



March 1, 2022

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

Subject: 2022 Orlando Utilities Commission Annual Conservation Report

Dear Mr. Teitzman

Attached please find an electronic version (in PDF format) of the 2022 Orlando Utilities Commission (OUC) Annual Conservation Report. The 2022 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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## Orlando Utilities Commission

### 2022 Annual Conservation Report

Demand-Side Management and Conservation Programs Offered in Calendar Year 2021

Prepared by:

**nFront Consulting LLC**

March 2022



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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 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 increase customer awareness of such programs. Not only do these programs help customers save money by saving energy, the programs help OUC reduce emissions of greenhouse gases 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, thereby decreasing the incremental amount of energy savings achievable, and the efficiency of new generation has increased. These 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 2021 (Section 2.0), and present the participation levels and associated numeric savings for each of OUC's quantifiable conservation programs which were offered in 2021 (Section 3.0) consistent with OUC's FPSC-approved DSM Plan. Annual energy reductions associated with OUC's residential and commercial/industrial energy surveys will no longer be counted towards achieving DSM goals; 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 2021 consist of the following:

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

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- 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 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 2021 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 late 1970'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

<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 the programs have not been quantified for purposes of including in this Report, as the programs do not contribute to the numeric conservation goals established by the FPSC for OUC.

programs. The home energy surveys are available to both single family and multi-family residential customers.

The Residential Energy Walk-Through Survey includes a review of the customer electric consumption history as well as a walkthrough 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.

In addition to the Energy Walk-Through, OUC offers customers an interactive Online Home Energy Audit. The Online Home Energy Audit walks the customer through a complete visual assessment of energy and water efficiency in his or her home. The online audit has several benefits over the walk-through survey, including the convenience of viewing it at any time without a scheduled appointment and the ability to conduct it numerous times. The interactive Online Home Energy Audit is available on OUC's web site at <http://www.OUC.com/energyaudit>.

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. 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. Online Surveys are tracked through the service provider, who produces monthly activity reports.

#### *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 will include a pre walkthrough 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 detailing cost-effective recommendations to make the facility more energy and water efficient. Participating customers are encouraged to participate in other OUC commercial programs and directly benefit from energy 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 a Walk-Through Energy Survey. 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>. Proofs of

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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 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 15.0 or higher. Customers will obtain a rebate in the form of a credit on their bill ranging up to \$1,630, depending upon the SEER 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.

	SEER	15	16	17	18	19	20	21	22	23
A / C Size (Tons)	1	\$ 5	\$ 55	\$ 95	\$ 135	\$ 170	\$ 205	\$ 230	\$ 260	\$ 280
	1 1/2	30	105	175	230	285	330	375	415	450
	2	60	160	250	325	400	460	520	570	620
	2 1/2	90	215	325	425	510	590	660	725	785
	3	115	270	400	520	625	720	805	885	955
	3 1/2	145	320	475	615	740	850	950	1,040	1,125
	4	175	375	550	710	850	975	1,090	1,195	1,290
	4 1/2	205	430	630	805	965	1,105	1,235	1,355	1,460
	5	230	485	705	900	1,075	1,235	1,380	1,510	1,630

### *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 chart below reflects an example of the incentives available.

<b>Rebate</b>	<b>Rate of Rebate</b>	<b>Square Footage</b>	<b>Total</b>
Ceiling Insulation Upgrade to R-38 or higher	\$0.03/sq. ft.	2,000	\$60
Heat Pump	Up to \$1,630	N/A	\$500
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 has been 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 \$2,500)
\$40,001–\$60,000	50% (not to exceed \$2,500)
Greater than \$60,000	Rebates only

- \$40,000 or less OUC will contribute 85 percent of the total cost (not to exceed \$2,500),
- \$40,001 to \$60,000 OUC will contribute 50 percent of the total cost (not to exceed \$2,500),
- 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 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 this program, OUC will arrange for a licensed, approved contractor

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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.

