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March 1, 2025

Adam Teitzman  
Director, Office of Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd  
Tallahassee, Florida 32399-0688

Subject: 2025 Orlando Utilities Commission Annual Conservation Report

Dear Mr. Teitzman

Attached please find an electronic version (in PDF format) of the 2025 Orlando Utilities Commission (OUC) Annual Conservation Report. The 2025 OUC Annual Conservation Report was prepared by nFront Consulting LLC (nFront) and is being submitted by nFront on behalf of OUC.

If you have any questions about this report, please do not hesitate to contact me.

Respectfully submitted,

/s/ 

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*The Reliable One*®

## Orlando Utilities Commission

### 2025 Annual Conservation Report

Demand-Side Management and Conservation Programs Offered in Calendar Year 2024

Prepared by:

**nFront Consulting LLC**

March 2025



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## **1.0 INTRODUCTION**

In accordance with Rule 25-17.0021, Florida Administrative Code, the Florida Public Service Commission (FPSC) must establish numeric conservation goals for the Orlando Utilities Commission (OUC) at least once every five years. In addition, OUC must file an annual report showing the status of its demand-side management (DSM) programs and numeric conservation goals.

### **1.1 OUC's Current Approved Numeric Conservation Goals**

OUC's residential and commercial/industrial numeric conservation goals for the 2020 through 2024 period were established by the FPSC pursuant to Order No. PSC-2019-0509-FOF-EG. The FPSC's Consummating Order (PSC-2020-0177-CO-EG), issued June 5, 2020, approved OUC's 2020 Demand-Side Management Plan (DSM Plan). The Consummating Order confirmed Order No. PSC-2020-0140-PAA-EG, the FPSC Notice of Proposed Agency Action that recommended approval of OUC's DSM Plan. OUC's DSM Plan sets forth the programs that OUC anticipated offering to achieve the numeric conservation goals established by the FPSC. The approved numeric conservation goals are summarized in Section 2.0 of this report, and OUC's actual DSM reductions are presented in Section 3.0 of this report.

### **1.2 OUC's DSM and Conservation Programs**

OUC has been increasingly emphasizing its DSM and conservation programs to grow customer awareness of such programs. Not only do these programs help customers save money by saving energy, the programs help OUC reduce emissions of carbon dioxide (CO<sub>2</sub>) and better position OUC to meet possible future greenhouse gas regulations. It should be noted that government mandates have forced manufacturers to increase their efficiency standards of appliances, thereby decreasing the incremental amount of cost-effective energy savings achievable, and the efficiency of new generation has increased. Appliance and generating unit efficiency improvements have mitigated to some degree the effectiveness of DSM and conservation programs, as overall efficiency increases in the marketplace partially offset the benefit of such programs.

The following two sections of this report provide more specific details concerning the DSM and conservation programs offered by OUC in calendar year 2024 (Section 2.0), and present the participation levels and associated numeric savings for each of OUC's quantifiable conservation programs which were offered in 2024 (Section 3.0) consistent with OUC's FPSC-approved DSM Plan. Although the annual energy reductions associated with OUC's residential and commercial/industrial energy surveys are not counted towards achieving DSM goals, OUC continues to offer them to residential and commercial/industrial customers; as such, Tables 3-1 through 3-3 do not reflect energy reductions associated with OUC's energy survey programs.

The conservation programs included in the DSM Plan and offered to OUC's customers in 2024 consist of the following:

- Residential Home Energy Survey Program – Walk-Through
- Residential Duct Repair Rebates Program
- Residential Ceiling Insulation Rebates Program
- Residential High Performance Windows Rebates Program
- Residential Efficient Electric Heat Pump Rebates Program

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- Residential New Home Rebates Program
- Residential Heat Pump Water Heater Rebates Program
- Residential Efficiency Delivered Program
- Commercial Energy Audits Program
- Commercial Efficient Electric Heat Pump Rebates Program
- Commercial Duct Repair Rebates Program
- Commercial Ceiling Insulation Rebates Program
- Commercial Cool/Reflective Roof Rebates Program
- Commercial Indoor Lighting Billed Solution Program
- Commercial Indoor Lighting Rebates Program
- Commercial Custom Incentive Program

## **2.0 CONSERVATION GOALS AND DEMAND-SIDE MANAGEMENT PLAN**

### **2.1 Approved Numeric Conservation Goals**

Table 2-1 presents the annual peak demand and energy reduction goals established for OUC by the FPSC.

| <b>Table 2-1<br/>FPSC's Approved Numeric Conservation Goals for OUC</b> |                                    |                    |                            |  |                    |                            |
|---|------------------------------------|--------------------|----------------------------|--|--------------------|----------------------------|
| <b>Year</b>   | <b>Residential Reduction Goals</b> |                    |                            | <b>Commercial/Industrial Reduction Goals</b> |                    |                            |
|   | <b>Summer (MW)</b>                 | <b>Winter (MW)</b> | <b>Annual Energy (GWh)</b> | <b>Summer (MW)</b>                           | <b>Winter (MW)</b> | <b>Annual Energy (GWh)</b> |
| 2020  | 0.21                               | 0.21               | 0.77                       | 0.39   | 0.70               | 0.85                       |
| 2021  | 0.21                               | 0.22               | 0.80                       | 0.40   | 0.78               | 0.86                       |
| 2022  | 0.19                               | 0.20               | 0.72                       | 0.37   | 0.78               | 0.85                       |
| 2023  | 0.19                               | 0.18               | 0.66                       | 0.39   | 0.74               | 0.82                       |
| 2024  | 0.16                               | 0.16               | 0.57                       | 0.36   | 0.70               | 0.80                       |
| <b>Total</b>  | <b>0.96</b>                        | <b>0.97</b>        | <b>3.52</b>                | <b>1.91</b>                                  | <b>3.70</b>        | <b>4.18</b>                |

### **2.2 OUC's DSM and Conservation Programs**

The FPSC has established residential and commercial/industrial conservation goals for OUC for the 2020 through 2024 period (refer to Table 2-1). The programs that OUC offered during calendar year 2024 are described in the following subsections. Program incentives included in the descriptions are current as of the time this report was prepared.

#### **2.2.1 Energy Survey Programs<sup>1</sup>**

##### **2.2.1.1 Residential Home Energy Survey Program**

OUC has been offering home energy surveys dating back to the 1980's. The home energy walk-through surveys were designed to provide residential customers with recommended energy efficiency measures and practices customers can implement and to encourage participation in various OUC rebate programs. The home energy surveys are available to both single family and multi-family residential customers.

<sup>1</sup> As noted in OUC's DSM Plan, discussion of OUC's Residential Home Energy Survey and Commercial Energy Audit programs is included for informational purposes as OUC has continued to offer the programs. Demand and energy reductions associated with these programs are not treated as contributing to the numeric conservation goals established by the FPSC for OUC.

The Residential Energy Walk-Through Survey includes a review of the customer electric consumption history as well as a walk-through review of the attic; heating, ventilation, and air conditioning (HVAC) system; air duct and air returns; window caulking; weather stripping around doors; faucets and toilets; and lawn sprinkler systems. OUC provides participating customers specific tips on conserving electricity and water as well as details on customer rebate programs. OUC Conservation Specialists are using this walk-through type audit as a means of motivating OUC customers to participate in other conservation programs and qualify for appropriate rebates.

One of the primary benefits of the Residential Energy Survey Program is the education it provides to customers on energy conservation measures and ways their lifestyle can directly affect their energy use. Customers participating in the Energy Survey Program are informed about their historical energy usage and conservation measures that they can implement, and receive a report that includes estimates of ranges of costs, savings, and payback periods for recommended measures. If changes are implemented, customers will benefit from the increased efficiency in their homes, and decreased electric and water bills.

The Home Energy Audit rates how efficient a customer's home energy use is and where one can make improvements to lower utility bills. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

#### *2.2.1.2 Commercial Energy Audit Program*

The commercial/industrial Energy Audit Program has been offered for several years and is focused on increasing the energy efficiency of commercial buildings and includes a free survey comprised of a physical walk-through inspection of the commercial facility performed by trained and experienced energy experts. The survey includes a review of historical energy usage, as well as a walkthrough to examine heating and air conditioning systems including duct work, refrigeration equipment, lighting, water heating, motors, process equipment, and the thermal characteristics of the building including insulation. Following the inspection, the customer receives a written report (available in both English and Spanish) detailing cost-effective recommendations to make the facility more energy and water efficient. Participating customers are encouraged to enroll in other OUC commercial programs that result in conservation, which decreases their electric and water bills.

OUC customers can participate by calling the OUC Customer Service Call Center and requesting an appointment for an audit. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

#### *2.2.2 Rebate Programs*

The following outlines the various rebate programs OUC offers to its customers. Customers can participate by submitting a rebate application online at <http://www.OUC.com/rebates> or via email, mail, in-person, or facsimile. Proofs of purchase and/or receipts are required to be attached to the application and repairs can be performed by a contractor or the customer. Participation is tracked based on the number of rebates processed. Typically, these rebates are credited on the customer's bill, or a check can be processed and sent to the property owner who may have paid for the improvement.

