

SAVE *your* WAY



Create your own Energy Efficiency Savings with OUC's Commercial & Industrial Custom Incentive Program

OVERVIEW

OUC is committed to helping your business become more energy efficient. We understand that every business is different and holds unique energy saving opportunities. That's why OUC has launched the new Commercial & Industrial Custom Incentive Program offering financial incentives to businesses that install energy efficient upgrades in their facilities. From lighting upgrades to refrigeration efficiency, you can create a plan to save the most for your business. Bring us your ideas, and we will help craft a plan to make things greener in your business and your bottom line.

This program also offers incentives for new construction projects that exceed minimum energy efficiency standards.

ELIGIBILITY

Participation is open to facilities located within OUC's service area that receive electric service under an OUC commercial rate.

Participants (Customers) may be any of the following:

- Individual customers who install measures in their own facilities
- National or local energy services companies
- Local contractors
- National or local companies that provide energy-related services or products (such as lighting or HVAC equipment)
- Commercial property developers
- Design/build firms
- Architectural and engineering firms

INCENTIVES

Customers receive incentives based on the reduction in peak demand their projects achieve. Demand savings incentives are paid for the maximum one-hour average demand reduction that occurs when the newly installed system is operating at peak conditions during the summer period.

- \$250 per kW reduction of Summer Demand defined as weekdays, between noon and 9 p.m., from April through October. Incentive will be paid upon a satisfactory pre and post OUC inspection and OUC's acceptance and approval of customer's submittal of Installation Report.
- Projects that consist of only lighting measures receive \$150/kW incentive.
- Incentive shall not exceed project cost.
- All incentives will be paid as a credit appearing on the Customer's OUC statement.
- A maximum incentive of \$50,000 per project and \$100,000 per customer annually.



THE PROCESS

Before work begins:

1. Prepare and submit a Project Application. You can download the application at: WWW.OUC.COM/SAVEYOURWAY
2. Schedule on-site inspection(s) and meeting(s) with OUC to review proposed project.
3. Work with OUC through the incentive funding commitment and approval process.
4. Receive OUC project approval and incentive funding commitment.
5. Perform any required pre-installation Measurement and Verification (M&V).

After work is complete:

1. Submit Installation Report
2. Perform post-installation M&V
3. Document the kW and kWh savings.
4. Schedule on-site inspection(s) by OUC to confirm installation and M&V results.

Obtain final approval from OUC and receive rebate in the form of a billing credit on OUC monthly statement



Project Requirements

A “project” is defined as the set of energy efficiency measures (and the associated demand and energy savings) proposed by a Customer on a single application. To be eligible, a project must meet the following requirements:

1. MEASURE ELIGIBILITY

With some exceptions¹, Customer may propose any measure that:

- Provides measurable and verifiable reductions in electric energy consumption and/or peak demand
- Produces savings through an increase in energy efficiency
- Has a useful life of at least 10 years (except for fluorescent lamps)
- Exceeds applicable minimum efficiency standards
- Meets all applicable permitting and code requirements

The following table lists some examples of the program’s approved energy efficiency measures.

End use	Pre-approved energy efficiency measure
Cooling	Packaged cooling unit replacement
	Chiller replacement
	Constant air volume to variable air volume conversion
	Air-side and water-side economizers
	Fan and pump variable-speed drive installations
	Fan and pump motor efficiency upgrades
Lighting	High efficiency fluorescent lighting (T-8s, T-5s)
	Lighting controls to reduce operating hours (in conjunction with lighting efficiency measures only)
	LEDs
Refrigeration	Air cooling and refrigeration compressor replacement projects
	Refrigerated case doors
Industrial Process	Variable-speed drive installations on industrial fans and pumps
	All motor-efficiency upgrade projects

¹While OUC reserves the right to deny any measure, **specifically excluded are projects that:**

- Involve plug loads (i.e., office equipment), except vending machines
- Involve self-generation or cogeneration (renewable technologies may be covered under a separate OUC program)
- Involve electric equipment with decoupled self-generation
- Rely on changes in Customer behavior and require no capital investment
- Result in negative environmental or health effects
- Involve fuel switching
- Involve non-permanent load shifting
- Involve power factor correction (OUC does not penalize, meter or bill kvar)
- Do not meet applicable permitting or code requirements
- Are lighting projects not in conformance with Illuminating Engineering Society standards
- Are eligible to receive incentives under any other energy efficiency program offered by OUC

Customers are encouraged to submit applications on any potential energy efficiency measure not specifically excluded from consideration.

