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Energy Efficiency / Demand Response Plan: Plan Year 3 (6/1/2010-5/31/2011)

Evaluation Report: Public Sector Electric Efficiency Standard Incentives Program

Presented to

The Illinois Department of Commerce and Economic Opportunity

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Presented by

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Executive Summary

E.1. Evaluation Objectives

The goal of this report is to present a summary of the findings and results from the evaluation of the Program Year 3 (PY3) Standard Incentives program.[1] The primary objectives of this evaluation are to quantify gross and net savings impacts and to determine key process-related program strengths and weaknesses and identify ways in which the program can be improved.

Under the Illinois Energy Efficiency Portfolio Standard (EEPS), the Illinois Department of Commerce and Economic Opportunity (DCEO) administers the Illinois Energy Now (IEN) Public Sector Energy Efficiency program (PSEE)[2] program that provides incentives for public sector customers of ComEd and Ameren Illinois Utilities who upgrade their facilities with energy efficient equipment. There were two specific program elements that were available to customers during the program year: a Custom Incentives program and a Standard Incentives program.

- The Standard program provides an expedited application approach for public sector customers interested in purchasing efficient technologies. The program targets discrete retrofit and replacement opportunities in lighting, LED traffic signals, HVAC, motor, and refrigeration equipment. A streamlined incentive application and quality control process is intended to facilitate ease of participation.
- Custom program incentives are available to customers for less common or more complex energy-saving measures installed in qualified retrofit and equipment replacement projects.

Some tasks within the Standard and Custom program evaluations involved close coordination between the two efforts, but the evaluations were otherwise conducted through separate approaches. The Standard and Custom programs have evaluation results reported separately.

E.2. Evaluation Methods

The key evaluation activities to assess gross and net impacts of the Standard program were:

Reviewed tracking data and default savings assumptions used by the program.

[1] The Program Year 3 (PY3) program year began June 1, 2010 and ended May 31, 2011.

[2] The portfolio of programs has been branded as Illinois Energy Now and the former Public Service "Electric" Efficiency program was renamed to "Energy" because natural gas measures are added to the program for PY4.

Implemented a stratified random sampling design on the population of 449 Standard project applications with three project-size strata of roughly equal ex ante energy savings allocations. Conducted a random selection of 52 projects that included all eight of the projects in the large-project stratum, 14 of 40 projects in the medium-sized project strata, and 30 of 401 of the smallest-sized projects. The sample covered 50% of PY3 Standard energy savings claimed.

Conducted on-site visits and measurement and verification (M&V) activities on a sample of 25 Standard projects selected from the 52 projects to support gross impact evaluation. An engineering review of project files and reported energy savings was conducted on the remaining 27 projects from the sample of 52 projects. The on-site M&V was targeted to larger and more complex projects. The on-site M&V sample covered 88% of sampled energy savings, and 44% of total PY3 Standard energy savings claimed.

Completed computer assisted telephone interviews (CATI) with 78 contacts that implemented Standard projects to support net-to-gross analysis. The Standard interviews were supplemented by an additional 14 Custom program interviews with project contacts that had combined Custom and Standard projects and reported a single decision making process was used for both measure types.

Questions in the CATI survey were asked regarding lighting hours of use, but responses were only considered for gross impact adjustments for projects in the engineering review sample.

Four research activities were conducted in support of the process evaluation: (1) interviews with program staff, (2) a quantitative telephone survey with 77 participating customers, (3) qualitative telephone interviews with 10 participating customers focused on the procurement process, and (4) qualitative telephone interviews with five program drop-outs. These activities are further described in the main report.

The data collection and analyses for impact and process evaluation was conducted at the state-level. Energy impacts for the program are reported statewide in the main body of this report, and separately for the ComEd and Ameren Illinois Utilities in Appendix 5.2. The process results report statewide data.

Evaluation review of energy savings reported through the Smart Energy Design Assistance Program (SEDAP) are described in Appendix 5.5.

E.3. Key Findings

E.3.1. Standard Program Impact Results

As shown in Table ES-1, the PY3 Standard evaluation found that verified gross energy savings were 9 percent higher than savings in DCEO's tracking system, as indicated by the realization rate (realization rate = verified gross / tracking system gross). The PY3 realization rate of 1.09

compares with an estimated value of 1.27 in PY2. The verified net-to-gross ratio (NTGR) of 0.66 estimated for PY3 compares with a value of 0.75 estimated in PY2.

Table ES-1. Program-Level Evaluation-Adjusted Net kWh Impacts for PY3

Segment	Ex Ante Gross kWh	Ex Post Gross kWh	kWh RR	Ex Post Net kWh	NTGR (ex post gross)
Standard	53,634,742	58,328,889	1.09	38,236,880	0.66

Source: Analysis of tracking savings from DCEO tracking system, September 7, 2011. The values displayed for RR and NTGR are rounded.

The relative precision at a 90% confidence level for the Standard projects in the sample is ±7% for the kWh realization rate. The relative precision at a 90% confidence level for the program NTG ratio is ± 7%.

The primary factor that raised the Standard energy realization to 1.09 was a common finding, through on-site verification and telephone interviews, of longer hours of use than assumed in the default savings. Factors that lowered realization rates on individual projects were adjustments to quantities installed, and adjustments to savings based on installed and baseline equipment performance relative to default assumptions. Findings of lower hours of use than default values lowered the realization rates on some projects. A large proportion of PY3 program savings was for traffic signal projects, including 36% of overall program reported savings with the City of Chicago, and these projects were not subject to hours of use adjustments.

The primary difference in overall net-to-gross ratios between PY2 and PY3 was that larger PY3 projects had lower NTG ratios than in PY2. In PY3, some large projects had quite low NTG ratios, and a substantial fraction had results in the 0.60 to 0.65 range.

Table ES-2 below provides an overview of planned, reported ex ante, and evaluation-adjusted net savings impacts for the combined PY3 Standard and Custom programs.

Table ES-2. Comparison of Sector Electric Efficiency Program Net Savings

Net Savings Estimates	Standard MWH	Custom MWH	Combined MWH
DCEO PY3 Plan Target	128,821	20,000	148,821
DCEO Reported for PY3 (ex ante net)	42,908	21,471	64,379
Total PY3 Third-Year Evaluation-Adjusted Net Savings (ex post net)	38,237	15,477	53,714

Source: Plan target from Direct Testimony of Jonathan Feipel, DCEO, Docket No. 07-0541, Exhibit 1.2, November 15, 2007. DCEO's planned and reported net savings include a net-to-gross ratio of 0.8.

The PY3 evaluation-adjusted net savings of 38,237 MWH for Standard and 53,714 MWH for the Custom and Standard programs compares with the PY2 evaluation-adjusted net savings of 29,220 MWH for Standard and 43,191 MWH for the combined Custom and Standard programs. The PY3 ex post net savings for the Custom and Standard programs of 53,714 MWH is 0.58% of estimated 9,271,325 MWH non-low income public sector base usage.[3]

E.3.2. SEDAP Impact Results

In PY3, a pilot effort within the Standard program evaluation was made to quantify energy savings implemented as a result of technical services provided by the Smart Energy Design Assistance Center (SEDAC) through the Smart Energy Design Assistance Program (SEDAP). The evaluation assessment was conducted to identify savings resulting from SEDAC services that have not been claimed through incentive programs operated by DCEO, ComEd, or Ameren Illinois. Details of the data provided by SEDAC to support the claimed savings and evaluation analysis are provided in Appendix 5.5.

Based on desk-review of SEDAC tracking data, our evaluation assessment concluded SEDAP is generating energy savings that are not being claimed by other programs. The measures recommended through SEDAP include equipment retrofits and operational improvements. The measures we believe are not being claimed by other programs include equipment retrofits that are not eligible for prescriptive or custom rebates, and operational improvements. The implementation of savings is estimated by SEDAC staff from a structured protocol of regular follow-up with service recipients who identify progress on implementing audit report recommendations. The tracking records suggest that SEDAC staff is effective at steering

[3] Communication from David Baker, DCEO, December 6, 2010 indicating public sector usage of 9,271,325 MWh for non-low income public sector energy consumption.

technical service recipients to ComEd, Ameren Illinois, and DCEO programs for incentives on eligible measures.

Our evaluation review consisted of reviewing SEDAC measure-level tracking data for each of the 40 projects with PY3 service recipients who reported completing or starting measure implementation. Where recipients had reported completing the measure implementation process, we could identify measures assignable as unclaimed SEDAP savings from measures that had been submitted for EEPs incentives. Only a small portion of savings potentially assignable to SEDAP fell into this category. The bulk of potential SEDAP claimable savings implemented by service recipients could not be separated and verified at the measure level from savings potentially claimed by an EEPs incentive program because action on recommendations were partially implemented and still ongoing. Verification would require project documentation review and site-specific data collection by the evaluation team once the SEDAP participant had concluded work on the audit recommendations. Table ES-3 provides a summary of our assessment of SEDAC tracking data.

The 146,813 kWh of desk review verified savings from SEDAP in PY3 shown in Table ES-3 consists only of savings resulting from technical services provided during PY3. A second block of PY3 implemented energy savings totaling 1,375,147 kWh was identified by SEDAC as measures that had participated in an EEP's incentive program. The third and largest category PY3 implemented energy savings totaling 2,692,674 kWh involved projects where the contact had indicated implementation was in-progress. Although some measures had been implemented, we could not verify from the data how much of the savings to assign to SEDAP versus measures that could be counted toward EEPs. On some projects, additional detail from SEDAC to provide implemented savings on a measure level would allow us to categorize measures as either SEDAP claimable or EEPs even if work was still ongoing at the facility. In other cases, we would need to wait until EEPs eligible work at the facility had been completed in order to make a determination due to the complexity of the project and potential for measure interactions.

Our review of SEDAP tracking data indicated that approximately 21,502 MWh of energy savings measures from SEDAP services provided during PY1 and PY2 were reported implemented by the end of PY3. It was not possible to quantify SEDAP claimable savings for PY3 from services provided in PY1 and PY2 from the data. It may be possible to quantify implemented savings from prior year's technical services through site-specific data collection.

Table ES-3. Verified and Potential Energy Savings Claimable through SEDAP Services

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	7	1,375,147		-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	10	-	146,813	-	905,554
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	3	113,852	-	-	1,001,609
PY3 Implementation in-progress	20	444,448	-	2,692,674	4,936,020
SEDAP PY3 services provided, implementation not begun	139				30,161,029
Subtotal, All SEDAP PY3 services	**179**	**1,933,447**	**146,813**	**2,692,674**	**37,004,212**
Subtotal, All SEDAP PY1 and PY2 services	**342**			**21,502,357**	**82,698,391**
Total, All SEDAP services, PY1 through PY3	**521**	**1,933,447**	**146,813**	**24,195,031**	**119,702,603**

Source: Evaluation analysis of tracking data provided by SEDAC Based on our desk review of SEDAC tracking data, measure savings claimable for SEDAP are similar to those implemented through the retrocommissioning program offered by DCEO. To estimate the size of potential net savings from SEDAC services, we recommend the gross energy realization rate (0.795) and net-to-gross ratio (0.98) from the PY3 Retrocommissioning evaluation be applied to evaluation verified savings. Applying these ratios to the 146,813 kWh of evaluation verified gross ex ante

savings for SEDAP yields 114,382 kWh of verified net savings that could be claimed for SEDAP in PY3. With additional measure-level savings data from SEDAC and site verification by evaluators on a sample of the 2,692,674 kWh recommended and implemented in PY3 plus PY3 implementation from prior years' services, the evaluation verified savings for SEDAP in PY3 could be much higher.

E.3.3. Key Impact Findings and Recommendations

Specific recommendations to consider include:

During PY4, DCEO should consider working with the evaluation team to ensure that statewide technical reference manual development provides additional building types or modifications to existing building types that would be beneficial for reporting energy savings. Although the current set of building types work reasonably well, they were developed by ComEd for commercial businesses and not specifically designed for public building types. After three years of Standard program operation and evaluation cycles, plus work conducted by SEDAC, a substantial set of site collected data is available. The evaluation team has compiled observations from field verification and telephone survey work and can provide additional analysis.

During PY4, prior to closing out year-end ex ante savings estimates, DCEO should consider working with the evaluation team to review default values and ex ante savings calculation outputs to ensure that tracking system output matches values expected by the evaluators. The evaluation team can review default lookup values coded into the tracking system and check the values against the default values documentation, and advise DCEO on any differences. The evaluation team could also review the output of ex ante calculations as ongoing changes are made in the tracking system.

DCEO should consider working with the evaluation team to facilitate evaluation analysis and reporting of measure-level impact results. The tracking system stores project data at the measure level, however, the evaluation team was not able to produce measure level impacts from tracking data extracts provided by DCEO for the PY3 evaluation. If the evaluation team could extract measure-level savings information it would facilitate savings verification analysis and allow the evaluation team to provide greater detail to reporting.

DCEO should consider additional quality assurance and quality control steps to verify the unit basis and quantities entered into the tracking system. As a general qualitative finding, DCEO was quite accurate on measure quantities claimed, with a common finding being exact or within one or two percent on sampled projects. This is commendable given that some Standard projects have quantity counts that number in the hundreds and thousands. There were instances where projects had recorded the wrong units when recording savings, either recording lamps when the correct unit was an entire fixture, or recording a fixture count when

the unit required was lamps. The new tracking system may allow for enhanced checking or alerts regarding individual measure entries.

DCEO should consider additional quality assurance and quality control steps to verify the eligibility requirements on measure types with complex requirements. As a general qualitative finding, equipment was eligible for the measure assigned. Within our sample, there was an instance of a high performance T8 lamp and ballast installation not meeting the baseline and ballast requirements, and a project with HVAC measures that did not qualify. The new tracking system may allow for enhanced checking, flags, or alerts regarding individual measure entries.

DCEO should consider strategies to increase participation of smaller projects. Projects in the small-size stratum, with savings under 200,000 kWh, had higher gross realization rates and net-to-gross ratios than larger projects, on average.

DCEO should continue strategies to increase participation of fluorescent lighting projects tied to pending Federal fluorescent lighting standards. Open-ended interview responses indicated a concern for the future availability of T12 and standard T8 lamps and this was a motivating factor in some projects. This is an important topic to address in ongoing marketing and outreach efforts.

E.3.4. Key Process Finding and Recommendations

Participants are very satisfied with the Standard Program: More than 90% of participants are satisfied with DCEO overall, the program overall, staff communications, and the incentive level. Satisfaction with the incentive amount is higher in PY3 compared to PY1, reflecting the increasing incentive levels since program inception. Specific recommendations to consider include:

Program Participation

DCEO should consider special offerings for sectors with limited participation but high savings potential. Hard-to-engage sectors with high savings potential might benefit from specific offerings to encourage more participation. This could include limited-time offerings or a bonus incentive for projects exceeding a certain size. The increase in incentive levels for non-carve out entities[4] (universities and State and Federal governments) in PY4 should help in increasing participation among these sectors.

DCEO should continue the development of database functionalities to make it a more useful program management and evaluation tool. While the database has allowed staff to be more

[4] A "carve out" group was developed by DCEO in PY3. This group (local governments, K-12 schools, and community colleges) received higher incentive levels than federal and state governments, and universities.

efficient in a number of ways, it is not yet developed and used to its fullest potential as a management tool. The program should continue to make database improvements and provide ongoing user training to program staff and any partners who might use it in the future. DCEO has noted that they have recently provided training to SEDAC, the Energy Resources Center and several other partners on use of the DCEO database. Partners that administer programs on their behalf or conduct site visits are using the DCEO database in PY4.

Program Partnerships

DCEO should be aware that participation by projects that also receive significant funding from other public sources has the potential to result in higher free-ridership in the DCEO program. Although the savings weighted-average free-ridership on co-funded projects in PY3 was not higher than the mean value for the overall program, co-funding has the potential to increase DCEO free-ridership scores if participants assign relatively more influence to the other co-funding sources.

Trade Allies

Development of a program-specific trade ally network is well-warranted, and DCEO should consider recruiting trade allies capable of helping at the project design stage, so that the trade allies have an opportunity to promote energy efficiency and participation in the PSEE program to public sector entities. Based on our procurement process interviews, trade allies are often involved at the project specifications stage and then again at the implementation stage. While trade allies have influence over the energy efficiency of equipment at the former stage, they rarely do at the latter stage since project details have already been determined. In future promotions the program should continue to leverage trade ally involvement as a key channel to inform participants. DCEO reports that activity on this recommendation is underway, with the Energy Resources Center and SEDAC developing a trade ally program for DCEO.

Consider providing additional resources to help potential applicants connect with technical expertise. While SEDAC already provides technical assistance, a program-specific trade ally network could help connect applicants with qualified technical support. Outreach materials should emphasize these resources.

Marketing and Outreach

The program should consider developing short sector-specific case studies or fact sheets that provide examples of potential savings. This might be a useful tool for facility managers when seeking approval for energy efficiency upgrades. While the increased PY4 incentive level will help reduce financial barriers for non-carve out sectors, the upfront cost of energy efficient equipment is likely to remain a barrier to participation for many public sector entities. However, this barrier might be reduced if prospective participants had more collateral that

demonstrates the savings that can be expected from the installation of energy efficient equipment.

Program Drop-outs

DCEO should continue making regular requests of periodic status updates from applicants. Requesting status updates throughout the year will allow program staff to remain connected with applicants and potentially help them by suggesting resources or clarifying points of confusion. DCEO reports that using the email addresses in the database, they did two mass mailings in 2011, in February and April, to all grantees that had not completed their projects to determine their status and remind them of deadlines.

DCEO should consider enacting a follow up process with program drop-outs in the future if the number drop outs increases. At this time, there are very few drop-outs that do not re-apply the following year. If drop-outs increase, following up with these applicants and informing them about PSEE opportunities might result in additional project applications.

E.4. Cost Effectiveness

Cost effectiveness is assessed through the use of the Illinois Total Resource Cost (TRC) test. Table ES-4 summarizes the unique inputs used to calculate the TRC ratio for the Public Sector Electric Efficiency Standard Incentives Program in PY3. Most of the unique inputs come directly from the evaluation results presented in this report. Measure life estimates were based on similar ComEd programs, third party sources including the California Public Utilities Commission (CPUC) developed Database of Energy Efficiency Resources (DEER) and previous Navigant evaluation experience with similar programs. Program costs data came directly from DCEO. Incremental costs were estimated from program, survey data and similar ComEd programs. Avoided cost data came from both ComEd and Ameren and are the same for all programs.

Table ES-4. Inputs to TRC Model for Public Sector Electric Efficiency Standard Incentives Program

Item	Value Used
Measure Life	12 years
Participants	449[5]
Annual Gross Energy Savings	58,329 MWh
Gross Coincident Peak Savings	8.58 MW
Net-to-Gross Ratio	66%
DCEO Administration and Implementation Costs	$533,848
DCEO Incentive Costs	$13,176,441
Net Participant Costs	$14,695,870

Based on these inputs, the Illinois societal TRC for this program is 1.19 and the program passes the Illinois TRC test.

[5] 449 projects conducted by 305 organizations

Section 1. Introduction to the Program

This evaluation report covers the Standard Incentives program element of the PY3 Public Sector Electric Efficiency incentive program.[6]

1.1 Program Description

In PY3, the Illinois Department of Commerce and Economic Opportunity (DCEO) Public Sector Electric Efficiency program provided incentives for public sector customers of ComEd and Ameren Illinois Utilities who upgrade their facilities with energy efficient electric equipment. There were two specific program elements that were available to customers during the program year: a Custom Incentives program and a Standard Incentives program.

- The Standard Incentives program provides an expedited application approach for public sector entities interested in purchasing efficient technologies. The program targets discrete retrofit and replacement opportunities in lighting, HVAC, motor, and refrigeration equipment. A streamlined incentive application and quality control process is intended to facilitate ease of participation. The measure list matched ComEd, except that DCEO offered incentives for LED traffic signals.
- Custom program incentives are available to customers for less common or more complex energy-saving measures installed in qualified retrofit and equipment replacement projects.

DCEO uses internal staff to manage, implement, and administer the program. Technical assistance is provided as needed with the assistance of the Smart Energy Design Assistance Center (SEDAC). A detailed discussion of the program design and operation is provided in the process evaluation findings of Section 3.2.

The net MWh savings goals and budgets for the Standard Incentives program, as included in the Three-Year Plan approved by the Illinois Commerce Commission, are presented in Table 1-1 for PY3.

[6] The portfolio of programs has been branded as Illinois Energy Now and the former Public Service "Electric" Efficiency program was renamed to "Energy" for PY4 because natural gas measures are added to the program.

Table 1-1. Public Sector Electric Efficiency Standard PY3 Planned Savings Goals and Budgets

Utility	Plan Target Net MWh	Plan Target Net MW	Plan Target Total Cost
ComEd	94,954	27.1	$14,679 million
Ameren	33,867	9.7	$5,194 million
Total	128,821	36.7	$19,873 million

Source: Direct Testimony of Jonathan Feipel, DCEO, Docket No. 07-0541, Exhibit 1.2, November 15, 2007.

DCEO operates the PSEE program with a joint goal for energy savings that combines Standard and Custom program results, not as separate goals for each program. The combined Standard and Custom goal for PSEE net energy savings is 148,821 MWh, which includes 20,000 MWh for Custom.

1.2 Evaluation Questions

The evaluation sought to answer the following key researchable questions.

The impact evaluation questions focused on the following key areas:

1. What are the gross impacts from this program?
2. What are the net impacts from this program?
3. Did the program meet its energy goals? If not, why not?
4. What is the program's benefit-cost ratio using the Illinois TRC test?

The process evaluation questions focused on the following topics:

1. Program participation
2. Program design and implementation
3. Program partnerships
4. Trade allies
5. Marketing and outreach
6. Barriers to participation
7. Program drop-outs
8. Public sector procurement process
9. Participant satisfaction

The full list of researchable questions can be found in the Evaluation Plan.

Section 2. Evaluation Methods

The key evaluation activities to assess gross and net impacts of the Standard program were:

Reviewed tracking data and default savings assumptions used by the program.

Implemented a stratified random sampling design on the population of 449 Standard project applications with three project size strata of roughly equal ex ante energy savings allocation. Conducted a random selection of 52 projects that included all eight of the projects in the large-project stratum, 14 of 40 projects in the medium-sized project strata, and 30 of 401 of the smallest-sized projects. The sample covered 50% of PY3 Standard energy savings claimed.

Conducted on-site visits and measurement and verification (M&V) activities on a sample of 25 Standard projects selected from the 52 projects to support gross impact evaluation. An engineering review of project files and reported energy savings was conducted on the remaining 27 projects from the sample of 52 projects. The on-site M&V was targeted to larger and more complex projects. The on-site M&V sample covered 88% of sampled energy savings, and 44% of total PY3 Standard energy savings claimed.

Completed computer assisted telephone interviews (CATI) with 78 contacts that implemented Standard projects to support net-to-gross analysis. The Standard interviews were supplemented by an additional 14 Custom program interviews with project contacts that had combined Custom and Standard projects and reported a single decision making process was used for both measure types.

Questions in the CATI survey were asked regarding lighting hours of use, but responses were only considered for gross impact adjustments for projects in the engineering review sample.

Four research activities were conducted in support of the process evaluation: (1) interviews with program staff, (2) a quantitative telephone survey with 77 participating customers, (3) qualitative telephone interviews with 10 participating customers focused on the procurement process, and (4) qualitative telephone interviews with five program drop-outs. These activities are further described in Section 3.2.

The data collection and analyses for impact and process evaluation was conducted at the state-level. Energy impacts for the program are reported statewide in the main body of this report, and separately for the ComEd and Ameren Illinois Utilities in Appendix 5.2. The process results report statewide data.

The sections that follow provide a summary of the analytical methods deployed, while full details may be found in Appendix 5.3.

2.1 *Analytical Methods*

2.1.1 Impact Evaluation Methods

Gross Program Savings

The objective of this element of the impact evaluation is to verify the accuracy of the PY3 ex ante gross savings estimates in the Standard program tracking system. The savings reported in DCEO's tracking system were evaluated using the following steps:

1. Engineering review at the measure-level for a sample of 52 project files, with the following subcomponents:
    a. Engineering review and analysis of measure savings based on project documentation, default assumptions, and tracking data.
    b. Review and application (if appropriate) of participant telephone survey impact data (reported hours of use) to projects in the engineering review sample.
    c. On-site verification audits at 25 project sites selected from the sample of 52 projects. Performance measurements included spot measurements and run-time hour data logging for selected measures. On-site data collection was conducted in the July through September period.
    d. Calculation of a verified gross savings value (kWh) for each project within the sample, based on measure-level engineering analysis.
2. Carry out a quality control review of the ex post impact estimates and the associated draft site reports and implement any necessary revisions.

A verified gross realization rate (which is the ratio of the ex post gross savings-to-reported tracking savings) was then estimated for the sample, by sampling stratum, and applied to the population of reported tracking savings, using sampling-based approaches that are described in greater detail in Sections 2 and 3 below. The result is an ex post estimate of gross savings for the Standard program.

Net Program Savings

After gross program impacts have been assessed, net program impacts are derived by estimating a Net-to-Gross (NTG) ratio that quantifies the percentage of the gross program impacts that can be reliably attributed to the program.

For PY3, the net program impacts were quantified from the estimated level of free-ridership. Quantifying free-ridership requires estimating what would have happened in the absence of the program. A customer self-report method, based on data gathered during participant telephone interviews, was used to estimate the free-ridership for this evaluation. The existence of participant spillover was qualitatively examined by identifying spillover candidates through

questions asked in the participant interviews. If response data provides sufficient detail to quantify participant spillover, those impacts are estimated.

Once free-ridership and participant spillover has been estimated the Net-to-Gross (NTG) ratio is calculated as follows:

NTG Ratio = 1 – Free-ridership Rate + Participant Spillover

Free ridership was assessed following a framework that was developed for evaluating net savings of California's 2006-2008 nonresidential energy efficiency programs. This method calculates free-ridership using data collected during participant telephone interviews concerning the following three items:

A **Timing and Selection** score that reflected the influence of the most important of various program and program-related elements in the customer's decision to select the specific program measure at this time.

A **Program Influence** score that captured the perceived importance of the program (whether rebate, recommendation, or other program intervention) relative to non-program factors in the decision to implement the specific measure that was eventually adopted or installed. This score is cut in half if they learned about the program after they decided to implement the measures *and* funds were committed before learning about the program (if funds were not committed, the program received full credit).

A **No-Program** score that captures the likelihood of various actions the customer might have taken at this time and in the future if the program had not been available. This score accounts for deferred free ridership by incorporating the likelihood that the customer would have installed program-qualifying measures at a later date if the program had not been available.

Interviews with Standard project contacts were supplemented by interviews with project contacts that had combined Custom and Standard projects and reported a single decision making process. For projects that receive greater program funding levels, an effort is made during the customer telephone interview to more completely examine project influence sources in order to allow for any adjustments to the customer self-reported score.

The net-to-gross scoring approach is summarized in Table 2-1.

Table 2-1. Net-to-Gross Scoring Algorithm for the PY3 Standard Program

Scoring Element	Calculation
Timing and Selection score. The maximum score (on a scale of 0 to 10 where 0 equals not at all influential and 10 equals very influential) among the self-reported influence level the program had for: A. Availability of the program incentive B. Recommendation from a DCEO staff person C. Information from program marketing materials D. Endorsement or recommendation by a utility account manager E. Other factors (recorded verbatim) F. Information provided through technical assistance received from DCEO or SEDAC staff G. Vendor Score (if triggered) Potential adjustments for non-program influences	Basic Rigor: Maximum of A, B, C, D, and E Standard Rigor: Maximum of A, B, C, D, E, F, and G, with potential adjustments for non-program influences
Program Influence score. "If you were given a TOTAL of 100 points that reflect the importance in your decision to implement the <ENDUSE>, and you had to divide those 100 points between: 1) the program and 2) other factors, how many points would you give to the importance of the PROGRAM?"	Points awarded to the program (divided by 10) Divide by 2 if the customer learned about the program AFTER deciding to implement the measure that was installed *and* funds were committed before learning about the program
No-Program score. "Using a likelihood scale from 0 to 10, where 0 is "Not at all likely" and 10 is "Extremely likely," if the sponsor program had not been available, what is the likelihood that you would have installed exactly the same equipment?" The NTG algorithm computes the Likelihood Score as 10 minus the respondent's answer (e.g., the likelihood score will be 0 if extremely likely to install exactly the same equipment if the program had not been available). Adjustments to the "Likelihood score" are made for timing: "Without the program, when do you think you would have installed this equipment?" Free-ridership diminishes as the timing of the installation without the program moves further into the future.	Interpolate between Likelihood Score and 10 to obtain the No-Program score, where If "At the same time" or within 6 months then the No Program score equals the Likelihood Score, and if 48 months later then the No Program Score equals 10 (no free-ridership)
Project-level Free-ridership (ranges from 0.00 to 1.00)	1 – Sum of scores (Timing & Selection, Program Influence, No-Program)/30
Apply score to other end-uses within the same project?	If yes, assign free-ridership score to other end-uses of same project
Apply score to other projects of the same end-use?	If yes, assign score to same end-use of additional projects
PY3 Project level Net-to-Gross Ratio (ranges from 0.00 to 1.00)	1 – Project level Free-ridership

2.1.2 Process Evaluation Methods

Four research activities were conducted in support of the process evaluation: (1) interviews with program staff, (2) a quantitative telephone survey with 77 participating customers, (3) qualitative telephone interviews with 10 participating customers focused on the procurement process, and (4) qualitative telephone interviews with five program drop-outs. These activities are further described in the section below.

2.2 *Data Sources*

Table 2-2 provides a summary of the principal data sources contributing to the evaluation of the PY3 Standard program. For each data element listed, the table provides the targeted population, the sample frame and design, the sample size, and the timing of data collection.

The interview guides and data collection instruments for telephone surveys are included in Appendix 5.1.

Table 2-2. Principal Data Sources Contributing to the PY3 Evaluation

Data Collection Type	Targeted Population	Sample Frame	Sample Design	Sample Size	Timing
In-depth Telephone Interviews	DCEO Management and Standard Program Staff	Contact from DCEO	Standard Incentives Program Manager Manager of Marketing and Outreach, and DCEO Management	3	August 2011
CATI Telephone Survey	Standard Program Participants	Tracking Database	Stratified Random Sample of DCEO Standard Program Participants	77 (Process) 78 (Net-to-Gross)	September 2011
Procurement Process Interviews	Standard Program Participants	Tracking Database	Contacts provided through Participant Survey	10	September/ October 2011
Program Drop-out Interviews	Standard Program Participant Drop-outs	Tracking Database	Census Attempt	5	September/ October 2011
Engineering File Review	Projects in the Standard Program	Tracking Database, July 13, 2011 Extract	Stratified Random Sample of 52 by Standard Project-Level kWh (3 Strata) Assigned to On-Site or File Review	27	July 2011-September 2011
On-Site Visit M&V				25	

2.2.1 Tracking Data

The tracking data for this evaluation was extracted from a copy of the DCEO database provided to the evaluation team on a periodic basis. The final ex ante tracking data used to provide program reported energy savings for this evaluation was dated September 7, 2011.

Sampling was conducted from DCEO extracts produced in July 2011. For gross impact evaluation, the sample was drawn from the population of projects identified as the PY3 participants in a July 13, 2011 extract. The Standard telephone survey sample was drawn from a database extract dated July 28, 2011.

Midway through PY3, DCEO implemented a transition from the spreadsheet-based tracking approach used throughout PY1 and PY2 and most of PY3 to a new centralized database tracking system. The transition for program staff occurred later in PY3, and the new system was undergoing programming refinements throughout the summer of 2011 at the time when evaluation sample design was taking place. The September 7, 2011 extract data changed the ex-ante energy savings for approximately one-third of the Standard program population compared with July 13th and July 28th 2011 extracts, with some projects changing significantly. DCEO reports that the tracking system was correctly calculating savings during this period, but that they were not correctly converted into the evaluation extract drawn from the tracking system. Although DCEO's September 7, 2011 reported savings were used in the final impact analysis, sample design was based on the July extracts. As a result, sample points selected for impact verification do match the intended allocations by strata; however, the sample selected was large enough so that precision targets were met.

2.2.2 Program Staff Interviews

The evaluation team conducted one interview with the Standard Program manager. The interview focused on the changes to program design and implementation compared to PY2 and the effects of those changes on program administration and participation. In addition, two telephone interviews were conducted with DCEO Management staff. One interview explored the Standard Program's marketing and outreach activities in PY3; the second focused on several high level PY3 program design, process, and implementation changes.

2.2.3 CATI Telephone Survey

A Computer-Assisted Telephone Interviewing (CATI) survey was conducted with a stratified random sample of 77 participants.[7] This survey focused on three key areas:

Net program impacts. The survey collected data for a quantitative assessment of free-ridership and a qualitative assessment of spillover.

Gross program impacts. The survey collected data on hours-of-use for lighting measures.

Process evaluation. The survey collected data on participant perceptions of program processes and implementation, satisfaction, barriers to participation, and business demographics.

The survey was directed toward unique customer contact names drawn from the PY3 tracking database. All surveys were completed by Opinion Dynamics Corporation's call center in September 2011.

2.2.4 Procurement Process Interviews

Telephone interviews were conducted with 10 participants in the Standard and Custom programs regarding their equipment procurement approval processes. These processes can be a key barrier to participation for many public sector entities. The evaluation targeted individuals identified during the participant survey process as those in charge of procurement at their organization.

2.2.5 Program Drop-out Interviews

The evaluation team conducted five interviews with contacts that had filed a pre-approval application for either a Standard or Custom project in PY3 but ultimately did not file a final application. The purpose of these interviews was to understand barriers to program participation and the reasons for not moving forward with the planned projects. The sample frame for this effort included 50 contacts for 53 projects for which pre-approval applications had been filed. These projects were flagged as "Canceled." Excluded from the sample frame were projects where the tracking database indicated that the project was likely to be completed in PY4.

We interviewed 21 of the 50 contacts, but 16 respondents indicated that the project had already been submitted for PY4 or would be submitted in the near future.

[7] One respondent terminated the interview after completing the net-to-gross module; as such, 78 completed interviews were available for the net-to-gross analysis.

2.2.6 Project Application File Review

To support final application file review, project documentation in hard copy format was scanned into electronic files for each sampled project. Documentation included some or all of hardcopy application forms and supporting documentation from the applicant (ex-ante impact calculations, invoices, measure specification sheets, vendor proposals), pre-inspection reports (when conducted), post inspection reports (when conducted), and important email and memoranda.

2.2.7 On-Site Visits and Measurement

On-site surveys were completed for 25 of the applications sampled for M&V. During each on-site visit, data identified in the analysis plan is collected, including monitoring records (such as instantaneous spot watt measurements for relevant equipment, measured temperatures, data from equipment logs and EMS/SCADA system downloads), equipment nameplate data, system operation sequences and operating schedules, and a careful description of site conditions that might contribute to baseline selection.

2.3 Sampling

Sampling was conducted from extracts produced in July 2011. For gross impact evaluation, the sample was drawn from the population of projects identified as the PY3 participants in a July 13, 2011 extract. The Standard telephone survey sample was drawn from a database extract dated July 28, 2011.

Details of the sampling approach are provided in Appendix 5.3.

2.3.1 Gross Impact M&V Sample

For the PY3 program year, a statistically significant sample based on a 90/10 confidence/precision level for program-level savings was drawn for the gross savings verification.

Table 2-3 provides a profile of the gross impact verification sample for the Standard program in comparison with the Standard program population. Shown is the resulting sample that was drawn, consisting of 52 projects, responsible for 26.6 million kWh of ex ante impact claim and representing 50% of the ex-ante impact claim for the program population. Also shown are the ex-ante based kWh sample weights for each of three strata.

Table 2-3. Profile of the Gross Impact Sample by Strata

Standard Population Summary				Impact Sample		
Sampling Strata	Number of Project Applications (N)	Ex Ante kWh Impact Claimed	kWh Weights	n	Ex Ante kWh	Sampled % of Population
1	8	20,890,748	0.390	8	20,890,748	100%
2	40	13,741,669	0.256	14	4,175,611	30%
3	401	19,002,325	0.354	30	1,528,882	8%
TOTAL	**449**	**53,634,742**	**1.000**	**52**	**26,595,241**	**50%**

Source: Evaluation analysis of tracking savings from DCEO tracking system, September 7, 2011.