##### *2.2.2.1 Residential Duct Repair Rebates Program*

The residential Duct Repair Rebates Program originated in 2000 and is designed to encourage customers to repair leaking ducts on existing systems. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or any other

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Underwriters Laboratory (UL) approved duct tape. Participating customers receive a rebate for 100 percent of the cost of duct repairs on their homes, up to \$100.

### 2.2.2.2 Residential Ceiling Insulation Rebates Program

The attic is the easiest place to add insulation and lower total energy costs throughout the seasons. The residential Ceiling Insulation Rebates program has been offered for several years and is designed to encourage customers to upgrade their attic insulation. Participating customers receive \$0.10 per square foot for upgrading their attic insulation to R-30 or greater. The program applies to conditioned areas only.

### 2.2.2.3 Residential High Performance Windows Rebates Program

Energy-efficient windows can help minimize heating, cooling, and lighting costs. The residential High Performance Windows Rebates program has been offered for several years and is designed to encourage customers to install windows that improve energy efficiency in their homes. Customers will receive a \$1.50 rebate per square foot for the purchase of ENERGY STAR® rated energy efficient windows.

### 2.2.2.4 Residential Efficient Electric Heat Pump Rebates Program

The residential Efficient Electric Heat Pump Rebates program provides rebates to qualifying customers in existing homes who install heat pumps having a Seasonal Energy Efficiency Ratio (SEER) of 16.0 or higher or a Seasonal Energy Efficiency Ratio 2 (SEER2) 15.2 or higher. Customers will obtain a rebate in the form of a credit on their bill ranging up to \$1,150, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following table illustrates the incentives available depending on the size and efficiency of the heat pump installed.

|   | SEER2 Upgraded To: |            |            |            |            |            |            |            |            |
|---|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|   | SEER 2             | 15.2-15.99 | 16.0-16.99 | 17.0-17.99 | 18.0-18.99 | 19.0-19.99 | 20.0-20.99 | 21.0-21.99 | 22.0-22.99 |
|   | SEER               | 16.0-16.99 | 17.0-17.99 | 18.0-18.99 | 19.0-19.99 | 20.0-20.99 | 21.0-21.99 | 22.0-22.99 | 23.0-23.99 |
| AC Size (Tons)  | 1                  | -          | -          | \$55       | \$85       | \$115      | \$140      | \$165      | \$185      |
|   | 1.5                | -          | \$55       | \$110      | \$155      | \$200      | \$240      | \$275      | \$305      |
|   | 2                  | -          | \$90       | \$165      | \$230      | \$285      | \$340      | \$385      | \$425      |
|   | 2.5                | \$45       | \$130      | \$220      | \$300      | \$370      | \$435      | \$495      | \$550      |
|   | 3                  | \$65       | \$165      | \$275      | \$370      | \$455      | \$535      | \$605      | \$670      |
|   | 3.5                | \$90       | \$200      | \$330      | \$440      | \$540      | \$635      | \$715      | \$790      |
|   | 4                  | \$110      | \$235      | \$385      | \$510      | \$625      | \$730      | \$825      | \$910      |
| 5   | \$150              | \$310      | \$490      | \$655      | \$795      | \$925      | \$1,045    | \$1,150    |            |
| Notes:  |                    |            |            |            |            |            |            |            |            |
| 1. SEER 2 is the main rating that determines the rebate value.          |                    |            |            |            |            |            |            |            |            |
| 2. If only SEER is listed on AHRI, use corresponding SEER column above. |                    |            |            |            |            |            |            |            |            |

### 2.2.2.5 Residential New Home Rebates Program

What was previously named the Residential Gold Ring Home Program has been transformed into a more flexible “a la carte” program offering a variety of choices for the builder or home buyer and has been renamed the New Home Rebates program. This transformation was based on feedback OUC received from the residential building community in order to increase the level of participation in OUC’s program. The table below reflects an example of the incentives available.



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| <b>Rebate</b>                       | <b>Rate of Rebate</b> | <b>Square Footage</b> | <b>Total</b> |
|-------------------------------------|-----------------------|-----------------------|--------------|
| Heat Pump                           | Up to \$1,150         | N/A                   | \$1,150      |
| Energy Star® Heat Pump Water Heater | \$500                 | N/A                   | \$500        |
| Solar Water Heater                  | \$900                 | N/A                   | \$900        |

**2.2.2.6 Residential Heat Pump Water Heater Rebates Program**

Commonly referred to as hybrid electric heat pump water heaters, such water heaters with a coefficient of performance (COP) of greater than 2.0 can cut water heating electric use and costs by more than half. OUC’s Heat Pump Water Heater Rebates program provides rebates for the heat pumps for qualifying installations. The contractor and/or retailer’s invoice is required to receive this rebate and must reflect the system model number. If the receipt does not include the model number, a copy of the retailer’s item description of product installed should be submitted that can be matched to the proof of purchase. OUC’s rebate is \$500.

**2.2.2.7 Residential Efficiency Delivered Program**

What was once referred to as the home energy fix-up program was revamped and expanded to allow for any OUC customer (energy, water, or both energy and water) to participate and renamed the Efficiency Delivered program. The program is available to residential customers (single family homes) and provides up to \$2,500 of energy and water efficiency upgrades based on the needs of the customer’s home. A Conservation Specialist from OUC performs a survey at the home and determines which home improvements have the potential of saving the customer the most money. The program is an income based program which is the basis for how much OUC will help contribute toward the cost of improvements and consists of three household income tiers:

| <b>Household Income</b> | <b>OUC Contribution</b>     |
|-------------------------|-----------------------------|
| Less than \$40,000      | 85% (not to exceed \$2,125) |
| \$40,001–\$60,000       | 50% (not to exceed \$1,250) |
| Greater than \$60,000   | Rebates only                |

- \$40,000 or less OUC will contribute 85 percent of the total cost (not to exceed \$2,125),
- \$40,001 to \$60,000 OUC will contribute 50 percent of the total cost (not to exceed \$1,250),
- greater than \$60,000 OUC will contribute the rebate incentives that apply toward the total cost.

Each customer must request and complete a free Residential Home Energy Survey. Ordinarily, Energy Survey recommendations require a customer to spend money replacing or adding energy conservation measures: however, customers may not have the discretionary income to implement these measures, especially those in the lower income tier. Under the Efficiency Delivered program, OUC will arrange for a licensed, approved contractor to perform the necessary repairs based on a negotiated and contracted rate. The remaining portion of the cost the customer is responsible for, can be paid directly to OUC or over an interest-free 24-month period on the participant’s monthly electric bill.

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To be eligible for this program, the customer's account must be in good credit standing with the exception of low-income customers (i.e., customers with household income of up to \$60,000) who are only required to have a current balance that is not delinquent. Some of the improvements covered under the Efficiency Delivered program are included in the table below:

|                               |  |                              |
|-------------------------------|--|------------------------------|
| Air conditioner tune-up       | Thermostat replacement with Smart Thermostat                   | Minor plumbing repairs       |
| Air filter replacement        | Duct leak repairs  | Toilet replacement           |
| Attic insulation              | Evaporator coil cleaning                                       | Water flow restrictors       |
| Window film insulation        | Hot water pipe and air conditioner refrigerant line insulation | Blower door testing          |
| Caulking and weatherstripping | Irrigation repairs   | Attic stair insulation cover |

The purpose of the Efficiency Delivered program is to reduce the energy and water costs especially for low-income households, particularly those households with elderly persons, disabled persons and children. Through the Efficiency Delivered program, OUC helps to lower the bills of customers who may have difficulty paying their bills, thereby decreasing the potential for costly service disconnect fees and late charges. OUC believes that the Efficiency Delivered program will provide energy savings that may help customers afford other essential living expenses. For others, this program offers a one-stop-shop to facilitate the implementation of a whole suite of conservation measures at reasonable costs and by pre-screened qualified contractors.

### *2.2.2.8 Commercial Efficient Electric Heat Pump Rebates Program*

The commercial Efficient Electric Heat Pump Rebates program provides rebates to qualifying customers in existing buildings who install heat pumps having a Seasonal Energy Efficiency Ratio (SEER) of 16.0 or higher or a Seasonal Energy Efficiency Ratio 2 (SEER2) 15.2 or higher. Customers will obtain a rebate in the form of a credit on their bill ranging up to \$1,150, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following tables illustrate the incentives available depending on the size and efficiency of the heat pump installed.

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|   | SEER2 Upgraded To: |            |            |            |            |            |            |            |            |
|---|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|   | SEER 2             | 15.2-15.99 | 16.0-16.99 | 17.0-17.99 | 18.0-18.99 | 19.0-19.99 | 20.0-20.99 | 21.0-21.99 | 22.0-22.99 |
|   | SEER               | 16.0-16.99 | 17.0-17.99 | 18.0-18.99 | 19.0-19.99 | 20.0-20.99 | 21.0-21.99 | 22.0-22.99 | 23.0-23.99 |
| AC Size (Tons)  | 1                  | -          | -          | \$55       | \$85       | \$115      | \$140      | \$165      | \$185      |
|   | 1.5                | -          | \$55       | \$110      | \$155      | \$200      | \$240      | \$275      | \$305      |
|   | 2                  | -          | \$90       | \$165      | \$230      | \$285      | \$340      | \$385      | \$425      |
|   | 2.5                | \$45       | \$130      | \$220      | \$300      | \$370      | \$435      | \$495      | \$550      |
|   | 3                  | \$65       | \$165      | \$275      | \$370      | \$455      | \$535      | \$605      | \$670      |
|   | 3.5                | \$90       | \$200      | \$330      | \$440      | \$540      | \$635      | \$715      | \$790      |
|   | 4                  | \$110      | \$235      | \$385      | \$510      | \$625      | \$730      | \$825      | \$910      |
|   | 5                  | \$150      | \$310      | \$490      | \$655      | \$795      | \$925      | \$1,045    | \$1,150    |
| Notes:  |                    |            |            |            |            |            |            |            |            |
| 1. SEER 2 is the main rating that determines the rebate value.          |                    |            |            |            |            |            |            |            |            |
| 2. If only SEER is listed on AHRI, use corresponding SEER column above. |                    |            |            |            |            |            |            |            |            |

**2.2.2.9 Commercial Duct Repair Rebates Program**

The commercial Duct Repair Rebates program started in 2009. OUC will rebate 100 percent of cost, up to \$100. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or Underwriters Laboratory (UL) approved duct tape.