To be eligible for this program, the customer’s account must be in good credit standing with the exception of our low-income customers who are only required to have a current balance that is not delinquent. Some of the improvements covered under this program are included in the table below:

Air conditioner tune-up	Thermostat replacement	Minor plumbing repairs
Air filter replacement	Duct leak repairs	Toilet replacement
Attic insulation	Evaporator coil cleaning	Water flow restrictors
Smart Thermostats installation or thermostat replacement	Hot water pipe and air conditioner refrigerant line insulation	Blower Door Testing
Caulking and weatherstripping	Irrigation repairs	Window film insulation

The purpose of the 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 this 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 this program will 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 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 15.0 or higher. Customers will obtain a rebate in the form of a credit on their bill ranging up to \$1,630, depending upon the SEER 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.

	SEER	15	16	17	18	19	20	21	22	23
A / C Size (Tons)	1	\$ 5	\$ 55	\$ 95	\$ 135	\$ 170	\$ 205	\$ 230	\$ 260	\$ 280
	1 1/2	30	105	175	230	285	330	375	415	450
	2	60	160	250	325	400	460	520	570	620
	2 1/2	90	215	325	425	510	590	660	725	785
	3	115	270	400	520	625	720	805	885	955
	3 1/2	145	320	475	615	740	850	950	1,040	1,125
	4	175	375	550	710	850	975	1,090	1,195	1,290
	4 1/2	205	430	630	805	965	1,105	1,235	1,355	1,460
	5	230	485	705	900	1,075	1,235	1,380	1,510	1,630

#### *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.

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- \$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% on 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 2021 [i.e. summer and winter peak demand (kW) and annual energy (MWh) for residential and commercial/industrial customer classes].

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 2021 (with the number of surveys completed, by type, summarized below).

- Residential Energy Surveys – On-Site/Single Family Homes: 857
- Residential Energy Surveys – On-Site/Multi Family Homes: 372
- Residential Energy Surveys – Online: 5,626
- Commercial Energy Audits: 30

Since mid-March 2020, due to COVID-19, OUC has been performing modified energy and water audits for our customers. A modified audit means that for the safety of our customers and employees, the auditors are not entering the customer's home. However, for a majority of customers they will continue to visit the property but remain outside, where they can verify the meter and other information, and speak to the customer at a safe distance while wearing a mask. If needed, they can utilize video call tools such as FaceTime with the customer to direct the customer to perform tasks inside the home. The only instance where our auditors do not visit the property is for Chilled Water customers, since the meter and all equipment are located inside of their apartment/condo. For these customers, we are able to perform a phone or virtual audit using FaceTime in order to review their consumption concerns.

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.

Tables 3-6 through 3-19 present the annual demand and energy savings for the rebate programs offered by OUC during calendar year 2021 (as discussed in Order No. PSC-2020-0140-PAA-EG ) and as discussed in Section 2.0 of this report. Each table also includes the actual program costs and participation for 2021 and participation projections for years 2022 through 2024, unless otherwise noted. The utility costs associated with the programs have been updated based on actual costs incurred during calendar year 2021. 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 3-1 Comparison of Actual Conservation Reductions to FPSC’s Approved 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		200		190		720
2023		180		190		660
2024		160		160		570

<b>Table 3-2 Comparison of Actual Conservation Reductions to FPSC’s Approved 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		780		370		850
2023		740		390		820
2024		700		360		800

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<b>Table 3-3 Comparison of Actual Conservation Reductions to FPSC’s Approved 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		980		560		1,570
2023		920		580		1,480
2024		860		520		1,370