2. BASELINES AND EFFICIENCY STANDARDS

OUC has designed the OUC Commercial & Industrial Custom Incentive Program to encourage electric energy efficiency improvements that go above and beyond the efficiency gains typically achieved in retrofit or replacement projects. Consequently, energy and demand savings credit is based only on reductions that exceed current state and federal minimum efficiency standards, wherever such standards apply (Example: Florida’s Energy Efficient Building Code Standards). In cases where these standards do not exist, savings credit is based on improvements relative to a customer’s energy use prior to participating in the program.

For new construction projects, the OUC Commercial & Industrial Custom Incentive Program requires the installation of equipment that is more efficient than is specified by code. Energy and demand savings will be based on efficiency improvements beyond the minimum efficiency required by code.



The Process

1. Prepare and submit a Project Application (PA).
 - a. Submit a project application including details of the proposed project:
 - i. Inventory and specifications of existing equipment to be replaced.
 - ii. Minimum specifications of equipment that would be required to be installed per Code requirements (if applicable).
 - iii. Inventory and specifications of the proposed new equipment.
 - iv. The sources of this information may include: specification sheets, nameplate data, efficiency ratings or other reliable documentation.
 - b. Include expected kW demand and kWh energy savings estimates from:
 - i. Existing equipment to Code compliant and,
 - ii. Code compliant equipment to proposed equipment to be installed
 - iii. Include documentation and calculations used to arrive at each kW and kWh savings estimate
 - c. Include a Measurement and Verification (M&V) plan describing specific procedures and calculations to be used to measure and verify kWh energy and kW demand savings. The larger the project, the more rigorous M&V process will be required (see M&V section). At a minimum, the M&V plan shall include:
 - i. Pre-installation M&V plan detailing existing conditions to establish basis of pre-retrofit energy use and demand, including wattage, hours of operation, operating conditions and other metrics that determine energy use and demand. (e.g. Independent variables such as weather data, occupancy, production statistics, etc.)
 - ii. Post-installation M&V plan detailing how the energy use and demand of the new equipment will be documented, measured and verified, including changes to wattage, hours of operation or other significant metrics.
 - d. Itemized costs for each measure.
 - e. Expected timeline of important milestones through completion date.
2. Schedule an on-site pre-inspection with OUC to review proposed project with customer and contractor. Pre-inspection visit will include verification of existing conditions, operating characteristics and performance metrics.
3. Work with OUC through the incentive funding commitment and approval process.
4. Receive OUC project approval and incentive funding commitment. (OUC will provide a signed copy of the PA acknowledging OUC's commitment to pay an incentive for completing the project as approved).
5. Customer performs and documents any required pre-installation M&V according to the approved plan. (It is recommended to coordinate with OUC if a pre-installation M&V inspection is required).
6. Customer provides pre-installation M&V results to OUC.
7. Customer installs the project, submits Installation Report, performs post-installation M&V and documents the kW and kWh savings.
 - a. The Customer will submit an Installation Report giving details about installed equipment.
 - b. Customer performs the post-installation M&V—as outlined in the M&V plan submitted and approved in the PA—and submits the report to OUC that includes all of the documentation necessary to support the associated savings from the project. The savings shall be separated into two categories:
 - i. Existing equipment compared to baseline equipment or current Building Code
 - ii. Baseline equipment compared to installed equipment
 - c. If the project is not completed within 12 months after the application receives OUC approval, the Customer must resubmit the PA for re-approval of incentive funding.
8. Customer schedules an on-site inspection(s) for OUC to confirm installation and M&V results.
9. Upon OUC approval, the incentive will be paid through a credit on the Customer's monthly statement.



Download a project application online at:
WWW.OUC.COM/SAVEYOURWAY

Measurement & Verification

In the OUC Commercial & Industrial Custom Incentive Program, Customers are responsible for planning and conducting all the M&V activities associated with their projects. They are required to submit, as part of the PA, an M&V plan that describes the specific activities, tools and calculations the Customer intends to use to determine the project's actual savings.

This section provides guidelines and instructions to help Customers develop their M&V plans. Also discussed are the site inspections that OUC conducts during the program process to verify project site conditions as demonstrated by the Customer.

MEASURE-SPECIFIC M&V APPROACHES

M&V procedures will vary in detail and rigor depending on the measures installed. For each installed measure, the chosen procedures will depend upon the predictability of equipment operation, the availability of evaluation data from previous programs, and the benefits of the chosen M&V approach.

Project specific M&V procedures may be classified according to three distinct approaches that represent increasing levels of detail and rigor:

Deemed Savings: Savings values are estimated based on engineering calculations using typical equipment characteristics and operating schedules developed for particular applications, with no or limited on-site testing or metering. This approach is designed for use with some lighting efficiency and controls projects, some cooling equipment projects, and some motor replacement projects.