Table 2-4 provides a comparison of the population profile to the sample analyzed by utility, and shows that the sample reflects the same proportions by utility as the population.

Table 2-4. Profile of the Gross Impact Sample by Utility

Standard Population Summary				Impact Sample		
Utility	Number of Project Applications (N)	Ex Ante kWh Impact Claimed	kWh Weights	n	Ex Ante kWh	kWh Weights
Ameren	158	12,932,568	0.24	18	6,487,723	0.24
ComEd	291	40,702,174	0.76	34	20,107,518	0.76
TOTAL	**449**	**53,634,742**	**1.00**	**52**	**26,595,241**	**1.00**

Source: Evaluation analysis of tracking savings from DCEO tracking system, September 7, 2011.

Table 2-5 provides a comparison of the population profile to the sample analyzed by public sector customer type. The sample reflects the dominance of local government projects, which includes a large representation by LED traffic signal projects. In PY3, the City of Chicago had 25 traffic lighting project applications that totaled 19,307,723 kWh of ex ante energy savings, and many other municipalities statewide took advantage of the DCEO Standard program to improve the efficiency of their traffic lighting. Although K-12 Schools are somewhat underrepresented in the sample compared with the percentage of energy savings in the population, the sample was able to cover 22 percent of K-12 school savings statewide.

Table 2-5. PY3 Standard Sample Public Sector Type Comparison

Public Sector Type	Ex-Ante Claimed Savings			
	Gross kWh, Population		Gross kWh, Sample	
College	776,496	1%	308,880	1%
Federal Government	3,231,251	6%	2,174,610	8%
K-12 Schools	10,025,921	19%	2,192,672	8%
Local Government	33,306,792	62%	16,682,655	63%
State Government	631,347	1%	-	0%
University	5,662,935	11%	5,236,424	20%
Total	**53,634,742**	**100%**	**26,595,241**	**100%**

Source: Evaluation analysis of tracking savings from DCEO tracking system, September 7, 2011.

Table 2-6 provides a breakdown of sample by verification approach. A very large portion of the sample, 88 percent, was verified through on-site M&V audits, covering 44 percent of all PY3 Standard program energy savings. This was possible because of the concentration of program savings in larger projects. It should be noted that for the large traffic lighting projects, the site verification strategy involved sampling of installed measures within individual projects, not a census count of installed traffic signals.

Table 2-6. PY3 Standard Sample by Verification Approach

Verification Approach	Ex-Ante Claimed Savings	
	Gross kWh, Sample	
Engineering File Review	3,082,331	12%
On-Site M&V	23,512,910	88%
Total	26,595,241	100%

Source: Evaluation analysis of tracking savings from DCEO tracking system, September 7, 2011.

2.3.2 CATI Telephone Survey for Participating Customers

To best support estimation of the net-to-gross ratio for the program, a stratified random sampling approach was employed for this survey. Projects were stratified by savings, using the ex-ante kWh impacts reported in the tracking database. Records were sorted from largest to smallest kWh claimed and placed into one of three strata, such that approximately one-third of ex ante savings fell into each stratum.[8] The CATI sample used the same stratum boundaries as the gross impact M&V sample described in the previous section.

[8] Stratum 1: large savers (>843,000 kWh); Stratum 2: medium savers (between 843,000 and 199,000 kWh); Stratum 3: small savers (<=199,000 kWh). Strata were developed using a database abstract from July 28, 2011. After surveys were fielded based on these strata assignments, the evaluation team received an updated extract of program savings.

The sampling unit for the CATI telephone survey was the unique project contact. The sample frame included 280 unique contacts that had completed 354 projects. Projects associated with duplicate contact names were removed from the sample (in cases where a single person was involved in more than one project application). Projects with larger savings were retained in the sample. Projects with non-lighting end uses were also given preference. With the exception of three contacts who had completed very large Standard projects, participants who completed both Standard and Custom projects were also removed from the sample for the Standard survey (given the smaller population of Custom projects, the Custom Program was given priority for calling overlapping project contacts).

Of the 280 unique contacts in the Standard sample frame, 77 completed the survey. In addition, one respondent did not complete the entire survey but responded to all net-to-gross questions. The Standard net-to-gross interview results were supplemented by the results of 14 Custom program interviews with project contacts that had combined Custom and Standard projects and reported a single decision making process was used for both measure types. Interviewees were reminded of additional applications they had submitted for projects of the same end-use, and then asked whether the additional applications had the same decision making process. When the respondent indicated a single decision covered all projects, the net-to-gross score was applied to the other project applications of the same end use. Through this question, an additional 36 projects were included within the Standard net-to-gross scoring. This resulted in a sample of 128 project applications with a precision level of +/-7% for net-to-gross questions, and a precision level of +/-8% for process questions (at a 90% confidence level) for the 77 completed process interviews.[9]

Table 2-7 provides a summary of the sampling approach used for the net impact analysis, by stratum, and the resulting kWh weights. The table shows that the 78 completed Standard net-to-gross interviews plus the additional 14 interviews completed for the Custom and Standard projects, plus the additional 36 multiple-application scores represent 61% of reported ex ante program savings.

While strata boundaries remained the same, 14 Stratum 2 projects moved to stratum 3. Two completed interviews fell into this group.

[9] The difference in precision between net-to-gross questions and process questions is the result of net-to-gross findings being based on savings for all project applications and process findings being based on unique respondents.

Table 2-7. Summary of Sampling Approach for the Participant Survey

Sampling Strata	Final Population			Completed Interviews		
	Number of Applications (N)	Ex Ante kWh Impact Claimed	kWh Weights by Segment	Number of Respondent Applications (n)*	Ex Ante kWh Claimed	% of Population Impacts Surveyed
1	8	20,890,748	0.390	5	18,163,870	87%
2	40	13,741,669	0.256	26	9,297,068	68%
3	401	19,002,325	0.354	97	4,998,750	26%
TOTAL	**449**	**53,634,742**	**1.000**	**128**	**32,459,688**	**61%**

**Includes one mid-interview terminate who only completed the net-to-gross questions.*
Source: Program tracking database; results of CATI telephone survey.

Survey Disposition

Table 2-8 below shows the final disposition of the 280 unique contacts included in the sample frame for the participant survey. Contact with over three quarters of the sample (79%) was attempted at least once, resulting in 77 completed interviews. The survey center was unable to make contact with 13% of contacts for a variety of reasons including: no one answered the telephone, an answering machine picked up, or the telephone line was busy. On average, we attempted to reach each of these customers five times. The telephone numbers provided for 5% of the sample had problems such as being disconnected or an incorrect number.

Overall the response rate for this survey was 38% computed as the number of completed interviews divided by the number of eligible respondents.[10]

[10] Eligible respondents include the following dispositions: a) Completed Surveys, b) Unable to Reach, c) Callback, and d) Refusal/Mid-Interview Termination.

Table 2-8. Sample Disposition

Sample Disposition	Customers	%
Sample Frame of Unique Contacts	280	
Completed Survey	77	28%
Not Dialed	60	21%
Unable to reach	35	13%
Callback	48	17%
Refusal/Mid Interview Termination	45	16%
Phone Number Issue	13	5%
Could not confirm participation	2	1%
Response Rate	*38%*	

Source: ODC CATI Center

Profile of Survey Respondents

The evaluation team compared attributes of those who completed the CATI survey to the full population of unique contacts who completed projects in PY3. This comparison provides an indication of how representative the 77 completed interviews are of the final population.

Table 2-9 shows the distribution of project size among the population and among contacts that completed the survey. Even though the stratified sampling approach over-emphasized larger projects, the distribution of survey respondents by project size is almost identical to that of the population. We therefore determined that the analysis of process results does not require sample weights.

Table 2-9. Comparison of Completed Interviews and Population by Project Size

Project Size	Population*		Completed Survey	
	#	%	#	%
Large Projects	6	2%	2	3%
Medium Projects	21	6%	6	8%
Small Projects	308	92%	69	90%
TOTAL	**335**		**77**	

**Note: The population represents the number of unique contacts who completed projects that could be used for survey fielding purposes (including those that were removed due to overlap with the Custom Program).*
Source: Program tracking database; results of CATI telephone survey.

Table 2-10 compares the sector category of those who completed the survey to the population of unique contacts who completed projects in PY3. This comparison shows that the distribution by

sector of the population and the sample are quite similar: local government represents the majority; K-12 schools represent about a third; and all other sectors represent less than 10% combined.

Table 2-10. Comparison of Completed Interviews and Population by Sector

Sector	Population*		Completed Survey	
	#	%	#	%
Local Government	195	58%	48	62%
K-12 Schools	115	34%	23	30%
Federal Government	6	2%	2	3%
College	8	2%	2	3%
University	5	1%	1	1%
State Government	6	2%	1	1%
TOTAL	**335**		**77**	

**Note: The population represents the number of unique contacts who completed projects that could be used for survey fielding purposes (including those that were removed due to overlap with the Custom Program).*
Source: Program tracking database; results of CATI telephone survey.

Based on these comparisons, we conclude that survey responses to the process questions are reasonably representative of the PY3 population.

Section 3. Program Level Results

This section presents the Standard program impact and process evaluation results.

3.1 Impact Analysis

3.1.1 Tracking System and Default Savings Review

Tracking System Review

Midway through PY3, DCEO implemented a transition from the spreadsheet-based tracking approach used throughout PY1 and PY2 and most of PY3 to a new centralized relational database tracking system. The transition for program staff occurred later in PY3, and the new system was undergoing programming refinements throughout the summer of 2011 at the time when evaluation sample design was taking place. The evaluation team works off of extracts generated from the tracking system data provided by DCEO on a periodic basis. Evaluation sample design was completed using an extract from July 13, 2011, and final reported savings for PY3 were provided by a September 7, 2011 extract.

The new tracking system provides the calculation engine that produces program reported savings. The tracking system includes lookup tables that draw in default savings assumptions and user provided input data for measure type, quantity, size, and building type. Although measure description information was populated in the tracking system, applications involving more than one measure record savings as a single value. If the tracking system stored measure-level savings information it would facilitate savings verification analysis and allow the evaluation team to provide greater detail to reporting.

The new tracking system provides expanded contact information for program applicants and program allies, and this greatly facilitated our development of the telephone survey sample data. It was evident from the data that additional work is needed to clean data pulled in from the old system, and to incorporate new data from hard copies, such as contractor information, that was partially filled in at the time we drew our sample.

In comparison with PY1 and PY2, the PY3 data was much clearer and stable with regard to project status information after May 31, 2011 program close. DCEO improved the timeliness of processing end-of-year applications by more than a month over previous years, and provided a stable project count of PY3 participants from mid-June onward.

Default Savings Review

DCEO default savings assumptions are built into the new tracking system as lookup tables for kWh savings per unit assumptions by measure and building type. The source of the default

values are ComEd's measure default savings as documented in ComEd's Appendix A of the Business Prescriptive program operations manual.[11] DCEO default savings are differentiated by four building types from the ComEd assumptions: College/University, Medical, Office, and K-12 School. To generate savings for tracking, DCEO must select one of these four building types to represent the project. For projects in the local government sector, one of the four default building types must be matched to the project, based on program staff judgment of operating hours and space function.

During PY4, DCEO should work with the evaluation team to explore whether additional building types or modifications to existing building types would be beneficial for reporting energy savings. Although the current set of building types work reasonably well, they were developed by ComEd for commercial businesses and not specifically designed for public building types. After three years of Standard program operation and evaluation cycles, plus work conducted by SEDAC, a substantial set of site collected data is available.

The evaluation team reviewed ComEd's measure default savings for PY3 that were the basis for DCEO's default values. The PY3 review was less extensive than conducted in PY1 and PY2 because ComEd has addressed previous recommendations, and many measures and assumptions are unchanged. Measures reviewed by the evaluation team in greater detail for PY3 were refrigeration measures, food service measures, and variable speed drives, and the PY3 default values were judged to be reasonable by the evaluation team.

Tracking System Check for Default Values Implementation

We compared DCEO's default values in their new tracking system against ComEd's PY3 default values – approximately 2,000 individual values. For most measures, the DCEO kWh per unit savings assumptions match ComEd's PY3 values exactly, or had insignificant differences due to rounding. A few measures did not match ComEd's PY3 values:

- It appears DCEO has switched the default values for LED channel signs less than two feet with the default for signs over 2 feet. This measure was eliminated for PY4.
- ComEd implemented revisions to their HVAC measure offerings and default values for PY2 and PY3, and these updates were not reflected in all of the DCEO PY3 default values. We have no objection to DCEO retaining PY1 values where used until the statewide deemed values become effective. The evaluation team can assist DCEO in coordination with ComEd.
- DCEO uses ComEd assumptions from PY1 for screw-in compact fluorescent lighting and from PY2 for refrigeration economizers. ComEd did not offer these measures in

[11] KEMA, *Appendix A - Prescriptive Measures,* (file provided: "ComEd Workpapers 6-1-10.doc"). This document is sometimes referred to as a Technical Reference Manual (TRM) or as "ComEd Workpapers June 1, 2010 version".

PY3. We have no objection to DCEO retaining these values until the statewide deemed values become effective.

- ComEd does not offer traffic signal incentives. DCEO's default values were reasonable for ex ante savings reporting.

Our comparison is attached in Appendix 5.4.

During PY4, prior to closing out year-end ex ante savings estimates, the evaluation team will assist DCEO by reviewing default values and ex ante savings calculation outputs to ensure that tracking system output matches values expected by the evaluators.

3.1.2 Gross Program Impact Parameter Estimates

Ex post gross program impacts were developed for the Standard program based on engineering file review, participant interviews, and site M&V for a sample of applications.

Gross Impact Adjustments Triggered by the Participant Telephone Survey

A brief set of questions in the CATI survey was asked regarding lighting hours of use to support the gross impact evaluation. Gross impacts were adjusted *only* for those projects in the engineering file review group. Of the 78 completed telephone interviews, six covered projects that were also in the engineering review sample for gross impact evaluation. Of the six projects, four provided substantial increases to energy savings realization rate due to longer hours of use than assumed by default values, while two projects had hours of use adjusted downwards based on participant responses.

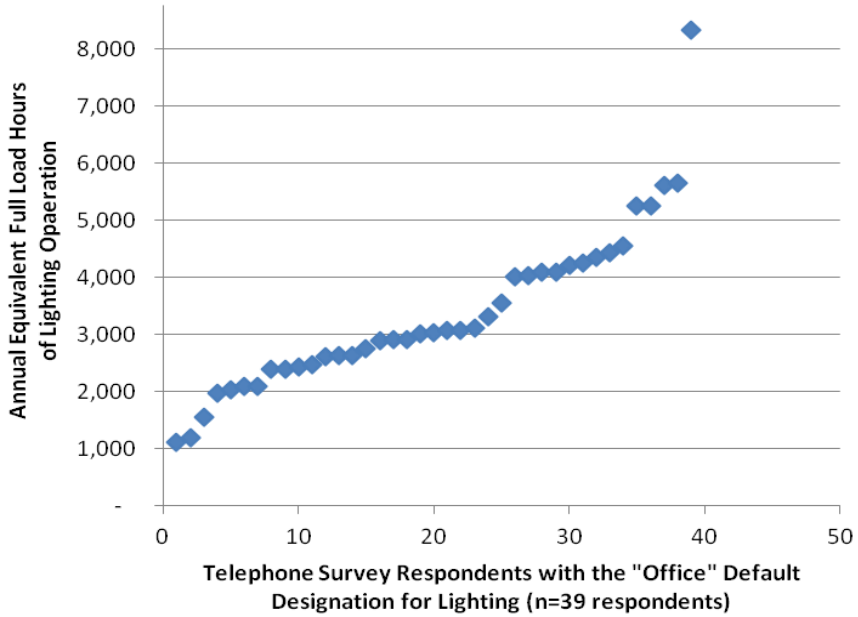
Table 3-1 below provides the un-weighted average annual equivalent full load hours (EFLH) of operation for lighting among all respondents (64) who provided complete responses to the lighting hours of operation questions.

Table 3-1. Participant Reponses to Lighting EFLH Questions by Public Sector Type

Public Sector Type	Respondent Count	Respondent Un-weighted Average Equivalent Full Load Annual Lighting Hours	Typical Default Annual Lighting Hours of Use and Building Type
Local Government	38	3,425	2,808 (Office)
K-12 Schools	23	3,278	1,873 (K-12 School)
Federal Government	1	2,628	2,808 (Office)
State Government	1	2,390	2,808 (Office)
College	1	4,618	3,433 (College)
TOTAL	64	3,362	

Among respondents with lighting projects that were assigned an "office" building type as a default value, the distribution of responses for annual equivalent full load hours of use is provided in the figure below.

Figure 3-1. Telephone Survey Responses for Participants with "Office" lighting



Realization Rates for the Standard Program

There are two basic statistical methods for combining individual realization rates from the sample projects into an estimate of verified gross kWh savings for the population when

stratified random sampling is used. These two methods are called "separate" and "combined" ratio estimation.[12] In the case of a separate ratio estimator, a separate gross kWh savings realization rate is calculated for each stratum and then combined. In the case of a combined ratio estimator, a single gross kWh savings realization rate is calculated directly without first calculating separate realization rates by stratum.

The separate ratio estimation technique was used to estimate verified gross kWh savings for the Standard program. The separate ratio estimation technique follows the steps outlined in the California Evaluation Framework. These steps are matched to the stratified random sampling method that was used to create the sample for the program. The standard error was used to estimate the error bound around the estimate of verified gross kWh. The results are summarized in Table 3-2 and Table 3-3 below.

Table 3-2. Gross Impact Realization Rate Results for the Standard Sample

Sampling Strata	Sample-Based Ex Ante kWh Impact Claimed	Sample-Based Ex Post Gross kWh Impact	Sample-Based Ex Post Gross kWh Realization Rate	kWh Weights
1	20,890,748	23,181,007	1.11	0.390
2	4,175,611	3,435,079	0.82	0.256
3	1,528,882	1,864,541	1.22	0.354

[12] A full discussion and comparison of separate vs. combined ratio estimation can be found in Sampling Techniques, Cochran, 1977, pp. 164-169.

Table 3-3. Gross kWh Realization Rates and Relative Precision at 90% Confidence Level

Sampling Strata	Relative Precision ± %	Low	Mean	High
Stratum 1	0%	1.11	1.11	1.11
Stratum 2	17%	0.68	0.82	0.96
Stratum 3	16%	1.02	1.22	1.42
Total kWh RR	7%	1.01	1.09	1.17

The realization rates analyzed by strata form the basis for estimating the overall realization rate applied to total ex-ante gross program savings at the stated confidence level and relative precision.

Below we present additional summaries of the verification sample results by other factors, including M&V approach and public sector customer type, to provide insight into the findings. Realization rates shown below are not statistically valid at the 90/10 level of confidence and relative precision. The results are summarized in Table 3-4 and Table 3-5 below.

Table 3-4. Gross Impact Realization Rate Results for the Standard Sample – by M&V Approach and Strata

M&V Approach	Strata	Application Count	Sample-Based Ex Ante kWh Impact Claimed	Sample-Based Ex Post Gross kWh Impact	Sample-Based Ex Post Gross kWh Realization Rate
On-Site	1	8	20,890,748	23,181,007	1.11
	2	8	1,869,742	1,868,428	1.00
	3	9	752,420	792,494	1.05
Engineering File Review	1	0	-	-	-
	2	6	2,305,869	1,566,651	0.68
	3	21	776,462	1,072,047	1.38
Total		52	26,595,241	28,480,627	1.07

Table 3-5. Gross Impact Realization Rate Results for the Standard Sample – By Public Sector

Public Sector	Application Count	Sample-Based Ex Ante kWh Impact Claimed	Sample-Based Ex Post Gross kWh Impact	Sample-Based Ex Post Gross kWh Realization Rate
Local Government	26	16,682,655	17,160,842	1.03
K-12 Schools	19	2,192,672	2,525,754	1.15
Federal Government	2	2,174,610	4,338,206	1.99
College	1	308,880	221,441	0.72
University	4	5,236,424	4,234,384	0.81
Total	52	26,595,241	28,480,627	1.07

3.1.3 Gross Program Impact Results

Based on the gross impact parameter estimates described previously, gross program impacts were derived for the PY3 Standard program. The results are provided in Table 3-6.

Table 3-6. Gross Parameter and Savings Estimates

Segment	kWh, Ex Ante	kWh, Ex Post	kWh RR
Standard	53,634,742	58,328,889	1.09

Some general observations from the gross impact sample:

The realization rate for kWh was 1.09 in PY3. Individual measures and projects had realization rates greater and less than 1.09, however the overall value of 1.09 is lower than the value of 1.27 observed for PY2. The primary factor in the high realization rate in PY2 was verified hours of use that were higher than default values on a significant number of sampled projects. In PY3, a large proportion of program savings was for traffic signal projects, including 36% of overall program savings with the City of Chicago, and these sampled projects were not subject to hours of use adjustments.

In PY3 it was commonly found that K-12 schools had longer hours of use than the default value of 1,873 hours per year. In the telephone survey, 21 of 23 respondents reported lighting operation, adjusted to annual equivalent full load hours of use, that were greater than the default value of 1,873 hours. For PY4, ComEd has increased the default value to 2,829 hours for

K-12 schools, and data from the PY3 Standard evaluation supports the use of ComEd's higher value.

DCEO commonly selected the office building type for lighting default values with projects for local, state, and federal government participants (choices were office, medical, school, and college/university). In the telephone survey, 24 of 39 respondents assigned the office building type reported lighting operation, adjusted to annual equivalent full load hours of use, that were greater than the office default value of 2,808 hours. There was significant variation in equivalent full load hours across respondents, from a low of 1,109 hours to a high of 8,322 hours, with an average of 3,371 hours. The field verification also observed a wide variation in site verified lighting hours of use. A factor in the wide range of verified hours of lighting use for the office default building type was the diverse functions of the spaces that fell into this default category. These included public service and safety buildings with 24 hour occupation in all or parts of the facility, general public facilities with extended hours, typical offices, and lightly used local government facilities. Although the average verified hours of use was greater than the default value of 2,808 hours, we recommend that DCEO consider expanding the number of buildings types from which to select a default rather than only raise average hours of use. It appears that the current office default type could be split into two building types: "office", and "public service extended operation" and possibly a third added "public service continuous operation". The "office" building type could remain at the current default value of 2,808 hours, while "continuous operation" would be appropriate for 8760 hour facilities. The "extended operation" default would need further analysis, but a value of 4,000 to 4,400 hours could be appropriate.

As K-12 schools and lighting projects with an office building type default were common projects in PY3, the primary factor raising the average realization rate for the overall program above 1.00 was a finding of hours of use that were longer than used in default savings in these two building types. As suggested above, adjusting the default lighting hours higher in the case of K-12 schools and adding additional building types with longer default hours to replace the single office type would provide DCEO with higher ex ante savings and could produce a realization rate closer to 1.00 in future evaluations. .

One of the adjustments that increased or decreased ex post impacts, depending on the project, was quantity adjustments. As a general qualitative finding, DCEO was quite accurate on measure quantities claimed, with a common finding being exact or within one or two percent. There was one instance of a T8 lamp and ballast measure recording fixture quantities when the verified measure quantity should have been based on lamps – this resulted in a four-fold quantity increase for the measure.

One measure where fixture counts were not as accurate was on traffic signal modules. Some quantities for three-lamp modules had recorded number of lamps (3) rather than number of modules (1). These instances sometimes occurred on application forms that had correctly

entered number of modules for some of the traffic lighting measures. This finding occurred on projects #3398, #3425, #3540, and #3579 in our sample. These are stratum 2 projects, and this was a significant factor in contributing to the relatively lower realization rate seen in this stratum. If these four large projects had a realization of 1.0, the realization rate for stratum 2 would have been 1.03 rather than 0.82, and the overall realization rate for the program would have been 1.13 rather than 1.09.

There was an instance of ineligible equipment for the measure "high performance or reduced wattage 4 foot T8 lamp and ballast." This measure requires T12 lighting as a baseline and both the installed lamp and ballast must meet eligibility specifications to claim the full default lamp and ballast savings. In these cases, we determine savings based on alternative measures if components are eligible. On project #3166, the baseline and ballast did not qualify, and instances of this measure were converted to "reduced wattage T8 lamp only", resulting a lower realization rate.

There are sampled projects where verified savings will differ from what DCEO has claimed, but do not represent any kind of error by DCEO in recording savings. Some adjustments to energy savings were made based on verified performance of baseline and installed equipment performance being different than default assumptions. These adjustments were not factors under control of DCEO in the Standard program, but are inherent in setting default values that are intended to serve as averages that will represent expected participants. For example, the default savings for some lighting measures, such as permanent lamp removal, aggregates many combinations of lamps and ballasts of different wattages into a single average. When verifying this measure in the field, the evaluators often find a wattage impact that differs from the assumed average. This wattage difference leads to a difference between what DCEO claimed for savings and what the evaluation team estimates based on site collected data. The realization rate differs from 1.00, even though DCEO's the savings estimate correctly adheres to the default savings methodology. The magnitude of this type of adjustment is small in the Standard program, typically under ± 10 percent for the measures involved. If a trend is seen where evaluation findings are consistently lower or higher than default values, it suggests a revision should be made to the default value (for example, as seen with K-12 school lighting hours of use).

3.1.4 Net Program Impact Parameter Estimates

Once gross program impacts have been estimated, net program impacts are calculated by multiplying the gross impact estimate by the program Net-to-Gross (NTG) ratio. As mentioned above, the NTG ratio for the PY3 Standard program was estimated using a customer self-report approach supplemented by vendor or designer interviews when triggered. This approach relied on responses provided by program participants during the CATI telephone survey to determine the fraction of measure installations that would have occurred by participants in the absence of the program (free-ridership).

The Standard net-to-gross interview results were supplemented by the results of 14 Custom program interviews with project contacts that had combined Custom and Standard projects and reported a single decision making process was used for both measure types. If the customer has additional projects at other sites covering the same end-use, the survey asks whether the responses also apply to the other projects. If that is the case, the additional projects are given the same score and included in the sample.

The NTG ratio and relative precision at a 90% confidence level for the overall program is provided in Table 3-7.

Table 3-7. NTG Ratio and Relative Precision at 90% Confidence Level - Overall

Sample Strata	Population (N=449)	NTG Interviews (n=92)	NTG Sample (n=128)	Sample kWh Wgts.	Relative Precision ± %	Low	NTGR Mean	High
1	8	5	5	0.390	12%	0.53	0.60	0.67
2	40	7	26	0.256	4%	0.58	0.60	0.62
3	401	80	97	0.354	4%	0.73	0.76	0.78
Total	449	92	128	1.000	7%	0.61	0.66	0.70

Comparing PY2 and PY3, the mean NTG ratio decreased from PY2 (0.75) to PY3 (0.66). Although the PY3 results experienced a large increase in the number of smaller projects, as seen in stratum 3, these did not have a dramatic impact on the NTG ratio relative to PY2. The primary difference between PY2 and PY3 was that larger PY3 projects had substantially lower NTG ratios than in PY2, which had a NTG ratio of 0.70 for stratum 1 and 0.80 for stratum 2 projects in PY2. In PY3, some large projects had quite low NTG ratios, and a substantial fraction had results in the 0.60 to 0.65 range.

As discussed in the methodology section, quantifying free-ridership requires estimating what would have happened in the absence of the DCEO program. A customer with a high free-ridership score typically has made a decision and committed funds to an efficiency project prior to learning about the DCEO program, and would have been quite likely to implement the exact same measures at the exact same time (or within a year) had the DCEO program not been available. In such a case, relative less importance is assigned to DCEO by the participant for the rebate and other services offered by DCEO. It is frequently seen that larger customers with full-time facility managers knowledgeable in energy efficiency indicate less influence by the program in free-ridership scoring. Participants with *lower* free-ridership scores typically state emphatically that they would not have pursued the project without DCEO funding and assistance.

One factor that accounts for the lower NTG ratio was that LED traffic signal projects tended to have a NTG ratio lower than the mean value of 0.66, and traffics signals were a large proportion

of PY3 savings and sampled projects. The traffic signal projects identified factors unrelated to the DCEO program (for example, public safety) as influential in their decisions and responded with lower influence scores assigned to DCEO. Another factor was certain large institutional projects cited policies they were required to follow as the primary influence for implementing for energy efficiency projects.

Similar to PY2, the NTG ratio estimate for PY3 included a more complex "standard rigor" level of analysis conducted on larger projects. The expanded standard rigor analysis included additional questions regarding non-program influence factors and the possibility of triggering an interview with the vendor to determine the extent of program influence on the vendor, if the participant said the vendor was important to the decision to proceed with the project. For PY3, seven of 78 respondents in our Standard telephone sample went through the standard rigor approach, and two of the seven standard rigor interviews had responses that triggered follow-up interviews with two different design consultants. One designer interview resulted in an increase in the NTG ratio for that project, the other did not. The impact on overall NTG ratio of follow-up interviews was small, less 1 percent.

No adjustments were made to increase free-ridership in the Timing & Selection score for non-program influences, based on a review of participant responses and resulting scores. Non-program influences were weighed against program influences and open-ended comments made by participants during the interviews. Although some non-program influences such as government policy were given high importance by some respondents, there were other responses that indicated the program incentive and assistance were important in getting the organization to act on that policy and choose the measures that were installed.

In PY3, the evaluation team examined NTG ratios in the subgroup of the sample that mentioned receiving other "public sources" of funding for the implementation of the efficiency project discussed in the NTG interview. Specifically, 16 projects had self-reported during the interview that they had received funding of one of the following types:

- American Recovery and Reinvestment Act (ARRA)
- Energy Efficiency and Conservation Block Grant (EECBG)
- Illinois State Board of Education (ISBE)
- Illinois Clean Energy Grant

The NTG ratios for this group of 16 projects ranged from 0.17 to 1.00. The mean NTG ratio for this group including their 1 additional multiple-project, weighted by ex-ante kWh, was 0.67. For the group of Standard program NTG interviewees that did not mention one of the four other funding sources, the kWh weighted NTG ratio was 0.59. Although we did not generate a precision estimate for these subgroup estimates, it does not appear that receipt of other public funds was on average resulting in a NTG ratio that was lower than the mean value for the overall program.

Participant Spillover

The evidence of spillover from the CATI participant survey for the Standard program is presented in Table 3-8 below. These findings suggest that spillover effects for PY3 are relatively small, with only three respondents from the sample of 78 pursuing three measures (delamping, time-clocks for lighting, and room air conditioners) where a strong influence was indicated for the DCEO program. The three respondents were not in the impact sample and the potential savings could not be quantified from the responses. In PY2, the evidence for spillover was limited and therefore an enhanced effort to estimate it was not included in the PY3 evaluation plan. Although the evidence for participant spillover is limited again in PY3, the DCEO Standard program has reached a size (53.6 million kWh, 449 projects) where it would be worthwhile to attempt to quantify a small percentage spillover in PY4. Therefore, the Standard evaluation team will be conducting an enhanced effort to identify potential spillover candidates and quantify spillover in PY4.

Table 3-8. Evidence of Spillover in PY3 Standard from Participant Telephone Survey

Spillover Question	Evidence of Spillover
Since your participation in the DCEO program, did you implement any additional energy efficiency measures at this facility that did NOT receive incentives through any utility or government program?	Of the 78 respondents in the Standard sample, 16 said "Yes" (21%) and named an energy efficiency measure.
What type of energy efficiency measure was installed without an incentive?	Responses indicate number of measures by type mentioned by the 16 respondents: (3) T5 or T8 lamps or Lighting upgrades (4) CFLs, LED lamps, LED exit signs (3) Lighting Controls (4) VSD in HVAC (5) HVAC, Unitary HVAC, and room AC (9) "Other" measures
On a scale of 0 to 10, where 0 means "not at all significant" and 10 means "extremely significant," how significant was your experience in the DCEO program in your decision to implement this energy efficiency measures?	Eleven of sixteen respondents provided a score of zero or don't know regarding all mentioned measures, but five respondents provided a non-zero score on eight measures: (5 measures) Ratings of 4, 5 or 6 (1 measure) Rating of 8 (2 measures) Rating of 10
If you had not participated in the DCEO program, how likely is it that your organization would still have implemented this measure? Use a 0 to 10, scale where 0 means you definitely would NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure?	Eight respondents provided a score of 10 regarding all measures, but for the other eight respondents who provided an answer less than 10 regarding 15 measures: (6 measures) Rating between 0 and 3 (7 measures) Rating between 4 and 6 (2 measures) Rating between 7 and 9

3.1.5 Net Program Impact Results

Net program impacts were derived by multiplying gross program savings by the estimated NTG ratio. Table 3-9 provides the program-level evaluation-adjusted net impact results for the PY3 Standard program.

Table 3-9. Program-Level Evaluation-Adjusted Net kWh Impacts for PY3

Segment	Ex Ante Gross kWh	Ex Post Gross kWh	kWh RR	Ex Post Net kWh	NTGR (ex post gross)
Standard	53,634,742	58,328,889	1.09	38,236,880	0.66

3.2 *Process Evaluation Results*

The process evaluation of the Standard Program covered a range of topics, including program participation, program design and implementation, program partnerships, trade allies, marketing and outreach, barriers to participation, program drop-outs, public sector procurement process, and participant satisfaction. Data sources for the process evaluation include a review of program materials, three in-depth interviews with DCEO staff, ten in-depth interviews with program participants regarding the equipment procurement process, five in-depth interviews with program drop-outs, and a CATI telephone survey with 77 program participants. Telephone survey respondents are nearly evenly divided between customers in ComEd's service territory (38) and customers in Ameren's service territory (39).

3.2.1 Participant Profile

In PY3, 305 organizations completed a total of 449 standard projects that accounted for over 53.6 GWh of ex-ante gross savings.[13] PY3 participants represent a range of sectors. Key observations, by sector, are:

Local governments represent the largest share of projects (58%), participants (57%), and energy savings (62%). K-12 schools account for the second largest share of projects (35%), participants (35%), and energy savings (19%). While most local government projects are small, this sector accounted for the single largest Standard Program project in PY3 (11 GWh, or 21% of total program savings).

Projects in the university and federal government sectors tend to be larger than those in other sectors (average of 708 MWh and 462 MWh, respectively). Three university projects and two federal government projects are among the eight largest projects in PY3.

Community colleges and state government projects represent the smallest shares of projects (2% each), participants (2% each), and energy savings (1% each).

Table 3-10 summarizes the distribution of PY3 projects, participants, and energy savings by sector.

[13] Gross savings reported in this section are based on the program tracking database of August 2, 2011.

Table 3-10. Distribution of Projects, Entities, and Savings by Sector

Sector	Projects		Participants		Projects / Participant	Ex Ante Gross Savings		kWh/ Project
	#	%	#	%		kWh	%	
Local Government	260	58%	174	57%	1.5	33,306,792	62%	128,103
K-12 Schools	155	35%	106	35%	1.5	10,025,921	19%	64,683
Universities	8	2%	5	2%	1.6	5,662,935	11%	707,867
Community Colleges	11	2%	7	2%	1.6	776,496	1%	70,591
Federal Government	7	2%	6	2%	1.2	3,231,251	6%	461,607
State Government	8	2%	7	2%	1.1	631,347	1%	78,918
TOTAL	**449**		**305**		**1.5**	**53,634,742**		**119,454**

Source: DCEO Program Tracking Database

In PY3 Standard Program participation increased significantly compared to PY2, from 286 projects completed by 226 customers to 449 projects were completed by 305 customers. Accordingly, the ex-ante gross savings increased by 75% from 30.7 GWh in PY2 to 53.6 GWh in PY3. Ex post net savings increased by 31% from 29.2 GWh to 38.2 GWh from PY2 to PY3.

Key participation trends over the three program years include:

The total number of projects in PY3 increased by 57% over PY2 (449 vs. 286). The most significant increase came from the local government sector, where the number of projects almost doubled between PY2 and PY3 (from 138 to 260). State government also saw a jump, from only three projects in PY2 to eight in PY3. Participation by universities decreased from 20 projects in PY2 to only eight in PY3 (although the PY3 projects were larger so the total energy savings increased slightly). The share of projects implemented by local governments has steadily increased over the three program years, from 39% in PY1 to 48% in PY2 and 58% in PY3. The share of K-12 schools has remained relatively constant over the years, representing a little more than a third of projects (35%).