**2.2.2.10 Commercial Ceiling Insulation Rebates Program**

The commercial Ceiling Insulation Rebates program started in 2009 and was designed to increase a building’s resistance to heat loss and gain. Participating customers receive \$0.10 per square foot, for upgrading their attic insulation to R-30 or higher.

**2.2.2.11 Commercial Cool/Reflective Roof Rebates Program**

The commercial Cool/Reflective Roof Rebates program started in 2009 and was designed to reflect the sun’s rays and lower roof surface temperature while increasing the lifespan of the roof. OUC will rebate customers at \$0.12 per square foot for ENERGY STAR® cool/reflective roofing that has an initial solar reflectance greater than or equal to 0.70.

**2.2.2.12 Commercial Indoor Lighting Billed Solution Program**

Converting old indoor lights to new lighting technologies is one of the most cost-effective improvements that a commercial customer can make. For some, the lack of capital or budget planning can be major barriers to making cost-effective investments. Since 2002, OUC’s commercial Indoor Lighting program has assisted commercial customers with these investments through OUC’s commercial Indoor Lighting Billed Solution program. Through a competitive RFP process, OUC selected a qualified lighting contractor to work with customers to develop proposals. Customers enter into an agreement with OUC to pay back the cost of the project based on the expected savings through monthly charges applied to their bill. Basically, it is a cash-flow neutral billed solution where the monthly savings pay for the project’s cost over the pay-back period or term. The term cannot exceed five years.

### *2.2.2.13 Commercial Indoor Lighting Rebates Program*

Commercial customers that upgrade the efficiency of their indoor lighting may be eligible to receive a rebate of \$250/kW through the commercial Indoor Lighting Rebates program. Participation is open to facilities located within OUC's service area that receive electric service under an OUC commercial rate. Participants or customers may be any of the following:

- Individual customers who install more efficient lighting in their own facilities.
- National or local companies that install more efficient lighting.
- Local contractors, design/build firms, architectural and engineering firms, and commercial property developers working on behalf of OUC commercial customers.

### *2.2.2.14 Commercial Custom Incentive Program*

Through the commercial Custom Incentive program, commercial customers receive incentives based on the reduction in peak demand their projects achieve plus the first-year energy savings. Energy and demand saving incentives are paid for the maximum one-hour average demand reduction that occurs during the Summer Demand period defined as weekdays, between 1 P.M. to 6 P.M., from April through October. Pre- and post-inspections are required. Incentives and other program considerations are summarized below.

- \$550 per kW reduction incentive and/or energy reduction measures at \$0.032 per kWh will also be incentivized.
- \$250 per kW reduction incentive for all lighting measures.
- Incentives shall not exceed 50% of project cost.
- Incentives may be paid at 50% at project completion and remainder at one year depending on performance results.
- All incentives will be paid as a credit appearing on the customer's OUC statement.
- Simple return on investment must be greater than 2 years.
- Energy and demand conservation measure should have a useful life of at least 10 years.
- A maximum incentive of \$100,000 per customer annually.

### **3.0 STATUS OF OUC'S APPROVED NUMERIC GOALS**

Tables 3-1 through 3-3 illustrate OUC's actual demand and energy reductions versus the peak demand and energy reductions approved by the FPSC. As shown in Tables 3-1 through 3-3, OUC exceeded each of the FPSC-approved peak demand and energy reductions in 2024 (i.e. summer and winter peak demand (kW) and annual energy (MWh) for residential and commercial/industrial customer classes). Table 3-4 lists the summer and winter peak demand (kW) and annual energy (MWh) reductions for each of the programs included in the demand and energy reductions presented in Tables 3-1 through 3-3.

As noted in OUC's DSM Plan, annual energy reductions associated with OUC's residential and commercial/industrial energy surveys will not be counted towards achieving DSM goals. As such, Tables 3-1 through 3-4 do not reflect energy reductions associated with OUC's survey programs, which OUC continued to offer during 2024 (with the number of surveys completed, by type, summarized below and including proactive energy audits)<sup>2</sup>.

- Residential Energy Surveys – On-Site/Single Family Homes: 917
- Residential Energy Surveys – On-Site/Multi Family Homes: 336
- Residential Proactive: 140
- Commercial Energy Audits: 68

In addition to the energy surveys and audits summarized above, in 2024 OUC offered its customers a free online service designed to help customers save energy, water, and money. The report compares a customer's energy and water consumptions to similar households and also provides personalized tips that show how much they can save by changing their behavior. In calendar year 2024, OUC had 41,739 customers utilize the free online home utility report.

In 2024, OUC continued to offer its customers the option to participate in the OUC Power Pass program, which allows customer to "pay-as-you-go" or pay in advance for utility services, allowing the option of avoiding deposits, late fees, and a monthly bill. Statistics have shown that pay-before-consumption programs result in less electricity and water usage because customers are more aware of how much they are using. Participating customers can check their electric or water usage every day using the OUC Power Pass portal or receive alerts via text, email, and/or phone. In calendar year 2024, OUC had 20,226 customers participate in the Power Pass program.

As with the energy reductions associated with energy surveys and audits, energy reductions resulting from the free online home utility reports and participation in the Power Pass program are not accounted towards achieving OUC's DSM goals but are included for informational purposes in Table 3-5.

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<sup>2</sup> Proactive energy audits are audits for which OUC detects a significant increase in a customer's electric consumption and proactively visits the customer's property or calls the customer to offer assistance.

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| <b>Table 3-1<br/>Comparison of Actual Conservation Reductions to FPSC’s Approved<br/>Numeric Conservation Goals – Residential Programs</b> |                          |                    |                          |                    |                      |                    |
|--|--------------------------|--------------------|--------------------------|--------------------|----------------------|--------------------|
| Year   | Winter Peak kW Reduction |                    | Summer Peak kW Reduction |                    | MWh Energy Reduction |                    |
|  | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction   | FPSC-Approved Goal |
| 2020   | 821                      | 210                | 763                      | 210                | 1,628                | 770                |
| 2021   | 659                      | 220                | 631                      | 210                | 1,422                | 800                |
| 2022   | 581                      | 200                | 531                      | 190                | 1,137                | 720                |
| 2023   | 954                      | 180                | 810                      | 190                | 1,856                | 660                |
| 2024   | 710                      | 160                | 657                      | 160                | 1,683                | 570                |

| <b>Table 3-2<br/>Comparison of Actual Conservation Reductions to FPSC’s Approved<br/>Numeric Conservation Goals – Commercial/Industrial Programs</b> |                          |                    |                          |                    |                      |                    |
|--|--------------------------|--------------------|--------------------------|--------------------|----------------------|--------------------|
| Year   | Winter Peak kW Reduction |                    | Summer Peak kW Reduction |                    | MWh Energy Reduction |                    |
|  | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction   | FPSC-Approved Goal |
| 2020   | 1,960                    | 700                | 2,325                    | 390                | 9,087                | 850                |
| 2021   | 1,676                    | 780                | 1,859                    | 400                | 11,330               | 860                |
| 2022   | 1,956                    | 780                | 1,985                    | 370                | 4,816                | 850                |
| 2023   | 1,556                    | 740                | 1,593                    | 390                | 8,489                | 820                |
| 2024   | 956                      | 700                | 1,352                    | 360                | 8,221                | 800                |

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| <b>Table 3-3<br/>Comparison of Actual Conservation Reductions to FPSC’s Approved<br/>Numeric Conservation Goals – Residential and Commercial/Industrial Programs</b> |                          |                    |                          |                    |                      |                    |
|--|--------------------------|--------------------|--------------------------|--------------------|----------------------|--------------------|
| Year   | Winter Peak kW Reduction |                    | Summer Peak kW Reduction |                    | MWh Energy Reduction |                    |
|  | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction       | FPSC-Approved Goal | Achieved Reduction   | FPSC-Approved Goal |
| 2020   | 2,782                    | 910                | 3,087                    | 600                | 10,715               | 1,620              |
| 2021   | 2,335                    | 1,000              | 2,489                    | 610                | 12,752               | 1,660              |
| 2022   | 2,537                    | 980                | 2,515                    | 560                | 5,953                | 1,570              |
| 2023   | 2,510                    | 920                | 2,403                    | 580                | 10,344               | 1,480              |
| 2024   | 1,666                    | 860                | 2,009                    | 520                | 9,904                | 1,370              |