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<b>Table 3-4 2021 Program Winter Peak (kW), Summer Peak (kW), and Annual Energy (MWh) Reductions (at the Generator)</b>			
<b>Program</b>	<b>Winter Peak kW Reduction</b>	<b>Summer Peak kW Reduction</b>	<b>MWh Energy Reduction</b>
<b>Residential Programs</b>			
Duct Repair Rebates	10.0	11.6	18.6
Ceiling Insulation Upgrade Rebates	83.8	39.6	30.2
High Performance Windows Rebates	85.7	35.8	46.6
Efficient Electric Heat Pump Rebates	246.5	333.9	571.8
New Home Rebates	109.7	100.7	332.7
Efficiency Delivered	58.5	47.7	106.9
Heat Pump Water Heater Rebates	64.8	61.3	315.3
<b>Residential Programs Total</b>	<b>659</b>	<b>631</b>	<b>1,422</b>
<b>Commercial/Industrial Programs</b>			
Efficient Electric Heat Pump Rebates	2.4	3.1	5.4
Duct Repair Rebates	0.0	0.0	0.0
Ceiling Insulation Upgrade Rebates	38.1	18.0	13.7
Cool/Reflective Roof Rebates	0.0	202.3	1,068.3
Indoor Lighting Billed Solution	371.0	371.0	1,614.1
Indoor Lighting Rebates	1,014.9	1,014.9	5,675.5
Custom Incentive	249.6	249.6	2,970.8
<b>Commercial/Industrial Programs Total</b>	<b>1,676</b>	<b>1,859</b>	<b>11,330</b>
<b>Residential and Commercial/Industrial Programs Total</b>	<b>2,335</b>	<b>2,489</b>	<b>12,752</b>
Note: Totals may not add due to rounding.			

In addition to the residential and commercial 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 2021, OUC had 144 circuits of the total of 282 circuits under CVR control and savings of approximately 17,160,784 kWh annually.

- Power Plant Efficiency Improvements – During 2021, OUC continued to make investments in improving the energy efficiency at its generation facilities. The energy reduction realized in 2021 due to these efficiency improvements totaled 123,593,621 kWh.
- OUCooling Chilled Water District(s) Efficiency Improvements - OUCooling currently serves 50 customers and provides 49,753 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 25,391,686 kWh in 2021.

Table 3-5 provides a summary of the energy reductions realized by OUC in calendar year 2021 associated with conservation programs and efficiency improvements including the residential and commercial programs 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 percent of OUC's total calendar year 2021 retail sales.

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<b>Table 3-5 2021 Annual Energy (kWh) Reductions (at the Generator)</b>	
<b>Program</b>	<b>kWh Energy Reduction</b>
<b>Residential Programs</b>	
Duct Repair Rebates	18,577
Ceiling Insulation Upgrade Rebates	30,239
High Performance Windows Rebates	46,612
Efficient Electric Heat Pump Rebates	571,841
New Home Rebates	332,711
Efficiency Delivered	106,878
Heat Pump Water Heater Rebates	315,285
<b>Residential Programs Total</b>	<b>1,422,144</b>
<b>Commercial/Industrial Programs</b>	
Efficient Electric Heat Pump Rebates	5,362
Duct Repair Rebates	0
Ceiling Insulation Upgrade Rebates	13,745
Cool/Reflective Roof Rebates	1,068,276
Indoor Lighting Billed Solution	1,614,083
Indoor Lighting Rebates	5,657,450
Custom Incentive	2,970,844
<b>Commercial/Industrial Programs Total</b>	<b>11,329,760</b>
<b>Residential and Commercial/Industrial Programs Total</b>	<b>12,751,904</b>
<b>Non-PSC Programs</b>	
Energy Surveys (Res + Com)	1,089,825
Commercial - Window Film	86
Residential - Window Film	3,954
Residential - A/C Proper Sizing	109
Residential - Solar Thermal Water Heating	13,547
Behavior Reports	791,000
Pre-Paid PowerPass	8,230,140
<b>Sub-Total of Customer Facing Non- PSC Goal Programs</b>	<b>10,128,660</b>
<b>Total Customer Facing Energy Efficiency Programs</b>	<b>22,880,564</b>
<b>Non-Customer Facing Programs</b>	
Conservation Voltage Reduction (CVR)	17,160,784
Stanton Energy Center Energy Efficiency Improvements	123,593,621
OUCooling Chilled Water Operations	25,391,686
<b>Sub-Total of Non-Customer Facing Programs</b>	<b>166,146,091</b>
<b>Total of All Energy Efficiency Impacts</b>	<b>189,026,655</b>
<b>Total of All Energy Efficiency Impacts (% of 2021 Retail Sales)</b>	<b>2.78%</b>
Note: Totals may not add due to rounding.	