The total number of participants has increased by 35% over PY2 (305 vs. 226). The majority of that increase came from the local government sector (174 participants in PY3 compared to 116 in PY2). The distribution of participants across sectors in PY3 remains nearly identical to that of previous years: local governments represent the majority of participants, K-12 schools represent about one third, and all other sectors represent approximately 2% each of the participant population.

The largest change between PY2 and PY3 occurred with regard to energy savings, which increased by 75%. Local governments, in particular, showed the most dramatic increase in PY3,

nearly quadrupling its savings from PY2 (33.3 GWh vs. 8.8 GWh). As a result, local governments have shifted from representing about a third of ex ante savings in previous years to now generating over half. Community college projects saw the biggest drop in savings in PY3, a 65% decrease compared to PY2.

The average project size increased slightly, from 107 MWh per project in PY2 to 119 MWh in PY3. This is largely driven by increases in the average size of projects implemented by universities and local governments. All other sectors saw somewhat of a decrease in average project size compared to PY2.

The figures below compare the number of projects, participants, ex ante gross energy savings, and average project size by sector and program year.

Figure 3-2. Projects by Sector and Program Year

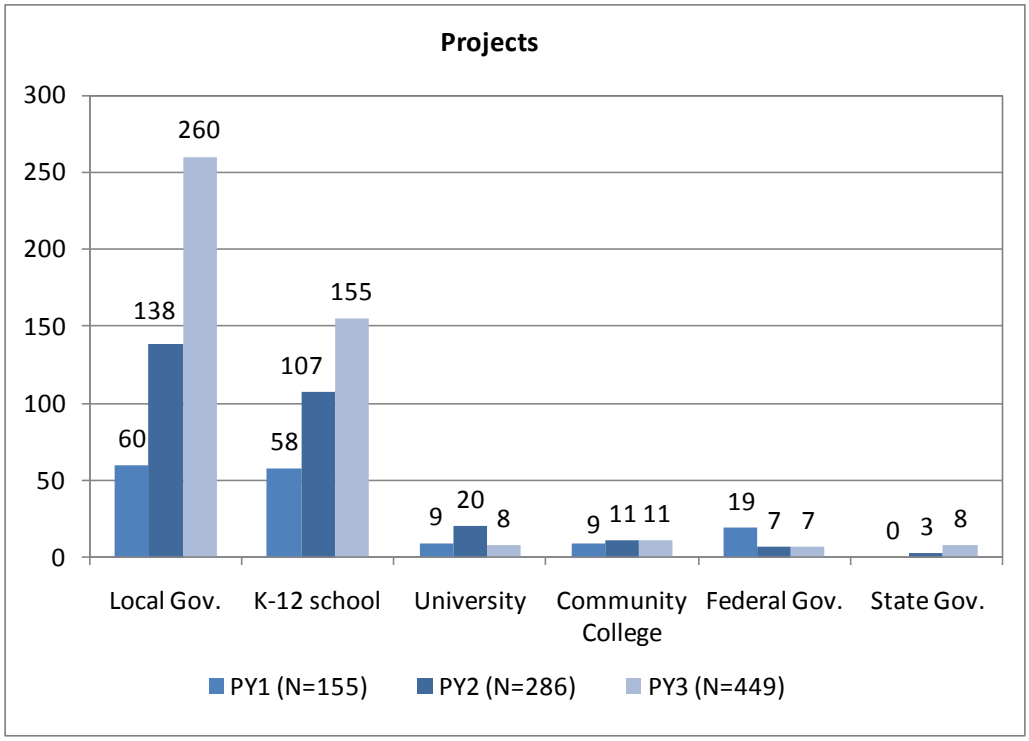


Figure 3-3. Participants by Sector and Program Year

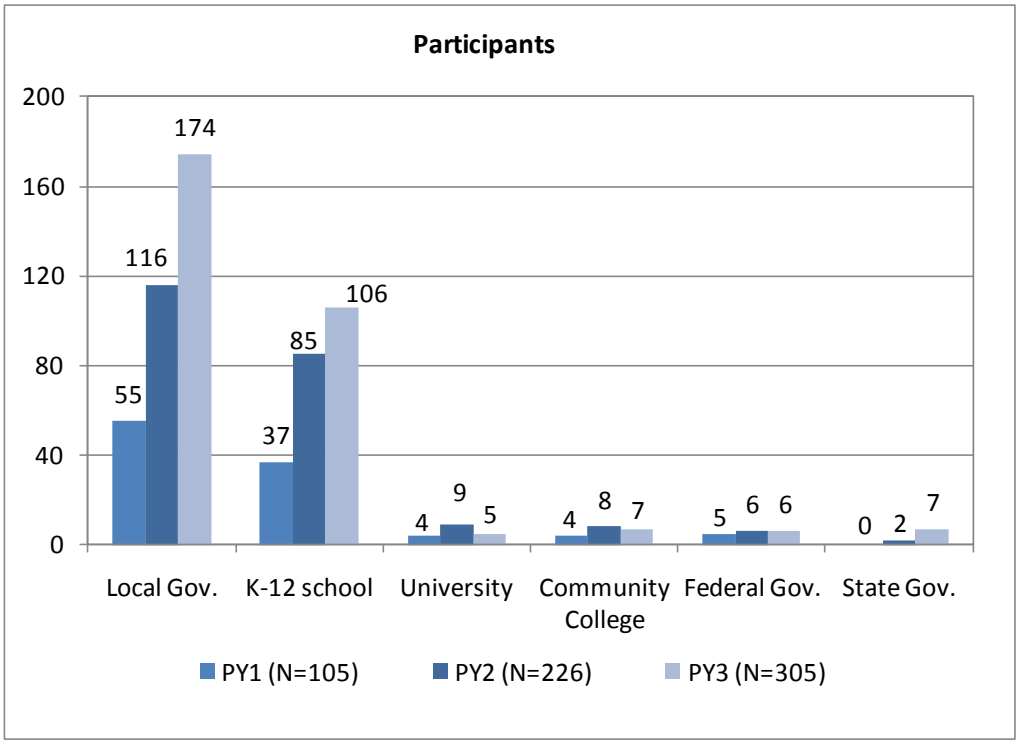


Figure 3-4. Energy Savings by Sector and Program Year

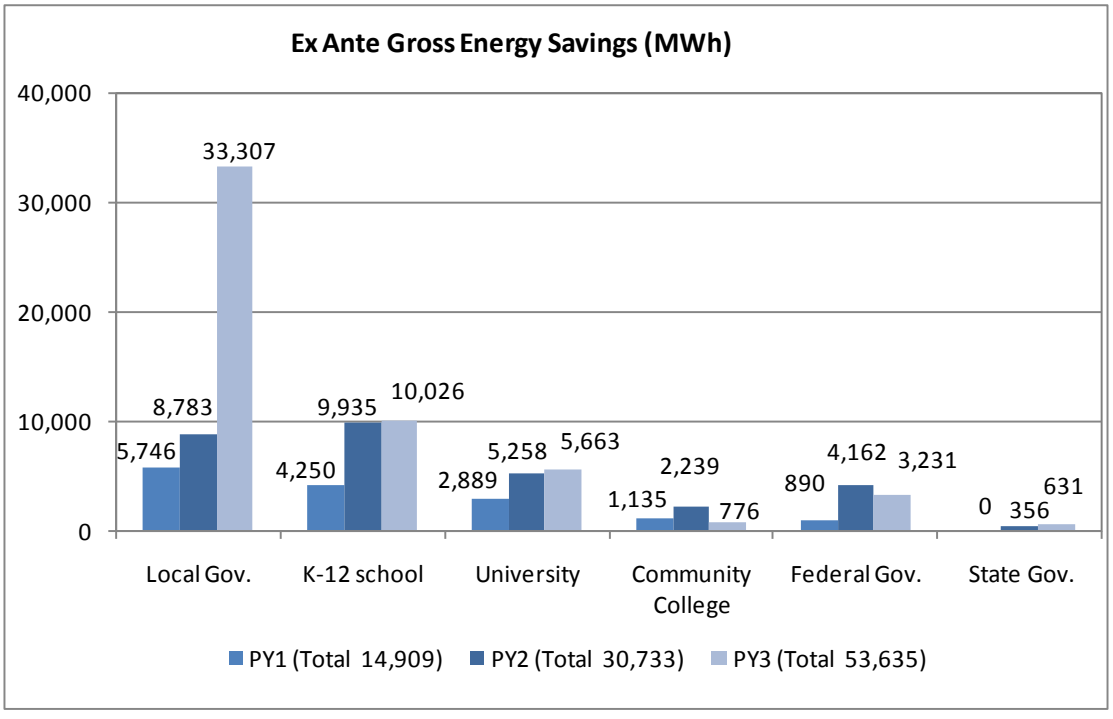
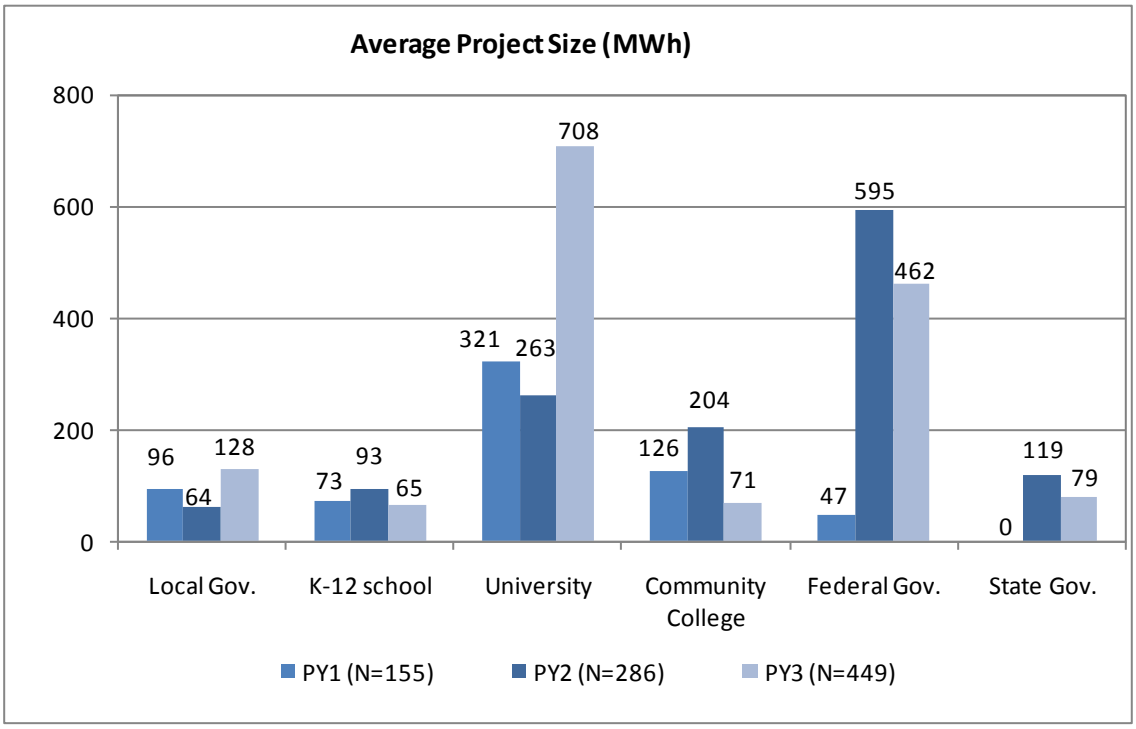


Figure 3-5. Average Project Size by Sector and Program Year



Source: DCEO Program Tracking Database

3.2.2 Program Design and Implementation

In PY3 several key changes were made to the design and implementation of the Standard Program:

Incentives: Program incentive caps were increased to $300,000 (from $200,000 in PY2). A "carve-out" group was developed consisting of local governments, K-12 schools, and community colleges that were offered increased incentive levels.

Promotions: The program conducted two promotions with increased incentive levels for specific sectors or for specific measures.

Resources: The program developed a database to enhance the previous system of tracking participation data in an Excel workbook. In addition, the program hired three new staff members.

Partnerships: The program began partnering with the Illinois State Board of Education (ISBE) to channel K-12 school participants into the program. The program also leveraged its relationship with the Illinois Association of Regional Councils (ILARC), to 1) channel projects with EECBG

funding into the PSEE Program, and 2) offer a 20% bonus for local government entities that applied for but did not receive EECBG funding.

Application Assistance Providers: The program implemented an application assistance pilot program in PY3. DCEO selected a small number of Application Assistance Providers (AAPs) through a competitive bidding process. These trade allies were listed on the program website and were paid a fee per kWh for helping customers through the application process (AAPs received one payment when a pre-approval application was submitted and a second payment when a final application was submitted). This pilot will not be continued in future years.

The following sections provide more information about these and other changes implemented in PY3.

Incentives

In order to induce participation, a few changes have been made to the program incentive structure in PY3. First the incentive cap was increased from $200,000 in PY2 to $300,000 in PY3. Despite this increase, over a quarter of participants report that the scope of their project was either limited (23%) or somewhat limited (3%) by the incentive cap.

Also, a "carve out" group was developed in PY3. This group (local governments, K-12 schools, and community colleges) received higher incentive levels than federal and state governments, and universities.

Promotions

The program offered two promotions in PY3, the IEN Lighting Special and the Non-EECBG 20% Bonus.

Illinois Energy Now Lighting Special

The program conducted a lighting special where incentives for certain lighting measures were increased by 20-50%. The PY3 lighting special leveraged the lessons learned in PY2: While the PY2 Green Spring Sale was very successful in increasing participation, the timing of the promotion – towards the end of the program year – resulted in a backlog of payment processing. As a result, the program planned its PY3 lighting special earlier in the program year (December through April).

Program staff found the lighting special to be a success, with over a quarter of Standard projects (29%) participating in this promotion.[14] Of the 77 participants who completed the survey, 25

[14] Based on a data excerpt entitled "Promotions," received from DCEO on August 22, 2011.

received the lighting special incentive. Nearly all of them (88%) are aware that they participated in the promotion; 64% were aware at the time they decided to upgrade their lighting. Most lighting special participants found out about the promotion through a contractor, supplier, or vendor (45%), an e-mail (14%), or DCEO (14%).

Notably, lighting special participants are more likely to report that they are "very satisfied" (a rating of 10 on a scale of 0 to 10) than others with DCEO overall, the program overall, the incentive amount, and communication with DCEO staff. However, more than half of those who were aware of the increased incentive (52%) say they would have been likely to install exactly the same equipment with the regular incentive.[15] Given these responses, it is unclear how effective the bonus incentive was in attracting new projects.

Non-EECBG 20% Bonus

In collaboration with the Illinois Association of Regional Councils (ILARC), the Standard and Custom Programs offered a 20% bonus for local governments in PY3 (the Non-EECBG 20% Bonus). This bonus was available for local governments that submitted Federal Energy Efficiency & Conservation Block Grant (EECBG) applications to their Regional Planning Agencies but were not selected for funding. The promotion was implemented to increase participation among local government entities. Based on program records, only four Standard projects (or less than 1% of all Standard projects) received this bonus.

Program Resources

Several changes took place in PY3 with regard to program resources:

Database development: According to program staff, the development of a program tracking database was a key activity in PY3. Deployment of a new database system was intended to reduce administrative burden and allow multiple staff to enter data into the database at the same time. Staff members agree that the database has allowed them to be more productive and efficient in terms of processing paperwork and generating reports. However, the development of the database, along with database user training, required substantial effort and time on the part of program staff. Moreover, program staff point out that entering all related project data into the system is more time consuming than the previous system (because more information is captured) and that many report automation capabilities that would be useful in conducting their work were not yet available in PY3.

[15] "Likely" is defined as a score of 7 to 10 on a scale from 0 to 10, where 0 is "not at all likely" and 10 is "extremely likely."

Increased Staffing: In PY3, DCEO hired more staff, bringing the total to nine staff members within the PSEE Program. Starting in PY2 and continuing in PY3, the PSEE Program have leveraged employees hired to support the implementation of the American Recovery and Reinvestment Act of 2009 (ARRA). These employees will transition full time to the PSEE Program as ARRA work phases out by January 2012. According to program staff, the additional resources have allowed the program to keep up with the increased volume of applications in PY3. However, other demands on staff's time (including the preparation for the integration of natural gas programs in PY4 and the processing of stimulus fund-related incentives) have continued in PY3.

Staffing Segmentation: In PY3, DCEO transitioned toward more staff specialization where individual staff members are assigned projects based on the sectors and utility service territories of the participant. This allows participants to work with the same staff member throughout their project and across years.

Participation and Application Process

The participation process has remained largely unchanged from previous years. Every Standard project still has to undergo several steps, including project application, final paperwork, payment processing, and incentive disbursement. In addition, certain projects are subject to pre- and post-inspections to qualify for an incentive.

Similar to previous years, the application process includes a pre-approval application (not required) and a final application. Only minor changes were made to the PY3 application process:

Carve-out Applications: Two separate application forms were developed for different sectors. As part of an effort to direct three quarters of its funding to specific sectors, a "carve-out" group (local government, K-12 schools, and community colleges) was developed. The carve-out group was provided with a distinct application form that reflects the higher incentive levels compared to non-carve-out entities (federal and state government and universities).

Project Timelines: In PY3 program participants were required to submit the final application within 45 days of project completion, as opposed to 60 days in previous years.

Application Assistance Providers: In PY3 the program implemented a pilot effort that used Application Assistance Providers (AAPs) to help customers with the application process. As part of this effort, the program selected a small number of trade allies and listed them on the program website. However, this pilot was not as successful as expected and will not continue in future years (see Trade Allies section for further details).

A majority of participants (73%) fill out the program paperwork themselves. Most of these customers (80%) feel that the application forms clearly explain the program requirements and

participation process. More than two-thirds of those who filled out the paperwork themselves (68%) rate the application process as easy, but some (11%) rate the application process as difficult.[16] Participants in the lighting special are significantly more likely to rate the application process as easy than those who did not receive these incentives (89% vs. 58%). Overall, participants appear to find the application process more difficult than in PY2: in PY3, the average rating was 6.9 (in the "neutral" range) compared to 7.7 (in the "easy" range) in PY2.

In addition, the most common drawback to participating in the program, identified by participants, is that the paperwork is too burdensome (13%).

3.2.3 Program Partnerships

DCEO has developed a number of partnerships that help channel participants into the program and support participants through the participation process. Program staff emphasized the importance of the partnerships the program has maintained over the years and those that were newly developed in PY3.

Smart Energy Design Assistance Center

The Smart Energy Design Assistance Center (SEDAC) continues to be one of the program's closest partners. SEDAC currently supports several key functions for the PSEE Program. These functions are generally conducted in collaboration with DCEO and supported by DCEO funding. They include producing and distributing marketing materials; educating public entities about the PSEE Program; and providing technical design and project implementation assistance. One DCEO staff member notes that expanding SEDAC's role in the program in the future would be beneficial, and plans have been made to enlist SEDAC in the development of a trade ally network in PY4.

Results from the participant survey confirm that SEDAC plays a role in supporting DCEO and that it is effectively channeling participants into the PSEE Program. Nearly a third of program participants (29%) recall attending a SEDAC event that discussed the PSEE Program, and more than a quarter (26%) have received information about the PSEE Program through the SEDAC newsletter. In addition, 19% received technical assistance from SEDAC.

Of participants who used a contractor, most did not use a contractor affiliated with SEDAC (45%), or they did not know if their contractors is affiliated with SEDAC (49%). However, nearly

[16] "Easy" is defined as a score of 7 to 10 on a scale from 0 to 10, where 0 is "very difficult" and 10 is "very easy." "Difficult" is defined as a score of 0 to 3.

half of them (43%) find it important that their contractor is associated with SEDAC or an energy efficiency program.[17]

Illinois Association of Regional Councils

The program targets 75% of its funding towards local governments, K-12 schools, and community colleges. To achieve this level of participation, DCEO has partnered with other relevant public organizations, including the Illinois Association of Regional Councils (ILARC). As part of this effort, DCEO provided training to ILARC's Regional Planning Agencies on PSEE Program opportunities. ILARC guidelines required communities that received EECBG funds to also apply under the PSEE Program, where eligible.

Based on the program tracking database, the number of local government projects in PY3 increased by 88% compared to PY2. Program staff estimates that as many as 100 PSEE applications were generated through this partnership; however, some of these applicants dropped out of the program. The final PY3 program tracking database shows that a total of 81 standard and custom projects received EECBG or Non-EECBG 20% Bonus funding; 73 of these were standard projects (16% of all standard projects). Over a quarter (27%) of participants who say they received funding from another public source (n=26) say it was EECBG funding, and all say it was an important factor in their decision to implement the project.[18]

Illinois State Board of Education

In PY3, the Illinois State Board of Education (ISBE) began awarding Energy Efficiency Grants, dollar for dollar state matching grants providing up to $250,000 for energy efficiency projects in schools. All school districts, charter schools, vocational centers, or public university laboratory schools are eligible. DCEO collaborated with ISBE by sharing marketing and outreach efforts and by channeling participants into each other's programs. Participants were then incentivized by each entity for eligible measures. In PY3, the number of K-12 school participants in the Standard Program increased by 23% compared to PY2.

Ameren Illinois Utilities and ComEd

In PY3, DCEO continued to leverage Ameren Illinois Utilities and ComEd's activities in promoting the PSEE Program. The three entities coordinate through monthly conference calls in which marketing and outreach and other issues are discussed. The utilities include DCEO at events and in outreach efforts. Like in previous years, DCEO helped fund, co-sponsor, and attend some larger PY3 outreach events with the utilities.

[17] A rating of 7 to 10 on a scale of 0 to 10, where 0 is "not at all important" and 10 is "very important."
[18] A rating of 7 to 10 on a scale of 0 to 10, where 0 is "not at all important" and 10 is "very important."

DCEO continues to conduct training sessions for utility account managers. Program staff remarked that account managers are more knowledgeable about and engaged in the PSEE Program each year. Some account managers provide marketing support while others simply refer public sector customers to DCEO.

Participant survey responses also indicate that account managers play a role, albeit a small one, in supporting the Standard Program:

- Nearly one third of program participants (31%) report having a utility account manager. Notably, ComEd PSEE participants are significantly more likely to have an account manager than Ameren Illinois Utilities customers (50% vs. 13%).
- A little less than half of these individuals with an account manager (43%) recall discussing the program with their account manager, and the same percentage recall receiving assistance with project implementation from the account manager.
- Only 3% of participants who have an account manager first found out about the program from the account manager.

3.2.4 Trade Allies

In the first two program years, DCEO leveraged the trade ally networks of SEDAC, ComEd, and Ameren Illinois Utilities by referring potential participants to their lists of qualified contractors. In addition, DCEO directs marketing and outreach efforts towards these networks to inform trade allies of the PSEE Program.

In PY3, DCEO continued to leverage these existing networks, but made an attempt at developing its own network of contractors through a pilot effort under the Building Industry and Training Education Program (BITE). As part of this effort, DCEO selected a small number of Application Assistance Providers (AAPs) through a competitive bidding process. These trade allies were listed on the program website and were paid a fee per kWh for helping customers through the application process (AAPs received one payment when a pre-approval application was submitted and a second payment when a final application was submitted). Overall, program staff did not find this pilot effort to be a productive use of program resources. While AAPs assisted with 5% of standard projects (based on program records), the quality of applications was not substantially improved. As such, the AAP pilot was discontinued. DCEO plans to develop a formal trade ally network in PY4.

The telephone survey with program participants included questions about their use of contractors, their contractors' affiliation with SEDAC or the utility trade ally networks, and satisfaction with their contractors. Responses to the survey show that trade allies play an important role in the implementation of projects and channeling of participants:

Most participants (88%) used a contractor or vendor for their project.

The majority of participants (81%) mention a trade ally as the resource who provided the most assistance in the design and specification of the installed equipment: More than half (58%) named a contractor, equipment installer, designer, or consultant, and 22% named an equipment distributor, supplier, or vendor.

The most common way participants in the PY3 lighting special learned about the promotion was through a trade ally (32%). Notably, those who participated in the lighting special are significantly more likely to have heard about the PSEE Program through a contractor or trade ally than those who did not (24% vs. 8%), indicating that this special offering induced trade allies to more actively promote the program.

While only 6% of participants who used a contractor reported that their contractor was affiliated with SEDAC, 43% say that such an affiliation (either with SEDAC or a utility program) is important.[19]

More than a quarter of participants (28%) first heard about the program from a trade ally.

The vast majority of PY3 participants report that their contractor was able to meet their project needs (88%) and that they would recommend their contractor to others (94%).

These findings support DCEO's plans to develop its own trade ally network in PY4. This network is planned to be similar to that of the utilities where trade allies are enticed to participate by being eligible for incentives themselves.

3.2.5 Program Marketing & Outreach

In PY3, the PSEE Program was re-branded as *Illinois Energy Now* (IEN). The branding effort included usage of the IEN logo on all program marketing materials and revisions to the program website. DCEO produced limited marketing materials in PY3. However, the majority of participants who recalled seeing program marketing materials (84%) found them to be useful.[20]

Key marketing and outreach activities included:

Events: DCEO gave presentations at 52 workshops, conferences, and meetings in PY3 with an estimated total attendance of over 2,500. Target audiences included a range of public sector groups and organizations, as well as trade allies. Overall, 29% of participants recall attending

[19] "Important" is defined as a score of 7 or higher on a scale from 0 to 10, where 0 is "not at all important" and 10 is "very important."
[20] A response of "very useful" or "somewhat useful."

one of DCEO or SEDAC's events, and 23% recall hearing about the PSEE Program at a utility event. However, only 5% *first* learned about the program at an event.

IEN Promotion: The IEN lighting special accounted for over a quarter of completed standard projects (29%). The most common way these participants learned about the promotion is through a trade ally (32%).

Webinars: DCEO continued conducting the webinars in PY3. According to program staff, webinar attendance has steadily grown during PY3. Some webinars were attended by up to 300 people. For example, the program held one well-attended webinar promoting the IEN Lighting Special directed at Ameren Illinois Utilities and ComEd trade ally contacts. Nearly a fifth of participants (18%) heard about the program during a webinar.

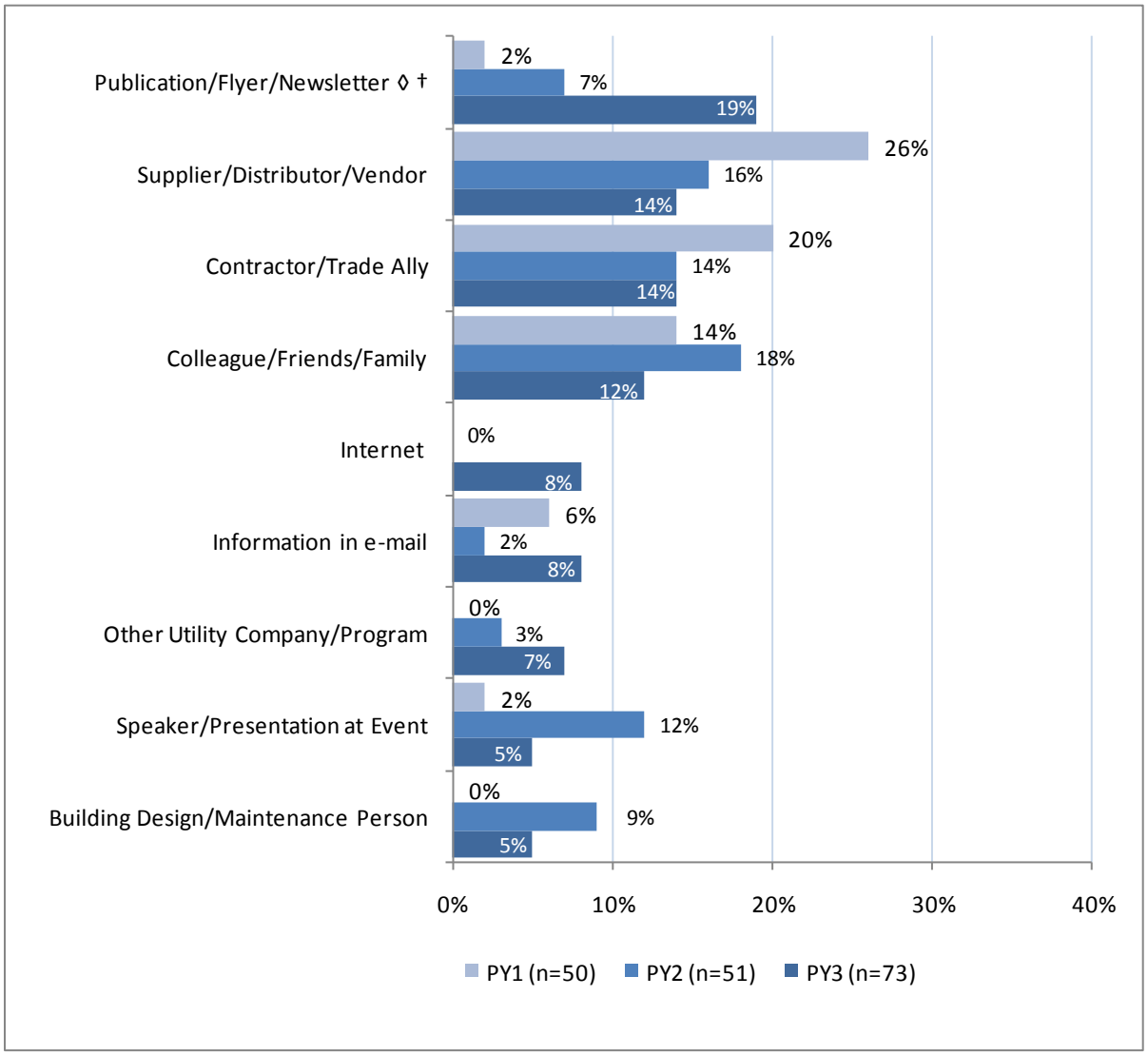
Elected Officials: DCEO made efforts to leverage the work of elected officials and representatives – such as state senators – by encouraging these officials to speak about the PSEE Program in their communities.

SEDAC Electronic Correspondence: DCEO continued leveraging SEDAC's electronic newsletter and contact list to disseminate news and information about the program. About a quarter of participants (26%) recall seeing information about the program in the SEDAC/DCEO newsletter and over half (56%) recall seeing information about the program in an email.

In PY3, participants first found out about the program from a range of sources. The contribution of contractors and other market actors in promoting the program (28%) supports DCEO's planned efforts to develop its own trade ally network. In PY3 a significantly greater share than in previous years (and the largest share, 19%) learned of the program through print materials (publications, flyers, and newsletters).

Figure 3-6 summarizes the ways participant first heard about the program.

Figure 3-6. How Participants First Learned about the Program (Unprompted)



◊ Denotes a significant difference between PY3 and PY1 at the 90% confidence level.
† Denotes a significant difference between PY3 and PY2 at the 90% confidence level.
Note: Response categories under 5% in PY3 have been omitted.
Source: PY1, PY2, and PY3 CATI Participant Surveys

The survey also asked participants about various sources through which they might have obtained information about the program in the past. Key findings include:

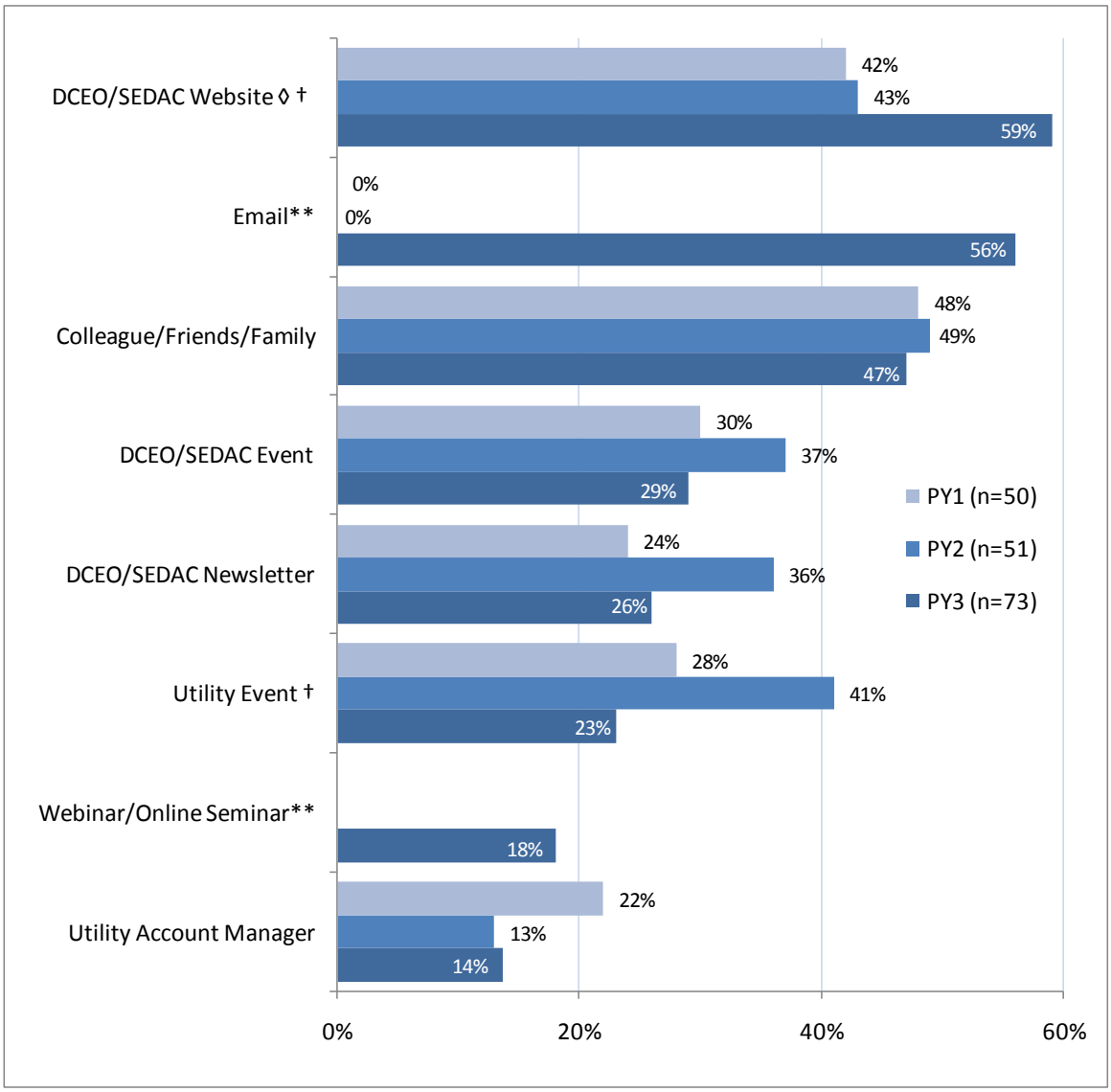
Electronic media are an important way of disseminating information about the PSEE Program. Over half of participants (59%) have visited DCEO or SEDAC's websites to learn about the

program. This is a significant increase over previous years (43% in PY2 and 42% in PY1). Over half (56%) also received information about the program in an email.

Word-of-mouth continues to be an important way of sharing information about the program. Nearly half of PY3 participants (47%) have heard about the program from colleagues, friends, or family.

Participants in PY3 (23%) are less likely than those in PY2 (41%) to have heard about the program at an Ameren Illinois Utilities or ComEd event. Figure 3-7 summarizes these responses.

