$ 118,081	\$ 85,226																			
Benefits	\$ 1,298,894	\$ 937,483																			
Incremental Investment	\$ 863,104	\$ 647,328																			
Administrative Cost	\$ 126,429	\$ 126,429																			
Net Benefits	\$ 309,361	\$ 163,726																			
Societal Test	1.31	1.21																			

All factors based on program wide Net-to-Gross from TetraTech final reports

## Nonresidential Energy Solutions

Total Administrative Costs		\$		143,764												Unit Avoided Energy Cost (\$/kWh)		Unit Avoided Capacity Cost (\$/kW)					
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits						SOC Avoided Cost		Externalities		B/C Ratio			
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net			(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net		
CUSTOM - HVAC	0.83	1.00	1.00	28,314	6.30	23,501	5.23	\$ 2,366	\$ 1,964	\$ -	\$ -	\$ -	\$ -	\$ 0.52929	\$ 1,295.12	\$ 23,146	\$ 19,211	\$ 2,315	\$ 1,921	10.76	10.76		
CUSTOM - LIGHTING	0.83	1.00	1.00	1,071,433	156.50	889,289	129.90	\$ 148,037	\$ 122,871	\$ -	\$ -	\$ -	\$ -	\$ 0.58121	\$ 1,295.12	\$ 825,411	\$ 685,091	\$ 82,541	\$ 68,509	6.13	6.13		
LED HIGH-BAY FIXTURE	0.83	1.00	1.00	6,959	2.49	5,776	2.07	\$ 5,400	\$ 4,482	\$ -	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 4,639	\$ 3,850	\$ 464	\$ 385	0.94	0.94		
LED LINEAR LAMPS	0.83	1.00	1.00	1,578	0.42	1,310	0.35	\$ 750	\$ 623	\$ -	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 925	\$ 768	\$ 92	\$ 77	1.36	1.36		
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANCE	1.00	1.00	1.00	-	-	-	-	\$ 83,904	\$ 83,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-		
BONUS PAYMENT	1.00	1.00	1.00	-	-	-	-	\$ 248	\$ 248	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-		
Total				1,108,284	165.71	919,876	137.54	\$ 240,705	\$ 214,091	\$ -	\$ -					\$ 854,120	\$ 708,920	\$ 85,412	\$ 70,892				
Societal Test		Ex-ante Gross		Ex-post Net																			
Avoided Cost		\$ 854,120		\$ 708,920																			
Non Energy Benefits		\$ -		\$ -																			
Externalities		\$ 85,412		\$ 70,892																			
Benefits		\$ 939,533		\$ 779,812																			
Incremental Investment		\$ 240,705		\$ 214,091																			
Administrative Cost		\$ 143,764		\$ 143,764																			
Net Benefits		\$ 555,064		\$ 421,957																			
Societal Test		2.44		2.18																			

All factors based on program wide Net-to-Gross from TetraTech final reports



Commercial New Construction

Total Administrative Costs		\$		46,987												Unit	Unit										
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit	Unit	SOC Avoided Cost		Externalities		B/C Ratio									
		kWh	Peak kW	kWh	Peak kW	kWh	Peak kW	Gross	Net	Ex-ante Gross	Ex-post Net	Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Avoided Capacity Cost (\$/kW) (NPV - SOC.)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net								
DESIGN ASSISTANCE	1.00	1.00	1.00	-	-	-	-	\$ 51,926	\$ 51,926	\$ -	\$ -	\$ 1.01677	\$ -	\$ -	\$ -	\$ -	-	-	-								
INSTALLATION PAYMENT - DUAL FUEL	0.70	1.00	1.00	89,770	20.00	62,839	14.00	\$ 11,185	\$ 7,830	\$ -	\$ -	\$ 1.01677	\$ 2,163.82	\$ 134,552	\$ 94,186	\$ 13,455	\$ 9,419	13.23	13.23								
DESIGN TEAM	1.00	1.00	1.00	-	-	-	-	\$ 4,500	\$ 4,500	\$ -	\$ -	\$ 1.01677	\$ -	\$ -	\$ -	\$ -	-	-	-								
INSTALLATION PAYMENT - ELECTRIC ONLY	0.70	1.00	1.00	1,050,306	238.00	735,214	166.60	\$ 111,765	\$ 78,236	\$ -	\$ -	\$ 1.01677	\$ 2,163.82	\$ 1,582,908	\$ 1,108,036	\$ 158,291	\$ 110,804	15.58	15.58								
Total				1,140,076	258.00	798,053	180.60	\$ 179,376	\$ 142,491	\$ -	\$ -			\$ 1,717,460	\$ 1,202,222	\$ 171,746	\$ 120,222										
Societal Test		Ex-ante Gross		Ex-post Net																							
Avoided Cost		\$ 1,717,460		\$ 1,202,222																							
Non Energy Benefits		\$ -		\$ -																							
Externalities		\$ 171,746		\$ 120,222																							
Benefits		\$ 1,889,206		\$ 1,322,444																							
Incremental Investment		\$ 179,376		\$ 142,491																							
Administrative Cost		\$ 46,987		\$ 46,987																							
Net Benefits		\$ 1,662,844		\$ 1,132,967																							
Societal Test		8.35		6.98																							