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Table 3-6. Residential Duct Repair Rebates

<b>Program Name:</b> Residential Duct Repair Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential Duct Repair Rebate	
<b>Reporting Period:</b> 2021	

  

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	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	235,417	13,654	29	87	0.6%				
2023	241,166	13,988	29	116	0.8%				
2024	246,876	14,319	29	145	1.0%				

  

<b>Eligibility Level</b>	5.8%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.21	0.21	11.16	11.60
Winter kW Reduction	0.18	0.19	9.62	10.00
kWh Reduction	331	344	17,880	18,577

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$200	\$10,813
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$74	\$3,974
Utility Recurring Rebate	\$0	\$0

  

Annual Benefits =  $B_{npv} \times d / [1 - (1-d)^n] = (\$5,979)$   
 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.*

Table 3-7. Residential Ceiling Insulation Rebates

<b>Program Name:</b> Residential Ceiling Insulation Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential Ceiling Insulation Rebate	
<b>Reporting Period:</b> 2021	

  

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	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	235,417	49,659	74	216	0.4%				
2023	241,166	50,872	76	292	0.6%				
2024	246,876	52,077	77	369	0.7%				

  

<b>Eligibility Level</b>	21.1%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.39	0.40	38.09	39.58
Winter kW Reduction	0.82	0.85	80.61	83.75
kWh Reduction	297	309	29,104	30,239

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$180	\$17,602
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$118	\$11,538
Utility Recurring Rebate	\$0	\$0

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$87,613)$   
 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 3-8. Residential High Performance Windows Rebates

<b>Program Name:</b> Residential High Performance Window Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential High Performance Window Rebate	
<b>Reporting Period:</b> 2021	

  

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	235,417	18,428	206	618	3.4%				
2023	241,166	18,878	206	824	4.4%				
2024	246,876	19,325	206	1,030	5.3%				

  

<b>Eligibility Level</b>	7.8%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.17	0.17	34.48	35.82
Winter kW Reduction	0.40	0.41	82.47	85.69
kWh Reduction	217	225	44,863	46,612

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$131	\$27,132
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$195	\$40,400
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

<b>Program Name:</b> Residential Heat Pump Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential Heat Pump Rebate	
<b>Reporting Period:</b> 2021	

  

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	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	235,417	8,083	1,078	3,234	40.0%				
2023	241,166	8,280	1,078	4,312	52.1%				
2024	246,876	8,476	1,078	5,390	63.6%				

  

<b>Eligibility Level</b>	3.4%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.29	0.30	321.33	333.86
Winter kW Reduction	0.21	0.22	237.23	246.48
kWh Reduction	495	514	550,376	571,841

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$299	\$332,858
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$298	\$331,390
Utility Recurring Rebate	\$0	\$0

  

Annual Benefits = $B_{npv} \times d / [1 - (1+d)^{-n}] =$	(\$212,061)	(\$717,964)	(\$292,707)	(\$305,071)	(\$230,518)	(\$123,817)	(\$28,182)	(\$18,969)
where:	(SEER 15)	(SEER 16)	(SEER 17)	(SEER 18)	(SEER 19)	(SEER 20)	(SEER 21)	(SEER 22+)

$B_{npv}$  = 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.*

Table 3-10. Residential New Home Rebates

<b>Program Name:</b> New Home Rebate (Formerly Gold Ring)	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> New Home Rebate (Formerly Gold Ring)	
<b>Reporting Period:</b> 2021	

  

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	235,417	4,148	116	348	8.4%				
2023	241,166	4,249	116	464	10.9%				
2024	246,876	4,350	116	580	13.3%				