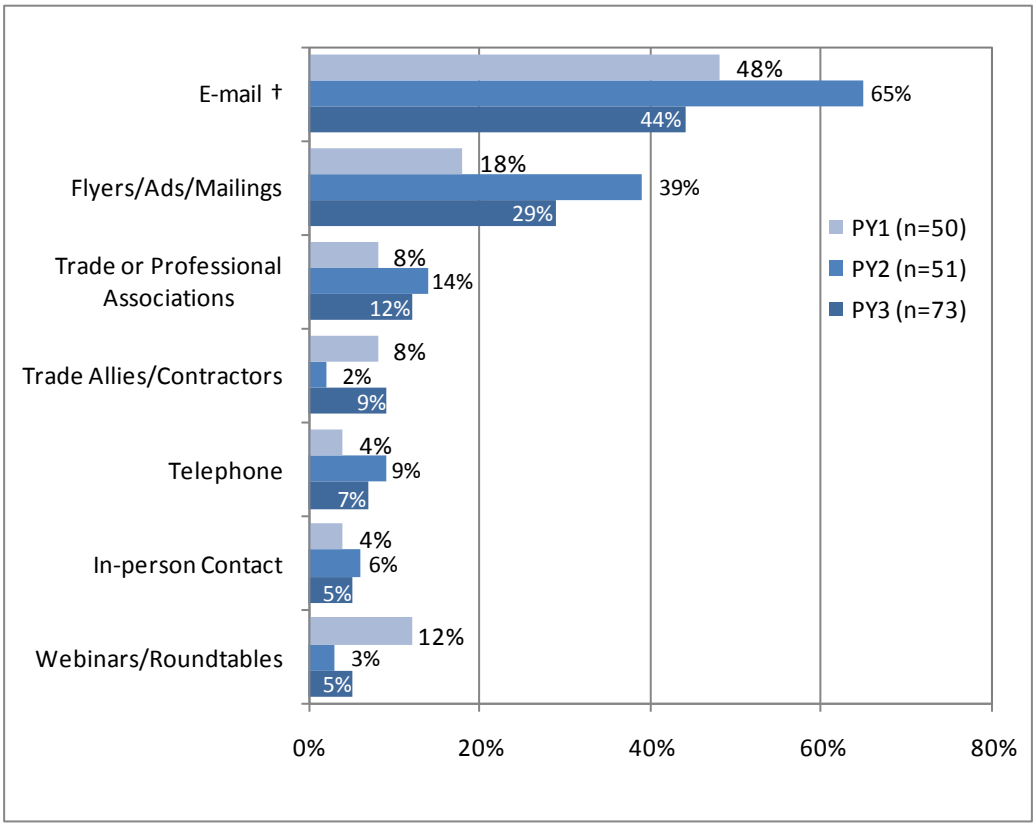
Figure 3-7. Sources of Information about the Public Sector Electric Efficiency Program (Prompted)



◊ Denotes a significant difference between PY3 and PY1 at the 90% confidence level.
† Denotes a significant difference between PY3 and PY2 at the 90% confidence level.
Source: PY1, PY2, and PY3 CATI Participant Surveys
***Channel not asked about in previous years.*

E-mail continues to be the best way of reaching public sector entities with information about energy efficiency programs (44%), but the share of participants who prefer this outreach channel has declined compared to PY2 (65%). Many customers also cite flyers and other mailings (29%) as a preferred method of providing information. Figure 3-8 summarizes these findings.

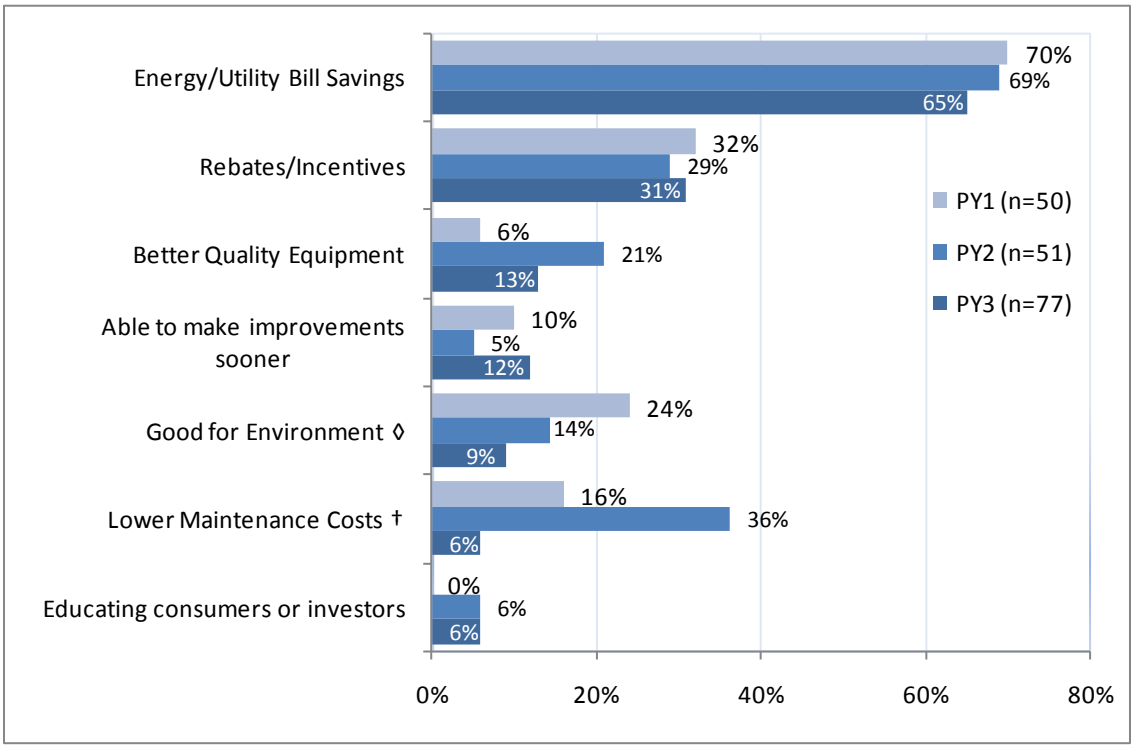
Figure 3-8. Preferred Methods of Contact (Multiple Response, Unprompted)



† Denotes a significant difference between PY3 and PY2 at the 90% confidence level.
Note: Response categories under 5% in PY3 have been omitted.
Source: PY1, PY2, and PY3 CATI Participant Surveys

Similar to previous years, participants consider energy and bill savings the major benefit of participating in the Standard Program (65%). Participants also commonly reference the importance of the rebates and incentives (31%), better quality equipment (13%), and the ability to make improvements sooner (12%). These benefits should be highlighted in marketing messages. Reducing maintenance costs is mentioned significantly less than in PY2 (6% vs. 36%). Figure 3-9 summarizes participant responses about the benefits of program participation.

Figure 3-9. Benefits of Program Participation (Unprompted, Multiple Response)



◊ Denotes a significant difference between PY3 and PY1 at the 90% confidence level.
† Denotes a significant difference between PY3 and PY2 at the 90% confidence level.
Note: Response categories under 5% in PY3 have been omitted.
Source: PY1, PY2, and PY3 CATI Participant Surveys

3.2.6 Barriers to Participation

With increasing program goals, attracting new and repeat participants will become increasingly important in future years. As such, understanding why customers do not participate and what can be done to reduce their participation barriers is important. While this evaluation did not include research with non-participants, the evaluation did include several activities that explored barriers to participation (program staff interviews, interviews with customers who initiated the participation process but did not submit a final application, procurement process interviews, and the participant survey). Based on this research, key barriers to participation include:

Lack of program awareness: In the participant surveys for all three program years, lack of program awareness was most often identified as a barrier to participation. In PY3, 55% of participants thought that this prevented other public sector entities from participating.

Budget constraints: Lack of funding was identified as a barrier to the installation of energy efficient equipment, and thus participation in the PSEE Program, by participants (30%) as well

as program drop-outs and entities interviewed about the procurement process. As the contact for one entity that dropped out of the program in PY3 put it:

> *"As soon as funding is available I want to go ahead with [the project] because we saw such drastic decreases in our bills [after the first project we implemented] that it was well worth our effort to do it now. And I think as we go forward we're going to save even more money."*

Lack of human resources/technical expertise: Lack of technical expertise, or in some cases just personnel to oversee the application process, further affects adoption of energy efficient technologies and participation in the PSEE Program. Program staff found that some of the smaller entities that came to the program through their EECBG funding simply did not have the resources to complete the application process (either personnel or physical office supplies).

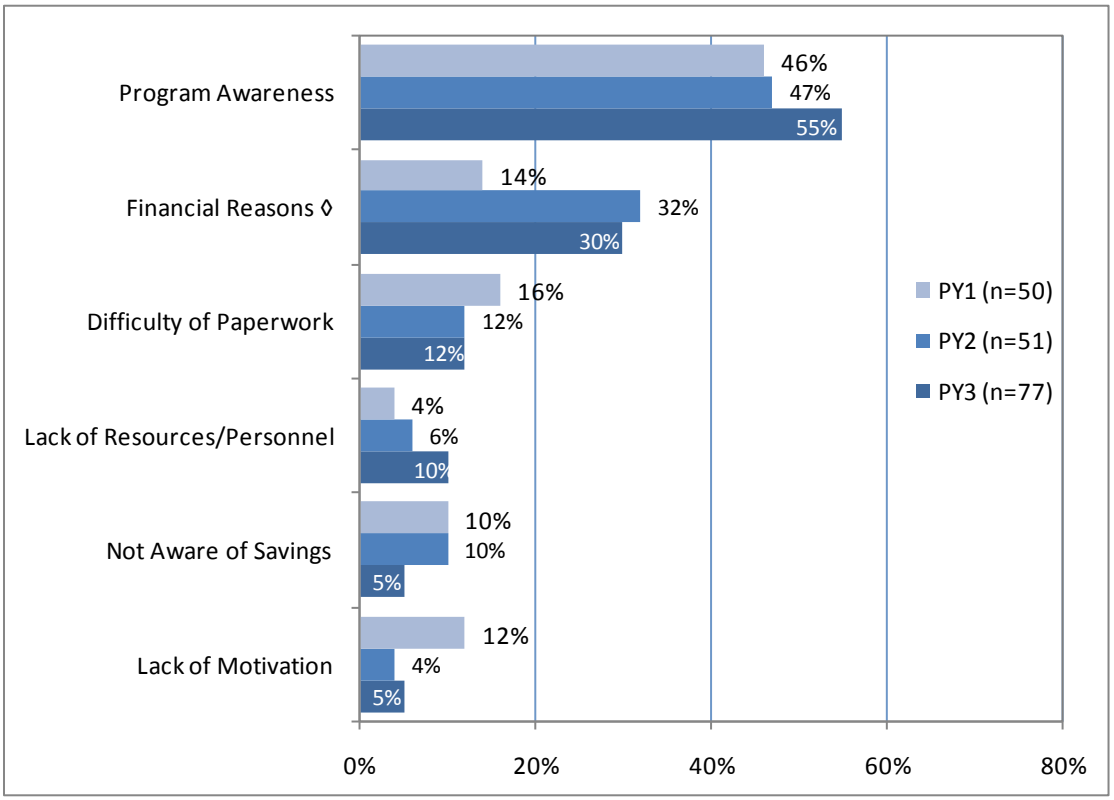
Procurement process: In the first program year, program staff identified the length and timing of the budget planning process as one of the major barriers to participation. Since public sector budgets are generally set far in advance, many customers did not have a chance to take advantage of the program in PY1 because the budgeting process for the year had already taken place. Research conducted for the PY3 evaluation confirm that the budgeting and procurement process is usually lengthy, often requiring multiple approvals and extensive project documentation, which can lead to delays in implementing projects and participation in programs like PSEE. Detailed findings from the procurement process research are presented in a later subsection.

Competing funds: According to program staff, some projects dropped out of the program because the entity received direct stimulus grants from the federal government. These entities had started to work with DCEO but then dropped out when they learned that federal funding would cover 100% of the project cost.

Additional findings from our interviews with program drop-outs and entities interviewed about the procurement process are presented in the next two subsections.

Figure 3-10 summarizes responses to the question – "What do you think are the reasons organizations like yours do not participate in this program?" – from the PY3 participant survey, compared to PY1 and PY2.

Figure 3-10. Reasons for Non-Participation (Unprompted, Multiple Response)



◊ Denotes a significant difference between PY3 and PY1 at the 90% confidence level.
Note: Response categories 5% and under PY3 and "don't know" responses in PY3 are not included.
Source: PY1, PY2, and PY3 CATI Participant Surveys

3.2.7 Program Drop-outs

Understanding why applicants drop out of the program was a topic of interest to program staff in PY3. The evaluation team conducted interviews with 21 organizations that had filed a pre-approval application but did not submit a final application in PY3. Notably, 16 of these 21 organizations reported that they had already resubmitted their application for PY4 or were planning to do so. These individuals explained that their projects had been delayed due to difficulty obtaining funding and/or the timing of non-DCEO grants. According to program staff, EECBG funding could be used in either PY3 or PY4. Some applicants started the DCEO

application process in PY3 but did not implement the project within the program year, causing them to "drop out."[21]

Interestingly, some applicants dropped out of the PSEE Program *as a result* of receiving federal stimulus money. As explained above, these entities had started to work with DCEO but then dropped out when they learned that federal funding would cover 100% of the project cost. While some projects were lost this way, other recipients of direct stimulus grants expanded the scope of their original project, or implemented additional projects, to take advantage of the DCEO funding.

Of the five interviewed drop-outs who have not resubmitted their application in PY4 and do not intend to do so, two implemented their project without the DCEO incentive and three are not planning to complete the project:

Of the two entities that implemented the project without the DCEO incentive, one did not submit the final application because of staffing changes and the resulting lack of a person responsible for finalizing the grant application. The other did not know how and where to submit the final application. However, both indicated that the availability of DCEO funding was very influential on the initial decision to implement the projects and that the projects would not have been of the same efficiency levels without the program's incentive opportunities and information. These two projects present a missed opportunity for the program, however, they do appear to be participant spillover.

The other three drop-out applicants never completed the project and do not plan to do so in the near future. Reasons for not completing the projects include project costs, an inability to secure supplemental funding, and structural limitations that prevented equipment installation. None of these respondents had any suggestions for ways DCEO could have helped them to complete those projects as payback and upfront costs are their organizations' primary considerations when investing in energy efficiency.

Overall, applicants like these five drop-outs present an opportunity for DCEO in the future. Most cite budget shortages and overall lack of funding as the core barriers to adoption of energy efficient equipment. However, all rate their facilities as either somewhat energy efficient or not very energy efficient, and nearly all plan to make additional improvements and are likely to consider energy efficient options. In addition, two drop-outs pointed to lack of technical expertise as a barrier to energy efficiency, and all five respondents rated themselves as being only somewhat knowledgeable about energy efficiency. Following up with these applicants,

[21] It should be noted that in PY3, the program tracking database did not have the ability to reassign an applicant from PY3 into PY4. As such, the database identifies any project that started the application process in PY3 but was not completed as "cancelled."

informing them about PSEE opportunities, and offering additional technical assistance and support might result in additional projects in the future.

3.2.8 Public Sector Equipment Procurement Process

The equipment procurement process of public organizations is fundamentally different from that of private ones, and it can present a challenge with respect to participation in energy efficiency programs. To further examine this process, and how the PSEE Program might help potential participants overcome the challenges associated with it, the evaluation team conducted in-depth interviews with public sector personnel involved in the equipment procurement process. We interviewed ten entities who participated in PY3. These entities represent a range of public sectors including local governments (6), K-12 schools (3), and federal government entities (1).

Project Funding

Public sector entities use a variety of funding sources to pay for equipment replacement projects. For the majority of interviewed entities, capital improvements are budgeted for as part of the facility maintenance funds or general building operating expenses, which are then rolled into overall school, county, or other budgets. In addition, some entities utilize life safety funds, bonding issue, or additional taxes for capital improvements. These funding sources are frequently supplemented with available grant opportunities, such as the PSEE Program.

Based on the interviews we conducted, there do not appear to be any caps or limitations for the costs of equipment upgrade projects.

Documentation required to reserve funding varies from general cost assumptions to detailed project specifications with ROI and payback calculations and a rationale for undertaking the project.

Budget Planning

Since capital improvements are often part of a school or county budgets, planning such improvements often goes hand-in-hand with the fiscal year planning process deadlines. All counties in Illinois have a fiscal year of December 1st through November 30th; planning for the year's budget starts in August. Fiscal years for other public sector entities vary. Notably, three of the ten interviewed entities mentioned having long-ranging capital improvement plans (three- and five-year plans) for larger equipment replacement projects. These plans outline priorities for the upcoming years; they are then further revised, specified, and incorporated into annual budgets.

A respondent from a local government entity explained that incorporating unforeseen projects into long-ranging plans is possible, yet onerous:

> *"You can submit a request [to amend long-ranging plans], which I had to do for next year's budget, but […] you have to go through the process and put everything together and justify why you want to do what you want to do."*

Timing of Project Implementation

No single time of year appears to be ideal for project implementation. For example, all K-12 school representatives name summer as the best time for all equipment upgrade projects; one local government facility prefers to implement the projects in the fall, while another one says that spring is the best time. The remaining five respondents do not have a preference or say that the timing is equipment-specific.

Project Approval Process

Project approval steps vary among interviewed entities but generally include the following three common steps:

- **Cost estimates and project specifications:** This step can be performed by an in-house staff or outside engineering professional, sometimes with contribution from internal maintenance staff, the department of public works, or other individuals or entities.
- **Bidding process and winning bid selection:** This step generally includes issuing request for bids or proposals, an internal review of bids once they are submitted, and development of recommendations on the winning bidder.
- **Project approval:** depending on the entity, this step usually includes voting by the board of trustees, board of education, county board, or city council.

Interestingly, the order of the above mentioned steps varies. Within some interviewed public sector entities, the board approves project specifications and budgets before requests for bids are issued, while within others, the board approves the project after the bids are fielded. In cases where project specs do not undergo the board or council approval prior to issuing request for bids, individuals such as city managers, department heads, internal maintenance staff, or engineers review the accuracy of the project scope and pricing. In cases where bids are not reviewed or approved by the board or council, this step is performed by engineers or central purchasing department.

Within one local government entity, board approval is required both before the bid is issued and for the final selection of the winning bidder. One federal government entity requires several levels of project approval:

> *"Well [there are] many steps. It's got to go to the director of property management. Then it goes to asset management, and then above that it goes to executive director of office properties, and then after that it's got to […] be approved by ownership."*

The duration of the project approval process among interviewed entities ranges from four to six months.

Bidding Process

All of the interviewed entities have project cost thresholds that require a formal bidding process, with $20,000 being the most frequently cited cut-off amount below which the projects can be approved internally and procured directly without a need for an official bid request or board or council approval/voting. However, most of the interviewed public sector entities issue an informal request for bids regardless of the project costs, with the goal of ensuring competitive project pricing. Furthermore, a few respondents mentioned that they inform their board of the project or project-related decisions, even when board approval is not required. This is done in order to keep all the parties informed and maintain a good working relationship.

When it comes to awarding the bids, most of the public sector entities have either a requirement or a recommendation to award the project to the lowest qualified bidder. According to one respondent, proving that quality should come before cost presents its own hurdle:

> "*We have to take the lowest responsible bidder but at times […] we can demonstrate why the low bid is not the one to go with. If we have some valid reasons for rejecting their bid – […] if we get a bad reference or we hear that they didn't complete the project on time – but you do have to validate that in writing. You can't just decide arbitrarily to not take the lowest bid; you have to have some pretty good rationale for not accepting it."*

Within one local government entity, there are ordinances in place that recommend selection of a local contractor. Most other interviewed public sector entities, however, do not have a requirement to give preference to a specific contractor type (e.g., local, women-run, etc.). A few respondents however, noted that in case of competitive bids, they give preference to local contractors. The tendency to select the lowest bidder does not present a barrier to energy efficiency, as project specifications are tightly formulated and outlined to bidding contractors at this stage in the process.

Role of Energy Efficiency

The importance of energy efficiency varies across the interviewed public sector entities. While not a formal requirement for any of the interviewed entities, three out of ten respondents said

that energy efficiency is a top priority, two more said it is one of the main factors (along with cost), and one respondent said that energy efficiency is of greater importance for certain equipment options (such as motors).

Procurement Process Challenges

Procurement process challenges mentioned by respondents include difficulty obtaining funding and developing project scope. Few of the interviewed entities have difficulty securing contractors to perform the work. One respondent, however, noted that while it is fairly easy to secure contractors for more common types of projects (such as lighting or HVAC projects), finding qualified contractors for specialized projects (such as water treatment or sewer plant retrofits) can present a challenge. Another respondent found that lack of internal technical expertise, when defining project scope and specifying equipment characteristics, is a challenge. This might present an area where DCEO can provide additional assistance to its customers. A DCEO specific trade ally network, planned for PY4, might help connect public sector entities to specialized contractors. Through SEDAC, additional technical assistance and support is available to customers who lack such resources.

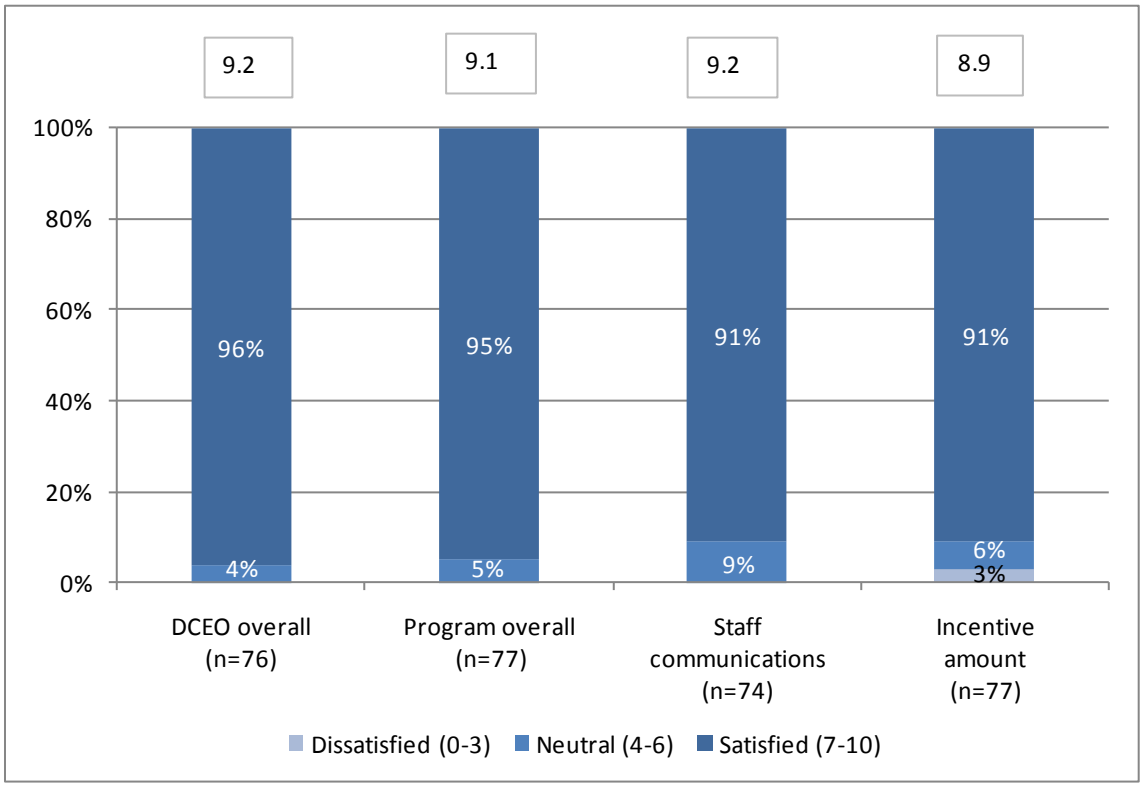
3.2.9 Participant Satisfaction

Participants are very satisfied with the Standard Program. Participants were asked to rate – on a scale of 0 to 10, where 0 means "very dissatisfied" and 10 means "very satisfied" – four aspects of the program: DCEO overall, the program overall, staff communications, and the incentive level. More than 90% of participants are satisfied with all four of these program aspects.[22] Figure 3-11 summarizes these results.

In addition, all participants interviewed about their procurement processes are very satisfied with their participation process and their interactions with DCEO.

[22] A rating of 7 to 10.

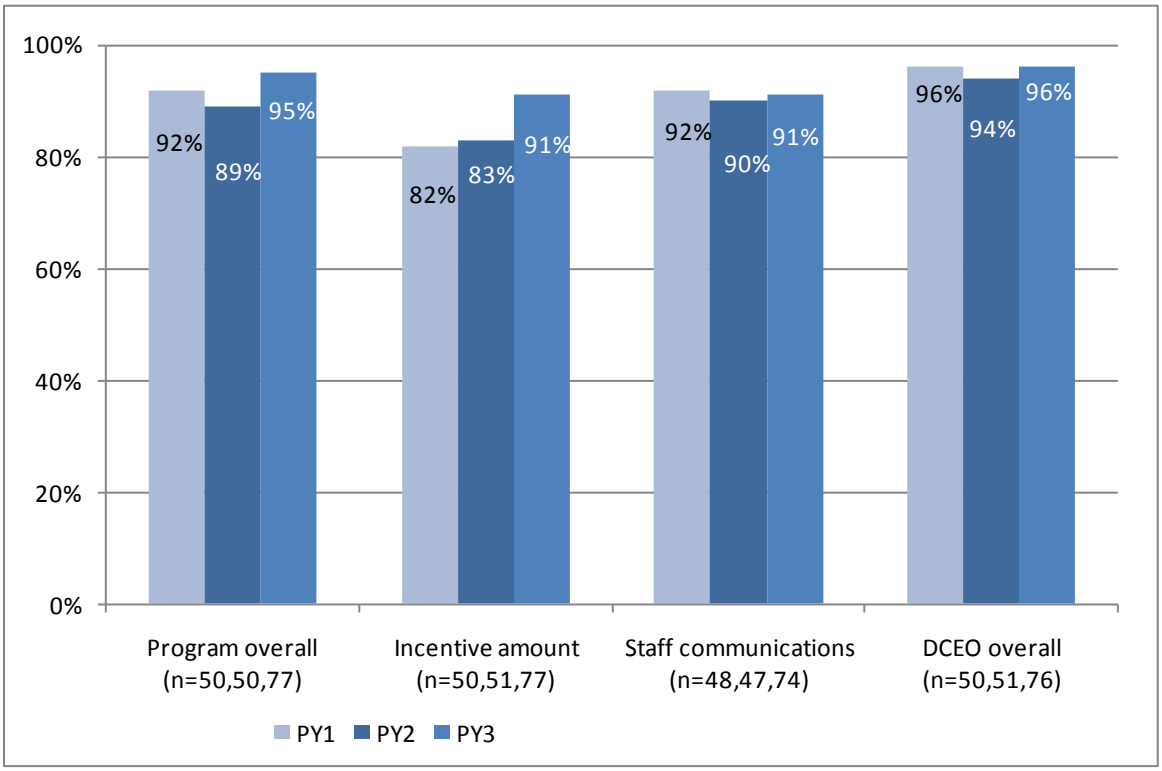
Figure 3-11. Program Satisfaction



Source: PY3 CATI Participant Survey

Satisfaction with the program and its elements in PY3 is largely unchanged from previous years. Satisfaction with the incentive amount is higher in PY3 compared to PY1 and PY2 (statistically significant difference in mean rating), reflecting the increasing incentive levels since PY1. Figure 3-12 summarizes satisfaction levels in the three program years.

Figure 3-12. Percent Satisfied by Program Year



Source: PY1, PY2, and PY3 CATI Participant Surveys

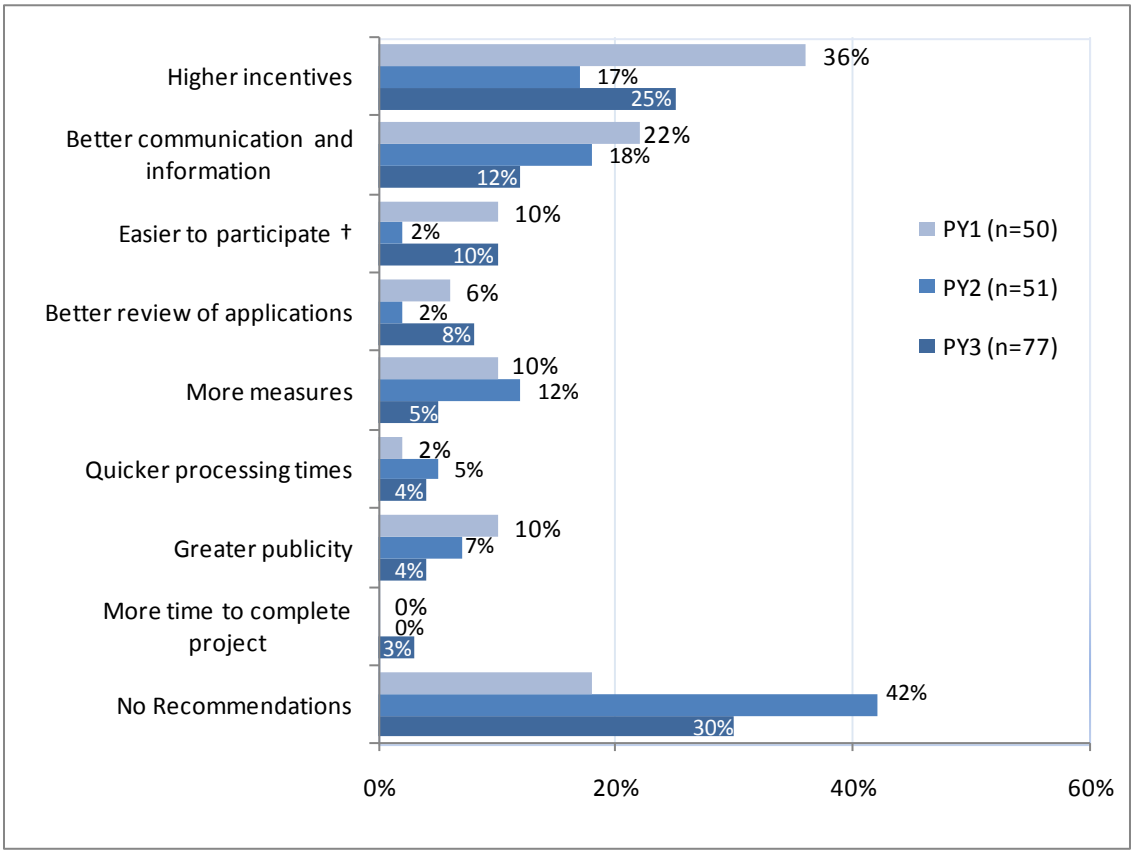
Given the high levels of satisfaction, it is not surprising that most participants plan to participate again in the future (83% say yes, 10% say maybe).

When asked what could be done to improve the program, 30% have no recommendations. Despite increased incentive levels in PY2 and PY3 and the increase in satisfaction with incentives amounts noted above, the most common recommendation is to increase incentives (25%). Other recommendations include better communication and information (12%), making it easier to participate (10%), and better review of applications.

Participants interviewed about their procurement processes suggest that the program increase marketing and outreach efforts and simplify the applications process.

Figure 3-13 summarizes recommendations provided by PY3 participants, compared to PY1 and PY2.

Figure 3-13. Recommended Program Improvements by Program Year (Unprompted, Multiple Response)



† Denotes a significant difference between PY3 and PY2 at the 90% confidence level.
Response categories under 3% in PY3 have been excluded.
Source: PY1, PY2, and PY3 CATI Participant Surveys

3.3 Cost Effectiveness Review

This section addresses the cost effectiveness of the Public Sector Electric Efficiency Standard Incentives Program. Cost effectiveness is assessed through the use of the Illinois Total Resource Cost (TRC) test. The Illinois TRC test is defined in the Illinois Power Agency Act SB1592 as follows:

> *'Total resource cost test' or 'TRC test' means a standard that is met if, for an investment in energy efficiency or demand-response measures, the benefit-cost ratio is greater than one. The benefit-cost ratio is the ratio of the net present value of the total benefits of the program to the net present value of the total costs as calculated over the lifetime of the measures. A total resource cost test compares the sum of avoided electric utility costs, representing the benefits that accrue to*

> *the system and the participant in the delivery of those efficiency measures, to the sum of all incremental costs of end-use measures that are implemented due to the program (including both utility and participant contributions), plus costs to administer, deliver, and evaluate each demand-side program, to quantify the net savings obtained by substituting the demand-side program for supply resources. In calculating avoided costs of power and energy that an electric utility would otherwise have had to acquire, reasonable estimates shall be included of financial costs likely to be imposed by future regulations and legislation on emissions of greenhouse gases.*[23]

Navigant developed an Excel based TRC model that incorporates all relevant program level data including avoided costs, line losses, gross savings, free ridership, program costs and CO_2 reductions. It then calculates a TRC that meets the requirements of the Illinois Power Agency Act SB1592. The two electric distribution companies (EDCs) that pass funds to DCEO's programs, ComEd and Ameren, utilize different avoided costs in calculating the benefits that accrue from energy efficiency programs; therefore Navigant employed each utility's specific avoided costs to their corresponding energy and demand savings from each program.

Results

Table 3-11 summarizes the unique inputs used to calculate the TRC ratio for the Public Sector Electric Efficiency Standard Incentives Program in PY3. Most of the unique inputs come directly from the evaluation results presented previously in this report. Measure life estimates were based on similar ComEd programs, third party sources including the California Public Utilities Commission (CPUC) developed Database of Energy Efficiency Resources (DEER) and previous Navigant evaluation experience with similar programs. Program costs data came directly from DCEO. Incremental costs were estimated from program, survey data and similar ComEd programs. Avoided cost data came from both ComEd and Ameren and are the same for all programs.

[23] Illinois Power Agency Act SB1592, pages 7-8.

Table 3-11. Inputs to TRC Model for Public Sector Electric Efficiency Standard Incentives Program

Item	Value Used
Measure Life	12 years
Participants	449[24]
Annual Gross Energy Savings	58,329 MWh
Gross Coincident Peak Savings	8.58 MW
Net-to-Gross Ratio	66%
DCEO Administration and Implementation Costs	$533,848
DCEO Incentive Costs	$13,176,441
Net Participant Costs	$14,695,870

Based on these inputs, the Illinois societal TRC for this program is 1.19 and the program passes the Illinois TRC test.

[24] 449 projects conducted by 305 organizations

Section 4. Conclusions and Recommendations

This section highlights the conclusions and recommendations from the PY3 evaluation of DCEO's Standard Program. The primary evaluation objectives include quantifying the gross and net energy and demand impacts resulting from the rebated measures and assessing program marketing and delivery. Below are the key conclusions and recommendations.

4.1 Key Impact Conclusions and Recommendations

In conducting the PY3 Standard program impact evaluation, the evaluation team has drawn a number of conclusions and recommendations that are presented in this section.

Overall Findings

The PY3 Standard evaluation found that verified gross energy savings were 9 percent higher than savings in DCEO's tracking system, as indicated by the realization rate (realization rate = verified gross / tracking system gross). The PY3 realization rate of 1.09 compares with an estimated value of 1.27 in PY2. The verified net-to-gross ratio (NTGR) of 0.66 estimated for PY3 compares with a value of 0.75 estimated in PY2.

The relative precision at a 90% confidence level for the Standard projects in the sample is ± 7% for the kWh realization rate. The relative precision at a 90% confidence level for the program NTG ratio is ± 7%. In PY3, on-site verification covered 88% of the energy savings in our sample.

The primary factor that raised the Standard energy realization to 1.09 was a common finding, through on-site verification and telephone interviews, of longer hours of use than assumed in the default savings. Factors that tended to lower realization rates on individual projects were adjustments to quantities installed, and adjustments to savings based on installed and baseline equipment performance relative to default assumptions. Findings of lower hours of use than default values lowered the realization rates on some projects. A large proportion of PY3 program savings was for traffic signal projects, including 36% of overall program savings with the City of Chicago, and these projects were not subject to hours of use adjustments.

Comparing PY2 and PY3, the mean NTG ratio decreased from PY2 (0.75) to PY3 (0.66). Although the PY3 results experienced a large increase in the number of smaller projects, these did not have a dramatic impact on the NTG ratio relative to PY2. The primary difference between PY2 and PY3 was that larger PY3 projects had substantially lower NTG ratios than in PY2: for stratum 1, PY3 had a NTG ratio of 0.60 versus 0.70 for PY2, and for stratum 2, PY3 had a NTG ratio of 0.60 versus 0.80 for PY2. In PY3, some large projects had quite low NTG ratios, and a substantial fraction had results in the 0.60 to 0.65 range. Non-programmatic influences identified by respondents with lower NTG scores on these projects were public safety issues and policy requirements.

The mean NTG ratio for the group of respondents who reported receiving funding from other public sources (ARRA, EECBG, ISBE, and Illinois Clean Energy Grants), weighted by ex-ante kWh, was 0.67. For the group of Standard program NTG interviewees that did not mention one of the four other funding sources, the kWh weighted NTG ratio was 0.59. Although we did not generate a precision estimate for these subgroup estimates, it does not appear that receipt of other public funds was on average resulting in a NTG ratio that was lower than the mean value for the overall program.