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Equipment

Total Administrative Costs		\$		76,903																				
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio								
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net			Gross	Net	Gross	Net									
AIR SOURCE HEAT PUMP	0.60	13,530	(0.75)	8,118	(0.45)	\$	5,237	\$	3,142	\$	-	\$	0.60486	\$	1,555.28	\$	7,016	\$	4,210	\$	702	\$	421	1.47
CENTRAL AIR CONDITIONER	0.60	239,705	153.01	143,823	91.80	\$	226,934	\$	136,160	\$	-	\$	0.86178	\$	1,555.28	\$	444,542	\$	266,725	\$	44,454	\$	26,673	2.15
AIR SOURCE HEAT PUMP (DUCTLESS MINI-SPLIT)	0.60	44,565	7.86	26,739	4.72	\$	27,276	\$	16,366	\$	-	\$	0.60486	\$	1,555.28	\$	39,184	\$	23,510	\$	3,918	\$	2,351	1.58
SMART ADVANCED THERMOSTAT	0.60	40,206	19.31	24,124	11.59	\$	17,304	\$	10,383	\$	-	\$	0.20128	\$	430.65	\$	16,408	\$	9,845	\$	1,641	\$	984	1.04
Total		338,006	179.43	202,803	107.66	\$	276,751	\$	166,051	\$	-	\$	-			\$	507,150	\$	304,290	\$	50,715	\$	30,429	
Societal Test		Gross		Net																				
Avoided Cost	\$	507,150	\$	304,290																				
Non Energy Benefits	\$	-	\$	-																				
Externalities	\$	50,715	\$	30,429																				
Benefits	\$	557,865	\$	334,719																				
Incremental Investment	\$	276,751	\$	166,051																				
Administrative Cost	\$	76,903	\$	76,903																				
Net Benefits	\$	204,210	\$	91,765																				
Societal Test		1.58		1.38																				

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Assessment

Total Administrative Costs	\$	12,833														
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
ENERGY EFFICIENCY KIT	1.00	22,767	2.69	22,767	2.69	\$ 8,343	\$ 8,343	\$ 45,139	\$ 45,139	\$ 0.28791	\$ 775.93	\$ 8,644	\$ 8,644	\$ 864	\$ 864	6.55
ENERGY EFFICIENCY KIT (DUAL FUEL)	1.00	298,683	33.92	298,683	33.92	\$ 66,050	\$ 66,050	\$ 292,041	\$ 292,041	\$ 0.28791	\$ 775.93	\$ 112,316	\$ 112,316	\$ 11,232	\$ 11,232	6.29
KIT RESHIPMENT FEE	1.00	-	-	-	-	\$ 75	\$ 75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
ONLINE ASSESSMENT	1.00	-	-	-	-	\$ 9,984	\$ 9,984	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total		321,451	36.62	321,451	36.62	\$ 84,452	\$ 84,452	\$ 337,180	\$ 337,180			\$ 120,960	\$ 120,960	\$ 12,096	\$ 12,096	
<b>Societal Test</b>																
		Gross	Net													
Avoided Cost	\$	120,960	\$ 120,960													
Non Energy Benefits	\$	337,180	\$ 337,180													
Externalities	\$	12,096	\$ 12,096													
Benefits	\$	470,236	\$ 470,236													
Incremental Investment	\$	84,452	\$ 84,452													
Administrative Cost	\$	12,833	\$ 12,833													
Net Benefits	\$	372,952	\$ 372,952													
Societal Test		4.83	4.83													

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Behavioral

Total Administrative Costs	\$	124,215														
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
HOME ENERGY REPORTS	1.00	7,076,866	2,330.81	7,076,866	2,330.81	\$ 217,800	\$ 217,800	\$ -	\$ -	\$ 0.02841	\$ 86.05	\$ 401,634	\$ 401,634	\$ 40,163	\$ 40,163	2.03
Total		7,076,866	2,330.81	7,076,866	2,330.81	\$ 217,800	\$ 217,800	\$ -	\$ -			\$ 401,634	\$ 401,634	\$ 40,163	\$ 40,163	
Societal Test		Gross	Net													
Avoided Cost	\$	401,634	\$ 401,634													
Non Energy Benefits	\$	-	\$ -													
Externalities	\$	40,163	\$ 40,163													
Benefits	\$	441,798	\$ 441,798													
Incremental Investment	\$	217,800	\$ 217,800													
Administrative Cost	\$	124,215	\$ 124,215													
Net Benefits	\$	99,783	\$ 99,783													
Societal Test		1.29	1.29													

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Appliance Recycling

Total Administrative Costs		\$		17,783												
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
RECYCLED FREEZER 1ST UNIT	0.54	31,660	5.12	17,097	2.76	\$ 4,017	\$ 2,169	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 11,650	\$ 6,291	\$ 1,165	\$ 629	3.19
RECYCLED FREEZER 2ND UNIT	0.54	8,930	1.44	4,822	0.78	\$ 730	\$ 394	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 3,286	\$ 1,774	\$ 329	\$ 177	4.95
RECYCLED REFRIGERATOR 1ST UNIT	0.54	211,302	28.37	114,103	15.32	\$ 23,175	\$ 12,515	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 73,767	\$ 39,834	\$ 7,377	\$ 3,983	3.50
RECYCLED REFRIGERATOR 2ND UNIT	0.54	32,869	4.41	17,749	2.38	\$ 2,628	\$ 1,419	\$ -	\$ -	\$ 0.25652	\$ 689.55	\$ 11,475	\$ 6,196	\$ 1,147	\$ 620	4.80
SCHEDULING INCENTIVE	0.54	-	-	-	-	\$ 75	\$ 41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total		284,761	39.35	153,771	21.25	\$ 30,625	\$ 16,538	\$ -	\$ -			\$ 100,177	\$ 54,096	\$ 10,018	\$ 5,410	
Societal Test		Gross	Net													
Avoided Cost	\$	100,177	\$	54,096												
Non Energy Benefits	\$	-	\$	-												
Externalities	\$	10,018	\$	5,410												
Benefits	\$	110,195	\$	59,505												
Incremental Investment	\$	30,625	\$	16,538												
Administrative Cost	\$	17,783	\$	17,783												
Net Benefits	\$	61,786	\$	25,184												
Societal Test		2.28		1.73												