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| <b>Table 3-4<br/>2024 Program Winter Peak (kW), Summer Peak (kW), and Annual Energy (MWh) Reductions<br/>(at the Generator)</b> |                             |                             |                         |
|---|-----------------------------|-----------------------------|-------------------------|
| Program   | Winter Peak kW<br>Reduction | Summer Peak kW<br>Reduction | MWh Energy<br>Reduction |
| <b>Residential Programs</b>   |                             |                             |                         |
| Duct Repair Rebates   | 9.7                         | 11.3                        | 18.1                    |
| Ceiling Insulation Upgrade Rebates  | 118.5                       | 56.0                        | 42.8                    |
| High Performance Windows Rebates  | 150.2                       | 62.9                        | 81.7                    |
| Efficient Electric Heat Pump Rebates  | 182.3                       | 299.9                       | 505.5                   |
| New Home Rebates  | 6.1                         | 5.7                         | 24.0                    |
| Efficiency Delivered  | 52.1                        | 43.2                        | 88.7                    |
| Heat Pump Water Heater Rebates  | 191.5                       | 178.2                       | 922.4                   |
| <b>Residential Programs Total</b>   | <b>710</b>                  | <b>657</b>                  | <b>1,683</b>            |
| <b>Commercial/Industrial Programs</b>   |                             |                             |                         |
| Efficient Electric Heat Pump Rebates  | 1.8                         | 2.9                         | 4.8                     |
| Duct Repair Rebates   | 0.0                         | 0.4                         | 0.4                     |
| Ceiling Insulation Upgrade Rebates  | 0.0                         | 0.0                         | 0.0                     |
| Cool/Reflective Roof Rebates  | 0.0                         | 394.6                       | 2,083.7                 |
| Indoor Lighting Billed Solution   | 51.3                        | 51.3                        | 120.6                   |
| Indoor Lighting Rebates   | 768.4                       | 768.4                       | 4,052.6                 |
| Custom Incentive  | 134.5                       | 134.5                       | 1,958.7                 |
| <b>Commercial/Industrial Programs Total</b>   | <b>956</b>                  | <b>1,352</b>                | <b>8,221</b>            |
| <b>Residential and Commercial/Industrial Programs Total</b>   | <b>1,666</b>                | <b>2,009</b>                | <b>9,904</b>            |
| Note: Totals may not add due to rounding.   |                             |                             |                         |

In addition to the residential and commercial/industrial programs previously discussed, OUC continues to do more to reduce energy consumption through supply-side initiatives, including:

- Conservation Voltage Reduction (CVR) - The Conservation Voltage Reduction (CVR) Project is made possible by OUC's investment in its Advanced Meter Infrastructure (AMI) and more sophisticated distribution equipment. The availability of AMI customer load and voltage interval data provides an opportunity to optimize voltage control and thereby reduce energy consumption based on better awareness and monitoring of system conditions at customer service points. Benefits of CVR include conservation related reductions in customer energy



usage and line losses (with associated reductions in fuel usage) and lower demands on generation resources. As of December 2024, OUC had 157 feeders of 190 feeders under CVR control resulting in savings of approximately 28,814,933 kWh annually.

- Power Plant Efficiency Improvements –OUC continues to make investments in improving the energy efficiency at its generation facilities. The energy reduction realized in 2024 due to these efficiency improvements totaled approximately 262,022,000 kWh.
- OUCooling Chilled Water District(s) Efficiency Improvements - OUCooling currently serves over 200 customers and provides more than 61,000 tons of cooling. OUCooling’s success has relied on the fact that OUCooling can deliver cooling more efficiently and less costly than what a customer would likely produce on their own. The way OUCooling succeeds is by investing in higher efficiency chillers and equipment and optimizes its operations on a continuous basis. The enhanced efficient operation of OUCooling is estimated to have saved approximately 18,611,480 kWh in 2024.

Table 3-5 provides a summary of the energy reductions realized by OUC in calendar year 2024 associated with conservation programs and efficiency improvements including the residential and commercial/industrial programs included in OUC’s DSM Plan and as discussed previously in this report (as reflected in Table 3-1 through Table 3-4), as well as OUC’s other demand reduction and efficiency improvement initiatives. Table 3-5 also shows these energy reductions as a percent of OUC’s total calendar year 2024 retail sales.

Tables 3-6 through 3-19 present the annual demand and energy savings for the rebate programs (and billed solutions program) offered by OUC during calendar year 2024 discussed in Section 2.0 of this report. Each table also includes the actual program costs (non-recurring costs and rebates) and participation for 2024, unless otherwise noted. The utility costs associated with the programs have been updated based on actual costs incurred during calendar year 2024. Unless otherwise noted, actual cumulative penetration rates for each program reflect 2020 as the base year and do not consider customer participation prior to 2020.

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| <b>Table 3-5<br/>2024 Annual Energy (kWh) Reductions (at the Generator)</b> |                             |
|---|-----------------------------|
| <b>Program</b>  | <b>kWh Energy Reduction</b> |
| <b>Residential Programs</b>   |                             |
| Duct Repair Rebates   | 18,113                      |
| Ceiling Insulation Upgrade Rebates  | 42,792                      |
| High Performance Windows Rebates  | 81,695                      |
| Efficient Electric Heat Pump Rebates  | 505,506                     |
| New Home Rebates  | 23,969                      |
| Efficiency Delivered  | 88,684                      |
| Heat Pump Water Heater Rebates  | 922,433                     |
| <b>Residential Programs Total</b>   | <b>1,683,191</b>            |
| <b>Commercial/Industrial Programs</b>                                       |                             |
| Efficient Electric Heat Pump Rebates  | 4,776                       |
| Duct Repair Rebates   | 401                         |
| Ceiling Insulation Upgrade Rebates  | 0                           |
| Cool/Reflective Roof Rebates  | 2,083,728                   |
| Indoor Lighting Billed Solution   | 120,639                     |
| Indoor Lighting Rebates   | 4,052,569                   |
| Custom Incentive  | 1,958,718                   |
| <b>Commercial/Industrial Programs Total</b>                                 | <b>8,220,832</b>            |
| <b>Residential and Commercial/Industrial Programs Total</b>                 | <b>9,904,023</b>            |
| <b>Customer Facing Non-PSC Goal Programs</b>                                |                             |
| Energy Surveys (Residential + Commercial/Industrial)                        | 463,270                     |
| Commercial Window Film  | 0                           |
| Commercial Heat Pump Water Heater Rebates                                   | 0                           |
| Commercial High Performance Windows Rebates                                 | 360                         |
| Residential Window Film   | 3,821                       |
| Residential Solar Thermal Water Heating                                     | 11,289                      |
| Residential Solar Screening   | 699                         |
| Behavior Reports  | 5,803,870                   |
| Pre-Paid Power Pass   | 12,608,888                  |
| <b>Sub-Total of Customer Facing Non-PSC Goal Programs</b>                   | <b>18,892,197</b>           |
| <b>Total Customer Facing Energy Efficiency Programs</b>                     | <b>28,796,220</b>           |
| <b>Non-Customer Facing Programs</b>   |                             |
| Conservation Voltage Reduction (CVR)  | 28,814,933                  |
| Stanton Energy Center Energy Efficiency Improvements                        | 262,022,000                 |
| OUCooling Chilled Water Operations  | 18,611,480                  |
| <b>Sub-Total of Non-Customer Facing Programs</b>                            | <b>309,448,413</b>          |
| <b>Total of All Energy Efficiency Impacts</b>                               | <b>338,244,633</b>          |
| <b>Total of All Energy Efficiency Impacts (% of 2024 Retail Sales)</b>      | <b>4.64%</b>                |
| Note: Totals may not add due to rounding.                                   |                             |

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Table 3-6. Residential Duct Repair Rebates

| Residential Duct Repair Rebate<br>2020 (for Reporting Purposes)<br>Residential Duct Repair Rebate<br>Reporting Period: 2024 |                                |   |  |  |   |   |   |  |   |
|---|--------------------------------|---|--|--|---|---|---|--|---|
| A<br>Calendar Year  | B<br>Total Number of Customers | C<br>Total Number of Eligible Customers | D<br>Projected Annual Average Number of Program Participants | E<br>Projected Cumulative Number of Program Participants | F<br>Projected Cumulative Penetration Level % (E/C*100) | G<br>Actual Annual Number of Program Participants | H<br>Actual Cumulative Number of Program Participants | I<br>Actual Cumulative Penetration Level % (H/C*100) | J<br>Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 221,756                        | 12,862                                  | 29   | 29   | 0.2%  | 54  | 54  | 0.4%   | 25  |
| 2021  | 228,707                        | 13,265                                  | 29   | 58   | 0.4%  | 40  | 94  | 0.7%   | 36  |
| 2022  | 236,057                        | 13,691                                  | 29   | 87   | 0.6%  | 34  | 128   | 0.9%   | 41  |
| 2023  | 242,199                        | 14,048                                  | 29   | 116  | 0.8%  | 332   | 460   | 3.3%   | 344   |
| 2024  | 251,361                        | 14,579                                  | 29   | 145  | 1.0%  | 39  | 499   | 3.4%   | 354   |