  

<b>Eligibility Level</b>	1.8%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.53	0.55	96.95	100.73
Winter kW Reduction	0.57	0.60	105.62	109.74
kWh Reduction	1,740	1,808	320,222	332,711

  

Costs	Per Participant	Program Total
	Utility Nonrecurring Cost	\$1,053
Utility Recurring Cost	\$0.00	\$0
Utility Nonrecurring Rebate	\$595	\$109,408
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.*

Table 3-11. Residential Efficiency Delivered

<b>Program Name:</b> Residential Efficiency Delivered	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential Efficiency Delivered	
<b>Reporting Period:</b> 2021	

  

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	235,417	38,797	73	219	0.6%				
2023	241,166	39,744	73	292	0.7%				
2024	246,876	40,685	73	365	0.9%				

  

<b>Eligibility Level</b>	16.5%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.53	4,104.51	45.94	47.73
Winter kW Reduction	0.65	0.68	56.31	58.51
kWh Reduction	1,196	1,243	102,867	106,878

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$723	\$62,212
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$1,497	\$128,729
Utility Recurring Rebate	\$0	\$0

  

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.*



Table 3-12. Residential Heat Pump Water Heater Rebates

<b>Program Name:</b> Residential Heat Pump Water Heaters	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Residential Heat Pump Water Heaters	
<b>Reporting Period:</b> 2021	

  

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	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	235,417	4,551	182	546	12.00%				
2023	241,166	4,662	182	728	15.61%				
2024	246,876	4,773	182	910	19.07%				

  

<b>Eligibility Level</b>	1.9%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.30	0.31	58.95	61.25
Winter kW Reduction	0.32	0.33	62.32	64.75
kWh Reduction	1,548	1,609	303,451	315,285

  

Costs	Per Participant	Program Total
	Utility Nonrecurring Cost	\$936
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$446	\$87,500
Utility Recurring Rebate	\$0	\$0

  

Annual Benefits =  $B_{npv} \times d / [1 - (1+d)^{-n}] = (\$491,767)$   
 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.*

Table 3-13. Commercial Efficient Electric Heat Pump Rebates

<b>Program Name:</b> Commercial Heat Pump Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Commercial Heat Pump Rebate	
<b>Reporting Period:</b> 2021	

  

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	32,724	2,261	10	32	1.4%				
2023	33,008	2,280	9	41	1.8%				
2024	33,371	2,305	9	50	2.2%				

  

<b>Eligibility Level</b>	6.9%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.37	0.39	2.97	3.09
Winter kW Reduction	0.29	0.30	2.30	2.39
kWh Reduction	645	670	5,161	5,362

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$23	\$180
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$381	\$3,050
Utility Recurring Rebate	\$0	\$0

  

Annual Benefits = $B_{npv} \times d / [1 - (1+d)^{-n}] =$	(\$1,141)	(\$1,830)	(\$1,773)	(\$2,384)	(\$2,848)	(\$3,307)	(\$3,765)	(\$4,220)
where:	(SEER 15)	(SEER 16)	(SEER 17)	(SEER 18)	(SEER 19)	(SEER 20)	(SEER 21)	(SEER 22+)

$B_{npv}$  = 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.*

Table 3-14. Commercial Duct Repair Rebates

<b>Program Name:</b> Commercial Duct Repair Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Commercial Duct Repair Rebate	
<b>Reporting Period:</b> 2021	

  

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	32,724	1,912	4	12	0.6%				
2023	33,008	1,929	4	16	0.8%				
2024	33,371	1,950	4	20	1.0%				

  

<b>Eligibility Level</b>	5.8%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
kWh Reduction	0	0	0	0

  

Costs	Per Participant	Program Total
	Utility Nonrecurring Cost	\$0
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$0	\$0
Utility Recurring Rebate	\$0	\$0

  