All factors based on program wide Net-to-Gross from TetraTech final reports

Residential Low Income

Total Administrative Costs	\$	9,854																	
			Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities				
Measure	NTG Ratio	kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net		(NPV - SOC.)	(NPV - SOC.)	Gross	Net	Gross	Net	B/C Ratio		
LOW INCOME WEATHERIZATION	1.00	10,530	5.14	10,530	5.14	\$ 22,336	\$ 22,336	\$ -	\$ -	\$ 0.53757	\$ 1,295.12	\$ 12,318	\$ 12,318	\$ 1,232	\$ 1,232	0.61			
Total		10,530	5.14	10,530	5.14	\$ 22,336	\$ 22,336	\$ -	\$ -				\$ 12,318	\$ 12,318	\$ 1,232	\$ 1,232			
Societal Test	Gross	Net																	
Avoided Cost	\$ 12,318	\$ 12,318																	
Non Energy Benefits	\$ -	\$ -																	
Externalities	\$ 1,232	\$ 1,232																	
Benefits	\$ 13,549	\$ 13,549																	
Incremental Investment	\$ 22,336	\$ 22,336																	
Administrative Cost	\$ 9,854	\$ 9,854																	
Net Benefits	\$ (18,641)	\$ (18,641)																	
Societal Test	0.42	0.42																	

All factors based on program wide Net-to-Gross from TetraTech final reports

## Nonresidential Equipment

Total Administrative Costs		\$ 126,429												Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)				
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits				(NPV - SOC.)	(NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio	
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross		Net	Gross			Net	Gross	Net			
CENTRAL AIR CONDITIONER	0.75	2,652	1.96	1,989	1.47	\$ 1,734	\$ 1,301	\$ -	\$ -	\$ -	\$ 0.69141	\$ 1,295.12	\$ 4,373	\$ 3,280	\$ 437	\$ 328	2.77		
LED EXTERIOR FIXTURES - BUILDING EXTERIOR	0.75	93,686	-	70,264	-	\$ 110,794	\$ 83,096	\$ -	\$ -	\$ -	\$ 0.35822	\$ -	\$ 33,560	\$ 25,170	\$ 3,356	\$ 2,517	0.33		
LED TROFFER	0.75	258,105	71.07	193,579	53.30	\$ 138,428	\$ 103,821	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 153,744	\$ 115,308	\$ 15,374	\$ 11,531	1.22		
LED LINEAR LAMPS	0.75	341,322	73.50	255,992	55.13	\$ 73,687	\$ 55,265	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 185,653	\$ 139,240	\$ 18,565	\$ 13,924	2.77		
LED EXTERIOR FIXTURES - LED OUTDOOR AREA LIGHTING	0.75	276,137	-	207,103	-	\$ 213,374	\$ 160,031	\$ -	\$ -	\$ -	\$ 0.35822	\$ -	\$ 98,917	\$ 74,188	\$ 9,892	\$ 7,419	0.51		
LED HIGH-BAY FIXTURE	0.75	1,081,533	186.02	811,150	139.52	\$ 254,995	\$ 191,246	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 547,841	\$ 410,880	\$ 54,784	\$ 41,088	2.36		
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPONENTS	0.75	5,654	2.65	4,240	1.99	\$ 4,498	\$ 3,374	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 4,310	\$ 3,233	\$ 431	\$ 323	1.05		
LED TROFFER RETROFIT KIT	0.75	351,701	30.65	263,776	22.98	\$ 65,594	\$ 49,196	\$ -	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 152,414	\$ 114,310	\$ 15,241	\$ 11,431	2.56		
SUPPLEMENTAL PAYMENT	1.00	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-		
Total		2,410,790	365.85	1,808,092	274.39	\$ 863,104	\$ 647,328	\$ -	\$ -	\$ -			\$ 1,180,813	\$ 885,609	\$ 118,081	\$ 88,561			
Societal Test		Gross	Net																
Avoided Cost	\$	1,180,813	\$	885,609															
Non Energy Benefits	\$	-	\$	-															
Externalities	\$	118,081	\$	88,561															
Benefits	\$	1,298,894	\$	974,170															
Incremental Investment	\$	863,104	\$	647,328															
Administrative Cost	\$	126,429	\$	126,429															
Net Benefits	\$	309,361	\$	200,413															
Societal Test		1.31		1.26															

All factors based on program wide Net-to-Gross from TetraTech final reports

Nonresidential Energy Solutions

Total Administrative Costs	\$	143,764															
			Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh)	Unit Avoided Capacity Cost (\$/kW)	SOC Avoided Cost		Externalities		
Measure	NTG Ratio	kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net	(NPV - SOC)	(NPV - SOC)	Gross	Net	Gross	Net	B/C Ratio	
CUSTOM - HVAC	0.83	28,314	6.30	23,501	5.23	\$ 2,366	\$ 1,964	\$ -	\$ -	\$ 0.52929	\$ 1,295.12	\$ 23,146	\$ 19,211	\$ 2,315	\$ 1,921	10.76	
CUSTOM - LIGHTING	0.83	1,071,433	156.50	889,289	129.90	\$ 148,037	\$ 122,871	\$ -	\$ -	\$ 0.58121	\$ 1,295.12	\$ 825,411	\$ 685,091	\$ 82,541	\$ 68,509	6.13	
LED HIGH-BAY FIXTURE	0.83	6,959	2.49	5,776	2.07	\$ 5,400	\$ 4,482	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 4,639	\$ 3,850	\$ 464	\$ 385	0.94	
LED LINEAR LAMPS	0.83	1,578	0.42	1,310	0.35	\$ 750	\$ 623	\$ -	\$ -	\$ 0.35822	\$ 862.35	\$ 925	\$ 768	\$ 92	\$ 77	1.36	
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANCE	1.00	-	-	-	-	\$ 83,904	\$ 83,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
BONUS PAYMENT	1.00	-	-	-	-	\$ 248	\$ 248	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
Total		1,108,284	165.71	919,876	137.54	\$ 240,705	\$ 214,091	\$ -	\$ -			\$ 854,120	\$ 708,920	\$ 85,412	\$ 70,892		
Societal Test		Gross	Net														
Avoided Cost	\$	854,120	\$ 708,920														
Non Energy Benefits	\$	-	\$ -														
Externalities	\$	85,412	\$ 70,892														
Benefits	\$	939,533	\$ 779,812														
Incremental Investment	\$	240,705	\$ 214,091														
Administrative Cost	\$	143,764	\$ 143,764														
Net Benefits	\$	555,064	\$ 421,957														
Societal Test		2.44	2.18														