In PY2, the evidence for spillover was limited and therefore an enhanced effort to estimate it was not included in the PY3 evaluation plan. Although the evidence for participant spillover is limited again in PY3, the DCEO Standard program has reached a size (53.6 million kWh, 449 projects) where it would be worthwhile to attempt to quantify a small percentage spillover in PY4. Therefore, the Standard evaluation team will be conducting an enhanced effort to identify potential spillover candidates and quantify spillover in PY4.

Specific Recommendations and Conclusions

DCEO should consider strategies to increase participation of smaller projects. Projects in the small-size stratum, with savings under 200,000 kWh, had higher gross realization rates and net-to-gross ratios than larger projects, on average.

DCEO should continue strategies to increase participation of fluorescent lighting projects tied to pending Federal fluorescent lighting standards. Open-ended interview responses indicated a concern for the future availability of T12 and standard T8 lamps and this was a motivating factor in some projects. This is an important topic to address in ongoing marketing and outreach efforts.

During PY4, DCEO should consider working with the evaluation team to ensure that statewide technical reference manual development provides additional building types or modifications to existing building types that would be beneficial for reporting energy savings. Although the current set of building types work reasonably well, they were developed by ComEd for commercial businesses and not specifically designed for public building types. After three years of Standard program operation and evaluation cycles, plus work conducted by SEDAC, a substantial set of site collected data is available. The evaluation team has compiled observations from field verification and telephone survey work and can provide additional analysis.

During PY4, prior to closing out year-end ex ante savings estimates, DCEO should consider working with the evaluation team to review default values and ex ante savings calculation outputs to ensure that tracking system output matches values expected by the evaluators. The evaluation team can review default lookup values coded into the tracking system and check the values against the default values documentation, and advise DCEO on any differences. The

evaluation team could also review the output of ex ante calculations as ongoing changes are made in the tracking system.

DCEO should consider working with the evaluation team to facilitate evaluation analysis and reporting of measure-level impact results. The tracking system stores project data at the measure level, however, the evaluation team was not able to produce measure level impacts from tracking data extracts provided by DCEO for the PY3 evaluation. If the evaluation team could extract measure-level savings information it would facilitate savings verification analysis and allow the evaluation team to provide greater detail to reporting.

DCEO should consider additional quality assurance and quality control steps to verify the unit basis and quantities entered into the tracking system. As a general qualitative finding, DCEO was quite accurate on measure quantities claimed, with a common finding being exact or within one or two percent on sampled projects. This is commendable given that some Standard projects have quantity counts that number in the hundreds and thousands. There were instances where projects had recorded the wrong units when recording savings, either recording lamps when the correct unit was an entire fixture, or recording a fixture count when the unit required was lamps. The new tracking system may allow for enhanced checking or alerts regarding individual measure entries.

DCEO should consider additional quality assurance and quality control steps to verify the eligibility requirements on measure types with complex requirements. As a general qualitative finding, equipment was eligible for the measure assigned. Within our sample there was an instance of a high performance T8 lamp and ballast installation not meeting the baseline and ballast requirements, and a project with HVAC measures that did not qualify. The new tracking system may allow for enhanced checking, flags, or alerts regarding individual measure entries.

4.2 Key Process Conclusions and Recommendations

Program Participation

Finding. The Standard Program experienced strong growth in PY3. Ex ante energy savings (75%) as well as the number of projects (57%) and participants (35%) all increased substantially from PY2 levels. Local governments represented the largest share of projects, participants, and energy savings. The average project size increased somewhat (11%), largely driven by increases in the size of projects implemented by universities and local governments. However, while university and Federal government projects tend to be larger than projects implemented by other sectors, the number of university projects decreased from 20 in PY2 to eight in PY3 (although PY3 savings was higher than PY2), and the number of Federal government projects was unchanged (seven each in PY2 and PY3, but the total savings was lower in PY3).

- **Recommendation:** DCEO should consider special offerings for sectors with limited participation but high savings potential. Hard-to-engage sectors with high savings

potential might benefit from specific offerings to encourage more participation. This could include limited-time offerings or a bonus incentive for projects exceeding a certain size. The increase in incentive levels for non-carve out entities (universities and State and Federal governments) in PY4 should help in increasing participation among these sectors.

Program Design and Implementation

Finding. Despite an increase in the incentive cap from $200,000 to $300,000, 26% of surveyed Standard Program participants noted that the scope of their project was limited by the incentive cap.

- **Recommendation:** DCEO should consider allowing more flexibility in removing or increasing the incentive cap. This may help in bringing in larger Standard projects and meeting increasing savings goals. We note that larger projects did tend to have higher free-ridership scores.

Finding. The development of a program tracking database was a key activity in PY3. The new database system was intended to reduce administrative burden and allow multiple staff to enter data into the database at the same time. While the new database has helped with tracking projects, program staff point out that entering all project related data into the system is more time consuming than the previous system (because more information is captured) and that many report automation capabilities that would be useful in conducting their work were not yet available in PY3.

Recommendation: Continue the development of database functionalities to make it a more useful program management tool. While the database has allowed staff to be more efficient in a number of ways, it is not yet developed and used to its fullest potential as a management tool. The program should continue to make database improvements and provide ongoing user training to program staff and any partners who might use it in the future. DCEO has noted that they have recently provided training to SEDAC, the Energy Resources Center and several other partners on use of the DCEO database. Partners that administer programs on their behalf or conduct site visits are using the DCEO database in PY4.

Finding. The program's lighting special – where incentives for certain lighting measures were increased by 20-50% – was popular among program participants, with 29% of Standard Program projects taking advantage of this offering. Lighting special participants are more satisfied than others with the incentive amount, but also with DCEO overall, the program overall, and communication with DCEO staff. However, more than half of those who were aware of the increased incentive (52%) say they would have been likely to install exactly the

same equipment with the regular incentive.[25] Given these responses, it is unclear how effective the bonus incentive was in attracting new projects.

DCEO should consider multiple implications when designing any future special promotions. While special promotions have been well subscribed in both PY2 and PY3, care should be taken with the assumption that increased incentive amounts actually increase participation, and do not simply shift project implementation into the bonus period. Focusing promotions on sectors with limited participation or measures with limited uptake might be one way to increase participation, leverage untapped opportunities, and reduce the possibility of free ridership.

Program Partnerships

Finding. In PY3, DCEO has continued to leverage partnerships with organizations such as the Illinois Association of Regional Councils and the Illinois State Board of Education. These partnerships have been successful in increasing participation by local governments and K-12 schools. Cooperation included shared marketing and outreach efforts and channeling participants into each other's programs.

Recommendation. DCEO should be aware that participation by projects that also receive significant funding from other public sources has the potential to result in higher free-ridership in the DCEO program. Although the savings weighted-average free-ridership on co-funded projects in PY3 was not higher than the mean value for the overall program, co-funding has the potential to increase DCEO free-ridership scores if participants assign relatively more influence to the other co-funding sources.

Trade Allies

Finding. In PY3, DCEO continued to make use of the utilities' and SEDAC's existing trade ally networks, but made an attempt at developing its own network of contractors through an Application Assistance Providers pilot effort under the Building Industry and Training Education Program (BITE). Program staff did not find this pilot effort to be a productive use of program resources. In PY4, DCEO plans to build a trade ally network similar to that of the utilities, where trade allies are enticed to participate by being eligible for incentives themselves. Participant survey results confirm the importance of trade allies in channeling participants into the program, assisting them with the design of their projects, and supporting them through the application process.

Recommendation. Development of a program-specific trade ally network is well-warranted. Based on our procurement process interviews, trade allies are often involved at the project

[25] "Likely" is defined as a score of 7 to 10 on a scale from 0 to 10, where 0 is "not at all likely" and 10 is "extremely likely."

specifications stage and then again at the implementation stage. While trade allies have influence over the energy efficiency of equipment at the former stage, they rarely do at the latter stage since project details have already been determined. It is therefore important that DCEO's network include trade allies capable of helping at the project design stage, so that they have an opportunity to promote energy efficiency and participation in the PSEE program to public sector entities. DCEO reports that activity on this recommendation is underway, with the Energy Resources Center and SEDAC developing a trade ally program for DCEO.

Finding. Lack of technical expertise is a key challenge in the equipment procurement process. Drop-outs also point to lack of technical expertise as a barrier to energy efficiency and rated themselves as being only somewhat knowledgeable about energy efficiency.

- **Recommendation.** DCEO should consider providing additional resources to help potential applicants connect with technical expertise. While SEDAC already provides technical assistance, a program-specific trade ally network should help connect applicants with qualified technical support. Outreach materials should emphasize these resources.

Finding. Lighting special participants are significantly more likely to have heard about the PSEE program through a contractor or trade ally compared to participants who did not participate in the promotion. This suggests that this special offering might have induced trade allies to more actively market the program.

- **Recommendation.** In future promotions the program should continue to leverage trade ally involvement as a key channel to inform participants.

Marketing and Outreach

Finding. In PY3, the PSEE Program was re-branded as *Illinois Energy Now* (IEN). DCEO conducted marketing and outreach efforts through various means, including electronic media as well as in-person events and presentations. Electronic media have been successful in disseminating information about the program: 56% of participants have received an e-mail with information about the program, 26% have heard about the program in the DCEO/SEDAC e-newsletter, 59% have seen program information on the DCEO or SEDAC website, and 18% have attended an on-line seminar/webinar. E-mail continues to be the best way of reaching public sector entities with information about energy efficiency programs (44%). Print materials also appear to be an important channel for reaching participants. The largest share of participants learned of the program through print materials (publications, flyers, and newsletters), and the second most preferred method of receiving information is through flyers and other mailings.

Finding. Budget constraints are a key barrier to the installation of energy efficient equipment and participation in the program. The program developed some marketing materials in PY2, but no new collateral was developed in PY3. Currently few materials highlight how energy

efficient equipment can help budgets in the long run, and there are no materials specific to the various public sectors.

Recommendation. While the increased PY4 incentive level will help reduce financial barriers for non-carve out sectors, the upfront cost of energy efficient equipment is likely to remain a barrier to participation for many public sector entities. However, this barrier might be reduced if prospective participants had more collateral that demonstrates the savings that can be expected from the installation of energy efficient equipment. The program should consider developing short sector-specific case studies or fact sheets that provide examples of potential savings. This might be a useful tool for facility managers when seeking approval for energy efficiency upgrades.

Program Drop-outs

Finding. Our interviews with contacts for projects that have been identified as cancelled in the program tracking database showed that 16 of 21 projects had not been cancelled but simply postponed. In PY3, the program tracking database did not have the ability to reassign an applicant from PY3 into PY4. As such, the database identifies any project that started the application process in PY3 but did not complete it as "cancelled."

Recommendation. Incorporate a procedure for assigning or modifying a "Program Year" field into the database so that projects can be seamlessly moved from one program year to the next.

Finding. Two of the five interviewed program drop-outs completed their projects outside of the program. These entities did not submit a final application because they were unclear on how and where to do so.

- **Recommendation.** DCEO should continue requesting periodic status updates from applicants. Requesting status updates throughout the year will allow program staff to remain connected with applicants and potentially help them by suggesting resources or clarifying points of confusion. DCEO reports that using the email addresses in the database, they did two mass mailings in 2011, in February and April, to all grantees that had not completed their projects to determine their status and remind them of deadlines.

Finding. Nearly all interviewed program drop-outs plan to make additional improvements to their facilities and say they are likely to consider energy efficient options.

Recommendation. DCEO should consider enacting a follow up process with program drop-outs in the future if the number drop outs increases. At this time, there are very few drop-outs that do not re-apply the following year. If drop-outs increase, following up with these applicants and informing them about PSEE opportunities might result in additional project applications.

Participant Satisfaction

Finding. Participants are very satisfied with the Standard Program: More than 90% of participants are satisfied with DCEO overall, the program overall, staff communications, and the incentive level. Satisfaction with the incentive amount is higher in PY3 compared to PY1, reflecting the increasing incentive levels since program inception.

Section 5. Appendices

5.1 Data Collection Instruments

5.1.1 Participant Telephone Survey

DCEO PUBLIC SECTOR ENERGY EFFICIENCY PROGRAM PARTICIPANT SURVEY
STANDARD AND CUSTOM PROJECTS

PY3 Final 09/20/2011

INTRODUCTION

[READ IF CONTACT=1]
Hello, this is _____ from Opinion Dynamics calling on behalf of the Illinois Department of Commerce and Economic Opportunity or "DCEO" (IF NEEDED: Say each letter individually D-C-E-O). This is not a sales call. May I please speak with <PROGRAM CONTACT>?

Our records show that <COMPANY> purchased <ENDUSE>, which was/were recently installed and received an incentive from DCEO. We are calling to do a follow-up study about your participation in this program, which is called the Illinois Energy Now Public Sector Energy Efficiency Program. I was told you're the person most knowledgeable about this project. Is this correct? [IF NOT, ASK TO BE TRANSFERRED TO MOST KNOWLEDGABLE PERSON OR RECORD NAME & NUMBER.]

(If needed: this survey will take about 20 minutes.) Is now a good time to conduct the survey? [If no, schedule call-back]

[READ IF CONTACT=0]
Hello, this is _____ from Opinion Dynamics calling on behalf of the Illinois Department of Commerce and Economic Opportunity or "DCEO" (IF NEEDED: Say each letter individually D-C-E-O). I would like to speak with the person most knowledgeable about recent changes in cooling, lighting, or other energy-related equipment for <COMPANY>.

[IF NEEDED] Our records show that <COMPANY> purchased <ENDUSE>, which was/were recently installed and received an incentive from DCEO. We are calling to do a follow-up study about your participation in this program, which is called the Illinois Energy Now Public Sector Energy Efficiency Program. I was told you're the person most knowledgeable about this project. Is that correct? [IF NOT, ASK TO BE TRANSFERRED TO MOST KNOWLEDGABLE PERSON OR RECORD NAME & NUMBER.]

(If needed: This survey will take about 20 minutes.) Is now a good time to conduct the survey? [If no, schedule call-back]

SCREENING QUESTIONS

S1 Which of the following statements best characterizes your relation to <COMPANY>? [READ RESPONSES]

1. I am an employee of <COMPANY> (THIS CATEGORY SHOULD INCLUDE THE OWNER/PRESIDENT/PARTNER ETC. OF THE COMPANY.)
2. My company provides energy-related services to <COMPANY>
3. I am a contractor and was involved in the installation of energy efficient equipment for this project
00. (Other, specify) (PUT OWNER/PRESIDENT/PARTNER ETC. OF THE COMPANY IN 1)
98. (Don't know)
99. (Refused)

[READ if S1<>1] This survey asks questions about the energy efficiency upgrades for which <COMPANY> received an incentive <ADDRESS>. Please answer the questions from the perspective of <COMPANY>. For example, when I refer to "YOUR COMPANY", I am referring to <COMPANY>. If you are not familiar with certain aspects of the project, please just say so and I will skip to the next question.

A1. Just to confirm, between June 1, 2010 and May 31, 2011 did <COMPANY> participate in DCEO's Public Sector Energy Efficiency Program <ADDRESS>? (IF NEEDED: This is a program where your organization received an incentive for installing one or more energy-efficient products covered under the program.)

1 (Yes, participated as described)
2 (Yes, participated but at another location)
3 (NO, did NOT participate in program)
00 (Other, specify)
98 (Don't know)
99 (Refused)

[SKIP A2 IF A1=1,2]

A2. Is it possible that someone else dealt with the energy-efficient product installation?

1 (Yes, someone else dealt with it)
2 (No)
00 (Other, specify)
98 (Don't know)
99 (Refused)

[IF A2=1, ask to be transferred to that person. If not available, thank and terminate. If available, go back to A1]

[IF A1=, 3, 00, 98, 99: Thank and terminate. Record dispo as "Could not confirm participation".]

Before we begin, I want to emphasize that this survey will only be about the <ENDUSE> you installed through the Illinois Energy Now Energy Efficiency Program <ADDRESS>. [IF NECESSARY, READ PROJECT DESCRIPTION: <PROJDESC>]. For the remainder of this survey, I will refer to the Illinois Energy Now

Public Sector Energy Efficiency Program as the "Illinois Energy Now Program" or as "The Program".

NET-TO-GROSS MODULE

Variables for the net-to-gross module:

From Sample/Tracking database:
<NTG> (B=Basic rigor level, S= Standard rigor level. All questions here are asked if the standard rigor level is designated. Basic rigor level is designated through skip patterns)
<PROGRAM> (Illinois Energy Now Program)
<ENDUSE> (Type of measure installed)
<MSAME> (Equals 1 if same customer had more than one project of the same measure type)
<NSAME> (Number of additional projects of the same measure type implemented by the same customer)
<FSAME> (Equals 1 if same customer also had a project of a different measure type at the same facility)
<FDESC> (Type of project of a different measure type at the same facility)

Calculated:
<TECH_ASSIST> (If participant received Technical Assistance from SEDAC; from question V2)
<OTHERPTS> (Variable to be calculated based on responses. Equals 1- minus response to N3p.)
<FINCRIT1> (Variable to be calculated based on responses. Equals 1 if payback period WITHOUT incentive is shorter than company requirement. See instructions below.)
<FINCRIT2> (Variable to be calculated based on responses. Equals 1 if payback period WITH incentive is shorter than company requirement. See instructions below.)

VENDOR INFORMATION

I would like to get some information on the VENDORS that may have helped you with the implementation of this equipment.

V1 Did you work with a contractor or vendor that helped you with the choice of this equipment?
- 1 (Yes)
- 2 (No)
- 8 (Don't Know)
- 9 (Refused)

V2 Did a representative from the Smart Energy Design Assistance Center (SEDAC) provide technical assistance on the project that you implemented through the DCEO program?
- 1 (Yes)
- 2 (No)

8 (Don't know)
9 (Refused)

[IF V2=1, SET TECH_ASSIST=1]

[SKIP TO V4a IF V1=2, 8, or 9 OR IF NTG=B]

V3 Did you also use a DESIGN or CONSULTING Engineer?
1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

V4a Does <COMPANY> have a utility account manager?
1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

[SKIP TO N1 IF V4a=2, 8, or 9]

V4 Did your electric utility account manager assist you with the project that you implemented through the DCEO program?
1 (Yes)
2 (No)
3 (No, don't have a utility account manager)
8 (Don't know)
9 (Refused)

NET-TO-GROSS BATTERY

I'd now like to ask a few questions about the <ENDUSE> you installed through the program.

N1 When did you first learn about DCEO's Program? Was it BEFORE or AFTER you first began to THINK about implementing the <ENDUSE>?

1 (Before)
2 (After)
8 (Don't know)
9 (Refused)

N2 And when did you DECIDE to implement the <ENDUSE>? Was it before or after you learned about DCEO's Program?

1 (Before)
2 (After)
8 (Don't know)
9 (Refused)

N2a And when did your organization decide to COMMIT the funding to implement the <ENDUSE>? Was it before or after you learned about DCEO's program?

1 (Before)
2 (After)
8 (Don't know)
9 (Refused)

N2b In general, how many months in advance do you need to have a project approved and in the budget before you are able to proceed with implementing it? [OPEN END]

N2c Did you receive funding for the implementation of the <ENDUSE> from any public sources besides DCEO? (IF NEEDED: FOR EXAMPLE, ARRA FUNDING OR BLOCK GRANTS)

1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

[IF N2c<>1, SKIP N2d]

N2d From what other public source did you receive funding for the implementation of the <ENDUSE>? (MULTIPLE RESPONSE, UP TO 3)

1 (ARRA/ American Recovery and Reinvestment Act)
2 (EECBG/Energy Efficiency and Conservation Block Grant)
3 (ISBE/Illinois State Board of Education)

00 (Other, specify)
98 (Don't know)
99 (Refused)

N3 Next, I'm going to ask you to rate the importance of the program as well as other factors that might have influenced your decision to implement this measure. Think of the degree of importance as being shown on a scale with equally spaced units from 0 to 10, where 0 means not at all important and 10 means extremely important. Now using this scale please rate the importance of each of the following in your decision to implement the measure at this time. [FOR N3a-n, RECORD 0 to 10; 96=Not Applicable; 98=Don't Know; 99=Refused]

(If needed: How important in your DECISION to implement the project was…)

[SKIP N3a IF NTG=B]

N3a. The age or condition of the old equipment

N3b. Availability of the DCEO incentive

[ASK IF N3b=8, 9, 10]

N3bb. Why do you give it this rating? [OPEN END]

[ASK IF N2c=1]

N3x The other public funding you mentioned you received

[SKIP TO N3f IF NTG=B]

[ASK IF <TECH_ASSIST>=1, ELSE SKIP TO N3d]

N3c. Information provided through the technical assistance you received from DCEO or Smart Energy Design Assistance Center staff

[SKIP N3cc IF NTG=B]

[ASK IF N3c=8, 9, 10]

N3cc. Why do you give it this rating? [OPEN END]

[ASK N3d IF V1=1]

N3d. Recommendation from an equipment vendor or contractor that helped you with the choice of the equipment

N3e. Previous experience with this type of equipment

N3f. the recommendation from a DCEO program staff person

[SKIP N3ff IF NTG=B]

[ASK N3ff IF N3f=8, 9, 10]

N3ff. Why do you give it this rating?

N3h. Information from <PROGRAM> or DCEO marketing materials

[SKIP N3hh IF NTG=B]

[ASK IF N3h=8, 9, 10]

N3hh. Why do you give it this rating?

[SKIP TO N3k IF NTG=B]

[ASK N3i IF V3=1]

N3i. A recommendation from a design or consulting engineer

N3j. Standard practice in the public sector

[SKIP N3k IF V4<>1]

N3k. Endorsement or recommendation by an electric utility account manager

[SKIP N3kk IF NTG=B]

[ASK IF N3k=8, 9, 10]

N3kk. Why do you say that?

[SKIP TO N3n IF NTG=B]

N3l. Governmental or organizational policy or guidelines

N3m. Payback on the investment

N3n. Were there any other factors we haven't discussed that were important in your decision to install this MEASURE?

00 [OPEN END]
96 (Nothing else influential)
98 (Don't Know)
99 (Refused)

[ASK N3nn IF N3n=00]

N3nn. Using the same zero to 10 scale, how would you rate the importance of this factor? [RECORD 0 to 10; 98=Don't Know; 99=Refused]

Thinking about this differently, I would like you to compare the importance of the PROGRAM with the importance of other factors in implementing the <ENDUSE> project.

[SKIP TO N3p IF NTG=B]

[READ IF (N3A, N3D, N3E, N3I, N3J, N3L, N3M, OR N3N)=8,9,10; ELSE SKIP TO N3p]
You just told me that the following other factors were important:
[READ IN ONLY ITEMS WHERE THEY GAVE A RATING OF 8 or higher]

(N3A) Age or condition of old equipment,
(N3D) Equipment Vendor recommendation
(N3E) Previous experience with this measure
(N3I) Recommendation from a design or consulting engineer
(N3J) Standard practice in the public sector
(N3L) Governmental or organizational policy or guidelines
(N3M) Payback on investment
(N3N) Other factor

N3p If you were given a TOTAL of 100 points that reflect the importance in your decision to implement the <ENDUSE>, and you had to divide those 100 points between: 1) the program and 2) other factors, how many points would you give to the importance of the PROGRAM?
Points given to program: [RECORD 0 to 100; 998=Don't Know; 999=Refused]

[CALCULATE VARIABLE "OTHERPTS" AS: 100 MINUS N3p RESPONSE; IF N3p=998, 999, SET OTHERPTS=BLANK]

N3o And how many points would you give to other factors? [RECORD 0 to 100; 998=Don't Know; 999=Refused] [The response should be <OTHERPTS> because both numbers should equal 100. If response is not <OTHERPTS> ask INC1]

INC1 The last question asked you to divide a TOTAL of 100 points between the program and other factors. You just noted that you would give <N3p RESPONSE> points to the program. Does that mean you would give <OTHERPTS> points to other factors?

1 (Yes)
2 (No)
98 (Don't know)
99 (Refused)

[IF INC1=2, go back to N3p]

CONSISTENCY CHECK ON PROGRAM IMPORTANCE SCORE

[ASK IF (N3p=70-100 AND ALL (N3b, N3c, N3f, N3h, AND N3k)=0,1,2,3); ELSE SKIP TO N4aa]

N4 You just gave <N3p RESPONSE> points to the importance of the program, I would interpret that to mean that the program was quite important to your decision to install this equipment. Earlier, when I asked about the importance of individual elements of the program I recorded some answers that would imply that they were not that important to you. Just to make sure I have recorded this properly, I have a couple questions to ask you.

N4a When asked about THE AVAILABILITY OF THE PROGRAM INCENTIVE, you gave a rating of ...<N3B RESPONSE> ... out of ten, indicating that the program incentive was not that important to you. Can you tell me why the incentive was not that important? [OPEN END]

[SKIP N4b IF NTG=B OR <TECH ASSIST>=0]

N4b When I asked you about THE INFORMATION PROVIDED THROUGH THE TECHNICAL ASSISTANCE, you gave a rating of ...<N3C RESPONSE> ... out of ten, indicating that the information provided was not that important to you. Can you tell me why the information provided was not that important? [OPEN END]

N4c When I asked you about THE RECOMMENDATION FROM A DCEO PROGRAM STAFF PERSON, you gave a rating of ...<N3F RESPONSE> ... out of ten, indicating that the information provided was not that important to you. Can you tell me why the information provided was not that important? [OPEN END]

N4d When asked about THE INFORMATION from the <PROGRAM> or DCEO MARKETING MATERIALS, you gave a rating of ...<N3H RESPONSE> ... out of ten, indicating that this information from the program or DCEO marketing materials was not that important to you. Can you tell me why this information was not that important? [OPEN END]

[SKIP N4e IF V4>1 or N3k=96,98,99]

N4e When asked about THE ENDORSEMENT or RECOMMENDATION by your electric utility account manager, you gave a rating of <N3K RESPONSE> ... out of ten, indicating that this endorsement was not that important to you. Can you tell me why this endorsement was not that important? [OPEN END]

[ASK IF N3p<31 AND ANY ONE OF (N3b, N3c, N3f, N3h, OR N3k=8,9,10), ELSE SKIP TO N5]

N4aa You just gave <N3p RESPONSE> points to the importance of the program. I would interpret that to mean that the program was not very important to your decision to install this equipment. Earlier, when I asked about the importance of individual elements of the program I recorded some answers that would imply that they were very important to you. Just to make sure I understand, would you explain why the program was not very important in your decision to

install this equipment?

Now I would like you to think about the action you would have taken with regard to the installation of this equipment if the DCEO program had not been available.

N5 Using a likelihood scale from 0 to 10, where 0 is "Not at all likely" and 10 is "Extremely likely", if the DCEO program had not been available, what is the likelihood that you would have installed exactly the same equipment? [RECORD 0 to 10; 98=Don't know; 99=Refused]

CONSISTENCY CHECKS

[ASK N5a-d IF N3b=8, 9, 10 AND N5=7, 8, 9, 10]

N5a When you answered ...<N3B RESPONSE> ... for the question about the influence of the incentive, I would interpret that to mean that the incentive was quite important to your decision to install. Then, when you answered <N5 RESPONSE> for how likely you would be to install the same equipment without the incentive, it sounds like the incentive was not very important in your installation decision.

I want to check to see if I am misunderstanding your answers or if the questions may have been unclear. Will you explain the role the incentive played in your decision to install this efficient equipment? [OPEN END]

N5b Would you like for me to change your score on the importance of the incentive that you gave a rating of <N3B RESPONSE> or change your rating on the likelihood you would install the same equipment without the incentive which you gave a rating of <N5 RESPONSE> and/or we can change both if you wish?

1 (Change importance of incentive rating)
2 (Change likelihood to install the same equipment rating)
3 (Change both)
4 (No, don't change)
8 (Don't know)
9 (Refused)

[ASK IF N5b=1,3]

N5c How important was… availability of the PROGRAM incentive? (IF NEEDED: in your DECISION to implement the project) [Scale of 0 to 10, where 0 means not at all important and 10 means extremely important; 98=Don't know, 99=Refused]

[ASK IF N5b=2,3]

N5d If the DCEO program had not been available, what is the likelihood that you would have installed exactly the same equipment? [Scale of 0 to 10, where 0 means "Not at all likely" and 10 means "Extremely likely"; 98=Don't know, 99=Refused]

[ASK IF N3j>7]

N6 In an earlier question, you rated the importance of STANDARD PRACTICE in the public sector very highly in your decision making. Could you please rate the importance of the PROGRAM, relative to this standard public sector practice, in influencing your decision to install this measure. Would you say the program was much more important, somewhat more important, equally important, somewhat less important, or much less important than the standard practice or policy?

1 (Much more important)
2 (Somewhat more important)
3 (Equally important)
4 (Somewhat less important)
5 (Much less important)
8 (Don't know)
9 (Refused)

[IF ASKED N5D, READ IN N5D RESPONSE]

[ASK IF N5=1-10, ELSE SKIP TO N8]

N7 You indicated earlier that there was a <N5 RESPONSE> in 10 likelihood that you would have installed the same equipment if the program had not been available. Without the program, when do you think you would have installed this equipment? Would you say…

1 At the same time
2 Earlier
3 Later
4 (Never)
8 (Don't know)
9 (Refused)

[ASK N7a IF N7=3]

N7a. How much later would you have installed this equipment? Would you say…

1 Within 6 months?
2 6 months to 1 year later
3 1 - 2 years later
4 2 - 3 years later?
5 3 - 4 years later?
6 4 or more years later
8 (Don't know)

9 (Refused)

[ASK N7b IF N7a=6]

N7b. Why do you think it would have been 4 or more years later? [OPEN END]

PAYBACK BATTERY [ASK N8-N10e IF N3m=6,7,8,9,10]

I'd like to find out more about the investment criteria <COMPANY> uses.

N8 What financial calculations does <COMPANY> make before proceeding with installation of a MEASURE like this one? [OPEN END]

N9 What is the payback cut-off point <COMPANY> uses (in months) before deciding to proceed with an investment? Would you say…

1 0 to 6 months
2 7 months to 1 year
3 more than 1 year up to 2 years
4 more than 2 years up to 3 years
5 more than 3 years up to 5 years
6 Over 5 years
8 (Don't know)
9 (Refused)

N10a What was the estimated payback period for the new <ENDUSE>, in months, WITH the incentive from the <PROGRAM>?

00 [NUMERIC OPEN END, UP TO 240]
998 (Don't know)
999 (Refused)

N10b And what was the estimated payback period for the <ENDUSE>, in months, WITHOUT the incentive from the <PROGRAM>?

00 [NUMERIC OPEN END, UP TO 240]
998 (Don't know)
999 (Refused)

[CREATE VARIABLE FINCRIT1. SET FINCRIT1 = BLANK IF: N9=8,9 OR N10b=998,999. SET FINCRIT1 = 1 IF: (N9=1 AND N10b<7) OR (N9=2 AND N10b<13) OR (N9=3 AND N10b<25) OR (N9=4 AND N10b<37) OR (N9=5 AND N10b<61) OR (N9=6). ELSE, SET FINCRIT1 = 0.]

[ASK N10c IF FINCRIT1=1]

N10c Even without the incentive, the <ENDUSE> project met <COMPANY>'s financial criteria. Would you have gone ahead with it even without the incentive?

1 (Yes)
2 (No)
3 (Maybe)
8 (Don't know)
9 (Refused)

[CREATE VARIABLE FINCRIT2. SET FINCRIT2 = BLANK IF: N9=8,9 OR N10a=998,999. SET FINCRIT2 = 1 IF: (N9=1 AND N10a<7) OR (N9=2 AND N10a<13) OR (N9=3 AND N10a<25) OR (N9=4 AND N10a<37) OR (N9=5 AND N10a<61) OR (N9=6). ELSE, SET FINCRIT2 = 0]

[ASK N10d IF FINCRIT2=1 AND FINCRIT1=0 AND N3b=0, 1, 2, 3, 4, 96, 98, 99]

N10d The incentive seemed to make the difference between meeting your financial criteria and not meeting them, but you are saying that the incentive didn't have much effect on your decision, why is that? [OPEN END]

[ASK N10e IF FINCRIT2=0 AND N3b= 8,9,10]

N10e. The incentive didn't cause this <ENDUSE> project to meet <COMPANY>'s financial criteria, but you said that the incentive had an impact on the decision to install the <ENDUSE>. Why did it have an impact? [OPEN END]

GOVERNMENTAL OR ORGANIZATIONAL POLICY BATTERY [ASK N11-N17 IF N3L= 6,7,8,9,10]

N11 Does your governmental unit or organization have an environmental policy to reduce environmental emissions or energy use? Some examples would be to "buy green" or use sustainable approaches in investments.

1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

[ASK N12-N17 IF N11=1]

N12 What specific policy influenced your decision to adopt or install the <ENDUSE> through the DCEO program? [OPEN END]

N13 Had that policy caused your organization to adopt <ENDUSE> before participating in the DCEO program?

1 (Yes)

2 (No)
8 (Don't know)
9 (Refused)

[ASK N15-N16 IF N13=1]

N15 Did you receive an incentive for a previous installation of <ENDUSE>?

1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

[ASK N16 IF N15=1]

N16 To the best of your ability, please describe…. [Record VERBATIM; 98=Don't know; 99=Refused]

a. the amount of incentive received
b. the approximate timing
c. the name of the program that provided the incentive

[ASK N17 IF N13=1]

N17 If I understand you correctly, you said that <COMPANY>'s policy has caused you to previously install <ENDUSE>. I want to make sure I fully understand how this policy influenced your decision versus the DCEO program. Can you please clarify that? [OPEN END]

STANDARD PRACTICE BATTERY [ASK N18-N22 IF N3j=6,7,8,9,10]

N18 Approximately, how long has use of <ENDUSE> been standard practice in your sector?

M [00 Record Number of Months; 98=Don't know, 99=Refused]
Y [00 Record Number of Years; 98=Don't know, 99=Refused]

N19 Does <COMPANY> ever deviate from the standard practice?

1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

[ASK IF N19=1]

N19a Please describe the conditions under which <COMPANY> deviates from this standard practice. [OPEN END]

N20 How did this standard practice influence your decision to install the <ENDUSE> through the <PROGRAM>? [OPEN END]

N20a Could you please rate the importance of the <PROGRAM>, versus this standard practice in influencing your decision to install the <ENDUSE>? Would you say the <PROGRAM> was…

1 Much more important
2 Somewhat more important
3 Equally important
4 Somewhat less important
5 Much less important
8 (Don't know)
9 (Refused)

N21 What group or organization do you look to to establish standard practice for your sector? [OPEN END]

N22 How do you and other public entities in your sector receive information on updates in standard practice? [OPEN END]

DESIGN ASSISTANCE

N23 Who provided the most assistance in the design or specification of the <ENDUSE> you installed through the <PROGRAM>? (If necessary, probe from the list below.)

1 (Designer)
2 (Consultant)
3 (Equipment distributor)
4 (Installer)
5 (Electric utility account manager)
6 (<PROGRAM> staff)
7 (Smart Energy Design Assistance Center/SEDAC staff)
00 (Other, specify)
98 (Don't know)
99 (Refused)

[SKIP N24 IF N23=98, 99]

N24 Please describe the type of assistance that they provided. [OPEN END]

N25 BLANK

ADDITIONAL PROJECTS

[ASK N26 IF MSAME=1]

Our records show that <COMPANY> also received an incentive from DCEO for <NSAME> other <ENDUSE> project(s).

N26 Was it a single decision to complete all of those <ENDUSE> projects for which you received an incentive from DCEO or did each project go through its own decision process?

1 (Single Decision)
2 (Each project went through its own decision process)
00 (Other, specify)
98 (Don't know)
99 (Refused)

[ASK N27 IF FSAME=1 ELSE SKIP TO SPILLOVER MODULE]

Our records show that <COMPANY> also received an incentive from DCEO for a <FDESC> project <ADDRESS >.

N27 Was the decision making process for this project the same as for the <ENDUSE> project we have been talking about?

1 (Same decision making process)
2 (Different decision making process)
00 (Other, specify)
98 (Don't know)
99 (Refused)

SPILLOVER MODULE

Thank you for discussing the new <ENDUSE> that you installed through the <PROGRAM>. Next, I would like to discuss any energy efficient equipment you might have installed OUTSIDE of the program.