  

|                   |      |
|-------------------|------|
| Eligibility Level | 5.8% |
|-------------------|------|

  

| Annual Demand and Energy Savings | Per Installation |            | Program Total |
|----------------------------------|------------------|------------|---------------|
|                                  | @meter           | @generator |               |
| Summer kW Reduction              | 0.28             | 0.29       | 11.35         |
| Winter kW Reduction              | 0.24             | 0.25       | 9.73          |
| kWh Reduction                    | 447              | 464        | 17,433        |

  

| Costs                       | Per Participant           | Program Total |
|-----------------------------|---------------------------|---------------|
|                             | Utility Nonrecurring Cost | \$337.87      |
| Utility Recurring Cost      | \$0                       | \$0           |
| Utility Nonrecurring Rebate | \$100                     | \$3,900       |
| Utility Recurring Rebate    | \$0                       | \$0           |

  

Annual Benefits =  $B_{\text{ipyr}} \times d / [1 - (1+d)^{-n}] = (5,979)$   
 where:  
 $B_{\text{ipyr}}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d = 6.5\%$  = discount rate (utility's after tax cost of capital)  
 $n = 10$  = life of the program

*The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.*

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Table 3-7. Residential Ceiling Insulation Rebates

| Residential Ceiling Insulation Rebate<br>2020 (for Reporting Purposes)<br>Residential Ceiling Insulation Rebate<br>2024   |                                       |   |  |  |   |   |   |  |   |  |  |
|---|---------------------------------------|---|--|--|---|---|---|--|---|--|--|
| Program Name:   | Residential Ceiling Insulation Rebate |   |  |  |   |   |   |  |   |  |  |
| Program Start Date:   | 2020 (for Reporting Purposes)         |   |  |  |   |   |   |  |   |  |  |
| Measure:  | Residential Ceiling Insulation Rebate |   |  |  |   |   |   |  |   |  |  |
| Reporting Period:   | 2024                                  |   |  |  |   |   |   |  |   |  |  |
| A<br>Calendar Year  | B<br>Total Number of Customers        | C<br>Total Number of Eligible Customers | D<br>Projected Annual Average Number of Program Participants | E<br>Projected Cumulative Number of Program Participants | F<br>Projected Cumulative Penetration Level % (E/C*100) | G<br>Actual Annual Number of Program Participants | H<br>Actual Cumulative Number of Program Participants | I<br>Actual Cumulative Penetration Level % (H/C*100) | J<br>Actual Participation Over (Under) Projected Participants (H-E) |  |  |
| 2020  | 221,756                               | 46,778                                  | 70   | 70   | 0.1%  | 98  | 98  | 0.2%   | 28  |  |  |
| 2021  | 228,707                               | 48,244                                  | 72   | 142  | 0.3%  | 84  | 182   | 0.4%   | 40  |  |  |
| 2022  | 236,057                               | 49,794                                  | 74   | 216  | 0.4%  | 79  | 261   | 0.5%   | 45  |  |  |
| 2023  | 242,199                               | 51,090                                  | 76   | 292  | 0.6%  | 389   | 650   | 1.3%   | 358   |  |  |
| 2024  | 251,361                               | 53,023                                  | 77   | 369  | 0.7%  | 107   | 757   | 1.4%   | 388   |  |  |
| <b>Eligibility Level</b> 21.1%  |                                       |   |  |  |   |   |   |  |   |  |  |
| <b>Annual Demand and Energy Savings</b>   |                                       |   |  |  |   |   |   |  |   |  |  |
|   |                                       |   |  |  |   | <b>Per Installation</b>                           |   | <b>Program Total</b>                                 |   |  |  |
|   |                                       |   |  |  |   | @meter  | @generator  | @meter   | @generator  |  |  |
| Summer kW Reduction   |                                       |   |  |  |   | 0.50  | 0.52  | 53.92  | 56.02   |  |  |
| Winter kW Reduction   |                                       |   |  |  |   | 1.07  | 1.11  | 114.07   | 118.52  |  |  |
| kWh Reduction   |                                       |   |  |  |   | 385   | 400   | 41,185   | 42,792  |  |  |
| <b>Costs</b>  |                                       |   |  |  |   |   |   |  |   |  |  |
|   |                                       |   |  |  |   | <b>Per Participant</b>                            |   | <b>Program Total</b>                                 |   |  |  |
| Utility Nonrecurring Cost   |                                       |   |  |  |   | \$290.94  |   | \$31,131   |   |  |  |
| Utility Recurring Cost  |                                       |   |  |  |   | \$0   |   | \$0  |   |  |  |
| Utility Nonrecurring Rebate   |                                       |   |  |  |   | \$154.33  |   | \$16,513   |   |  |  |
| Utility Recurring Rebate  |                                       |   |  |  |   | \$0   |   | \$0  |   |  |  |
| <p><b>Annual Benefits = <math>B_{ipv} \times d / [1 - (1 + d)^{-n}] = (87,613)</math></b><br/>           where:<br/> <math>B_{ipv}</math> = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period<br/> <math>d = 6.5\%</math> = discount rate (utility's after tax cost of capital)<br/> <math>n = 10</math> = life of the program<br/> <i>The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-E6)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.</i></p> |                                       |   |  |  |   |   |   |  |   |  |  |

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Table 3-8. Residential High Performance Windows Rebates

| Residential High Performance Window Rebate<br>2020 (for Reporting Purposes)<br>Residential High Performance Window Rebate<br>2024 |                           |                                    |   |   |  |  |  |   |  |
|---|---------------------------|------------------------------------|---|---|--|--|--|---|--|
| Program Name:   |                           |                                    |   |   |  |  |  |   |  |
| Program Start Date:   |                           |                                    |   |   |  |  |  |   |  |
| Measure:  |                           |                                    |   |   |  |  |  |   |  |
| Reporting Period:   |                           |                                    |   |   |  |  |  |   |  |
| A   | B                         | C                                  | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year   | Total Number of Customers | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 221,756                   | 17,359                             | 206   | 206   | 1.2%   | 207  | 207  | 1.2%  | 1  |
| 2021  | 228,707                   | 17,903                             | 206   | 412   | 2.3%   | 142  | 349  | 1.9%  | (63)   |
| 2022  | 236,057                   | 18,478                             | 206   | 618   | 3.3%   | 181  | 530  | 2.9%  | (88)   |
| 2023  | 242,199                   | 18,959                             | 206   | 824   | 4.3%   | 200  | 730  | 3.9%  | (94)   |
| 2024  | 251,361                   | 19,676                             | 206   | 1,030   | 5.2%   | 270  | 1,000  | 5.1%  | (30)   |

  

| Eligibility Level                       | 7.8%                        |
|---|-----------------------------|
| <b>Annual Demand and Energy Savings</b> |                             |
| Summer kW Reduction                     | Per Installation @meter     |
| Winter kW Reduction                     | Per Installation @generator |
| kWh Reduction                           | Per Installation @generator |
|   | @meter                      |
|   | @generator                  |
|   | @generator                  |
|   | Program Total               |
|   | @meter                      |
|   | @generator                  |
|   | Program Total               |
|   | @meter                      |
|   | @generator                  |
|   | Program Total               |

  

| Costs                       | Per Participant | Program Total |
|-----------------------------|-----------------|---------------|
| Utility Nonrecurring Cost   | \$220.12        | \$59,432      |
| Utility Recurring Cost      | \$0             | \$0           |
| Utility Nonrecurring Rebate | \$263.59        | \$71,170      |
| Utility Recurring Rebate    | \$0             | \$0           |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$180,397)$   
 where:

- $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
- $d$  = 6.5% = discount rate (utility's after tax cost of capital)
- $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

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Table 3-9. Residential Efficient Electric Heat Pump Rebates