All factors based on program wide Net-to-Gross from TetraTech final reports



Commercial New Construction

Total Administrative Costs	\$	46,987														
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/kWh) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/kW) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		kWh	Peak kW	kWh	Peak kW	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
DESIGN ASSISTANCE	1.00	-	-	-	-	\$ 51,926	\$ 51,926	\$ -	\$ -	\$ 1.01677	\$ -	\$ -	\$ -	\$ -	\$ -	-
INSTALLATION PAYMENT - DUAL FUEL	0.70	89,770	20.00	62,839	14.00	\$ 11,185	\$ 7,830	\$ -	\$ -	\$ 1.01677	\$ 2,163.82	\$ 134,552	\$ 94,186	\$ 13,455	\$ 9,419	13.23
DESIGN TEAM	1.00	-	-	-	-	\$ 4,500	\$ 4,500	\$ -	\$ -	\$ 1.01677	\$ -	\$ -	\$ -	\$ -	\$ -	-
INSTALLATION PAYMENT - ELECTRIC ONLY	0.70	1,050,306	238.00	735,214	166.60	\$ 111,765	\$ 78,236	\$ -	\$ -	\$ 1.01677	\$ 2,163.82	\$ 1,582,908	\$ 1,108,036	\$ 158,291	\$ 110,804	15.58
Total		1,140,076	258.00	798,053	180.60	\$ 179,376	\$ 142,491	\$ -	\$ -			\$ 1,717,460	\$ 1,202,222	\$ 171,746	\$ 120,222	
<b>Societal Test</b>																
Avoided Cost	\$	1,717,460	\$	1,202,222												
Non Energy Benefits	\$	-	\$	-												
Externalities	\$	171,746	\$	120,222												
Benefits	\$	1,889,206	\$	1,322,444												
Incremental Investment	\$	179,376	\$	142,491												
Administrative Cost	\$	46,987	\$	46,987												
Net Benefits	\$	1,662,844	\$	1,132,967												
Societal Test		8.35		6.98												

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Equipment

Total Administrative Costs		\$		60,821																			
												Unit		Unit									
												Avoided		Avoided									
												Energy Cost		Capacity Cost									
												(\$/Therm)		(\$/pk therm)									
						</																	

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Assessment

Total Administrative Costs		\$ 9,449																							
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm)	Unit Avoided Capacity Cost (\$/pk therm)	SOC Avoided Cost		Externalities		B/C Ratio							
		Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net			Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net	Ex-ante Gross	Ex-post Net	Ex-ante Gross	Ex-post Net		
ENERGY EFFICIENCY KIT (DUAL FUEL)	1.00	1.00	1.00	17,747	45.26	17,747	45.26	\$ 25,423	\$ 25,423	\$ 112,408	\$ 112,408	\$ 3,46465	\$ 84.36	\$ 65,304	\$ 65,304	\$ 4,898	\$ 4,898	7.18	7.18						
ENERGY EFFICIENCY KIT	1.00	1.00	1.00	226	0.61	226	0.61	\$ 355	\$ 355	\$ 5,417	\$ 5,417	\$ 3,46465	\$ 84.36	\$ 836	\$ 836	\$ 63	\$ 63	17.81	17.81						
KIT RESHIPMENT FEE	1.00	1.00	1.00	-	-	-	-	\$ 26	\$ 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-						
ONLINE ASSESSMENT	1.00	1.00	1.00	-	-	-	-	\$ 2,496	\$ 2,496	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-						
Total				17,973	45.87	17,973	45.87	\$ 28,299	\$ 28,299	\$ 117,825	\$ 117,825			\$ 66,140	\$ 66,140	\$ 4,961	\$ 4,961								
Societal Test		Ex-ante Gross	Ex-post Net																						
Avoided Cost		\$ 66,140	\$ 66,140																						
Non Energy Benefits		\$ 117,825	\$ 117,825																						
Externalities		\$ 4,961	\$ 4,961																						
Benefits		\$ 188,925	\$ 188,925																						
Incremental Investment		\$ 28,299	\$ 28,299																						
Administrative Cost		\$ 9,449	\$ 9,449																						
Net Benefits		\$ 151,177	\$ 151,177																						
Societal Test		5.00	5.00																						

All factors based on program wide Net-to-Gross from TetraTech final reports

# Residential Behavioral

Total Administrative Costs	\$	31,557																	
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm)	Unit Avoided Capacity Cost (\$/pk therm)	SOC Avoided Cost		Externalities		B/C Ratio	
		Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net
HOME ENERGY REPORTS	1.00	1.15	1.00	187,859	2,442.74	216,038	2,442.74	\$ 54,450	\$ 54,450	\$ -	\$ -	\$ 0.36188	\$ 9.69	\$ 91,651	\$ 101,848	\$ 6,874	\$ 7,639	1.81	2.01
Total				187,859	2,442.74	216,038	2,442.74	\$ 54,450	\$ 54,450	\$ -	\$ -			\$ 91,651	\$ 101,848	\$ 6,874	\$ 7,639		
Societal Test	Ex-ante Gross	Ex-post Net																	
Avoided Cost	\$ 91,651	\$ 101,848																	
Non Energy Benefits	\$ -	\$ -																	
Externalities	\$ 6,874	\$ 7,639																	
Benefits	\$ 98,525	\$ 109,487																	
Incremental Investment	\$ 54,450	\$ 54,450																	
Administrative Cost	\$ 31,557	\$ 31,557																	
Net Benefits	\$ 12,518	\$ 23,481																	
Societal Test	1.15	1.27																	