SP1 Since your participation in the DCEO program, has your organization implemented any ADDITIONAL energy efficiency measures that did NOT receive incentives through a utility or government program?

1 Yes
2 No
8 (Don't know)
9 (Refused)

[ASK SP2-SP7i IF SP1=1, ELSE SKIP TO HOURS OF USE - LIGHTING]

SP2 What was the first measure that you implemented? (IF RESPONSE IS GENERAL, E.G., "LIGHTING EQUIPMENT", PROBE FOR SPECIFIC MEASURE. PROBE FROM LIST, IF NECESSARY.)

1 (Lighting: T8 lamps)
2 (Lighting: T5 lamps)
3 (Lighting: Highbay Fixture Replacement)
4 (Lighting: CFLs)
5 (Lighting: Controls / Occupancy sensors)
6 (Lighting: LED lamps)
7 (LED Traffic Signals)
8 (Cooling: Unitary/Split Air Conditioning System)
9 (Cooling: Room air conditioners)
10 (Cooling: Variable Frequency Drives (VFD/VSD) on HVAC Motors)
11 (Motors: Efficient motors)
00 (Other, specify)
96 (Didn't implement any measures)
98 (Don't know)
99 (Refused)

[SKIP TO HOURS OF USE – LIGHTING IF SP2=96, 98, 99]

SP3 What was the second measure? (IF RESPONSE IS GENERAL, E.G., "LIGHTING EQUIPMENT", PROBE FOR SPECIFIC MEASURE. PROBE FROM LIST, IF NECESSARY.)

1 (Lighting: T8 lamps)
2 (Lighting: T5 lamps)
3 (Lighting: Highbay Fixture Replacement)
4 (Lighting: CFLs)
5 (Lighting: Controls / Occupancy sensors)
6 (Lighting: LED lamps)

7 (LED Traffic Signals)
8 (Cooling: Unitary/Split Air Conditioning System)
9 (Cooling: Room air conditioners)
10 (Cooling: Variable Frequency Drives (VFD/VSD) on HVAC Motors)
11 (Motors: Efficient motors)
00 (Other, specify)
96 (There was no second measure)
98 (Don't know)
99 (Refused)

[SKIP SP4 IF SP3=96, 98, 99]

SP4 What was the third measure? (IF RESPONSE IS GENERAL, E.G., "LIGHTING EQUIPMENT", PROBE FOR SPECIFIC MEASURE. PROBE FROM LIST, IF NECESSARY.)

1 (Lighting: T8 lamps)
2 (Lighting: T5 lamps)
3 (Lighting: Highbay Fixture Replacement)
4 (Lighting: CFLs)
5 (Lighting: Controls / Occupancy sensors)
6 (Lighting: LED lamps)
7 (LED Traffic Signals)
8 (Cooling: Unitary/Split Air Conditioning System)
9 (Cooling: Room air conditioners)
10 (Cooling: Variable Frequency Drives (VFD/VSD) on HVAC Motors)
11 (Motors: Efficient motors)
00 (Other, specify)
96 (There was no third measure)
98 (Don't know)
99 (Refused)

SP5 I have a few questions about the FIRST measure that you installed. (If needed, read back measure: <SP2 RESPONSE>) [OPEN END]

a. Why did you not receive an incentive for this measure?
b. Why did you not install this measure through the DCEO Program?
c. Please describe the SIZE, TYPE, and OTHER ATTRIBUTES of this measure.
d. Please describe the EFFICIENCY of this measure.
e. Please describe the QUANTITY of this measure.

SP5f. Was this measure specifically recommended by a program related audit, report or program technical specialist?

1 (Yes)
2 (No)

8 (Don't know)
9 (Refused)

SP5g. How significant was your experience in the DCEO Program in your decision to implement this measure, using a scale of 0 to 10, where 0 is not at all significant and 10 is extremely significant? [SCALE 0-10; 98=Don't Know; 99=Refused]

[SKIP SP5h IF SP5g = 98, 99]

SP5h. Why do you give it this rating? [OPEN END]

SP5i. If you had not participated in the DCEO program, how likely is it that your organization would still have implemented this measure, using a 0 to 10, scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure? [SCALE 0-10; 98=Don't Know; 99=Refused]

CONSISTENCY CHECK ON PROGRAM IMPORTANCE RATING VS. NO PROGRAM RATING

[ASK CC1a IF SP5g=0,1,2,3 AND SP5i=0,1,2,3]

CC1a When you answered ...<SP5g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was not very important to your decision. However, when you answered the previous question, it sounds like it was not very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?

00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

[ASK CC1b IF SP5g=8,9,10 AND SP5i=8,9,10]

CC1b When you answered ...<SP5g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was quite important to your decision. However, when you answered the previous question, it sounds like it was very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?

00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

[SKIP SP6-SP7i IF SP3=96, 98, 99]

SP6 I have a few questions about the SECOND measure that you installed. (If needed, read back measure: <SP3 RESPONSE>) [OPEN END]

a. Why did you not receive an incentive for this measure?
b. Why did you not install this measure through the DCEO Program?
c. Please describe the SIZE, TYPE, and OTHER ATTRIBUTES of this measure.
d. Please describe the EFFICIENCY of this measure.
e. Please describe the QUANTITY of this measure.

SP6f. Was this measure specifically recommended by a program related audit, report or program technical specialist?
1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

SP6g. How significant was your experience in the DCEO Program in your decision to implement this measure, using a scale of 0 to 10, where 0 is not at all significant and 10 is extremely significant? [SCALE 0-10; 98=Don't Know; 99=Refused]

[SKIP SP6h IF SP6g = 98, 99]
SP6h. Why do you give it this rating? [OPEN END]

SP6i. If you had not participated in the DCEO program, how likely is it that your organization would still have implemented this measure, using a 0 to 10, scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure? [SCALE 0-10; 98=Don't Know; 99=Refused]

CONSISTENCY CHECK ON PROGRAM IMPORTANCE RATING VS. NO PROGRAM RATING

[ASK CC2a IF SP6g=0,1,2,3 AND SP6i=0,1,2,3]
CC2a When you answered ...<SP6g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was not very important to your decision. However, when you answered the previous question, it sounds like it was not very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?
00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

[ASK CC2b IF SP6g=8,9,10 AND SP6i=8,9,10]
CC2b When you answered ...<SP6g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was quite

important to your decision. However, when you answered the previous question, it sounds like it was very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?

00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

[SKIP SP7 – SP7i IF SP4=96, 98, 99]

SP7 I have a few questions about the THIRD measure that you installed. (If needed, read back measure: <SP3 RESPONSE>) [OPEN END]

a. Why did you not receive an incentive for this measure?
b. Why did you not install this measure through the DCEO Program?
c. Please describe the SIZE, TYPE, and OTHER ATTRIBUTES of this measure.
d. Please describe the EFFICIENCY of this measure.
e. Please describe the QUANTITY of this measure.

SP7f. Was this measure specifically recommended by a program related audit, report or program technical specialist?

1 (Yes)
2 (No)
8 (Don't know)
9 (Refused)

SP7g. How significant was your experience in the DCEO Program in your decision to implement this measure, using a scale of 0 to 10, where 0 is not at all significant and 10 is extremely significant? [SCALE 0-10; 98=Don't Know; 99=Refused]

[SKIP SP7h IF SP7g = 98, 99]

SP7h. Why do you give it this rating? [OPEN END]

SP7i. If you had not participated in the DCEO program, how likely is it that your organization would still have implemented this measure, using a 0 to 10, scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure? [SCALE 0-10; 98=Don't Know; 99=Refused]

CONSISTENCY CHECK ON PROGRAM IMPORTANCE RATING VS. NO PROGRAM RATING

[ASK CC3a IF SP7g=0,1,2,3 AND SP7i=0,1,2,3]

CC3a When you answered ...<SP7g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was not very important to your decision. However, when you answered the previous question, it sounds like it

was not very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?

00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

[ASK CC3b IF SP7g=8,9,10 AND SP7i=8,9,10]

CC3b When you answered ...<SP7g RESPONSE> ... for the question about the influence of the DCEO program on your decision to install this measure, I would interpret that to mean the Program was quite important to your decision. However, when you answered the previous question, it sounds like it was very likely that you would have installed this measure had you not participated in the DCEO program. Can you please explain the role the program made in your decision to implement this measure?

00 (Record VERBATIM)
98 (Don't know)
99 (Refused)

HOURS OF USE – LIGHTING

[ASK LH1a-LH10 IF MEASURE=HIGH EFFICIENCY LIGHTING AND SURVEY=STANDARD]

Now we'd like to talk about the hours that your lighting equipment is in operation. If your project consists of multiple buildings, give us one set of typical hours to represent the group.

LH1a Are you typically open every day, Monday through Friday?
- 1 Yes
- 2 No
- 8 (Don't know)
- 9 (Refused)

[ASK LH1b IF LH1a=2]

LH1b How many days are you CLOSED Monday through Friday?
- 1 (One)
- 2 (Two)
- 3 (Three)
- 4 (Four)
- 5 (Five)
- 8 (Don't know)
- 9 (Refused)

[IF LH1b=5, SKIP TO LH4]

LH2 At what time do your indoor lights currently turn on during weekdays (Monday - Friday)? (Enter 2400 for 24-hour operation, enter 0 for never on)

LH2a Enter hours and minutes, e.g., 0530 for 5:30

LH2b
- 1. AM
- 2. PM

[SKIP LH3 IF LH2=24hr or never]

LH3 At what time do your indoor lights currently turn off during weekdays (Monday - Friday)? (Enter 2400 for 24-hour operation, enter 0 for never on)

LH3a Enter hours and minutes, e.g., 0530 for 5:30

LH3b
- 1. AM
- 2. PM

LH4 Does the lighting equipment operate on a different schedule on weekends (Saturday and Sunday)?
- 1 Yes
- 2 No
- 8 (Don't know)
- 9 (Refused)

[ASK IF LH4=1, ELSE SKIP TO LH9]

LH5 On Saturdays, at what time does the indoor lighting equipment turn on? (Enter 2400 for 24-hour operation, enter 0 for never on)

LH5a Enter hours and minutes, e.g., 0530 for 5:30
LH5b 1. AM
2. PM

[SKIP LH6 IF LH5=24hr or never]

LH6 And when does the indoor lighting equipment turn off on Saturdays? (Enter 2400 for 24-hour operation, enter 0 for never on)
LH6a Enter hours and minutes, e.g., 0530 for 5:30
LH6b 1. AM
2. PM

LH7 And on Sundays, at what time does the indoor lighting equipment turn on? (Enter 2400 for 24-hour operation, enter 0 for never on)
LH7a Enter hours and minutes, e.g., 0530 for 5:30
LH7b 1. AM
2. PM

[SKIP LH8 IF LH7=24hr or never]

LH8 And when does the indoor lighting equipment turn off on Sundays? (Enter 2400 for 24-hour operation, enter 0 for never on)
LH8a Enter hours and minutes, e.g., 0530 for 5:30
LH8b 1. AM
2. PM

LH9a During hours when your facility is OPEN, approximately what percentage of the indoor lights are kept on? [NUMERIC OPEN END, 0 TO 100; 998=DON'T KNOW, 999=REFUSED]

[SKIP LH9b IF LH1a=1 AND LH2a = 2400 AND LH4 = 2]

LH9b During hours when your facility is CLOSED, approximately what percentage of the indoor lights are kept on? [NUMERIC OPEN END, 0 to 100; 998=Don't know, 999=Refused]

LH10a Are there any months during the year when the operating schedule for the indoor lights differs significantly from what you just described?
1 Yes
2 No
8 (Don't know)
9 (Refused)

[ASK LH10b-e IF LH10a=1; ELSE SKIP TO PROCESS MODULE]

LH10b How many hours per day do the indoor lights typically operate during the periods with different operating schedules? [NUMERIC OPEN END, 0 to 24; 98=Don't know, 99=Refused]

LH10c And how many days per week? [NUMERIC OPEN END, 0 to 7; 8=Don't know, 9=Refused]

LH10d How many months per year does the equipment run on the alternative schedule? [NUMERIC OPEN END, 0 to 12; 98=Don't know, 99=Refused]

LH10e During hours when your business is OPEN, on the alternative schedule, approximately what percentage of the indoor lights are kept on? [NUMERIC OPEN END, 0 TO 100; 998=DON'T KNOW, 999=REFUSED]

[SKIP LH10f IF LH10b = 24]

LH10f During hours when your business is CLOSED on the alternative schedule, approximately what percentage of the indoor lights are kept on? [NUMERIC OPEN END, 0 to 100; 998=Don't know, 999=Refused]

PROCESS MODULE

I'd now like to ask you a few general questions about your participation in the PROGRAM.

Program Processes and Satisfaction

[IF S1<>1 SKIP TO S1A]

S0 How did you first hear about the Program?

4. (Contractor/Trade Ally)
6. (Friend/colleague/word of mouth)
8. (Supplier/Distributor/Vendor)
11. (Speaker/Presentation at an event)
13. (Publication/flyer/newsletter)
00. (Other, specify)
98. (Don't know)
99. (Refused)

S1a Did YOU fill out the application forms for the project?

1. (Yes)
2. (No)
8. (Don't know)
9. (Refused)

[ASK S1b IF S1a=1 ELSE SKIP TO S1e]

S1b Did the application forms clearly explain the program requirements and how to participate?

1. (Yes)
2. (No)
3. (Somewhat)
8. (Don't know)
9. (Refused)

S1c How would you rate the application process? Please use a scale of 0 to 10 where 0 is "very difficult" and 10 is "very easy". [SCALE 0-10; 98=Don't know, 99=Refused]

[ASK S1d IF S1c<4]

S1d Why did you rate it that way?

1. (Difficult to understand application materials)
2. (Long/Difficult process)
3. (Not enough/misleading information)
00. (Other, specify)
98. (Don't know)
99. (Refused)

[ASK S1e IF S1a=2]

S1e Who filled out the application forms for the project?

1. (Someone else at the facility)
2. (Someone else at <COMPANY>)
3. (Trade Ally)
4. (Contractor)
5. (Supplier/Distributor/Vendor)
6. (Engineer)
7. (Consultant)
8. (Application Assistance Provider) [SKIP TO S1G]
00. (Other, specify)
98. (Don't know)
99. (Refused)

[IF <BITE>=0, SKIP TO S4b]

S1f Our records show that you worked with one of DCEO's BITE [READ, LIKE "BITE OF FOOD"] Application Assistance Providers who helped you navigate the application process. Do you recall working with an Application Assistance Provider?

1. Yes
2. No
8. (Don't know)
9. (Refused)

[ASK S1G IF S1E=8 OR S1F=2; ELSE SKIP TO S4B]

S1g On a scale of 0 to 10, where 0 is "very dissatisfied" and 10 is "very satisfied" how would you rate your satisfaction with the Application Assistance Provider's ability to help you with the application process? [SCALE 0-10; 98=Don't know, 99=Refused]

[IF S1g=98 or 99, SKIP TO S4b]

S1h Why did you rate the Application Assistance Provider's helpfulness that way? [OPEN END]

S2 BLANK

S3 BLANK

[ASK IF V1=1 AND IF S1<>3, ELSE SKIP TO S8]

S4a You indicated earlier that you worked with a trade ally for your <ENDUSE> project. Did you work with a CONTRACTOR, VENDOR, or BOTH?

1. Contractor
2. Vendor
3. Both
8. (Don't know)
9. (Refused)

[IF S4a<>1 OR 3, SKIP TO S8]

S4b. Was the contractor you used affiliated with the Smart Energy Design Assistance Center? (IF NEEDED: Was the contractor REGISTERED with the Smart Energy Design Assistance Center?)

1. Yes
2. No
8. (Don't know)
9. (Refused)

S5 How would you rate the contractor's ability to meet your needs in terms of implementing your project? Please use a scale from 0 to 10, where 0 is "not at all able to meet needs" and 10 is "completely able to meet needs"? [SCALE 0-10; 98=Don't know, 99=Refused]

S6a Would you recommend the contractor you worked with to other people or companies?

1. Yes
2. No
8. (Don't know)
9. (Refused)

[ASK S6b IF S6a=2]

S6b Why not?

1. (Difficulty getting project done/took too long)
00. (Other, specify)
98. (Don't know)
99. (Refused)

S7 When implementing an energy efficiency project, how important is it to you that the contractor is affiliated with SEDAC or an energy efficiency program? Please use a scale from 0 to 10, where 0 is "not at all important" and 10 is "very important"? [SCALE 0-10; 98=Don't know, 99=Refused]

S8 During the course of your participation in the program, did you place any calls to the DCEO program staff?

1. Yes
2. No

8. (Don't know)
9. (Refused)

[ASK S8a IF S8=1]

S8a On a scale of 0 to 10, where 0 is "very dissatisfied" and 10 is "very satisfied;" how would you rate your satisfaction with the DCEO program staff's ability to answer your questions? [SCALE 0-10; 98=Don't know, 99=Refused]

[ASK S8b IF S8a<4]

S8b Why did you rate it that way? [OPEN END]

S11 On a scale of 0 to 10, where 0 is very dissatisfied and 10 is very satisfied, how would you rate your satisfaction with… [SCALE 0-10; 96=not applicable, 98=Don't know, 99=Refused]

a. the incentive amount
b. the communication you had with the DCEO program staff
c. BLANK
d. the program overall
e. DCEO overall
f. Your Utility company overall

[ASK S12a IF S11a<4]

S12a. You indicated some dissatisfaction with the incentive amount, why did you rate it this way?

1. (Not high enough)
00. (Other, specify)
98. (Don't know)
99. (Refused)

[ASK S12b IF S11b<4]

S12b. You indicated some dissatisfaction with the communication you had with the DCEO staff, why did you rate it this way?

1. (Website not user friendly)
00. (Other, specify)
98. (Don't know)
99. (Refused)

S12c. BLANK

[ASK S12d IF S11d<4]

S12d. You indicated some dissatisfaction with the Program overall, why did you rate it this way? [OPEN END]

[ASK S12e IF S11e<4]

S12e. You indicated some dissatisfaction with DCEO overall, why did you rate it this way? [OPEN END]

[ASK S12f IF S11f<4]

S12f. You indicated some dissatisfaction with your Utility company overall, why did you rate it this way?

1. (Energy Bill/Utility rate is too high)
2. (Poor Customer Service)
3. (Poor Power Supply/Service)
00. (Other, specify)
98. (Don't know)
99. (Refused)

S10a Did you experience any problems during the participation process? (IF NEEDED: Other than what we have already talked about)

1. Yes
2. No
8. (Don't know)
9. (Refused)

[ASK S10b IF S10a=1]

S10b What problems did you experience? [OPEN END]

1. (Slow/Took a long time)
2. (Hard to get program information)
3. (Project/s were denied)
00. (Other, specify)
98. (Don't know)
99. (Refused)

Marketing and Outreach

[IF S1<>1, SKIP TO B1A]

MK0 I'm now going to ask you about several specific ways in which you might have seen or heard information about the Illinois Energy Now Public Sector Energy Efficiency Program. Have you ever… [1=Yes, 2=No, 8= (Don't know), 9=(Refused)]

a. Received information about the program in your monthly utility bill?
l. Attended a webinar or online seminar where the program was discussed?
b. Attended a/an <COMED/AMEREN> event where the DCEO program was discussed?
g. Attended a DCEO or SEDAC (Smart Energy Design Assistance Center) event where the program was discussed?
c. [SKIP IF V4a<>1] Discussed the DCEO program with a/an <COMED/AMEREN> Account Manager?
e. Seen information about the program on the <COMED/AMEREN> website?
i. Seen information about the program on the DCEO or Smart Energy Design Assistance Center website?
f. Read about the DCEO program in a/an <COMED/AMEREN> Newsletter?
h. Read about the program in a DCEO or Smart Energy Design Assistance Center Newsletter?
j. Heard about the program from a colleague, friend or family member?
k. Received an e-mail with information about the program?

MK1b How useful were the program materials or events in providing information about the program? Would you say they were…

1. Very useful
2. Somewhat useful
3. Not very useful
4. Not at all useful
5. (Didn't see any program information)
8. (Don't know)
9. (Refused)

[ASK MK1c IF MK1b=3,4]

MK1c What would have made the materials more useful to you? [MULTIPLE RESPONSE, UP TO 3]

1. (More detailed information)
2. (Where to get additional information)
00. (Other, specify)
98. (Don't know)
99. (Refused)

MK2 In general, what is the best way of reaching public sector entities like yours to provide

information about energy efficiency opportunities like the program? [MULTIPLE RESPONSE, UP TO 3]

1. (Bill inserts)
2. (Flyers/ads/mailings)
3. (e-mail)
4. (Telephone)
5. (Electric utility Account Manager)
6. (Webinars/roundtables/events)
7. (Through trade or professional associations)
8. (Trade allies/contractors)
9. (In person/meetings)
00. (Other, specify)
98. (Don't know)
99. (Refused)

Benefits and Barriers

B1a What do you see as the main benefits of participating in the program? [MULTIPLE RESPONSE, UP TO 3]

1. (Energy Savings/Lower Utility Bill)
2. (Good for the Environment)
3. (Lower Maintenance Costs)
4. (Better Quality/New Equipment)
5. (Rebate/Incentive)
7. (Able to make improvements sooner/do more projects)
00. (Other, Specify)
98. (Don't know)
99. (Refused)

B1b What do you see as the drawbacks to participating in the program? [MULTIPLE RESPONSE, UP TO 3]

1. (Paperwork too burdensome)
2. (Incentives not high enough/not worth the effort)
3. (Program is too complicated)
4. (Cost of equipment)
00. (Other, specify)
96. (No drawbacks)
98. (Don't know)
99. (Refused)

B2 What do you think are the reasons organizations like yours do not participate in this program? [MULTIPLE RESPONSE, UP TO 3]

1. (Lack of awareness of the program)
2. (Financial reasons)
3. (Not aware of savings/don't realize the savings)
4. (Difficulty of Application/Paperwork Involved)
5. (Lack of Motivation)
6, (Lack of resources/personnel)
00. (Other, specify)
96. (None)
98. (Don't know)
99. (Refused)

B3 Was the scope of your project limited by the program's incentive cap?

1. Yes
2. No
00. (Other, specify)
98. (Don't know)
99. (Refused)

Feedback and Recommendations

R1 Do you plan to participate in the program again in the future?

1. Yes
2. No
3. Maybe
8. (Don't know)
9. (Refused)

R2 How could the program be improved? [MULTIPLE RESPONSE, UP TO 4]

1. (Higher incentives)
2. (More measures)
3. (Greater publicity)
4. (Better Communication/Improve Program Information)
5. (Better Review of Applications)
6. (Easier to Participate)
7. (Quicker processing time)
96. (No recommendations)
00. (Other, specify)
98. (Don't know)
99. (Refused)

Lighting Special

[IF IEN=0, SKIP TO F2]

LS1a Our records show that you participated in the Illinois Energy Now Lighting Special. Under this special promotion, you received an increased incentive amount that DCEO offered for a limited period of time for retrofitting or upgrading T12 lighting. Are you aware that you received this increased incentive?

(If needed, "This payment was part of a special offer from DCEO that paid increased incentives for retrofitting or upgrading T12 lamps, ballasts, and fixtures. To receive the higher incentives, you would have submitted the final application between December 13, 2010 and April 15, 2011 and filled out an addendum to the regular application form.")

1 Yes
2 No
8 (Don't know)
9 (Refused)

[IF LS1a<>1, SKIP TO F2]

LS1b Were you aware of the increased incentive when you decided to retrofit or upgrade your lighting?

1 Yes
2 No
8 (Don't know)
9 (Refused)

LS2 How did you find out about the lighting special?

1 (DCEO website)
2 (Webinar)
3 (SEDAC Newsletter)
4 (Contractor/Trade Ally)
5 (Speaker/Presentation at an event)
00 (Other, specify)
98 (Don't know)
99 (Refused)

LS3 If you had only received the regular incentive amount for upgrading or retrofitting your T12 lighting, how likely would you have been to still install the exact same products? Please use a scale from 0 to 10 where 0 means "not at all likely" and 10 means "extremely likely".

Firmographics

I only have a few general questions left.

[SKIP TO F7 If END USE = LED Traffic Signal]

F2 Which of the following best describes the ownership of the facility that participated in DCEO's Program? <COMPANY>…

1. Owns and occupies the facility
2. Owns the facility but the facility is rented to someone else
3. Rents the facility
8. (Don't know)
9. (Refused)

F6 And which of the following best describes the facility? The facility is…

1. <COMPANY>'s only location
2. One of several locations occupied by it
3. Its main location of several locations

F4a How old is this facility? [NUMERIC OPEN END, 0 TO 150; 998=Don't know, 999=Refused]

F5a How many employees, full plus part-time, are employed at this facility? [NUMERIC OPEN END, 0 TO 2000; 9998=Don't know, 9999=Refused]

[SKIP F7 IF F2=2]

F7 In comparison to other entities in your sector, would you describe <COMPANY> as…

1. A small entity
2. A medium-sized entity
3. A large entity
4. (Not applicable)
8. (Don't know)
9. (Refused)

F8 Finally, we have a few additional questions about the procurement process for projects like the one you completed through the DCEO program. Could you give me the name and telephone number of the person in your organization that is most knowledgeable about this? (If needed: This is the APPROVAL process for projects that involve the installation of new equipment.)

Name [OPEN END]
Phone Number [OPEN END]

96 (Respondent is the person most knowledgeable)
98. (Don't know)
99. (Refused)

[IF F8=96, READ] Thank you, someone may be contacting you soon to ask you some questions about your procurement processes.

5.1.2 Trade Ally and Contractor Free-ridership Survey Module

DCEO ILLINOIS ENERGY NOW PUBLIC SECTOR ENERGY EFFICIENCY PROGRAM
TRADE ALLY FREERIDERSHIP INTERVIEW GUIDE
STANDARD PROJECTS
10/27/11

Hello, this is _____ from Opinion Dynamics calling on behalf of DCEO. THIS IS NOT A SALES CALL. We are doing a brief survey with program allies who have been involved in projects supported by DCEO's Public Sector Energy Efficiency Program. Would you be willing to speak with me for about 2 minutes?

Freeridership Module [ASK ONLY IF IDENTIFIED BY CUSTOMER]

I now have a few specific questions about your firm's recent involvement in <%CUSTOMER>'s installation of <%MEASURE> through DCEO's Standard Incentive Program at <%ADDRESS> in <%MONTH/YEAR >.

FR1 <%CUSTOMER> has indicated that your firm was involved in the implementation of this project. Is this correct? Are you the person that is most knowledgeable about your firm's involvement in this project?

[IF NO, PROBE TO SEE IF THERE IS SOMEONE ELSE IN FIRM WHO MAY HAVE KNOWLEDGE OF THIS PROJECT, ELSE SKIP TO FR4]

FR2 Can you please describe your firm's role in the selection and installation of <%MEASURE> at <%CUSTOMER>'s facility? (Probe if firm merely supplied or installed equipment or if they had a role in selecting it. Probe about perceived level of influence firm's recommendation had on customers choice.)

[IF NO ROLE IN SELECTING EQUIPMENT, SKIP TO FR4]

FR3a On a scale of 0 to 10 where 0 is NOT AT ALL IMPORTANT and 10 is EXTREMELY IMPORTANT, how important was the PROGRAM, including incentives as well as program services and information, in influencing your decision to recommend that <%CUSTOMER> install the energy efficiency MEASURE at this time? [SCALE 0-10]

FR3b And using a 0 to 10 likelihood scale where 0 is NOT AT ALL LIKELY and 10 is EXTREMELY LIKELY, if the PROGRAM, including incentives as well as program services and information, had not been available, what is the likelihood that you would have recommended this specific MEASURE to <%CUSTOMER>? [SCALE 0-10]

[ASK FR4 IF NOT INVOLVED IN PROJECT OR NO ROLE IN SELECTING EQUIPMENT]

FR4 Do you know of any other vendors that worked with <%CUSTOMER> during their implementation and/or installation of <%MEASURE>, for example engineers or designers? If so, do you have their name and phone number?

5.1.3 Procurement Process Telephone Survey

DCEO ILLINOIS ENERGY NOW PUBLIC SECTOR ENERGY EFFICIENCY PROGRAM
EQUIPMENT PROCUREMENT PROCESS INTERVIEW GUIDE
STANDARD AND CUSTOM PROJECTS
Final 9/21/11

INTRODUCTION

Hello, this is _____ from Opinion Dynamics calling on behalf of the Illinois Department of Commerce and Economic Opportunity, or DCEO. This is not a sales call.

May I please speak with <PROGRAM CONTACT>?

Our records show that your organization completed an <ENDUSE> project with funding from the DCEO. We are conducting a follow-up study on behalf of DCEO to better understand equipment procurement processes in the public sector. Are you the most knowledgeable person about these processes at your organization?

[IF YES, CONTINUE]
[IF NO, ASK FOR THE CONTACT INFORMATION OF THE RIGHT PERSON]

My questions will only take about 10 minutes. Is now a good time?

[IF YES, CONTINUE]
[IF NO, SCHEDULE A CALL-BACK TIME]

Before we begin, I would like to ask for your permission to tape-record our conversation, so that I do not have to stop to take detailed notes. This tape will be used for analysis purposes only. All of your responses will remain confidential and will only be reported on aggregated with other responses.

For the following questions, please think about projects that involve equipment upgrades, such as lighting or heating or cooling equipment.

Project Funding

1. Where does the funding for equipment upgrade projects usually come from?
    a. How easy or difficult is it to obtain the funding? Why?

2. How far in advance of the project implementation date do you have to apply for/reserve the funding for equipment upgrades? Are there specific times of the year during which you need to apply for/reserve funding for equipment upgrades? If so, what are they?

3. What kind of information needs to be provided to secure such funds? [PROBE FOR ROI, PAYBACK CALCULATIONS, ETC.] Does this depend on the type of project or the dollar amount of the project? Please explain.

4. Is there a cap on the dollar amount that can be spent on equipment upgrades per project? Per year? If so, what is the amount? What determines this amount?

Project Approval Process

5. Broadly speaking, what steps does the equipment procurement process consist of at your organization? Do procurement steps vary depending on project costs? If so, what are the cost thresholds that require different procurement processes? What are the specific procurement steps that need to be performed for projects with various cost thresholds?
6. What groups or entities are involved in the project approval process? [PROBE FOR SCHOOL BOARDS, TOWNSHIP MEETINGS, ETC.] Is voting involved in the project approval process? If so, how does the process work?

7. Is energy efficiency a formal requirement for your project approval?

Project Bidding/RFP Process

8. Is there a dollar amount above which a request for proposal is required? If so, what is it?

9. What steps does the typical bidding process consist of? How long does it take?

10. What factors that influence bid selection have been barriers to energy efficiency? [PROBE: lowest bid requirement, local/women/minority/made-in-USA/union business preferences, etc.] What factors that influence bid selection have been supportive of energy efficiency? [PROBE: sustainability policies, life cycle cost analysis, etc.]

11. Is energy efficiency a formal consideration or requirement in the equipment procurement process?

12. How easy or difficult is it to secure contractors to implement a project such as the <ENDUSE> project your organization completed with DCEO funding? Why do you say that? What factors does it depend on?

Project Timing

13. What times of the year are best for implementing equipment upgrades at your organization? Why do you say that?

Project Recommendations

14. Which parts of the equipment procurement process present the biggest challenge? Why do you say that?

15. In your opinion, is there anything the DCEO Public Sector Energy Efficiency Program could do to help organizations like yours to participate in the program? What changes could the program make to make the participation process easier?

Those are all of the questions I have for you.
On behalf of DCEO, thank you for your time and cooperation.

5.1.4 Program Drop-out Telephone Survey

DCEO PUBLIC SECTOR ELECTRIC EFFICIENCY PROGRAM
PARTICIPANT DROPOUT INTERVIEW GUIDE
STANDARD AND CUSTOM PROJECTS

Final 9/14/11

INTRODUCTION

Hello, this is _____ from Opinion Dynamics calling on behalf of the Illinois Department of Commerce and Economic Opportunity, or DCEO. This is not a sales call.

[IF CONTACT NAME EXISTS] May I please speak with <PROGRAM CONTACT>?
[IF NO CONTACT NAME EXISTS] I would like to speak with the person most knowledgeable about your facility's energy-related equipment.

Our records show that <COMPANY> had submitted a pre-approval application in <MONTH/YEAR> for an incentive from DCEO to perform an energy efficient upgrade. We are calling to ask a few questions about your experience with this program, which is called the Public Sector Electric Efficiency Program.

My questions will take about 5 to 10 minutes. Is now a good time?

SCREENING

1. Just to confirm, did <COMPANY> submit a pre-approval application to DCEO's Public Sector Electric Efficiency program between June 2010 and May 2011? [IF NO, THANK AND TERMINATE]

2. My records show that your organization did NOT submit a final application for this project. Is that correct? [IF SUBMITTED, THANK AND TERMINATE]

PROJECT IMPLEMENTATION

3. Why did your organization not submit a final application for that project? [IF MOVED INTO PY4, THANK AND TERMINATE]

4. What had you intended to install with the DCEO incentive? Ultimately, did your organization implement the project without DCEO funding?

[IF A PROJECT WAS IMPLEMENTED, ASK Q5-10, ELSE SKIP TO Q11]

5. What did you install? Did you install the same equipment you had intended to install with DCEO funding? [IF NO] Did you install high efficiency products? Please describe.

6. Can you briefly describe the factors that influenced the selection of the equipment you installed? *(Probe: role of contractor, organization's policy, availability of equipment, upfront investment, payback period)*

[IF PROJECT WASN'T HIGH EFFICIENCY, SKIP TO Q.10]

7. [ASK IF CUSTOMER INSTALLED SAME EQUIPMENT] When you initially decided to install high efficiency equipment as opposed to standard efficiency equipment, were you aware of the DCEO program and the available incentive? [IF NO, SKIP TO Q.10]

8. How influential was the DCEO program in your decision to install high efficiency equipment? *(Very, somewhat, not very, not at all)* Please explain.

9. If you had not known about the DCEO program, how likely is it that you would have selected the same equipment? *(Very, somewhat, not very, not at all)* Please explain.

10. Was this project completed with any other state or federal funding, such as ARRA funding?

11. Is there anything that could have been done to help you complete this project through the DCEO program? *(Probe: assistance with program forms and requirements, help working with contractors and obtaining bids, technical assistance.)*

PROGRAM PARTICIPATION

12. Had you participated in DCEO's Public Sector Electric Efficiency program in the past? [IF YES] How satisfied were you with that participation?

13. Is <COMPANY> considering installing any new equipment at this facility in the next two years? [IF NO, SKIP TO Q.14]
    a. What type of equipment do you plan to install? How likely is it that the equipment you plan to install will be energy efficient? [IF UNLIKELY] Why do you say that? [IF UNLIKELY, SKIP TO Q.14]
    b. How likely are you to participate in DCEO's Public Sector Electric Efficiency program when you install your energy efficient equipment? [IF UNLIKELY] Why do you say that?

KNOWLEDGE AND DECISION MAKING

14. How knowledgeable would you say <COMPANY> is about options to make its facilities more energy efficient? *(Probe: very, somewhat, not very, not at all)*

15. How energy efficient would you rate your facility? *(Very, somewhat, not very, not at all)* Why do you say that? Has your facility ever had an energy audit/consultation to assess its energy efficiency?

16. Are you or other people at <COMPANY> involved in the decision making process for the types of energy consuming equipment to install?

17. When considering purchasing new equipment, what sources do you consult for information and guidance on what type of equipment to select? What factors does <COMPANY > consider when purchasing new equipment for its facility?

18. What are the key challenges that organizations like <COMPANY> face when purchasing energy efficient equipment?

Those are all of the questions I have for you.
On behalf of DCEO, thank you for your time and cooperation.

5.2 *Utility Specific Impacts*

Utility-specific energy impacts are provided below. The energy realization rate and net-to-gross ratio were developed based on a statewide sampling methodology and are applied to the ex-ante savings reported for participants served by ComEd and those served by Ameren Illinois.