| Residential Heat Pump Rebate<br>2020 (for Reporting Purposes)<br>Residential Heat Pump Rebate<br>2024  |                                |   |  |  |   |   |   |  |   |                       |  |
|--|--------------------------------|---|--|--|---|---|---|--|---|-----------------------|--|
| Program Name:  | Residential Heat Pump Rebate   |   |  |  |   |   |   |  |   |                       |  |
| Program Start Date:  | 2020 (for Reporting Purposes)  |   |  |  |   |   |   |  |   |                       |  |
| Measure:   | Residential Heat Pump Rebate   |   |  |  |   |   |   |  |   |                       |  |
| Reporting Period:  | 2024                           |   |  |  |   |   |   |  |   |                       |  |
| A<br>Calendar Year   | B<br>Total Number of Customers | C<br>Total Number of Eligible Customers | D<br>Projected Annual Average Number of Program Participants | E<br>Projected Cumulative Number of Program Participants | F<br>Projected Cumulative Penetration Level % (E/C*100) | G<br>Actual Annual Number of Program Participants | H<br>Actual Cumulative Number of Program Participants | I<br>Actual Cumulative Penetration Level % (H/C*100) | J<br>Actual Participation Over (Under) Projected Participants (H-E) |                       |  |
| 2020   | 221,756                        | 7,614                                   | 1,078  | 1,078  | 14.2%   | 1,112   | 1,112   | 14.6%  | 34  |                       |  |
| 2021   | 228,707                        | 7,852                                   | 1,078  | 2,156  | 27.5%   | 895   | 2,007   | 25.6%  | (149)   |                       |  |
| 2022   | 236,057                        | 8,105                                   | 1,078  | 3,234  | 39.9%   | 789   | 2,796   | 34.5%  | (438)   |                       |  |
| 2023   | 242,199                        | 8,316                                   | 1,078  | 4,312  | 51.9%   | 936   | 3,732   | 44.9%  | (580)   |                       |  |
| 2024   | 251,361                        | 8,630                                   | 1,078  | 5,390  | 62.5%   | 769   | 4,501   | 52.2%  | (889)   |                       |  |
| <b>Eligibility Level</b>   |                                |   |  |  |   |   |   |  |   |                       |  |
| 3.4%   |                                |   |  |  |   |   |   |  |   |                       |  |
| Annual Demand and Energy Savings   |                                |   |  |  |   |   |   |  |   |                       |  |
|  |                                |   |  |  |   | Per Installation                                  |   | Program Total  |   |                       |  |
|  |                                |   |  |  |   | @meter  | @generator  | @meter   | @generator  |                       |  |
| Summer kW Reduction  |                                |   |  |  |   | 0.38  | 0.39  | 288.67   | 299.93  |                       |  |
| Winter kW Reduction  |                                |   |  |  |   | 0.23  | 0.24  | 175.45   | 182.29  |                       |  |
| kWh Reduction  |                                |   |  |  |   | 633   | 657   | 486,531  | 505,506   |                       |  |
| Costs  |                                |   |  |  |   |   |   |  |   |                       |  |
|  |                                |   |  |  |   | Per Participant                                   | Program Total   |  |   |                       |  |
| Utility Nonrecurring Cost  |                                |   |  |  |   | \$478.22  | \$367,751   |  |   |                       |  |
| Utility Recurring Cost   |                                |   |  |  |   | \$0   | \$0   |  |   |                       |  |
| Utility Nonrecurring Rebate  |                                |   |  |  |   | \$220.20  | \$169,330   |  |   |                       |  |
| Utility Recurring Rebate   |                                |   |  |  |   | \$0   | \$0   |  |   |                       |  |
| Annual Benefits = $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$212,061)$ (SEER 15)  |                                |   |  |  |   | (\$305,071) (SEER 18)                             |   | (\$230,518) (SEER 19)                                |   | (\$123,817) (SEER 20) |  |
| where:   |                                |   |  |  |   | (\$292,707) (SEER 17)                             |   | (\$28,182) (SEER 21)                                 |   | (\$18,969) (SEER 22+) |  |
| $B_{npv}$ = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period<br>$d = 6.5\%$ = discount rate (utility's after tax cost of capital)<br>$n = 10$ = life of the program  |                                |   |  |  |   |   |   |  |   |                       |  |
| <i>The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.</i> |                                |   |  |  |   |   |   |  |   |                       |  |

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Table 3-10. Residential New Home Rebates

| Program Name: New Home Rebate (Formerly Gold Ring)<br>Program Start Date: 2020 (for Reporting Purposes)<br>Measure: New Home Rebate (Formerly Gold Ring)<br>Reporting Period: 2024 |                           |                                    |   |   |  |  |  |   |  |  |  |
|--|---------------------------|------------------------------------|---|---|--|--|--|---|--|--|--|
| A  | B                         | C                                  | D   | E   | F  | G  | H  | I   | J  |  |  |
| Calendar Year  | Total Number of Customers | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |  |  |
| 2020   | 221,756                   | 3,907                              | 116   | 116   | 3.0%   | 184  | 184  | 4.7%  | 68   |  |  |
| 2021   | 228,707                   | 4,030                              | 116   | 232   | 5.8%   | 155  | 339  | 8.4%  | 107  |  |  |
| 2022   | 236,057                   | 4,159                              | 116   | 348   | 8.4%   | 99   | 438  | 10.5%   | 90   |  |  |
| 2023   | 242,199                   | 4,268                              | 116   | 464   | 10.9%  | 86   | 524  | 12.3%   | 60   |  |  |
| 2024   | 251,361                   | 4,429                              | 116   | 580   | 13.1%  | 29   | 553  | 12.5%   | (27)   |  |  |

  

| Eligibility Level                | 1.8%                        |
|----------------------------------|-----------------------------|
| Annual Demand and Energy Savings |                             |
| Summer kW Reduction              | @meter 0.19 @generator 0.20 |
| Winter kW Reduction              | @meter 0.20 @generator 0.21 |
| kWh Reduction                    | @meter 795 @generator 827   |

  

|                             | Per Installation |            | Program Total |            |
|-----------------------------|------------------|------------|---------------|------------|
|                             | @meter           | @generator | @meter        | @generator |
| Utility Nonrecurring Cost   | \$601.29         | \$17,437   | 5.49          | 5.70       |
| Utility Recurring Cost      | \$0.00           | \$0        | 5.90          | 6.12       |
| Utility Nonrecurring Rebate | \$223.97         | \$6,495    | 23,069        | 23,969     |
| Utility Recurring Rebate    | \$0              | \$0        |               |            |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$425,309)$   
 where:  
 $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d = 6.5\%$  = discount rate (utility's after tax cost of capital)  
 $n = 10$  = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

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Table 3-1.1. Residential Efficiency Delivered

| Residential Efficiency Delivered<br>2020 (for Reporting Purposes)<br>Residential Efficiency Delivered<br>2024 |                                  |                                    |   |   |  |  |  |   |  |
|---|----------------------------------|------------------------------------|---|---|--|--|--|---|--|
| Program Name:   | Residential Efficiency Delivered |                                    |   |   |  |  |  |   |  |
| Program Start Date:   | 2020 (for Reporting Purposes)    |                                    |   |   |  |  |  |   |  |
| Measure:  | Residential Efficiency Delivered |                                    |   |   |  |  |  |   |  |
| Reporting Period:   | 2024                             |                                    |   |   |  |  |  |   |  |
| A   | B                                | C                                  | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year   | Total Number of Customers        | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 221,756                          | 36,546                             | 73  | 73  | 0.2%   | 86   | 86   | 0.2%  | 13   |
| 2021  | 228,707                          | 37,691                             | 73  | 146   | 0.4%   | 93   | 179  | 0.5%  | 33   |
| 2022  | 236,057                          | 38,902                             | 73  | 219   | 0.6%   | 105  | 284  | 0.7%  | 65   |
| 2023  | 242,199                          | 39,915                             | 73  | 292   | 0.7%   | 142  | 426  | 1.1%  | 134  |
| 2024  | 251,361                          | 41,425                             | 73  | 365   | 0.9%   | 112  | 538  | 1.3%  | 173  |

  

| Eligibility Level                       | 16.5%   |
|---|---|
| <b>Annual Demand and Energy Savings</b> |   |
| Summer kW Reduction                     | Per Installation @meter: 0.37 @generator: 0.39  |
| Winter kW Reduction                     | Per Installation @meter: 0.45 @generator: 0.46  |
| kWh Reduction                           | Per Installation @meter: 762 @generator: 792    |
|   | Program Total @meter: 41,531 @generator: 43,151 |
|   | Program Total @meter: 50,101 @generator: 52,061 |
|   | Program Total @meter: 85,355 @generator: 88,684 |

  

| Costs                                      | Per Participant | Program Total |
|--|-----------------|---------------|
| Utility Nonrecurring Cost                  | \$576.04        | \$64,517      |
| Utility Recurring Cost                     | \$0             | \$0           |
| Utility Nonrecurring Rebate <sup>(1)</sup> | \$2,387.73      | \$267,426     |
| Utility Recurring Rebate                   | \$0             | \$0           |

*(1). Includes all rebates and other costs associated with OUC's contributions to participating customers' costs. All other program costs are included in "Utility Nonrecurring Cost".*

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$73,959)$

where:

- $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
- $d$  = 6.5% = discount rate (utility's after tax cost of capital)
- $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan (approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)) and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.



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Table 3-12. Residential Heat Pump Water Heater Rebates

| Residential Heat Pump Water Heaters<br>2020 (for Reporting Purposes)<br>Residential Heat Pump Water Heaters<br>2024 |   |   |  |  |   |   |   |  |   |
|---|---|---|--|--|---|---|---|--|---|
| Program Name:   | Residential Heat Pump Water Heaters<br>2020 (for Reporting Purposes)<br>Residential Heat Pump Water Heaters<br>2024 |   |  |  |   |   |   |  |   |
| Program Start Date:   | 2020  |   |  |  |   |   |   |  |   |
| Measure:  | Residential Heat Pump Water Heaters   |   |  |  |   |   |   |  |   |
| Reporting Period:   | 2024  |   |  |  |   |   |   |  |   |
| A<br>Calendar Year  | B<br>Total Number of Customers  | C<br>Total Number of Eligible Customers | D<br>Projected Annual Average Number of Program Participants | E<br>Projected Cumulative Number of Program Participants | F<br>Projected Cumulative Penetration Level % (E/C*100) | G<br>Actual Annual Number of Program Participants | H<br>Actual Cumulative Number of Program Participants | I<br>Actual Cumulative Penetration Level % (H/C*100) | J<br>Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 221,756   | 4,287                                   | 182  | 182  | 4.25%   | 196   | 196   | 4.57%  | 14  |
| 2021  | 228,707   | 4,421                                   | 182  | 364  | 8.23%   | 175   | 371   | 8.4%   | 7   |
| 2022  | 236,057   | 4,564                                   | 182  | 546  | 11.96%  | 161   | 532   | 11.7%  | (14)  |
| 2023  | 242,199   | 4,682                                   | 182  | 728  | 15.55%  | 452   | 984   | 21.0%  | 256   |
| 2024  | 251,361   | 4,859                                   | 182  | 910  | 18.73%  | 512   | 1,496   | 30.8%  | 586   |