All factors based on program wide Net-to-Gross from TetraTech final reports

Residential Low Income

Total Administrative Costs		\$		10,586																											
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio													
		Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net			Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net												
LOW INCOME WEATHERIZATION		1.00	1.00			3,425	56.44	3,425	56.44	\$	26,759	\$	26,759	\$	-	\$	-	\$	6.57895	\$	137.17	\$	30,275	\$	30,275	\$	2,271	\$	2,271	1.22	1.22
Total						3,425	56.44	3,425	56.44	\$	26,759	\$	26,759	\$	-	\$	-					\$	30,275	\$	30,275	\$	2,271	\$	2,271		
Societal Test		Ex-ante Gross		Ex-post Net																											
Avoided Cost		\$ 30,275		\$ 30,275																											
Non Energy Benefits		\$ -		\$ -																											
Externalities		\$ 2,271		\$ 2,271																											
Benefits		\$ 32,546		\$ 32,546																											
Incremental Investment		\$ 26,759		\$ 26,759																											
Administrative Cost		\$ 10,586		\$ 10,586																											
Net Benefits		\$ (4,800)		\$ (4,800)																											
Societal Test		0.87		0.87																											

All factors based on program wide Net-to-Gross from TetraTech final reports

Nonresidential Equipment

Total Administrative Costs		\$ 24,426																			
Measure	NTG Ratio	Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm)	Unit Avoided Capacity Cost (\$/pk therm)	SOC Avoided Cost		Externalities		B/C Ratio			
		Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net	Ex-ante Gross	Ex-post Net
FURNACE	0.75	1.00	1.00	2,091	29.75	1,568	22.31	\$ 15,444	\$ 11,583	\$ -	\$ -	\$ 6.53542	\$ 137.17	\$ 17,748	\$ 13,311	\$ 1,331	\$ 998	1.24	1.24		
BOILER	0.75	1.00	1.00	2,235	27.16	1,676	20.37	\$ 9,663	\$ 7,247	\$ -	\$ -	\$ 11.68074	\$ 219.52	\$ 32,068	\$ 24,051	\$ 2,405	\$ 1,804	3.57	3.57		
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPONENT!	0.75	1.00	1.00	(78)	(0.40)	(58)	(0.30)	\$ -	\$ -	\$ -	\$ -	\$ 4.10445	\$ 93.34	\$ (356)	\$ (267)	\$ (27)	\$ (20)	-	-		
LED HIGH-BAY FIXTURE	0.75	1.00	1.00	(994)	(5.04)	(745)	(3.78)	\$ -	\$ -	\$ -	\$ -	\$ 4.10445	\$ 93.34	\$ (4,549)	\$ (3,412)	\$ (341)	\$ (256)	-	-		
LED LINEAR LAMPS	0.75	1.00	1.00	(732)	(3.71)	(549)	(2.78)	\$ -	\$ -	\$ -	\$ -	\$ 4.10445	\$ 93.34	\$ (3,349)	\$ (2,512)	\$ (251)	\$ (188)	-	-		
LED TROFFER	0.75	1.00	1.00	(1,498)	(7.60)	(1,123)	(5.70)	\$ -	\$ -	\$ -	\$ -	\$ 4.10445	\$ 93.34	\$ (6,858)	\$ (5,143)	\$ (514)	\$ (386)	-	-		
Total				1,025	40.16	769	30.13	\$ 25,107	\$ 18,830	\$ -	\$ -			\$ 34,703	\$ 26,028	\$ 2,603	\$ 1,952				
Societal Test		Ex-ante Gross	Ex-post Net																		
Avoided Cost		\$ 34,703	\$ 26,028																		
Non Energy Benefits		\$ -	\$ -																		
Externalities		\$ 2,603	\$ 1,952																		
Benefits		\$ 37,305	\$ 27,980																		
Incremental Investment		\$ 25,107	\$ 18,830																		
Administrative Cost		\$ 24,426	\$ 24,426																		
Net Benefits		\$ (12,227)	\$ (15,276)																		
Societal Test		0.75	0.65																		

All factors based on program wide Net-to-Gross from TetraTech final reports

## Nonresidential Energy Solutions

Total Administrative Costs		\$		67,003																			
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net	Unit Avoided Energy Cost (\$/Therm) (NPV - SOC)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net				
CUSTOM - HVAC	0.83	1.00	1.00	62,038	412.90	51,492	342.71	\$ 21,566	\$ 17,900	\$ -	\$ -	\$ 8.98029	\$ 179.21	\$ 631,114	\$ 523,825	\$ 47,334	\$ 39,287	31.46	31.46				
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANCE	1.00	1.00	1.00	-	-	-	-	\$ 108,119	\$ 108,119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-				
Total				62,038	412.90	51,492	342.71	\$ 129,685	\$ 126,018	\$ -	\$ -			\$ 631,114	\$ 523,825	\$ 47,334	\$ 39,287						
Societal Test	Ex-ante Gross	Ex-post Net																					
Avoided Cost	\$ 631,114	\$ 523,825																					
Non Energy Benefits	\$ -	\$ -																					
Externalities	\$ 47,334	\$ 39,287																					
Benefits	\$ 678,448	\$ 563,112																					
Incremental Investment	\$ 129,685	\$ 126,018																					
Administrative Cost	\$ 67,003	\$ 67,003																					
Net Benefits	\$ 481,760	\$ 370,090																					
Societal Test	3.45	2.92																					