Simple M&V: Savings values are based on engineering calculations using typical equipment characteristics and operating schedules developed for particular applications, with some short-term testing or simple long-term metering. For example, chiller energy and demand savings can be determined by comparing rated efficiencies of high-efficiency equipment to standard equipment, and using kW spot-metering and simple long-term kWh metering.

Full M&V: Savings are estimated using a more detailed method than in the deemed savings or simple M&V approaches through the application of metering, billing analysis or computer simulation. These methods will need to be developed in accordance with the 2010 International Performance Measurement and Verification Protocol (IPMVP), which represents the starting point for industry practice or a similar M&V methodology accepted and approved by OUC.

M&V APPROACH GUIDELINES

While Customer supplied documentation must sufficiently support kW and kWh savings, specific M&V approaches may be required for individual energy saving projects. OUC anticipates the required level of measurement for most projects will be proportional to the size of the project and recommends customers initially approach their M&V plans given the following parameters:

Deemed Savings for projects 20kW or less

Simple M&V for projects saving between 21 and 100 kW

Full M&V for projects saving in excess of 100 kW

M&V PLAN COMPONENTS

Customer should work with OUC to develop an M&V plan that is appropriate for their project.

The M&V plan describes the potential for the project to achieve demand and energy savings and describes the specific activities the Customer intends to perform to determine those savings.

In general, a project-specific M&V plan should:*

1. Describe the project site and the project and include information on how the project saves energy and the key variables that affect the realization of savings.
2. Describe the M&V approach to be used.
3. Indicate who will conduct the M&V activities and prepare the M&V analyses and documentation.
4. Define the details of how calculations will be made. List analysis tools, and/or show the equations to be used. A complete "path" should be defined indicating how collected survey and metering/monitoring data will be used to calculate savings.
5. If applicable, specify what metering equipment will be used, who will provide the equipment, its accuracy and calibration procedures. Include a metering schedule describing metering duration and when it will occur, and how data from the metering will be validated and reported. Include data formats. Electronic, formatted data read directly from a meter or data logger is recommended for any short- or long-term metering.
6. Define what key assumptions will be made about significant variables or unknowns. For instance: "actual weather data will be used, rather than typical-year data;" or "fan power will be metered for one full year for two of the six supply air systems." Describe any stipulations that will be made and the source of data for the stipulations.
7. Define how any baseline adjustments will be made.
8. Describe any sampling that will be used, why it is included, sample sizes, documentation on how sample sizes were selected, and information on how random sample points will be selected.
9. Indicate how quality assurance will be maintained and replication confirmed. For instance, "The data being collected will be checked every month;" or "to ensure sufficient accuracy, results will be subjected to third-party review by the ABC company."

* This list is from the International Performance Measurement and Verification Protocol (IPMVP).



Site Inspections

PRE-INSTALLATION INSPECTION

OUC will contact the Contractor and complete the pre-inspection within 30 days of the receipt of a complete PA. The purpose of this inspection is to verify the following:

- The accuracy of the equipment survey. For most measures, the accuracy of the equipment quantity and nameplate information is verified. For lighting measures, the requirement for acceptance is that the installed demand of the sample must be within +/- 5 percent of the total demand submitted on the survey form.
- The M&V plan is appropriate for the measure, and the necessary M&V activities are being performed.
- All existing equipment listed in the PA is still in place and operational.
- New equipment installation, or preparation for installation, has not begun.

For both inspections, the presence of at least one representative from the Contractor and Customer familiar with the project and with the facility is required. When electrical measurements are necessary, the Contractor or Customer is required to perform any necessary disruptions in equipment operation, the opening of any electrical connection boxes or the connection of current and power transducers, and acquire the required measurements in the presence of an OUC representative.

If an inspection cannot be completed in a timely manner because the representative is unfamiliar with the facility or project, the project will fail the inspection. A project has two chances to pass each type of inspection (pre or post). After failing two inspections, the Customer must pay the cost incurred by OUC for performing additional inspections of that type.

POST-INSTALLATION INSPECTION

This inspection, conducted by OUC within 30 days of receipt of a complete Installation Report, verifies the following:

- The installation of the equipment specified in the approved PA. For most measures, the accuracy of the equipment quantity and nameplate information is verified. For lighting measures, the requirement for acceptance is that the installed demand of the sample must be within +/- 5 percent of the total demand submitted on the survey form.
- The M&V plan is being followed in accordance with the approved PA.