  

| Eligibility Level                       | 1.9%  |        |       |            |         |                      |        |
|---|-------|--------|-------|------------|---------|----------------------|--------|
| <b>Annual Demand and Energy Savings</b> |       |        |       |            |         |                      |        |
| Summer kW Reduction                     | 0.33  | @meter | 0.35  | @generator | 171.52  | Program Total @meter | 178.21 |
| Winter kW Reduction                     | 0.36  | @meter | 0.37  | @generator | 184.32  | 191.51               |        |
| kWh Reduction                           | 1,734 | @meter | 1,802 | @generator | 887,808 | 922,433              |        |

  

| Costs                       | Per Participant | Program Total |
|-----------------------------|-----------------|---------------|
| Utility Nonrecurring Cost   | \$1,311         | \$671,061     |
| Utility Recurring Cost      | \$0             | \$0           |
| Utility Nonrecurring Rebate | \$500           | \$256,000     |
| Utility Recurring Rebate    | \$0             | \$0           |

  

Annual Benefits =  $B_{ngpv} \times d / [1 - (1-d)^n] = (\$491,767)$   
 where:

$B_{ngpv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d$  = 6.5% = discount rate (utility's after tax cost of capital)  
 $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [Approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

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Table 3-13. Commercial Efficient Electric Heat Pump Rebates

| Program Name: Commercial Heat Pump Rebate<br>Program Start Date: 2020 (for Reporting Purposes)<br>Measure: Commercial Heat Pump Rebate<br>Reporting Period: 2024 |                           |                                    |   |   |  |  |  |   |  |  |
|--|---------------------------|------------------------------------|---|---|--|--|--|---|--|--|
| A  | B                         | C                                  | D   | E   | F  | G  | H  | I   | J  |  |
| Calendar Year  | Total Number of Customers | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |  |
| 2020   | 31,692                    | 2,189                              | 11  | 11  | 0.5%   | 8  | 8  | 0.4%  | (3)  |  |
| 2021   | 32,338                    | 2,234                              | 11  | 22  | 1.0%   | 9  | 17   | 0.8%  | (5)  |  |
| 2022   | 33,115                    | 2,288                              | 10  | 32  | 1.4%   | 44   | 61   | 2.7%  | 29   |  |
| 2023   | 33,140                    | 2,289                              | 9   | 41  | 1.8%   | 5  | 66   | 2.9%  | 25   |  |
| 2024   | 33,576                    | 2,320                              | 9   | 50  | 2.2%   | 4  | 70   | 3.0%  | 20   |  |

  

| Eligibility Level                       | 6.9%  |
|---|---|
| <b>Annual Demand and Energy Savings</b> |   |
| Summer kW Reduction                     | Per Installation @meter 0.70 @generator 2.78 2.89 |
| Winter kW Reduction                     | 0.44 0.46 1.84                                    |
| kWh Reduction                           | 1,149 1,194 4,597 4,776                           |

  

| Costs                       | Program Total |
|-----------------------------|---------------|
| Utility Nonrecurring Cost   | \$222         |
| Utility Recurring Cost      | \$0           |
| Utility Nonrecurring Rebate | \$1,735       |
| Utility Recurring Rebate    | \$0           |

  

Annual Benefits =  $B_{hpv} \times d / [1 - (1-d)^n]$  = (\$1,141) (SEER 15) (\$1,830) (SEER 16) (\$1,773) (SEER 17) (\$2,848) (SEER 19) (\$3,307) (SEER 20) (\$3,765) (SEER 21) (\$4,220) (SEER 22+)

where:  $B_{hpv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d$  = 6.5% = discount rate (utility's after tax cost of capital)  
 $n$  = 10 = life of the program

*The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020] (Order No. PSC-2020-0177-CO-EG) and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.*

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Table 3-14. Commercial Duct Repair Rebates

| Program Name:<br>2020 (for Reporting Purposes)<br>Commercial Duct Repair Rebate |                           | Commercial Duct Repair Rebate<br>2024 |   |   |  |  |  |   |  |  |  |
|---|---------------------------|---------------------------------------|---|---|--|--|--|---|--|--|--|
| A   | B                         | C                                     | D   | E   | F  | G  | H  | I   | J  |  |  |
| Calendar Year   | Total Number of Customers | Total Number of Eligible Customers    | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |  |  |
| 2020  | 31,692                    | 1,852                                 | 4   | 4   | 0.2%   | 0  | 0  | 0.0%  | (4)  |  |  |
| 2021  | 32,338                    | 1,890                                 | 4   | 8   | 0.4%   | 0  | 0  | 0.0%  | (8)  |  |  |
| 2022  | 33,115                    | 1,935                                 | 4   | 12  | 0.6%   | 1  | 1  | 0.1%  | (11)   |  |  |
| 2023  | 33,140                    | 1,937                                 | 4   | 16  | 0.8%   | 0  | 1  | 0.1%  | (15)   |  |  |
| 2024  | 33,576                    | 1,962                                 | 4   | 20  | 1.0%   | 1  | 2  | 0.1%  | (18)   |  |  |

  

|                   |      |
|-------------------|------|
| Eligibility Level | 5.8% |
|-------------------|------|

  

|                     | Annual Demand and Energy Savings |            | Program Total |
|---------------------|----------------------------------|------------|---------------|
|                     | @meter                           | @generator |               |
| Summer kW Reduction | 0.40                             | 0.42       | 0.40          |
| Winter kW Reduction | 0.00                             | 0.00       | 0.00          |
| kWh Reduction       | 386                              | 401        | 386           |
|                     |                                  |            | 401           |

  

|                             | Per Participant | Program Total |
|-----------------------------|-----------------|---------------|
| Costs                       |                 |               |
| Utility Nonrecurring Cost   | \$19            | \$19          |
| Utility Recurring Cost      | \$0             | \$0           |
| Utility Nonrecurring Rebate | \$100           | \$100         |
| Utility Recurring Rebate    | \$0             | \$0           |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = \{ \$825 \}$   
where:

- $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
- $d$  = 6.5% = discount rate (utility's after tax cost of capital)
- $n$  = 10 = life of the program

*The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.*

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Table 3-15. Commercial Ceiling Insulation Upgrade Rebates

| Program Name: Commercial Ceiling Insulation Rebate<br>Program Start Date: 2020 (for Reporting Purposes)<br>Measure: Commercial Ceiling Insulation Rebate<br>Reporting Period: 2024 |                           |                                    |   |   |  |  |  |   |  |  |  |
|--|---------------------------|------------------------------------|---|---|--|--|--|---|--|--|--|
| A  | B                         | C                                  | D   | E   | F  | G  | H  | I   | J  |  |  |
| Calendar Year  | Total Number of Customers | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |  |  |
| 2020   | 31,692                    | 1,150                              | 5   | 5   | 0.4%   | 1  | 1  | 0.1%  | (4)  |  |  |
| 2021   | 32,338                    | 1,174                              | 5   | 10  | 0.9%   | 1  | 2  | 0.2%  | (8)  |  |  |
| 2022   | 33,115                    | 1,202                              | 5   | 15  | 1.2%   | 6  | 8  | 0.7%  | (7)  |  |  |
| 2023   | 33,140                    | 1,203                              | 5   | 20  | 1.7%   | 0  | 8  | 0.7%  | (12)   |  |  |
| 2024   | 33,576                    | 1,219                              | 5   | 25  | 2.1%   | 0  | 8  | 0.7%  | (17)   |  |  |

  

| Eligibility Level                       | 3.6% |
|---|------|
| <b>Annual Demand and Energy Savings</b> |      |
| Summer kW Reduction                     | 0.00 |
| Winter kW Reduction                     | 0.00 |
| kWh Reduction                           | 0    |

  

|                     | Per Installation |            | Program Total |
|---------------------|------------------|------------|---------------|
|                     | @meter           | @generator |               |
| Summer kW Reduction | 0.00             | 0.00       | 0.00          |
| Winter kW Reduction | 0.00             | 0.00       | 0.00          |
| kWh Reduction       | 0                | 0          | 0             |

  

|                     | Per Participant |            | Program Total |
|---------------------|-----------------|------------|---------------|
|                     | @meter          | @generator |               |
| Summer kW Reduction | 0               | 0          | \$0           |
| Winter kW Reduction | 0               | 0          | \$0           |
| kWh Reduction       | 0               | 0          | \$0           |

  

$\text{Annual Benefits} = B_{npv} \times d / [1 - (1-d)^n] = (\$5,346)$   
 where:  
 $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d = 6.5\%$  = discount rate (utility's after tax cost of capital)  
 $n = 10$  = life of the program