All factors based on program wide Net-to-Gross from TetraTech final reports

Commercial New Construction

Total Administrative Costs		\$ 11,523																			
		Realization Rate		Ex-ante Gross Savings		Ex-post Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm)	Unit Avoided Capacity Cost (\$/pk therm)	SOC Avoided Cost		Externalities		B/C Ratio			
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Therm	Peak therm	Gross	Net	Ex-ante Gross	Ex-post Net	(NPV - SOC)	(NPV - SOC)	Ex-ante Gross	Ex-post Net	Gross	Net	Ex-ante Gross	Ex-post Net		
DESIGN ASSISTANCE	1.00	1.00	1.00	-	-	-	-	\$ 9,163	\$ 9,163	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ -	\$ -	\$ -	\$ -	-	-		
DESIGN TEAM	1.00	1.00	1.00	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ -	\$ -	\$ -	\$ -	-	-		
INSTALLATION PAYMENT - DUAL FUEL	0.70	1.00	1.00	17,611	229.00	12,328	160.30	\$ 24,935	\$ 17,455	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ 253,349	\$ 177,345	\$ 19,001	\$ 13,301	10.92	10.92		
INSTALLATION PAYMENT - GAS ONLY	0.70	1.00	1.00	19,130	248.00	13,391	173.60	\$ 12,647	\$ 8,853	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ 275,036	\$ 192,526	\$ 20,628	\$ 14,439	23.38	23.38		
Total				36,741	477.00	25,719	333.90	\$ 46,745	\$ 35,471	\$ -	\$ -			\$ 528,386	\$ 369,870	\$ 39,629	\$ 27,740				
Societal Test		Ex-ante Gross	Ex-post Net																		
Avoided Cost		\$ 528,386	\$ 369,870																		
Non Energy Benefits		\$ -	\$ -																		
Externalities		\$ 39,629	\$ 27,740																		
Benefits		\$ 568,015	\$ 397,610																		
Incremental Investment		\$ 46,745	\$ 35,471																		
Administrative Cost		\$ 11,523	\$ 11,523																		
Net Benefits		\$ 509,746	\$ 350,616																		
Societal Test		9.75	8.46																		

All factors based on program wide Net-to-Gross from TetraTech final reports



## Residential Equipment

Total Administrative Costs	\$	60,821															
			Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities		
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net				Gross	Net	Gross	Net	B/C Ratio
FURNACE	0.60	65,142	1,076.48	39,085	645.89	\$ 665,057	\$ 399,034	\$ -	\$ -	\$ 9.16226	\$ 179.21	\$ 789,762	\$ 473,857	\$ 59,232	\$ 35,539	1.28	
SUPPLEMENTAL PAYMENT	1.00	-	-	-	-	\$ 26	\$ 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
SMART ADVANCED THERMOSTAT	0.60	5,792	95.64	3,475	57.38	\$ 12,494	\$ 7,496	\$ -	\$ -	\$ 1.94091	\$ 47.65	\$ 15,798	\$ 9,479	\$ 1,185	\$ 711	1.36	
Total		70,934	1,172.12	42,560	703.27	\$ 677,576	\$ 406,556	\$ -	\$ -			\$ 805,560	\$ 483,336	\$ 60,417	\$ 36,250		
Societal Test		Gross	Net														
Avoided Cost	\$	805,560	\$ 483,336														
Non Energy Benefits	\$	-	\$ -														
Externalities	\$	60,417	\$ 36,250														
Benefits	\$	865,977	\$ 519,586														
Incremental Investment	\$	677,576	\$ 406,556														
Administrative Cost	\$	60,821	\$ 60,821														
Net Benefits	\$	127,580	\$ 52,210														
Societal Test		1.17	1.11														

All factors based on program wide Net-to-Gross from TetraTech final reports

## Residential Assessment

Total Administrative Costs	\$	9,449														
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
ENERGY EFFICIENCY KIT (DUAL FUEL)	1.00	17,747	45.26	17,747	45.26	\$ 25,423	\$ 25,423	\$ 112,408	\$ 112,408	\$ 3,46465	\$ 84.36	\$ 65,304	\$ 65,304	\$ 4,898	\$ 4,898	7.18
ENERGY EFFICIENCY KIT	1.00	226	0.61	226	0.61	\$ 355	\$ 355	\$ 5,417	\$ 5,417	\$ 3,46465	\$ 84.36	\$ 836	\$ 836	\$ 63	\$ 63	17.81
KIT RESHIPMENT FEE	1.00	-	-	-	-	\$ 26	\$ 26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
ONLINE ASSESSMENT	1.00	-	-	-	-	\$ 2,496	\$ 2,496	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total		17,973	45.87	17,973	45.87	\$ 28,299	\$ 28,299	\$ 117,825	\$ 117,825			\$ 66,140	\$ 66,140	\$ 4,961	\$ 4,961	
<b>Societal Test</b>																
		Gross	Net													
Avoided Cost	\$	66,140	\$ 66,140													
Non Energy Benefits	\$	117,825	\$ 117,825													
Externalities	\$	4,961	\$ 4,961													
Benefits	\$	188,925	\$ 188,925													
Incremental Investment	\$	28,299	\$ 28,299													
Administrative Cost	\$	9,449	\$ 9,449													
Net Benefits	\$	151,177	\$ 151,177													
Societal Test		5.00	5.00													

All factors based on program wide Net-to-Gross from TetraTech final reports

Residential Behavioral

Total Administrative Costs	\$	31,557														
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net			Gross	Net	Gross	Net	
HOME ENERGY REPORTS	1.00	187,859	2,442.74	187,859	2,442.74	\$ 54,450	\$ 54,450	\$ -	\$ -	\$ 0.36188	\$ 9.69	\$ 91,651	\$ 91,651	\$ 6,874	\$ 6,874	1.81
Total		187,859	2,442.74	187,859	2,442.74	\$ 54,450	\$ 54,450	\$ -	\$ -			\$ 91,651	\$ 91,651	\$ 6,874	\$ 6,874	
Societal Test		Gross	Net													
Avoided Cost	\$	91,651	\$ 91,651													
Non Energy Benefits	\$	-	\$ -													
Externalities	\$	6,874	\$ 6,874													
Benefits	\$	98,525	\$ 98,525													
Incremental Investment	\$	54,450	\$ 54,450													
Administrative Cost	\$	31,557	\$ 31,557													
Net Benefits	\$	12,518	\$ 12,518													
Societal Test		1.15	1.15													

All factors based on program wide Net-to-Gross from TetraTech final reports

Residential Low Income

Total Administrative Costs	\$	10,586																	
			Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities				
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net				Gross	Net	Gross	Net	B/C Ratio		
LOW INCOME WEATHERIZATION	1.00	3,425	56.44	3,425	56.44	\$ 26,759	\$ 26,759	\$ -	\$ -	\$ 6.57895	\$ 137.17	\$ 30,275	\$ 30,275	\$ 2,271	\$ 2,271	1.22			
Total		3,425	56.44	3,425	56.44	\$ 26,759	\$ 26,759	\$ -	\$ -			\$ 30,275	\$ 30,275	\$ 2,271	\$ 2,271				
Societal Test	Gross	Net																	
Avoided Cost	\$ 30,275	\$ 30,275																	
Non Energy Benefits	\$ -	\$ -																	
Externalities	\$ 2,271	\$ 2,271																	
Benefits	\$ 32,546	\$ 32,546																	
Incremental Investment	\$ 26,759	\$ 26,759																	
Administrative Cost	\$ 10,586	\$ 10,586																	
Net Benefits	\$ (4,800)	\$ (4,800)																	
Societal Test	0.87	0.87																	