Table 5-1. Utility Specific Evaluation-Adjusted Net kWh Impacts for the PY3 Standard Program

Utility	Ex Ante Gross kWh	Ex Post Gross kWh	kWh RR	Ex Post Net kWh	NTGR (ex post gross)
Ameren	12,932,568	14,064,435	1.09	9,219,790	0.66
ComEd	40,702,174	44,264,454	1.09	29,017,090	0.66
Total	53,634,742	58,328,889	1.09	38,236,880	0.66

Source: Analysis of tracking savings from DCEO tracking system, September 7, 2011. The values displayed for RR and NTGR are rounded.

5.3 *Methodologies and Sampling*

5.3.1 Impact Evaluation Methods

Gross Program Savings

The objective of this element of the impact evaluation is to verify the veracity and accuracy of the PY3 ex ante gross savings estimates in the Standard program tracking system. The savings reported in DCEO's tracking system were evaluated using the following steps:

1. Engineering review at the measure-level for a sample of 52 project files, with the following subcomponents:
    a. Engineering review and analysis of measure savings based on project documentation, default assumptions, and tracking data.
    b. Review and application (if appropriate) of participant telephone survey impact data (reported hours of use) to projects in the engineering review sample.
    c. On-site verification audits at 25 project sites selected from the sample of 52 projects. Performance measurements included spot measurements and run-time hour data logging for selected measures. On-site data collection was conducted in the July through September period.
    d. Calculation of a verified gross savings value (kWh) for each project within the sample, based on measure-level engineering analysis.
2. Carry out a quality control review of the ex post impact estimates and the associated draft site reports and implement any necessary revisions.

A verified gross realization rate (which is the ratio of the ex post gross savings-to-reported tracking savings) was then estimated for the sample, by sampling stratum, and applied to the population of reported tracking savings, using sampling-based approaches. The result is an ex post estimate of gross savings for the Standard program.

Engineering Review of Project Files

For each selected project, an in-depth application review is performed to assess the engineering methods, parameters and assumptions used to generate all ex ante impact estimates. For each measure in the sampled project, engineers estimated ex post gross savings based on their review of documentation, consideration of CATI interview responses, and engineering analysis.

To support this review, DCEO provided project documentation that included some or all of hardcopy application forms and supporting documentation from the applicant (invoices, measure specification sheets, and vendor proposals), pre-inspection reports (when available), post inspection reports (when conducted), calculation spreadsheets, and important email and memoranda. Where projects covered by the participant telephone survey overlapped with the

engineering review sample, relevant impact data from the telephone interview (reported hours of use) was applied to projects.

On-Site Data Collection

On-site surveys were completed for a subset of 25 of the 52 customer applications sampled. For most projects on-site sources include interviews that are completed at the time of the on-site, visual inspection of the systems and equipment, EMS data downloads, spot measurements, and short-term monitoring (e.g., less than four weeks).

An analysis plan is developed for each project selected for on-site data collection. Each plan explains the general gross impact approach used (including monitoring plans), provides an analysis of the current inputs (based on the application and other available sources at that time), and identifies sources that will be used to verify data or obtain newly identified inputs for the ex post gross impact approach.

The engineer assigned to each project first calls to set up an appointment with the customer. During the on-site audit, data identified in the analysis plan is collected, including monitoring records (such as instantaneous spot watt measurements for relevant equipment, measured temperatures, data from equipment logs and EMS/SCADA system downloads), equipment nameplate data, system operation sequences and operating schedules, and, of course, a careful description of site conditions that might contribute to baseline selection.

All engineers who conduct audits are trained and experienced in completing inspections for related types of projects. Each carries properly calibrated equipment required to conduct the planned activities. They check in with the site contact upon arrival at the building, and check out with that same site contact, or a designated alternate, on departure. The on-site audit consists of a combination of interviewing and taking measurements. During the interview, the engineer meets with a building representative who is knowledgeable about the facility's equipment and operation, and asks a series of questions regarding operating schedules, location of equipment, and equipment operating practices. Following this interview, the engineer makes a series of detailed observations and measurements of the building and equipment. All information is recorded and checked for completeness before leaving the site.

Conduct Site-Specific Impact Calculations and Prepare Site Reports

After all of the field data is collected, including any monitoring data, annual energy and demand impacts are developed based on the on-site data, monitoring data, application information, and, in some cases, billing or interval data. Each program engineering analysis is based on calibrated engineering models that make use of hard copy application review and on-site gathered information surrounding the equipment installed through the program (and the operation of those systems).

Energy and demand savings calculations are accomplished using methods that include short-term monitoring-based assessments, simulation modeling (e.g., DOE-2), bin models, application of ASHRAE methods and algorithms, analysis of pre- and post-installation billing and interval data, and other specialized algorithms and models.

For this study, peak hours are defined as non-holiday weekdays between 1:00 PM and 5:00 PM Central Prevailing Time (CPT) from June 1 to August 31. This is in accordance with the PJM manual 18, *Energy Efficiency and Verification*, of March 1, 2010.

Peak demand savings for both baseline and post retrofit conditions are the average demand kW savings for the 1 pm to 5 pm weekday time period. If this energy savings measure is determined to have weather dependency then the peak kW savings are based on the zonal weighted temperature humidity index (WTHI) standard posted by PJM. The zonal WTHI is the mean of the zonal WTHI values on the days in which PJM peak load occurred in the past ten years. This mean WTHI value is 80.4. Demand savings is the difference in kW between the baseline and post retrofit conditions.

After completion of the engineering analysis, a site-specific draft impact evaluation report is prepared that summarizes the M&V plan, the data collected at the site, and all of the calculations and parameters used to estimate savings. Each draft site report underwent senior engineer review and comment, providing feedback to each assigned engineer for revisions or other improvements. Each assigned engineer then revised the draft reports as necessary to produce the final site reports.

Net Program Savings

After gross program impacts have been assessed, net program impacts are derived by estimating a Net-to-Gross (NTG) ratio that quantifies the percentage of the gross program impacts that can be reliably attributed to the program.

For PY3, the net program impacts were quantified from the estimated level of free-ridership. Quantifying free-ridership requires estimating what would have happened in the absence of the program. A customer self-report method, based on data gathered during participant telephone interviews, was used to estimate the free-ridership for this evaluation. The existence of participant spillover was qualitatively examined by identifying spillover candidates through questions asked in the participant telephone interviews. If response data provides sufficient detail to quantify participant spillover, those impacts are estimated.

Once free-ridership and participant spillover has been estimated the Net-to-Gross (NTG) ratio is calculated as follows:

NTG Ratio = 1 – Free-ridership Rate + Participant Spillover

Basic Rigor Free-Ridership Assessment

Free ridership was assessed using a customer self-report approach following a framework that was developed for evaluating net savings of California's 2006-2008 nonresidential energy efficiency programs. This method calculates free-ridership using data collected during participant telephone interviews concerning the following three items:

A **Timing and Selection** score that reflected the influence of the most important of various program and program-related elements in the customer's decision to select the specific program measure at this time.

A **Program Influence** score that captured the perceived importance of the program (whether rebate, recommendation, or other program intervention) relative to non-program factors in the decision to implement the specific measure that was eventually adopted or installed. This score is cut in half if they learned about the program after they decided to implement the measures *and* funds were committed before learning about the program (if funds were not committed, the program received full credit).

A **No-Program** score that captures the likelihood of various actions the customer might have taken at this time and in the future if the program had not been available. This score accounts for deferred free ridership by incorporating the likelihood that the customer would have installed program-qualifying measures at a later date if the program had not been available.

Each of these scores represents the highest response or the average of several responses given to one or more questions about the decision to install a program measure. The rationale for using the maximum value is to capture the most important element in the participant's decision making. This approach and scoring algorithm is identical to that used by the Ameren Illinois evaluators with the exact same questions.

Standard Rigor Free-Ridership Assessment

For larger projects in the sample[26] an effort is made during the customer telephone interview to more completely examine project influence sources in order to allow for any analyst-determined adjustments to customer self-reported score calculations using the Basic approach outlined above. Additional survey batteries examine other project decision-making influences including the vendor, age, availability of ARRA funds, and condition of existing equipment, government policy for efficiency improvements and so on. Any adjustments made on this basis are carefully documented and the rationale for any adjustments is provided, to ensure their transparency.

[26] Larger projects are the largest projects in the sample that combined to comprise approximately forty percent of program energy savings in the July 13, 2011 extract population from which the CATI sample was developed.

In a Standard Rigor Free-Ridership Assessment, program influence through vendor recommendations is incorporated into the Timing and Selection score, if a vendor interview has been triggered. The purpose of this additional component is to assess the influence of the program on vendors for programs that are vendor-driven, where the sponsor has specific outreach and assistance efforts targeting vendors.

Triggering of a vendor interview occurs when the interviewee responds as follows:

> The respondent identifies that a contractor, SEDAC representative, engineer, architect, manufacturer, distributor, or supplier:

was the most influential in identifying and recommending that the respondent install the project completed through the Public Sector Energy Efficiency Program, or

informed the respondent about the availability of an incentive through the DCEO Program

> AND, the respondent rates the importance with a score of 8 or higher for

Recommendation from an equipment vendor or contractor that helped with the choice of the equipment

A recommendation from a design or consulting engineer

When triggered, vendors were interviewed regarding their involvement in the project and the influence of the program in their recommendations to the participant. The NTG interview questions for vendors are provided below, and are the basis for estimating a Vendor Score, calculated as follows:

> The Vendor Score is the maximum (on a scale of 0 to 10) of the following factors:

1. [Score= response, on scale of 0 to 10] On a scale of 0 to 10 where 0 is NOT AT ALL IMPORTANT and 10 is EXTREMELY IMPORTANT, how important was the PROGRAM, including incentives as well as program services and information, in influencing your decision to recommend that <%CUSTOMER> install the energy efficiency MEASURE at this time?
2. [Score= 10 minus the response, on a scale from 0 to 10] And using a 0 to 10 likelihood scale where 0 is NOT AT ALL LIKELY and 10 is EXTREMELY LIKELY, if the PROGRAM, including incentives as well as program services and information, had not been available, what is the likelihood that you would have recommended this specific MEASURE to <%CUSTOMER>?

The algorithm above provides a Vendor Score on a scale of 0 to 10, where 10 is associated is with no free-ridership due to program influence on the vendor. The Vendor Score is then factored into the Timing and Selection Score.

The calculation of free-ridership for the Standard program is a multi-step process. The survey covers a battery of questions used to assess net-to-gross ratio for a specific end-use and site.

Responses are used to calculate a Timing and Selection score, a Program Influence score and a No-Program score for each project covered through the survey. These three scores can take values of 0 to 10 where a lower score indicates a higher level of free-ridership. The calculation then averages those three scores to come up with a project-level free-ridership level.

If the customer has additional projects at other sites covering the same end-use, the survey asks whether the responses also apply to the other projects. If that is the case, the additional projects are given the same score.

Spillover

For the PY3 Standard program evaluation, a battery of questions was asked to qualitatively assess spillover. Below are paraphrased versions of the spillover questions that were asked:

1. Since your participation in the DCEO program, did you implement any ADDITIONAL energy efficiency measures at this facility that did NOT receive incentives through any utility or government program?
2. What specifically were the measures that you implemented?
3. Why are you not expecting an incentive for these measures?
4. Why did you not install this measure through the DCEO Program?
5. Please describe the SIZE, TYPE, and OTHER ATTRIBUTES of these measures.
6. Please describe the EFFICIENCY of these measures.
7. Please describe the QUANTITY installed of these measures.
8. Were these measures specifically recommended by a program related audit, report or program technical specialist?
9. How significant was your experience in the DCEO Program in your decision to implement this Measure, using a scale of 0 to 10, where 0 is not at all significant and 10 is extremely significant?
10. Why do you give the DCEO program this influence rating?
11. If you had not participated in the DCEO program, how likely is it that your organization would still have implemented this measure, using a 0 to 10, scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure?

Responses to these questions allow us to assess whether spillover may be occurring and the type of equipment involved, but do not offer enough detail to quantify the spillover.

NTG Scoring

The net-to-gross scoring approach is summarized in Table 5-2.

Table 5-2. Net-to-Gross Scoring Algorithm for the PY3 Standard Program

Scoring Element	Calculation
Timing and Selection score. Maximum score (on a scale of 0 to 10 where 0 equals not at all influential and 10 equals very influential) among the self-reported influence level the program had for: A. Availability of the program incentive B. Recommendation from a DCEO staff person C. Information from program marketing materials D. Endorsement or recommendation by utility account manager E. Other factors (recorded verbatim) F. Information provided through technical assistance received from DCEO or SEDAC staff G. Vendor Score (if triggered) Potential adjustments for non-program influences	Basic Rigor: Maximum of A, B, C, D, and E Standard Rigor: Maximum of A, B, C, D, E, F, and G, with potential adjustments for non-program influences
Program Influence score. "If you were given a TOTAL of 100 points that reflect the importance in your decision to implement the <ENDUSE>, and you had to divide those 100 points between: 1) the program and 2) other factors, how many points would you give to the importance of the PROGRAM?"	Points awarded to the program (divided by 10). Divide by 2 if customer learned about program AFTER deciding to implement measure that was installed *and* funds were committed before learning about the program
No-Program score. "Using a likelihood scale from 0 to 10, where 0 is "Not at all likely" and 10 is "Extremely likely," if the program had not been available, what is the likelihood that you would have installed exactly the same equipment?" The NTG algorithm computes the Likelihood Score as 10 minus the respondent's answer (e.g., likelihood score will be 0 if extremely likely to install exactly the same equipment if the program had not been available). Adjustments to the "Likelihood score" are made for timing: "Without the program, when do you think you would have installed this equipment?" Free-ridership diminishes as timing of the installation without the program moves further into the future.	Interpolate between Likelihood Score and 10 to obtain the No-Program score, where If "At the same time" or within 6 months then the No Program score equals the Likelihood Score, and if 48 months later then the No Program Score equals 10 (no free-ridership)
Project-level Free-ridership (ranges from 0.00 to 1.00)	1 – Sum of scores (Timing & Selection, Program Influence, No-Program)/30
Apply score to other end-uses within the same project?	If yes, assign free-ridership score to other end-uses of the same project
Apply score to other projects of the same end-use?	If yes, assign free-ridership score to same end-use of other projects
PY3 Project level Net-to-Gross Ratio (ranges from 0.00 to 1.00)	1 – Project level Free-ridership

5.4 Other Appendices

5.4.1 PY3 Tracking System and Default Values Check

The attached spreadsheet provides a verification check of default values identified in the tracking system lookup tables.

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	College/University	4486	Y		NA	none	Per Compressor H	NA	1886
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	College/University	4486	Y		NA	none	Per Compressor H	NA	12545
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	College/University	4486	Y		NA	none	Per Compressor H	NA	14225
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Medical	4486	Y		NA	none	Per Compressor H	NA	1887
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Medical	4486	Y		NA	none	Per Compressor H	NA	12546
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Medical	4486	Y		NA	none	Per Compressor H	NA	14226
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Office	4486	Y		NA	none	Per Compressor H	NA	1888
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Office	4486	Y		NA	none	Per Compressor H	NA	12547
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	Office	4486	Y		NA	none	Per Compressor H	NA	14227
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	School	4486	Y		NA	none	Per Compressor H	NA	1889
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	School	4486	Y		NA	none	Per Compressor H	NA	12548
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - New Hood	School	4486	Y		NA	none	Per Compressor H	NA	14228
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	College/University	4486	Y		NA	none	Per Compressor H	NA	1895
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	College/University	4486	Y		NA	none	Per Compressor H	NA	12554
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	College/University	4486	Y		NA	none	Per Compressor H	NA	14234

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Medical	4486	Y		NA	none	Per Compressor H	NA	1896
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Medical	4486	Y		NA	none	Per Compressor H	NA	12555
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Medical	4486	Y		NA	none	Per Compressor H	NA	14235
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Office	4486	Y		NA	none	Per Compressor H	NA	1897
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Office	4486	Y		NA	none	Per Compressor H	NA	12556
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	Office	4486	Y		NA	none	Per Compressor H	NA	14236
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	School	4486	Y		NA	none	Per Compressor H	NA	1898
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	School	4486	Y		NA	none	Per Compressor H	NA	12557
HVAC	Demand Control Ventilation for Kitchen Exhaust Hoods - Retrofit	School	4486	Y		NA	none	Per Compressor H	NA	14237
HVAC	HVAC Air Cooled Chillers	College/University	182	Y	PY1 value	NA	ALL	Per Ton	IPLV	1580
HVAC	HVAC Air Cooled Chillers	College/University	182	Y	PY1 value	NA	ALL	Per Ton	IPLV	11312
HVAC	HVAC Air Cooled Chillers	College/University	182	Y	PY1 value	NA	ALL	Per Ton	IPLV	12992
HVAC	HVAC Air Cooled Chillers	Medical	343	Y	PY1 value	NA	ALL	Per Ton	IPLV	1581
HVAC	HVAC Air Cooled Chillers	Medical	343	Y	PY1 value	NA	ALL	Per Ton	IPLV	11313
HVAC	HVAC Air Cooled Chillers	Medical	343	Y	PY1 value	NA	ALL	Per Ton	IPLV	12993
HVAC	HVAC Air Cooled Chillers	Office	149	Y	PY1 value	NA	ALL	Per Ton	IPLV	1582
HVAC	HVAC Air Cooled Chillers	Office	149	Y	PY1 value	NA	ALL	Per Ton	IPLV	11314
HVAC	HVAC Air Cooled Chillers	Office	149	Y	PY1 value	NA	ALL	Per Ton	IPLV	12994
HVAC	HVAC Air Cooled Chillers	School	100	Y	PY1 value	NA	ALL	Per Ton	IPLV	1583
HVAC	HVAC Air Cooled Chillers	School	100	Y	PY1 value	NA	ALL	Per Ton	IPLV	11315
HVAC	HVAC Air Cooled Chillers	School	100	Y	PY1 value	NA	ALL	Per Ton	IPLV	12995
HVAC	HVAC Room Air Conditioners	College/University	183	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1589
HVAC	HVAC Room Air Conditioners	College/University	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1598
HVAC	HVAC Room Air Conditioners	College/University	183	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11321
HVAC	HVAC Room Air Conditioners	College/University	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11330
HVAC	HVAC Room Air Conditioners	College/University	183	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	13001
HVAC	HVAC Room Air Conditioners	College/University	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	13010
HVAC	HVAC Room Air Conditioners	Medical	345	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1590
HVAC	HVAC Room Air Conditioners	Medical	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1599
HVAC	HVAC Room Air Conditioners	Medical	345	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11322
HVAC	HVAC Room Air Conditioners	Medical	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11331
HVAC	HVAC Room Air Conditioners	Medical	345	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	13002
HVAC	HVAC Room Air Conditioners	Medical	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	13011
HVAC	HVAC Room Air Conditioners	Office	150	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1591

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Room Air Conditioners	Office	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1600
HVAC	HVAC Room Air Conditioners	Office	150	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11323
HVAC	HVAC Room Air Conditioners	Office	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11332
HVAC	HVAC Room Air Conditioners	Office	150	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	13003
HVAC	HVAC Room Air Conditioners	Office	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	13012
HVAC	HVAC Room Air Conditioners	School	100	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1592
HVAC	HVAC Room Air Conditioners	School	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1601
HVAC	HVAC Room Air Conditioners	School	100	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11324
HVAC	HVAC Room Air Conditioners	School	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11333
HVAC	HVAC Room Air Conditioners	School	100	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	13004
HVAC	HVAC Room Air Conditioners	School	119	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	13013
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	49	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	1300
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	92	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	1309
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	1318
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	144	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	1327
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	1517
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	66.1	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	1535
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	17	N	NA	NA	>760,000Btuh (>	Per Ton	9.7 EER/11.0	1544
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	50.5	Y		NA	>760,000Btuh (>	Per Ton	10.2 EER/11.	1553
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	49	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	11222
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	92	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	11231

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	11240
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	144	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	11249
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	11258
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	66.1	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	11267
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	17	N	NA	NA	>760,000Btuh (>	Per Ton	9.7 EER/11.0	11276
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	50.5	Y		NA	>760,000Btuh (>	Per Ton	10.2 EER/11.	11285
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	49	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	12902
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	92	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	12911
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	12920
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	144	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	12929
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	114	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	12938
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	66.1	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	12947
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	17	N	NA	NA	>760,000Btuh (>	Per Ton	9.7 EER/11.0	12956
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	College/University	50.5	Y		NA	>760,000Btuh (>	Per Ton	10.2 EER/11.	12965

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	97	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	1301
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	181	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	1310
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	11.5 EER/11.	1319
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	272	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	12 EER/12.4	1328
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	1518
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	116	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	1536
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	114	N	NA	NA	>760,000Btuh (>	Per Ton	9.7 EER/11.0	1545
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	89	Y		NA	>760,000Btuh (>	Per Ton	10.2 EER/11.	1554
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	97	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	11223
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	181	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	11232
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	11.5 EER/11.	11241
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	272	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	12 EER/12.4	11250
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	11259
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	116	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	11268

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	114	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	11277
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	89	Y		NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	11286
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	97	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	12903
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	181	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	12912
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	11.5 EER/11.	12921
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	272	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	12 EER/12.4	12930
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	215	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	12939
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	116	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	12948
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	114	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	12957
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Medical	89	Y		NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	12966
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	41	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	1302
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	77	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	1311
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	11.5 EER/11.	1320
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	118	Y	PY1 value	NA	>= 65,000 BTUI	Per Ton	12 EER/12.4	1329

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	1519
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	56	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	1537
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	215	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	1546
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	42	Y		NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	1555
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	41	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	11224
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	77	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	11233
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	11242
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	118	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	11251
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	11260
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	56	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	11269
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	215	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	11278
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	42	Y		NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	11287
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	41	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	12904
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	77	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	12913

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	12922
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	118	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	12931
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	93	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	12940
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	56	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	12949
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	215	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	12958
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	Office	42	Y		NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	12967
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	20.7	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	1303
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	38.6	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	1312
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	1321
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	79	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	1330
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	1520
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	28.9	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	1538
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	93	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	1547
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	0	N	NA	NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	1556

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	20.7	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	11225
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	38.6	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	11234
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	11243
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	79	Y	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	11252
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	Y	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	11261
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	28.9	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	11270
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	93	N	NA	NA	>760,000Btuh (>	Per Ton	9.7 EER/11.0	11279
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	0	N	NA	NA	>760,000Btuh (>	Per Ton	10.2 EER/11.	11288
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	20.7	Y		NA	<65000 BTUH(E	Per Ton	14 SEER	12905
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	38.6	Y		NA	<65000 BTUH(E	Per Ton	15 SEER	12914
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	NA	PY1 value	NA	>= 65,000 BTUH	Per Ton	11.5 EER/11.	12923
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	79	NA	PY1 value	NA	>= 65,000 BTUH	Per Ton	12 EER/12.4	12932
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	62	NA	PY1 value	NA	>=240,000 Btuh	Per Ton	10.5 EER/10.	12941
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	28.9	Y		NA	>=240,000 Btuh	Per Ton	10.8 EER/12.	12950

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	93	N	NA	NA	>760,000Btuh (:	Per Ton	9.7 EER/11.0	12959
HVAC	HVAC Unitary and Split Air Conditioning Systems and Air Source Heat Pump	School	0	N	NA	NA	>760,000Btuh (:	Per Ton	10.2 EER/11.	12968
HVAC	HVAC Water Cooled Chillers	College/University	99	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1562
HVAC	HVAC Water Cooled Chillers	College/University	198	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1571
HVAC	HVAC Water Cooled Chillers	College/University	99	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11294
HVAC	HVAC Water Cooled Chillers	College/University	198	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11303
HVAC	HVAC Water Cooled Chillers	College/University	99	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	12974
HVAC	HVAC Water Cooled Chillers	College/University	198	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	12983
HVAC	HVAC Water Cooled Chillers	Medical	187	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1563
HVAC	HVAC Water Cooled Chillers	Medical	373	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1572
HVAC	HVAC Water Cooled Chillers	Medical	187	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11295
HVAC	HVAC Water Cooled Chillers	Medical	373	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11304
HVAC	HVAC Water Cooled Chillers	Medical	187	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	12975
HVAC	HVAC Water Cooled Chillers	Medical	373	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	12984
HVAC	HVAC Water Cooled Chillers	Office	81	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1564
HVAC	HVAC Water Cooled Chillers	Office	162	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1573
HVAC	HVAC Water Cooled Chillers	Office	81	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11296
HVAC	HVAC Water Cooled Chillers	Office	162	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11305
HVAC	HVAC Water Cooled Chillers	Office	81	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	12976
HVAC	HVAC Water Cooled Chillers	Office	162	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	12985
HVAC	HVAC Water Cooled Chillers	School	54	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	1565
HVAC	HVAC Water Cooled Chillers	School	108	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	1574
HVAC	HVAC Water Cooled Chillers	School	54	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	11297
HVAC	HVAC Water Cooled Chillers	School	108	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	11306
HVAC	HVAC Water Cooled Chillers	School	54	Y	PY1 value	NA	ALL	Per Ton	Level 1 (see s	12977
HVAC	HVAC Water Cooled Chillers	School	108	Y	PY1 value	NA	ALL	Per Ton	Level 2 (see s	12986
HVAC	PTAC	College/University	211	Y	NA		ALL	Per Ton	13.08-(0.2556	1607
HVAC	PTAC	College/University	211	Y	NA		ALL	Per Ton	13.08-(0.2556	11339
HVAC	PTAC	College/University	211	Y	NA		ALL	Per Ton	13.08-(0.2556	13019
HVAC	PTAC	Medical	315	Y	NA		ALL	Per Ton	13.08-(0.2556	1608
HVAC	PTAC	Medical	315	Y	NA		ALL	Per Ton	13.08-(0.2556	11340
HVAC	PTAC	Medical	315	Y	NA		ALL	Per Ton	13.08-(0.2556	13020
HVAC	PTAC	Office	136	Y	NA		ALL	Per Ton	13.08-(0.2556	1609
HVAC	PTAC	Office	136	Y	NA		ALL	Per Ton	13.08-(0.2556	11341
HVAC	PTAC	Office	136	Y	NA		ALL	Per Ton	13.08-(0.2556	13021
HVAC	PTAC	School	105	Y	NA		ALL	Per Ton	13.08-(0.2556	1610
HVAC	PTAC	School	105	Y	NA		ALL	Per Ton	13.08-(0.2556	11342
HVAC	PTAC	School	105	Y	NA		ALL	Per Ton	13.08-(0.2556	13022

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HVAC	Variable-Speed Drive on HVAC Motors	College/University	517	Y		NA	ALL	Per Compressor H	NA	1526
HVAC	Variable-Speed Drive on HVAC Motors	College/University	517	Y		NA	ALL	Per Compressor H	NA	11348
HVAC	Variable-Speed Drive on HVAC Motors	College/University	517	Y		NA	ALL	Per Compressor H	NA	13028
HVAC	Variable-Speed Drive on HVAC Motors	Medical	842	Y		NA	ALL	Per Compressor H	NA	1527
HVAC	Variable-Speed Drive on HVAC Motors	Medical	842	Y		NA	ALL	Per Compressor H	NA	11349
HVAC	Variable-Speed Drive on HVAC Motors	Medical	842	Y		NA	ALL	Per Compressor H	NA	13029
HVAC	Variable-Speed Drive on HVAC Motors	Office	216	Y		NA	ALL	Per Compressor H	NA	1528
HVAC	Variable-Speed Drive on HVAC Motors	Office	216	Y		NA	ALL	Per Compressor H	NA	11350
HVAC	Variable-Speed Drive on HVAC Motors	Office	216	Y		NA	ALL	Per Compressor H	NA	13030
HVAC	Variable-Speed Drive on HVAC Motors	School	270	Y		NA	ALL	Per Compressor H	NA	1529
HVAC	Variable-Speed Drive on HVAC Motors	School	270	Y		NA	ALL	Per Compressor H	NA	11351
HVAC	Variable-Speed Drive on HVAC Motors	School	270	Y		NA	ALL	Per Compressor H	NA	13031
Lighting	12 " Arrow LED module	College/University	1095	N	NA	LED Traffic signal modules	none	Module	NA	1472
Lighting	12 " Arrow LED module	College/University	1095	N	NA	LED Traffic signal modules	none	Module	NA	11186
Lighting	12 " Arrow LED module	College/University	1095	N	NA	LED Traffic signal modules	none	Module	NA	12866
Lighting	12 " Arrow LED module	Medical	1095	N	NA	LED Traffic signal modules	none	Module	NA	1473
Lighting	12 " Arrow LED module	Medical	1095	N	NA	LED Traffic signal modules	none	Module	NA	11187
Lighting	12 " Arrow LED module	Medical	1095	N	NA	LED Traffic signal modules	none	Module	NA	12867
Lighting	12 " Arrow LED module	Office	1095	N	NA	LED Traffic signal modules	none	Module	NA	1474
Lighting	12 " Arrow LED module	Office	1095	N	NA	LED Traffic signal modules	none	Module	NA	11188
Lighting	12 " Arrow LED module	Office	1095	N	NA	LED Traffic signal modules	none	Module	NA	12868
Lighting	12 " Arrow LED module	School	1095	N	NA	LED Traffic signal modules	none	Module	NA	1475
Lighting	12 " Arrow LED module	School	1095	N	NA	LED Traffic signal modules	none	Module	NA	11189
Lighting	12 " Arrow LED module	School	1095	N	NA	LED Traffic signal modules	none	Module	NA	12869
Lighting	12 " Pedestrian LED Module	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	1490
Lighting	12 " Pedestrian LED Module	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	11204
Lighting	12 " Pedestrian LED Module	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	12884
Lighting	12 " Pedestrian LED Module	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	1491
Lighting	12 " Pedestrian LED Module	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	11205
Lighting	12 " Pedestrian LED Module	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	12885
Lighting	12 " Pedestrian LED Module	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	1492

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Lighting	12 " Pedestrian LED Module	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	11206
Lighting	12 " Pedestrian LED Module	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	12886
Lighting	12 " Pedestrian LED Module	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	1493
Lighting	12 " Pedestrian LED Module	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	11207
Lighting	12 " Pedestrian LED Module	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	12887
Lighting	12 " Traffic LED Signal Head	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	1454
Lighting	12 " Traffic LED Signal Head	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	11168
Lighting	12 " Traffic LED Signal Head	College/University	1077	N	NA	LED Traffic signal modules	none	Module	NA	12848
Lighting	12 " Traffic LED Signal Head	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	1455
Lighting	12 " Traffic LED Signal Head	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	11169
Lighting	12 " Traffic LED Signal Head	Medical	1077	N	NA	LED Traffic signal modules	none	Module	NA	12849
Lighting	12 " Traffic LED Signal Head	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	1456
Lighting	12 " Traffic LED Signal Head	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	11170
Lighting	12 " Traffic LED Signal Head	Office	1077	N	NA	LED Traffic signal modules	none	Module	NA	12850
Lighting	12 " Traffic LED Signal Head	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	1457
Lighting	12 " Traffic LED Signal Head	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	11171
Lighting	12 " Traffic LED Signal Head	School	1077	N	NA	LED Traffic signal modules	none	Module	NA	12851
Lighting	15W or Less	College/University	127	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	809
Lighting	15W or Less	College/University	127	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10901
Lighting	15W or Less	College/University	127	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12581
Lighting	15W or Less	Medical	245	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	870
Lighting	15W or Less	Medical	245	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10902
Lighting	15W or Less	Medical	245	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12582
Lighting	15W or Less	Office	98	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1099
Lighting	15W or Less	Office	98	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10903
Lighting	15W or Less	Office	98	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12583
Lighting	15W or Less	School	69	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1160
Lighting	15W or Less	School	69	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10904
Lighting	15W or Less	School	69	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12584
Lighting	16" x 18" Pedestrian Combo	College/University	1042	N	NA	LED Traffic signal modules	none	Module	NA	1499
Lighting	16" x 18" Pedestrian Combo	College/University	1042	N	NA	LED Traffic signal modules	none	Module	NA	11213
Lighting	16" x 18" Pedestrian Combo	College/University	1042	N	NA	LED Traffic signal modules	none	Module	NA	12893
Lighting	16" x 18" Pedestrian Combo	Medical	1042	N	NA	LED Traffic signal modules	none	Module	NA	1500
Lighting	16" x 18" Pedestrian Combo	Medical	1042	N	NA	LED Traffic signal modules	none	Module	NA	11214
Lighting	16" x 18" Pedestrian Combo	Medical	1042	N	NA	LED Traffic signal modules	none	Module	NA	12894
Lighting	16" x 18" Pedestrian Combo	Office	1042	N	NA	LED Traffic signal modules	none	Module	NA	1501
Lighting	16" x 18" Pedestrian Combo	Office	1042	N	NA	LED Traffic signal modules	none	Module	NA	11215
Lighting	16" x 18" Pedestrian Combo	Office	1042	N	NA	LED Traffic signal modules	none	Module	NA	12895
Lighting	16" x 18" Pedestrian Combo	School	1042	N	NA	LED Traffic signal modules	none	Module	NA	1502
Lighting	16" x 18" Pedestrian Combo	School	1042	N	NA	LED Traffic signal modules	none	Module	NA	11216
Lighting	16" x 18" Pedestrian Combo	School	1042	N	NA	LED Traffic signal modules	none	Module	NA	12896
Lighting	16W - 26W	College/University	235	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	810
Lighting	16W - 26W	College/University	235	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10910

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Lighting	16W - 26W	College/University	235	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12590
Lighting	16W - 26W	Medical	455	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	869
Lighting	16W - 26W	Medical	455	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10911
Lighting	16W - 26W	Medical	455	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12591
Lighting	16W - 26W	Office	182	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1100
Lighting	16W - 26W	Office	182	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10912
Lighting	16W - 26W	Office	182	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12592
Lighting	16W - 26W	School	128	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1159
Lighting	16W - 26W	School	128	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10913
Lighting	16W - 26W	School	128	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12593
Lighting	27W or Greater	College/University	299	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	811
Lighting	27W or Greater	College/University	299	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10914
Lighting	27W or Greater	College/University	299	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12594
Lighting	27W or Greater	Medical	579	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	868
Lighting	27W or Greater	Medical	579	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10915
Lighting	27W or Greater	Medical	579	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12595
Lighting	27W or Greater	Office	232	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1101
Lighting	27W or Greater	Office	232	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10916
Lighting	27W or Greater	Office	232	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12596
Lighting	27W or Greater	School	163	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	1158
Lighting	27W or Greater	School	163	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	10917
Lighting	27W or Greater	School	163	Y	PY1 Value	Compact Fluorescent Lamps (Screw In)	none	Lamp	NA	12597
Lighting	29W or Less	College/University	225	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	812
Lighting	29W or Less	College/University	225	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10923
Lighting	29W or Less	College/University	225	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12603
Lighting	29W or Less	Medical	435.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	867
Lighting	29W or Less	Medical	435.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10924
Lighting	29W or Less	Medical	435.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12604
Lighting	29W or Less	Office	174.5	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	1102
Lighting	29W or Less	Office	174.5	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10925
Lighting	29W or Less	Office	174.5	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12605
Lighting	29W or Less	School	122.8	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	1157
Lighting	29W or Less	School	122.8	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10926
Lighting	29W or Less	School	122.8	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12606
Lighting	2-foot Lamp and Ballast	College/University	41.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	823
Lighting	2-foot Lamp and Ballast	College/University	41.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11022
Lighting	2-foot Lamp and Ballast	College/University	41.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12702
Lighting	2-foot Lamp and Ballast	Medical	80.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	856
Lighting	2-foot Lamp and Ballast	Medical	80.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11023
Lighting	2-foot Lamp and Ballast	Medical	80.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12703
Lighting	2-foot Lamp and Ballast	Office	34.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1113
Lighting	2-foot Lamp and Ballast	Office	34.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11024
Lighting	2-foot Lamp and Ballast	Office	34.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12704