*The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.*

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Table 3-16. Commercial Cool/Reflective Roof Rebates

| Commercial Cool / Reflective Roof Rebate<br>2020 (for Reporting Purposes)<br>Commercial Cool / Reflective Roof Rebate<br>2024 |  |                                    |   |   |  |  |  |   |  |
|---|--|------------------------------------|---|---|--|--|--|---|--|
| Program Name:   | Commercial Cool / Reflective Roof Rebate |                                    |   |   |  |  |  |   |  |
| Program Start Date:   | 2020 (for Reporting Purposes)            |                                    |   |   |  |  |  |   |  |
| Measure:  | Commercial Cool / Reflective Roof Rebate |                                    |   |   |  |  |  |   |  |
| Reporting Period:   | 2024                                     |                                    |   |   |  |  |  |   |  |
| A   | B  | C                                  | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year   | Total Number of Customers                | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 31,692                                   | 23,040                             | 4   | 4   | 0.0%   | 16   | 16   | 0.1%  | 12   |
| 2021  | 32,338                                   | 23,510                             | 4   | 8   | 0.0%   | 8  | 24   | 0.1%  | 16   |
| 2022  | 33,115                                   | 24,075                             | 4   | 12  | 0.0%   | 2  | 26   | 0.1%  | 14   |
| 2023  | 33,140                                   | 24,093                             | 4   | 16  | 0.1%   | 2  | 28   | 0.1%  | 12   |
| 2024  | 33,576                                   | 24,410                             | 4   | 20  | 0.1%   | 8  | 36   | 0.1%  | 16   |

  

| Eligibility Level                | 72.7%     |            |
|----------------------------------|-----------|------------|
| Annual Demand and Energy Savings |           |            |
| Summer kW Reduction              | @meter    | @generator |
| Winter kW Reduction              | 47.48     | 49.33      |
| kWh Reduction                    | 0.00      | 0.00       |
|                                  | 250,689   | 260,466    |
|                                  | @meter    | @generator |
|                                  | 379.83    | 394.64     |
|                                  | 0.00      | 0.00       |
|                                  | 2,005,513 | 2,083,728  |

  

| Costs                       | Per Participant | Program Total |
|-----------------------------|-----------------|---------------|
| Utility Nonrecurring Cost   | \$12,107.24     | \$96,858      |
| Utility Recurring Cost      | \$0             | \$0           |
| Utility Nonrecurring Rebate | \$8,110.78      | \$64,886      |
| Utility Recurring Rebate    | \$0             | \$0           |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$215,240)$   
 where:

- $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
- $d$  = 6.5% = discount rate (utility's after tax cost of capital)
- $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

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Table 3-17. Commercial Indoor Lighting Billed Solutions

| Program Name: Commercial Indoor Lighting Billed Solution<br>Program Start Date: 2020 (for Reporting Purposes)<br>Measure: Commercial Indoor Lighting Billed Solution<br>Reporting Period: 2024 |                           |                                    |   |   |  |  |  |   |  |
|--|---------------------------|------------------------------------|---|---|--|--|--|---|--|
| A  | B                         | C                                  | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year  | Total Number of Customers | Total Number of Eligible Customers | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020   | 31,692                    | 17,591                             | 5   | 5   | 0.0%   | 4  | 4  | 0.0%  | (1)  |
| 2021   | 32,338                    | 17,949                             | 5   | 10  | 0.1%   | 5  | 9  | 0.1%  | (1)  |
| 2022   | 33,115                    | 18,380                             | 5   | 15  | 0.1%   | 8  | 17   | 0.1%  | 2  |
| 2023   | 33,140                    | 18,394                             | 5   | 20  | 0.1%   | 2  | 19   | 0.1%  | (1)  |
| 2024   | 33,576                    | 18,636                             | 4   | 24  | 0.1%   | 5  | 24   | 0.1%  | 0  |

  

| Eligibility Level   | Annual Demand and Energy Savings |                          |
|---------------------|----------------------------------|--------------------------|
|                     | Per Installation @meter          | Program Total @generator |
| Summer kW Reduction | 9.87                             | 10.25                    |
| Winter kW Reduction | 9.87                             | 10.25                    |
| kWh Reduction       | 23,222                           | 24,128                   |
|                     |                                  | 116,111                  |
|                     |                                  | 120,639                  |

  

| Costs                       | Per Participant | Program Total |
|-----------------------------|-----------------|---------------|
| Utility Nonrecurring Cost   | \$1,121.54      | \$5,608       |
| Utility Recurring Cost      | \$0             | \$0           |
| Utility Nonrecurring Rebate | \$0             | \$0           |
| Utility Recurring Rebate    | \$0             | \$0           |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$205,954)$   
 where:

$B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d$  = 6.5% = discount rate (utility's after tax cost of capital)  
 $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

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Table 3-18. Commercial Indoor Lighting Rebates

| Program Name: Commercial Indoor Lighting Rebate |                           | Program Start Date: 2020 (for Reporting Purposes) |   | Measure: Commercial Indoor Lighting Rebate          |  | Reporting Period: 2024                       |  |   |  |
|---|---------------------------|---|---|---|--|--|--|---|--|
| A   | B                         | C   | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year                                   | Total Number of Customers | Total Number of Eligible Customers                | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020  | 31,692                    | 21,216  | 16  | 16  | 0.1%   | 28   | 28   | 0.1%  | 12   |
| 2021  | 32,338                    | 21,649  | 16  | 32  | 0.1%   | 14   | 42   | 0.2%  | 10   |
| 2022  | 33,115                    | 22,169  | 15  | 47  | 0.2%   | 12   | 54   | 0.2%  | 7  |
| 2023  | 33,140                    | 22,186  | 15  | 62  | 0.3%   | 10   | 64   | 0.3%  | 2  |
| 2024  | 33,576                    | 22,478  | 14  | 76  | 0.3%   | 12   | 76   | 0.3%  | 0  |

  

| Eligibility Level                       | 66.9%                       |
|---|-----------------------------|
| <b>Annual Demand and Energy Savings</b> |                             |
| Summer kW Reduction                     | Per Installation @meter     |
| Winter kW Reduction                     | Per Installation @generator |
| kWh Reduction                           | Per Installation @generator |
|   | <b>Program Total</b>        |
|   | @meter                      |
|   | @generator                  |
|   | @generator                  |

  

| Costs                       | Program Total |
|-----------------------------|---------------|
| Utility Nonrecurring Cost   | \$188,376     |
| Utility Recurring Cost      | \$0           |
| Utility Nonrecurring Rebate | \$188,505     |
| Utility Recurring Rebate    | \$0           |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$195,263)$   
 where:  
 $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period  
 $d$  = 6.5% = discount rate (utility's after tax cost of capital)  
 $n$  = 10 = life of the program

*The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.*

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Table 3-19. Commercial Custom Incentive

| Program Name: Commercial Custom Incentive |                           | Program Start Date: 2020 (for Reporting Purposes) |   | Measure: Commercial Custom Incentive                |  | Reporting Period: 2024                       |  |   |  |
|---|---------------------------|---|---|---|--|--|--|---|--|
| A   | B                         | C   | D   | E   | F  | G  | H  | I   | J  |
| Calendar Year                             | Total Number of Customers | Total Number of Eligible Customers                | Projected Annual Average Number of Program Participants | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % (E/C*100) | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % (H/C*100) | Actual Participation Over (Under) Projected Participants (H-E) |
| 2020                                      | 31,692                    | 31,186  | 13  | 13  | 0.0%   | 26   | 26   | 0.1%  | 13   |
| 2021                                      | 32,338                    | 31,822  | 13  | 26  | 0.1%   | 15   | 41   | 0.1%  | 15   |
| 2022                                      | 33,115                    | 32,586  | 13  | 39  | 0.1%   | 9  | 50   | 0.2%  | 11   |
| 2023                                      | 33,140                    | 32,611  | 12  | 51  | 0.2%   | 11   | 61   | 0.2%  | 10   |
| 2024                                      | 33,576                    | 33,040  | 12  | 63  | 0.2%   | 6  | 67   | 0.2%  | 4  |

  

| Eligibility Level                       | 98.4%                   |
|---|-------------------------|
| <b>Annual Demand and Energy Savings</b> |                         |
| Summer kW Reduction                     | 21.58                   |
| Winter kW Reduction                     | 21.58                   |
| kWh Reduction                           | 314,199                 |
|   | <b>Per Installation</b> |
|   | <b>@meter</b>           |
|   | <b>@generator</b>       |
|   | <b>Program Total</b>    |
|   | <b>@meter</b>           |
|   | <b>@generator</b>       |
|   | <b>Program Total</b>    |
|   | 129.45                  |
|   | 129.45                  |
|   | 134.50                  |
|   | 134.50                  |
|   | 1,885,195               |
|   | 1,958,718               |

  

| Costs                       | Program Total          |
|-----------------------------|------------------------|
| Utility Nonrecurring Cost   | \$91,047               |
| Utility Recurring Cost      | \$0                    |
| Utility Nonrecurring Rebate | \$136,656              |
| Utility Recurring Rebate    | \$0                    |
|                             | <b>Per Participant</b> |
|                             | <b>Program Total</b>   |
|                             | \$15,174.51            |
|                             | \$0                    |
|                             | \$22,775.94            |
|                             | \$0                    |

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = \$67,089$   
 where:

- $B_{npv}$  = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
- $d$  = 6.5% = discount rate (utility's after tax cost of capital)
- $n$  = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.