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

Table 3-15. Commercial Ceiling Insulation Upgrade Rebates

<b>Program Name:</b> Commercial Ceiling Insulation Rebate	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Commercial Ceiling Insulation Rebate	
<b>Reporting Period:</b> 2021	

  

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	32,724	1,188	5	15	1.3%				
2023	33,008	1,198	5	20	1.7%				
2024	33,371	1,211	5	25	2.1%				

  

<b>Eligibility Level</b>	3.6%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	17.31	17.99	17.31	17.99
Winter kW Reduction	36.62	38.05	36.62	38.05
kWh Reduction	13,229	13,745	13,229	13,745

  

Costs	Per Participant	Program Total
	Utility Nonrecurring Cost	\$462
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$1,590	\$1,590
Utility Recurring Rebate	\$0	\$0

  

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.*

Table 3-16. Commercial Cool/Reflective Roof Rebates

<b>Program Name:</b> Commercial Cool / Reflective Roof Rebate									
<b>Program Start Date:</b> 2020 (for Reporting Purposes)									
<b>Measure:</b> Commercial Cool / Reflective Roof Rebate									
<b>Reporting Period:</b> 2021									

  

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	32,724	23,790	4	12	0.1%				
2023	33,008	23,997	4	16	0.1%				
2024	33,371	24,261	4	20	0.1%				

  

<b>Eligibility Level</b>	72.7%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	12.17	12.65	194.74	202.33
Winter kW Reduction	0.00	0.00	0.00	0.00
kWh Reduction	64,261	66,767	1,028,177	1,068,276

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$2,246	\$35,941
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$2,133	\$34,130
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.*

Table 3-17. Commercial Indoor Lighting Billed Solutions

<b>Program Name:</b> Commercial Indoor Lighting Billed Solution	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Commercial Indoor Lighting Billed Solution	
<b>Reporting Period:</b> 2021	

  

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	32,724	18,163	5	15	0.1%				
2023	33,008	18,321	5	20	0.1%				
2024	33,371	18,522	4	24	0.1%				

  

<b>Eligibility Level</b>	55.5%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	89.28	92.76	357.12	371.05
Winter kW Reduction	89.28	92.76	357.12	371.05
kWh Reduction	388,374	403,521	1,553,497	1,614,083

  

Costs	Per Participant	Program Total
	Utility Nonrecurring Cost	\$13,576
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	N/A	N/A
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.*

Table 3-18. Commercial Indoor Lighting Rebates

<b>Program Name:</b> Commercial Indoor Lighting Rebate									
<b>Program Start Date:</b> 2020 (for Reporting Purposes)									
<b>Measure:</b> Commercial Indoor Lighting Rebate									
<b>Reporting Period:</b> 2021									

  

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	32,724	21,907	15	47	0.2%				
2023	33,008	22,097	15	62	0.3%				
2024	33,371	22,340	14	76	0.3%				

  

<b>Eligibility Level</b>	66.9%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	34.89	36.25	976.78	1,014.88
Winter kW Reduction	34.89	36.25	976.78	1,014.88
kWh Reduction	194,468	202,052	5,445,091	5,657,450

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$6,798	\$190,339
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$3,599	\$100,761
Utility Recurring Rebate	\$0	\$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

<b>Program Name:</b> Commercial Custom Incentive	
<b>Program Start Date:</b> 2020 (for Reporting Purposes)	
<b>Measure:</b> Commercial Custom Incentive	
<b>Reporting Period:</b> 2021	

  

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	32,724	32,202	13	39	0.1%				
2023	33,008	32,481	12	51	0.2%				
2024	33,371	32,838	12	63	0.2%				

  

<b>Eligibility Level</b>	98.4%
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Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	9.24	9.60	240.19	249.56
Winter kW Reduction	9.24	9.60	240.19	249.56
kWh Reduction	109,974	114,263	2,859,330	2,970,844

  

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	\$3,844	\$99,951
Utility Recurring Cost	\$0	\$0
Utility Nonrecurring Rebate	\$8,388	\$218,080
Utility Recurring Rebate	\$0	\$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.*