All factors based on program wide Net-to-Gross from TetraTech final reports

## Nonresidential Equipment

Total Administrative Costs		\$		24,426												Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)		Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)		SOC Avoided Cost		Externalities				
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	B/C Ratio						
FURNACE	0.75	2,091	29.75	1,568	22.31	\$	15,444	\$	11,583	\$	-	\$	-	\$	6.53542	\$	137.17	\$	17,748	\$	13,311	\$	1,331	\$	998	1.24
BOILER	0.75	2,235	27.16	1,676	20.37	\$	9,663	\$	7,247	\$	-	\$	-	\$	11.68074	\$	219.52	\$	32,068	\$	24,051	\$	2,405	\$	1,804	3.57
LED HANGING LINEAR FIXTURE WITH INDIRECT COMPONENT!	0.75	(78)	(0.40)	(58)	(0.30)	\$	-	\$	-	\$	-	\$	-	\$	4.10445	\$	93.34	\$	(356)	\$	(267)	\$	(27)	\$	(20)	-
LED HIGH-BAY FIXTURE	0.75	(994)	(5.04)	(745)	(3.78)	\$	-	\$	-	\$	-	\$	-	\$	4.10445	\$	93.34	\$	(4,549)	\$	(3,412)	\$	(341)	\$	(256)	-
LED LINEAR LAMPS	0.75	(732)	(3.71)	(549)	(2.79)	\$	-	\$	-	\$	-	\$	-	\$	4.10445	\$	93.34	\$	(3,349)	\$	(2,512)	\$	(251)	\$	(188)	-
LED TROFFER	0.75	(1,498)	(7.60)	(1,123)	(5.70)	\$	-	\$	-	\$	-	\$	-	\$	4.10445	\$	93.34	\$	(6,858)	\$	(5,143)	\$	(514)	\$	(386)	-
Total		1,025	40.16	769	30.12	\$	25,107	\$	18,830	\$	-	\$	-			\$	34,703	\$	26,027	\$	2,603	\$	1,952			
Societal Test		Gross		Net																						
Avoided Cost		\$	34,703	\$	26,027																					
Non Energy Benefits		\$	-	\$	-																					
Externalities		\$	2,603	\$	1,952																					
Benefits		\$	37,305	\$	27,979																					
Incremental Investment		\$	25,107	\$	18,830																					
Administrative Cost		\$	24,426	\$	24,426																					
Net Benefits		\$	(12,227)	\$	(15,277)																					
Societal Test			0.75		0.65																					

All factors based on program wide Net-to-Gross from TetraTech final reports

Nonresidential Energy Solutions

Total Administrative Costs	\$	67,003															
			Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits		Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)	SOC Avoided Cost		Externalities		
Measure	NTG Ratio	Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross	Net	Net			Gross	Net	Gross	Net	B/C Ratio
CUSTOM - HVAC	0.83	62,038	412.90	51,492	342.71	\$ 21,566	\$ 17,900	\$ -	\$ -	\$ -	\$ 8.98029	\$ 179.21	\$ 631,114	\$ 523,825	\$ 47,334	\$ 39,287	31.46
ENGINEERING & ENERGY MANAGER PROJECT ASSISTANCE	1.00	-	-	-	-	\$ 108,119	\$ 108,119	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-	-
Total		62,038	412.90	51,492	342.71	\$ 129,685	\$ 126,018	\$ -	\$ -	\$ -			\$ 631,114	\$ 523,825	\$ 47,334	\$ 39,287	
Societal Test	Gross	Net															
Avoided Cost	\$ 631,114	\$ 523,825															
Non Energy Benefits	\$ -	\$ -															
Externalities	\$ 47,334	\$ 39,287															
Benefits	\$ 678,448	\$ 563,112															
Incremental Investment	\$ 129,685	\$ 126,018															
Administrative Cost	\$ 67,003	\$ 67,003															
Net Benefits	\$ 481,760	\$ 370,090															
Societal Test	3.45	2.92															

All factors based on program wide Net-to-Gross from TetraTech final reports

Commercial New Construction

Total Administrative Costs	\$	11,523											Unit Avoided Energy Cost (\$/Therm) (NPV - SOC.)	Unit Avoided Capacity Cost (\$/pk therm) (NPV - SOC.)				
Measure	NTG Ratio	Gross Savings		Net Savings		Investment		Lifetime Non-Energy Benefits				SOC Avoided Cost (NPV - SOC.)	SOC Avoided Cost (NPV - SOC.)	SOC Avoided Cost		Externalities		B/C Ratio
		Therm	Peak therm	Therm	Peak therm	Gross	Net	Gross		Net	Gross			Net	Gross	Net	Gross	
DESIGN ASSISTANCE	1.00	-	-	-	-	\$ 9,163	\$ 9,163	\$ -	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ -	\$ -	\$ -	\$ -	-	
DESIGN TEAM	1.00	-	-	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ -	\$ -	\$ -	\$ -	-	
INSTALLATION PAYMENT - DUAL FUEL	0.70	17,611	229.00	12,328	160.30	\$ 24,935	\$ 17,455	\$ -	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ 253,349	\$ 177,345	\$ 19,001	\$ 13,301	10.92	
INSTALLATION PAYMENT - GAS ONLY	0.70	19,130	248.00	13,391	173.60	\$ 12,647	\$ 8,853	\$ -	\$ -	\$ -	\$ 11.53133	\$ 219.52	\$ 275,036	\$ 192,526	\$ 20,628	\$ 14,439	23.38	
Total			36,741	477.00	25,719	333.90	\$ 46,745	\$ 35,471	\$ -	\$ -			\$ 528,386	\$ 369,870	\$ 39,629	\$ 27,740		
Societal Test																		
	Gross	Net																
Avoided Cost	\$ 528,386	\$ 369,870																
Non Energy Benefits	\$ -	\$ -																
Externalities	\$ 39,629	\$ 27,740																
Benefits	\$ 568,015	\$ 397,610																
Incremental Investment	\$ 46,745	\$ 35,471																
Administrative Cost	\$ 11,523	\$ 11,523																
Net Benefits	\$ 509,746	\$ 350,616																
Societal Test	9.75	8.46																

All factors based on program wide Net-to-Gross from TetraTech final reports

**Illinois 2021 Energy Efficiency Program Updates**  
Effective Jan. 1, 2021

Program	Project/Equipment	Qualification Update/Change	Rebate Amount	Description of update and/or decision factors for update
<b>Residential Programs:</b>				
Appliance Recycling	Freezer/refrigerators	Eliminated enhanced rebate for freezer/refrigerator recycling when online scheduling tool used	\$50/unit	Customers easily made transition to using the online scheduling tool, additional incentive to encourage customers to use online scheduling is discontinued
Residential Equipment	All electric and natural gas prescriptive rebates, except what is indicated below	Eliminated enhanced rebates put into place on July 1, 2020	See residential reference sheet for details on rebates available Jan. 1, 2021	Rebates increased by 50% due to COVID-19 and lower than anticipation program participation ended on December 31, 2020
Residential Equipment	Air-source heat pump	Increased rebates for SEER 15 and SEER 16 equipment increased	SEER 15 \$225/unit SEER 16-17.9 \$400/unit	Adjusted rebates to market conditions
<b>Nonresidential Programs:</b>				
Nonresidential Equipment	All electric and natural gas prescriptive rebates, except what is indicated below	Eliminated enhanced rebates put into place on July 1, 2020	See nonresidential reference sheet for details on rebates available Jan. 1, 2021	Rebates increased by 50% due to COVID-19 and lower than anticipation program participation ended on December 31, 2020
Nonresidential Equipment	Central air conditioners	Added rebates for units ≥65 and <240 MBtuh *Units ≥65 and <135 MBtuh, minimum IEER 14.6 *Units >135 and <240 MBtuh, minimum IEER 14.0	\$40/ton	Adjusted rebates to market conditions
Nonresidential Equipment	Air-source heat pumps	Added rebates available for air-cooled units <65 MBtuh installed in nonresidential facilities - eligibility requirements same as residential equipment	SEER 15-15.9 \$225/unit SEER 16-17.9 \$400/unit	Adjusted rebates to market conditions
Nonresidential Energy Solutions	Custom projects	Adjusted simple payback from 18 months to two years, increased eligible project cost from 50% to 70% and increased incentive amount per kWh/therm saved by 50%	Electric improvements: HVAC - \$0.18/kWh saved Lighting - \$0.15/kWh saved Process/other - \$0.12/kWh saved  Gas improvements - \$1.50/therm	Changes made to replenish project pipelines and encourage customer participation
Nonresidential Energy Solutions	Small Business Express	Increased rebates by 100% when customers commit to completing two or more upgrades - rebate not to exceed 70% of equipment cost	See Small Business Express Reference Sheet for details on rebates available Jan 1, 2021	Changes made to replenish project pipelines and encourage customer participation

In 2021, at the customer's discretion, MidAmerican's implementation contractors and qualified service providers will complete assessments, non-emergency service/installation work and verification work in homes and businesses. MidAmerican and its contractors will continue to follow guidelines established to help both MidAmerican contractors and customers stay safe and healthy, including the use of proper PPE such as facemask and gloves and social distancing when required.



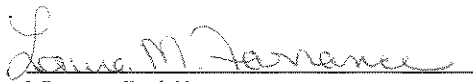
**VERIFICATION**

STATE OF IOWA                    )  
  ) SS  
COUNTY OF SCOTT            )

I, Erin Rasmussen, being first duly sworn on oath, hereby state that I am Director, Energy Efficiency for MidAmerican Energy Company and verify that the 2021 Annual Energy Efficiency Reconciliation Report along with associated documents comprise MidAmerican Energy Company's Incremental Costs included in the annual energy efficiency reconciliation statement for the year 2021 and represent the reasonable and prudent costs collected under the Energy Efficiency Cost Recovery rider and the Company's Energy Efficiency Program costs for 2021.

  
\_\_\_\_\_  
Erin Rasmussen

Subscribed and sworn to before me  
this 18<sup>th</sup> day of March, 2022.

  
\_\_\_\_\_  
Notary Public



STATE OF ILLINOIS  
ILLINOIS COMMERCE COMMISSION

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IN RE:	:	
	:	
MIDAMERICAN ENERGY COMPANY	:	Docket No. 19-0734

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NOTICE OF FILING

PLEASE TAKE NOTICE that on this date MidAmerican Energy Company filed by “e-Docket” with the Illinois Commerce Commission, 527 East Capitol Avenue, Springfield, Illinois 62701, the Annual Energy Efficiency Reconciliation Report in the above-referenced proceeding, a copy of which is hereby served upon you.

DATED this 18<sup>th</sup> day of March, 2022.

Respectfully submitted,

MIDAMERICAN ENERGY COMPANY

By /s/Arick R. Sears  
Arick R. Sears  
Senior Regulatory Attorney  
MidAmerican Energy Company  
666 Grand Avenue, Suite 500  
P.O. Box 657  
Des Moines, Iowa 50306-0657  
Telephone: 515-252-2782  
Facsimile: 515-242-4398  
Arick.Sears@midamerican.com

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that copies of the foregoing Notice, together with the documents referred to therein, were served upon the parties on the Service List, by electronic mail on this 18<sup>th</sup> day of March, 2022.

/s/ Arick R. Sears  
Arick R. Sears