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Lighting	2-foot Lamp and Ballast	School	22.6	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1146
Lighting	2-foot Lamp and Ballast	School	22.6	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11025
Lighting	2-foot Lamp and Ballast	School	22.6	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12705
Lighting	30W or Greater	College/University	446.1	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	813
Lighting	30W or Greater	College/University	446.1	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10932
Lighting	30W or Greater	College/University	446.1	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12612
Lighting	30W or Greater	Medical	863.2	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	866
Lighting	30W or Greater	Medical	863.2	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10933
Lighting	30W or Greater	Medical	863.2	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12613
Lighting	30W or Greater	Office	345.9	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	1103
Lighting	30W or Greater	Office	345.9	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10934
Lighting	30W or Greater	Office	345.9	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12614
Lighting	30W or Greater	School	243.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	1156
Lighting	30W or Greater	School	243.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	10935
Lighting	30W or Greater	School	243.4	Y		Hardwired Compact Fluorescent Fixture	none	Fixture	NA	12615
Lighting	3-foot Lamp and Ballast	College/University	56	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	824
Lighting	3-foot Lamp and Ballast	College/University	56	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11031
Lighting	3-foot Lamp and Ballast	College/University	56	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12711
Lighting	3-foot Lamp and Ballast	Medical	108	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	855
Lighting	3-foot Lamp and Ballast	Medical	108	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11032
Lighting	3-foot Lamp and Ballast	Medical	108	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12712
Lighting	3-foot Lamp and Ballast	Office	47	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1114
Lighting	3-foot Lamp and Ballast	Office	47	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11033
Lighting	3-foot Lamp and Ballast	Office	47	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12713
Lighting	3-foot Lamp and Ballast	School	31	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1145
Lighting	3-foot Lamp and Ballast	School	31	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11034
Lighting	3-foot Lamp and Ballast	School	31	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12714
Lighting	4-foot Lamp and Ballast	College/University	49.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	818
Lighting	4-foot Lamp and Ballast	College/University	49.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	10977
Lighting	4-foot Lamp and Ballast	College/University	49.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	12657
Lighting	4-foot Lamp and Ballast	Medical	96.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	861
Lighting	4-foot Lamp and Ballast	Medical	96.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	10978
Lighting	4-foot Lamp and Ballast	Medical	96.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	12658
Lighting	4-foot Lamp and Ballast	Office	41.4	Y		High Performance or reduced wattage 4	none	Lamp	NA	1108
Lighting	4-foot Lamp and Ballast	Office	41.4	Y		High Performance or reduced wattage 4	none	Lamp	NA	10979
Lighting	4-foot Lamp and Ballast	Office	41.4	Y		High Performance or reduced wattage 4	none	Lamp	NA	12659
Lighting	4-foot Lamp and Ballast	School	27.2	Y		High Performance or reduced wattage 4	none	Lamp	NA	1151
Lighting	4-foot Lamp and Ballast	School	27.2	Y		High Performance or reduced wattage 4	none	Lamp	NA	10980
Lighting	4-foot Lamp and Ballast	School	27.2	Y		High Performance or reduced wattage 4	none	Lamp	NA	12660
Lighting	4-foot Lamp only	College/University	23.1	Y		High Performance or reduced wattage 4	none	Lamp	NA	819
Lighting	4-foot Lamp only	College/University	23.1	Y		High Performance or reduced wattage 4	none	Lamp	NA	10986
Lighting	4-foot Lamp only	College/University	23.1	Y		High Performance or reduced wattage 4	none	Lamp	NA	12666
Lighting	4-foot Lamp only	Medical	44.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	860

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Lighting	4-foot Lamp only	Medical	44.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	10987
Lighting	4-foot Lamp only	Medical	44.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	12667
Lighting	4-foot Lamp only	Office	19.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	1109
Lighting	4-foot Lamp only	Office	19.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	10988
Lighting	4-foot Lamp only	Office	19.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	12668
Lighting	4-foot Lamp only	School	12.6	Y		High Performance or reduced wattage 4	none	Lamp	NA	1150
Lighting	4-foot Lamp only	School	12.6	Y		High Performance or reduced wattage 4	none	Lamp	NA	10989
Lighting	4-foot Lamp only	School	12.6	Y		High Performance or reduced wattage 4	none	Lamp	NA	12669
Lighting	4-foot U-Tube and Ballast	College/University	36.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	822
Lighting	4-foot U-Tube and Ballast	College/University	36.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11013
Lighting	4-foot U-Tube and Ballast	College/University	36.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12693
Lighting	4-foot U-Tube and Ballast	Medical	70.7	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	857
Lighting	4-foot U-Tube and Ballast	Medical	70.7	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11014
Lighting	4-foot U-Tube and Ballast	Medical	70.7	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12694
Lighting	4-foot U-Tube and Ballast	Office	30.4	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1112
Lighting	4-foot U-Tube and Ballast	Office	30.4	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11015
Lighting	4-foot U-Tube and Ballast	Office	30.4	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12695
Lighting	4-foot U-Tube and Ballast	School	19.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	1147
Lighting	4-foot U-Tube and Ballast	School	19.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	11016
Lighting	4-foot U-Tube and Ballast	School	19.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	12696
Lighting	8 " Arrow LED Module	College/University	508.1	N	NA	LED Traffic signal modules	none	Module	NA	1463
Lighting	8 " Arrow LED Module	College/University	508.1	N	NA	LED Traffic signal modules	none	Module	NA	11177
Lighting	8 " Arrow LED Module	College/University	508.1	N	NA	LED Traffic signal modules	none	Module	NA	12857
Lighting	8 " Arrow LED Module	Medical	508.1	N	NA	LED Traffic signal modules	none	Module	NA	1464
Lighting	8 " Arrow LED Module	Medical	508.1	N	NA	LED Traffic signal modules	none	Module	NA	11178
Lighting	8 " Arrow LED Module	Medical	508.1	N	NA	LED Traffic signal modules	none	Module	NA	12858
Lighting	8 " Arrow LED Module	Office	508.1	N	NA	LED Traffic signal modules	none	Module	NA	1465
Lighting	8 " Arrow LED Module	Office	508.1	N	NA	LED Traffic signal modules	none	Module	NA	11179
Lighting	8 " Arrow LED Module	Office	508.1	N	NA	LED Traffic signal modules	none	Module	NA	12859
Lighting	8 " Arrow LED Module	School	508.1	N	NA	LED Traffic signal modules	none	Module	NA	1466
Lighting	8 " Arrow LED Module	School	508.1	N	NA	LED Traffic signal modules	none	Module	NA	11180
Lighting	8 " Arrow LED Module	School	508.1	N	NA	LED Traffic signal modules	none	Module	NA	12860
Lighting	8 " Traffic LED Signal Head	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1445
Lighting	8 " Traffic LED Signal Head	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11159
Lighting	8 " Traffic LED Signal Head	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12839
Lighting	8 " Traffic LED Signal Head	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1446
Lighting	8 " Traffic LED Signal Head	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11160
Lighting	8 " Traffic LED Signal Head	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12840
Lighting	8 " Traffic LED Signal Head	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1447
Lighting	8 " Traffic LED Signal Head	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11161
Lighting	8 " Traffic LED Signal Head	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12841
Lighting	8 " Traffic LED Signal Head	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1448
Lighting	8 " Traffic LED Signal Head	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11162

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Lighting	8 " Traffic LED Signal Head	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12842
Lighting	8-9 " Pedestrian LED Module	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1481
Lighting	8-9 " Pedestrian LED Module	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11195
Lighting	8-9 " Pedestrian LED Module	College/University	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12875
Lighting	8-9 " Pedestrian LED Module	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1482
Lighting	8-9 " Pedestrian LED Module	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11196
Lighting	8-9 " Pedestrian LED Module	Medical	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12876
Lighting	8-9 " Pedestrian LED Module	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1483
Lighting	8-9 " Pedestrian LED Module	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11197
Lighting	8-9 " Pedestrian LED Module	Office	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12877
Lighting	8-9 " Pedestrian LED Module	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	1484
Lighting	8-9 " Pedestrian LED Module	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	11198
Lighting	8-9 " Pedestrian LED Module	School	481.8	N	NA	LED Traffic signal modules	none	Module	NA	12878
Lighting	8-foot Lamp and Ballast	College/University	63.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	820
Lighting	8-foot Lamp and Ballast	College/University	63.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	10995
Lighting	8-foot Lamp and Ballast	College/University	63.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12675
Lighting	8-foot Lamp and Ballast	Medical	122.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	859
Lighting	8-foot Lamp and Ballast	Medical	122.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	10996
Lighting	8-foot Lamp and Ballast	Medical	122.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12676
Lighting	8-foot Lamp and Ballast	Office	52.6	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	1110
Lighting	8-foot Lamp and Ballast	Office	52.6	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	10997
Lighting	8-foot Lamp and Ballast	Office	52.6	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12677
Lighting	8-foot Lamp and Ballast	School	34.5	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	1149
Lighting	8-foot Lamp and Ballast	School	34.5	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	10998
Lighting	8-foot Lamp and Ballast	School	34.5	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12678
Lighting	8-foot Lamp Only	College/University	20	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	821
Lighting	8-foot Lamp Only	College/University	20	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	11004
Lighting	8-foot Lamp Only	College/University	20	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12684
Lighting	8-foot Lamp Only	Medical	38	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	858
Lighting	8-foot Lamp Only	Medical	38	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	11005
Lighting	8-foot Lamp Only	Medical	38	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12685
Lighting	8-foot Lamp Only	Office	16	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	1111
Lighting	8-foot Lamp Only	Office	16	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	11006
Lighting	8-foot Lamp Only	Office	16	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12686
Lighting	8-foot Lamp Only	School	11	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	1148
Lighting	8-foot Lamp Only	School	11	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	11007
Lighting	8-foot Lamp Only	School	11	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	12687
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	College/University	340	Y	correct to 341.6	Controls	none	Fixture	NA	838
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	College/University	340	Y	correct to 341.7	Controls	none	Fixture	NA	11141
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	College/University	340	Y	correct to 341.8	Controls	none	Fixture	NA	12821

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Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Medical	340	Y	correct to 341.9	Controls	none	Fixture	NA	841
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Medical	340	Y	correct to 341.10	Controls	none	Fixture	NA	11142
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Medical	340	Y	correct to 341.11	Controls	none	Fixture	NA	12822
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Office	340	Y	correct to 341.12	Controls	none	Fixture	NA	1128
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Office	340	Y	correct to 341.13	Controls	none	Fixture	NA	11143
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	Office	340	Y	correct to 341.14	Controls	none	Fixture	NA	12823
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	School	340	Y	correct to 341.15	Controls	none	Fixture	NA	1131
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	School	340	Y	correct to 341.16	Controls	none	Fixture	NA	11144
Lighting	Bi-Level Stairwell/Hall/Garage Fixtures w/Integrated sensors	School	340	Y	correct to 341.17	Controls	none	Fixture	NA	12824
Lighting	Cold Cathode	College/University	88.2	Y		Cold Cathode	none	Lamp	NA	14376
Lighting	Cold Cathode	Medical	170.6	Y		Cold Cathode	none	Lamp	NA	14377
Lighting	Cold Cathode	Office	68.4	Y		Cold Cathode	none	Lamp	NA	14378
Lighting	Cold Cathode	School	48.1	Y		Cold Cathode	none	Lamp	NA	14379
Lighting	IEN - 2-foot Lamp and Ballast	College/University	41.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14324
Lighting	IEN - 2-foot Lamp and Ballast	Medical	80.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14325
Lighting	IEN - 2-foot Lamp and Ballast	Office	34.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14326
Lighting	IEN - 2-foot Lamp and Ballast	School	22.6	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14327
Lighting	IEN - 3-foot Lamp and Ballast	College/University	56	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14333
Lighting	IEN - 3-foot Lamp and Ballast	Medical	108	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14334
Lighting	IEN - 3-foot Lamp and Ballast	Office	47	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14335
Lighting	IEN - 3-foot Lamp and Ballast	School	31	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14336
Lighting	IEN - 4-foot lamp and Ballast	College/University	49.8	Y		High Performance or reduced wattage 4	none	Lamp	NA	14297
Lighting	IEN - 4-foot lamp and Ballast	Medical	96.3	Y		High Performance or reduced wattage 4	none	Lamp	NA	14298
Lighting	IEN - 4-foot lamp and Ballast	Office	41.4	Y		High Performance or reduced wattage 4	none	Lamp	NA	14299
Lighting	IEN - 4-foot lamp and Ballast	School	27.2	Y		High Performance or reduced wattage 4	none	Lamp	NA	14300
Lighting	IEN - 4-foot U-Tube and Ballast	College/University	36.5	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14315
Lighting	IEN - 4-foot U-Tube and Ballast	Medical	70.7	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14316
Lighting	IEN - 4-foot U-Tube and Ballast	Office	30.4	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14317
Lighting	IEN - 4-foot U-Tube and Ballast	School	19.2	Y		Specialty T8 Lamps and Ballasts	none	Lamp	NA	14318
Lighting	IEN - 8-foot Lamp and Ballast	College/University	63.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	14306
Lighting	IEN - 8-foot Lamp and Ballast	Medical	122.2	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	14307
Lighting	IEN - 8-foot Lamp and Ballast	Office	52.6	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	14308
Lighting	IEN - 8-foot Lamp and Ballast	School	34.5	Y		Reduced Wattage 8 foot T8	none	Lamp	NA	14309

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Lighting	IEN - Delamp, 4-foot lamp, add reflector	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14279
Lighting	IEN - Delamp, 4-foot lamp, add reflector	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14280
Lighting	IEN - Delamp, 4-foot lamp, add reflector	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14281
Lighting	IEN - Delamp, 4-foot lamp, add reflector	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14282
Lighting	IEN - Delamp, 4-foot lamp, Ballast, Holders	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14261
Lighting	IEN - Delamp, 4-foot lamp, Ballast, Holders	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14262
Lighting	IEN - Delamp, 4-foot lamp, Ballast, Holders	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14263
Lighting	IEN - Delamp, 4-foot lamp, Ballast, Holders	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14264
Lighting	IEN - Delamp, 8-foot lamp, add reflector	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14288
Lighting	IEN - Delamp, 8-foot lamp, add reflector	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14289
Lighting	IEN - Delamp, 8-foot lamp, add reflector	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14290
Lighting	IEN - Delamp, 8-foot lamp, add reflector	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14291
Lighting	IEN - Delamp, 8-foot lamp, Ballast, Holders	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14270
Lighting	IEN - Delamp, 8-foot lamp, Ballast, Holders	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14271
Lighting	IEN - Delamp, 8-foot lamp, Ballast, Holders	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14272
Lighting	IEN - Delamp, 8-foot lamp, Ballast, Holders	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	14273
Lighting	IEN - Total Existing Watts less Total New Fixture Watts	College/University	3.948	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	14342
Lighting	IEN - Total Existing Watts less Total New Fixture Watts	Medical	5.633	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	14343
Lighting	IEN - Total Existing Watts less Total New Fixture Watts	Office	3.285	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	14344
Lighting	IEN - Total Existing Watts less Total New Fixture Watts	School	2.154	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	14345
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	College/University	196.4	Y		Metal Halide	none	Fixture	NA	1401

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Lighting	Integrated Ballast Ceramic Metal Halide Lamps	College/University	196.4	Y		Metal Halide	none	Fixture	NA	11078
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	College/University	196.4	Y		Metal Halide	none	Fixture	NA	12758
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Medical	380.1	Y		Metal Halide	none	Fixture	NA	1402
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Medical	380.1	Y		Metal Halide	none	Fixture	NA	11079
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Medical	380.1	Y		Metal Halide	none	Fixture	NA	12759
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Office	152.3	Y		Metal Halide	none	Fixture	NA	1403
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Office	152.3	Y		Metal Halide	none	Fixture	NA	11080
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	Office	152.3	Y		Metal Halide	none	Fixture	NA	12760
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	School	107.2	Y		Metal Halide	none	Fixture	NA	1404
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	School	107.2	Y		Metal Halide	none	Fixture	NA	11081
Lighting	Integrated Ballast Ceramic Metal Halide Lamps	School	107.2	Y		Metal Halide	none	Fixture	NA	12761
Lighting	Interior Induction Fixture	College/University	271.2	Y		Induction Lighting	none	Fixture	NA	835
Lighting	Interior Induction Fixture	College/University	271.2	Y		Induction Lighting	none	Fixture	NA	11114
Lighting	Interior Induction Fixture	College/University	271.2	Y		Induction Lighting	none	Fixture	NA	12794
Lighting	Interior Induction Fixture	Medical	524.8	Y		Induction Lighting	none	Fixture	NA	844
Lighting	Interior Induction Fixture	Medical	524.8	Y		Induction Lighting	none	Fixture	NA	11115
Lighting	Interior Induction Fixture	Medical	524.8	Y		Induction Lighting	none	Fixture	NA	12795
Lighting	Interior Induction Fixture	Office	225.7	Y		Induction Lighting	none	Fixture	NA	1125
Lighting	Interior Induction Fixture	Office	225.7	Y		Induction Lighting	none	Fixture	NA	11116
Lighting	Interior Induction Fixture	Office	225.7	Y		Induction Lighting	none	Fixture	NA	12796
Lighting	Interior Induction Fixture	School	148	Y		Induction Lighting	none	Fixture	NA	1134
Lighting	Interior Induction Fixture	School	148	Y		Induction Lighting	none	Fixture	NA	11117
Lighting	Interior Induction Fixture	School	148	Y		Induction Lighting	none	Fixture	NA	12797
Lighting	LED Channel Sign < 2 feet Exterior	College/University	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	830
Lighting	LED Channel Sign < 2 feet Exterior	College/University	93	Y		LED Lighting	none	Letter	NA	11070
Lighting	LED Channel Sign < 2 feet Exterior	College/University	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12750
Lighting	LED Channel Sign < 2 feet Exterior	Medical	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	849

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Lighting	LED Channel Sign < 2 feet Exterior	Medical	93	Y		LED Lighting	none	Letter	NA	11071
Lighting	LED Channel Sign < 2 feet Exterior	Medical	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12751
Lighting	LED Channel Sign < 2 feet Exterior	Office	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1120
Lighting	LED Channel Sign < 2 feet Exterior	Office	93	Y		LED Lighting	none	Letter	NA	11072
Lighting	LED Channel Sign < 2 feet Exterior	Office	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12752
Lighting	LED Channel Sign < 2 feet Exterior	School	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1139
Lighting	LED Channel Sign < 2 feet Exterior	School	93	Y		LED Lighting	none	Letter	NA	11073
Lighting	LED Channel Sign < 2 feet Exterior	School	93	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12753
Lighting	LED Channel Sign < 2 feet Interior	College/University	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	828
Lighting	LED Channel Sign < 2 feet Interior	College/University	378	N	147	LED Lighting	none	Letter	NA	11062
Lighting	LED Channel Sign < 2 feet Interior	College/University	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12742
Lighting	LED Channel Sign < 2 feet Interior	Medical	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	851
Lighting	LED Channel Sign < 2 feet Interior	Medical	378	N	147	LED Lighting	none	Letter	NA	11063
Lighting	LED Channel Sign < 2 feet Interior	Medical	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12743
Lighting	LED Channel Sign < 2 feet Interior	Office	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1118
Lighting	LED Channel Sign < 2 feet Interior	Office	378	N	147	LED Lighting	none	Letter	NA	11064
Lighting	LED Channel Sign < 2 feet Interior	Office	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12744
Lighting	LED Channel Sign < 2 feet Interior	School	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1141
Lighting	LED Channel Sign < 2 feet Interior	School	378	N	147	LED Lighting	none	Letter	NA	11065
Lighting	LED Channel Sign < 2 feet Interior	School	378	N	147	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12745
Lighting	LED Channel Sign > 2 feet Exterior	College/University	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	831
Lighting	LED Channel Sign > 2 feet Exterior	College/University	237	Y		LED Lighting	none	Letter	NA	11074
Lighting	LED Channel Sign > 2 feet Exterior	College/University	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12754
Lighting	LED Channel Sign > 2 feet Exterior	Medical	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	848
Lighting	LED Channel Sign > 2 feet Exterior	Medical	237	Y		LED Lighting	none	Letter	NA	11075
Lighting	LED Channel Sign > 2 feet Exterior	Medical	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12755
Lighting	LED Channel Sign > 2 feet Exterior	Office	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1121

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Lighting	LED Channel Sign > 2 feet Exterior	Office	237	Y		LED Lighting	none	Letter	NA	11076
Lighting	LED Channel Sign > 2 feet Exterior	Office	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12756
Lighting	LED Channel Sign > 2 feet Exterior	School	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1138
Lighting	LED Channel Sign > 2 feet Exterior	School	237	Y		LED Lighting	none	Letter	NA	11077
Lighting	LED Channel Sign > 2 feet Exterior	School	237	Y		Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12757
Lighting	LED Channel Sign > 2 feet Interior	College/University	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	829
Lighting	LED Channel Sign > 2 feet Interior	College/University	147	N	378	LED Lighting	none	Letter	NA	11066
Lighting	LED Channel Sign > 2 feet Interior	College/University	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12746
Lighting	LED Channel Sign > 2 feet Interior	Medical	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	850
Lighting	LED Channel Sign > 2 feet Interior	Medical	147	N	378	LED Lighting	none	Letter	NA	11067
Lighting	LED Channel Sign > 2 feet Interior	Medical	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12747
Lighting	LED Channel Sign > 2 feet Interior	Office	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1119
Lighting	LED Channel Sign > 2 feet Interior	Office	147	N	378	LED Lighting	none	Letter	NA	11068
Lighting	LED Channel Sign > 2 feet Interior	Office	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12748
Lighting	LED Channel Sign > 2 feet Interior	School	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	1140
Lighting	LED Channel Sign > 2 feet Interior	School	147	N	378	LED Lighting	none	Letter	NA	11069
Lighting	LED Channel Sign > 2 feet Interior	School	147	N	378	Compact Fluorescent Lamps (Screw In)	none	Letter	NA	12749
Lighting	LED Lamp/Fixture	College/University	131.3	Y		LED Lighting	none	Lamp	NA	826
Lighting	LED Lamp/Fixture	College/University	131.3	Y		LED Lighting	none	Lamp	NA	11049
Lighting	LED Lamp/Fixture	College/University	131.3	Y		LED Lighting	none	Lamp	NA	12729
Lighting	LED Lamp/Fixture	Medical	254	Y		LED Lighting	none	Lamp	NA	853
Lighting	LED Lamp/Fixture	Medical	254	Y		LED Lighting	none	Lamp	NA	11050
Lighting	LED Lamp/Fixture	Medical	254	Y		LED Lighting	none	Lamp	NA	12730
Lighting	LED Lamp/Fixture	Office	101.8	Y		LED Lighting	none	Lamp	NA	1116
Lighting	LED Lamp/Fixture	Office	101.8	Y		LED Lighting	none	Lamp	NA	11051
Lighting	LED Lamp/Fixture	Office	101.8	Y		LED Lighting	none	Lamp	NA	12731
Lighting	LED Lamp/Fixture	School	71.6	Y		LED Lighting	none	Lamp	NA	1143
Lighting	LED Lamp/Fixture	School	71.6	Y		LED Lighting	none	Lamp	NA	11052
Lighting	LED Lamp/Fixture	School	71.6	Y		LED Lighting	none	Lamp	NA	12732
Lighting	LED Open Sign	College/University	624	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	827
Lighting	LED Open Sign	College/University	624	Y		LED Lighting	none	Fixture	NA	11058
Lighting	LED Open Sign	College/University	624	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	12738
Lighting	LED Open Sign	Medical	1207	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	852
Lighting	LED Open Sign	Medical	1207	Y		LED Lighting	none	Fixture	NA	11059
Lighting	LED Open Sign	Medical	1207	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	12739
Lighting	LED Open Sign	Office	519	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	1117
Lighting	LED Open Sign	Office	519	Y		LED Lighting	none	Fixture	NA	11060
Lighting	LED Open Sign	Office	519	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	12740

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Lighting	LED Open Sign	School	340	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	1142
Lighting	LED Open Sign	School	340	Y		LED Lighting	none	Fixture	NA	11061
Lighting	LED Open Sign	School	340	Y		Compact Fluorescent Lamps (Screw In)	none	Fixture	NA	12741
Lighting	LED T-1 Electroluminescent Exit Signs	College/University	286.1	Y		LED Lighting	none	Signs	NA	825
Lighting	LED T-1 Electroluminescent Exit Signs	College/University	286.1	Y		LED Lighting	none	Signs	NA	11040
Lighting	LED T-1 Electroluminescent Exit Signs	College/University	286.1	Y		LED Lighting	none	Signs	NA	12720
Lighting	LED T-1 Electroluminescent Exit Signs	Medical	293.6	Y		LED Lighting	none	Signs	NA	854
Lighting	LED T-1 Electroluminescent Exit Signs	Medical	293.6	Y		LED Lighting	none	Signs	NA	11041
Lighting	LED T-1 Electroluminescent Exit Signs	Medical	293.6	Y		LED Lighting	none	Signs	NA	12721
Lighting	LED T-1 Electroluminescent Exit Signs	Office	291.1	Y		LED Lighting	none	Signs	NA	1115
Lighting	LED T-1 Electroluminescent Exit Signs	Office	291.1	Y		LED Lighting	none	Signs	NA	11042
Lighting	LED T-1 Electroluminescent Exit Signs	Office	291.1	Y		LED Lighting	none	Signs	NA	12722
Lighting	LED T-1 Electroluminescent Exit Signs	School	286.1	Y		LED Lighting	none	Signs	NA	1144
Lighting	LED T-1 Electroluminescent Exit Signs	School	286.1	Y		LED Lighting	none	Signs	NA	11043
Lighting	LED T-1 Electroluminescent Exit Signs	School	286.1	Y		LED Lighting	none	Signs	NA	12723
Lighting	Occupancy Sensors	College/University	0.789	Y		Controls	none	Connected Watts (	NA	836
Lighting	Occupancy Sensors	College/University	0.789	Y		Controls	none	Connected Watts (	NA	11123
Lighting	Occupancy Sensors	College/University	0.789	Y		Controls	none	Connected Watts (	NA	12803
Lighting	Occupancy Sensors	Medical	1.528	Y		Controls	none	Connected Watts (	NA	843
Lighting	Occupancy Sensors	Medical	1.528	Y		Controls	none	Connected Watts (	NA	11124
Lighting	Occupancy Sensors	Medical	1.528	Y		Controls	none	Connected Watts (	NA	12804
Lighting	Occupancy Sensors	Office	0.657	Y		Controls	none	Connected Watts (	NA	1126
Lighting	Occupancy Sensors	Office	0.657	Y		Controls	none	Connected Watts (	NA	11125
Lighting	Occupancy Sensors	Office	0.657	Y		Controls	none	Connected Watts (	NA	12805
Lighting	Occupancy Sensors	School	0.431	Y		Controls	none	Connected Watts (	NA	1133
Lighting	Occupancy Sensors	School	0.431	Y		Controls	none	Connected Watts (	NA	11126
Lighting	Occupancy Sensors	School	0.431	Y		Controls	none	Connected Watts (	NA	12806
Lighting	Plug Load Occupancy Sensors	College/University	258	Y		Controls	none	Sensor	NA	837
Lighting	Plug Load Occupancy Sensors	College/University	258	Y		Controls	none	Sensor	NA	11132
Lighting	Plug Load Occupancy Sensors	College/University	258	Y		Controls	none	Sensor	NA	12812
Lighting	Plug Load Occupancy Sensors	Medical	258	Y		Controls	none	Sensor	NA	842

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Lighting	Plug Load Occupancy Sensors	Medical	258	Y		Controls	none	Sensor	NA	11133
Lighting	Plug Load Occupancy Sensors	Medical	258	Y		Controls	none	Sensor	NA	12813
Lighting	Plug Load Occupancy Sensors	Office	258	Y		Controls	none	Sensor	NA	1127
Lighting	Plug Load Occupancy Sensors	Office	258	Y		Controls	none	Sensor	NA	11134
Lighting	Plug Load Occupancy Sensors	Office	258	Y		Controls	none	Sensor	NA	12814
Lighting	Plug Load Occupancy Sensors	School	258	Y		Controls	none	Sensor	NA	1132
Lighting	Plug Load Occupancy Sensors	School	258	Y		Controls	none	Sensor	NA	11135
Lighting	Plug Load Occupancy Sensors	School	258	Y		Controls	none	Sensor	NA	12815
Lighting	Pulse Start or Ceramic, 100W or Less	College/University	190.8	Y		Metal Halide	none	Fixture	NA	832
Lighting	Pulse Start or Ceramic, 100W or Less	College/University	190.8	Y		Metal Halide	none	Fixture	NA	11087
Lighting	Pulse Start or Ceramic, 100W or Less	College/University	190.8	Y		Metal Halide	none	Fixture	NA	12767
Lighting	Pulse Start or Ceramic, 100W or Less	Medical	369.2	Y		Metal Halide	none	Fixture	NA	847
Lighting	Pulse Start or Ceramic, 100W or Less	Medical	369.2	Y		Metal Halide	none	Fixture	NA	11088
Lighting	Pulse Start or Ceramic, 100W or Less	Medical	369.2	Y		Metal Halide	none	Fixture	NA	12768
Lighting	Pulse Start or Ceramic, 100W or Less	Office	158.8	Y		Metal Halide	none	Fixture	NA	1122
Lighting	Pulse Start or Ceramic, 100W or Less	Office	158.8	Y		Metal Halide	none	Fixture	NA	11089
Lighting	Pulse Start or Ceramic, 100W or Less	Office	158.8	Y		Metal Halide	none	Fixture	NA	12769
Lighting	Pulse Start or Ceramic, 100W or Less	School	104.1	Y		Metal Halide	none	Fixture	NA	1137
Lighting	Pulse Start or Ceramic, 100W or Less	School	104.1	Y		Metal Halide	none	Fixture	NA	11090
Lighting	Pulse Start or Ceramic, 100W or Less	School	104.1	Y		Metal Halide	none	Fixture	NA	12770
Lighting	Pulse Start or Ceramic, 101W - 200W	College/University	256.6	Y		Metal Halide	none	Fixture	NA	833
Lighting	Pulse Start or Ceramic, 101W - 200W	College/University	256.6	Y		Metal Halide	none	Fixture	NA	11096
Lighting	Pulse Start or Ceramic, 101W - 200W	College/University	256.6	Y		Metal Halide	none	Fixture	NA	12776
Lighting	Pulse Start or Ceramic, 101W - 200W	Medical	496.6	Y		Metal Halide	none	Fixture	NA	846
Lighting	Pulse Start or Ceramic, 101W - 200W	Medical	496.6	Y		Metal Halide	none	Fixture	NA	11097

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Lighting	Pulse Start or Ceramic, 101W - 200W	Medical	496.6	Y		Metal Halide	none	Fixture	NA	12777
Lighting	Pulse Start or Ceramic, 101W - 200W	Office	213.5	Y		Metal Halide	none	Fixture	NA	1123
Lighting	Pulse Start or Ceramic, 101W - 200W	Office	213.5	Y		Metal Halide	none	Fixture	NA	11098
Lighting	Pulse Start or Ceramic, 101W - 200W	Office	213.5	Y		Metal Halide	none	Fixture	NA	12778
Lighting	Pulse Start or Ceramic, 101W - 200W	School	140	Y		Metal Halide	none	Fixture	NA	1136
Lighting	Pulse Start or Ceramic, 101W - 200W	School	140	Y		Metal Halide	none	Fixture	NA	11099
Lighting	Pulse Start or Ceramic, 101W - 200W	School	140	Y		Metal Halide	none	Fixture	NA	12779
Lighting	Pulse Start or Ceramic, 201W - 350W	College/University	505.3	Y		Metal Halide	none	Fixture	NA	834
Lighting	Pulse Start or Ceramic, 201W - 350W	College/University	505.3	Y		Metal Halide	none	Fixture	NA	11105
Lighting	Pulse Start or Ceramic, 201W - 350W	College/University	505.3	Y		Metal Halide	none	Fixture	NA	12785
Lighting	Pulse Start or Ceramic, 201W - 350W	Medical	977.8	Y		Metal Halide	none	Fixture	NA	845
Lighting	Pulse Start or Ceramic, 201W - 350W	Medical	977.8	Y		Metal Halide	none	Fixture	NA	11106
Lighting	Pulse Start or Ceramic, 201W - 350W	Medical	977.8	Y		Metal Halide	none	Fixture	NA	12786
Lighting	Pulse Start or Ceramic, 201W - 350W	Office	420.5	Y		Metal Halide	none	Fixture	NA	1124
Lighting	Pulse Start or Ceramic, 201W - 350W	Office	420.5	Y		Metal Halide	none	Fixture	NA	11107
Lighting	Pulse Start or Ceramic, 201W - 350W	Office	420.5	Y		Metal Halide	none	Fixture	NA	12787
Lighting	Pulse Start or Ceramic, 201W - 350W	School	275.7	Y		Metal Halide	none	Fixture	NA	1135
Lighting	Pulse Start or Ceramic, 201W - 350W	School	275.7	Y		Metal Halide	none	Fixture	NA	11108
Lighting	Pulse Start or Ceramic, 201W - 350W	School	275.7	Y		Metal Halide	none	Fixture	NA	12788
Lighting	Remove 4-foot lamp	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	814
Lighting	Remove 4-foot lamp	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10941
Lighting	Remove 4-foot lamp	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12621
Lighting	Remove 4-foot lamp	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	865
Lighting	Remove 4-foot lamp	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10942

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Lighting	Remove 4-foot lamp	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12622
Lighting	Remove 4-foot lamp	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1104
Lighting	Remove 4-foot lamp	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10943
Lighting	Remove 4-foot lamp	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12623
Lighting	Remove 4-foot lamp	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1155
Lighting	Remove 4-foot lamp	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10944
Lighting	Remove 4-foot lamp	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12624
Lighting	Remove 4-foot lamp add reflector	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	816
Lighting	Remove 4-foot lamp add reflector	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10959
Lighting	Remove 4-foot lamp add reflector	College/University	138.2	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12639
Lighting	Remove 4-foot lamp add reflector	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	863
Lighting	Remove 4-foot lamp add reflector	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10960
Lighting	Remove 4-foot lamp add reflector	Medical	267.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12640
Lighting	Remove 4-foot lamp add reflector	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1106
Lighting	Remove 4-foot lamp add reflector	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10961
Lighting	Remove 4-foot lamp add reflector	Office	115	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12641
Lighting	Remove 4-foot lamp add reflector	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1153
Lighting	Remove 4-foot lamp add reflector	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10962
Lighting	Remove 4-foot lamp add reflector	School	75.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12642
Lighting	Remove 8-foot lamp	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	815
Lighting	Remove 8-foot lamp	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10950
Lighting	Remove 8-foot lamp	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12630
Lighting	Remove 8-foot lamp	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	864
Lighting	Remove 8-foot lamp	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10951
Lighting	Remove 8-foot lamp	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12631
Lighting	Remove 8-foot lamp	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1105
Lighting	Remove 8-foot lamp	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10952
Lighting	Remove 8-foot lamp	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12632
Lighting	Remove 8-foot lamp	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1154
Lighting	Remove 8-foot lamp	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10953
Lighting	Remove 8-foot lamp	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12633

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Lighting	Remove 8-foot lamp add reflector	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	817
Lighting	Remove 8-foot lamp add reflector	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10968
Lighting	Remove 8-foot lamp add reflector	College/University	268.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12648
Lighting	Remove 8-foot lamp add reflector	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	862
Lighting	Remove 8-foot lamp add reflector	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10969
Lighting	Remove 8-foot lamp add reflector	Medical	519.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12649
Lighting	Remove 8-foot lamp add reflector	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1107
Lighting	Remove 8-foot lamp add reflector	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10970
Lighting	Remove 8-foot lamp add reflector	Office	223.4	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12650
Lighting	Remove 8-foot lamp add reflector	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	1152
Lighting	Remove 8-foot lamp add reflector	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	10971
Lighting	Remove 8-foot lamp add reflector	School	146.5	Y		Permanent Lamp Removal - Pre-approv	none	Lamp	NA	12651
Lighting	Total Existing Watts less Total New Fixture Watts	College/University	3.948	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	839
Lighting	Total Existing Watts less Total New Fixture Watts	College/University	3.948	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	11150
Lighting	Total Existing Watts less Total New Fixture Watts	College/University	3.948	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	12830
Lighting	Total Existing Watts less Total New Fixture Watts	Medical	5.633	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	840
Lighting	Total Existing Watts less Total New Fixture Watts	Medical	5.633	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	11151
Lighting	Total Existing Watts less Total New Fixture Watts	Medical	5.633	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	12831
Lighting	Total Existing Watts less Total New Fixture Watts	Office	3.285	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	1129
Lighting	Total Existing Watts less Total New Fixture Watts	Office	3.285	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	11152
Lighting	Total Existing Watts less Total New Fixture Watts	Office	3.285	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	12832

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Lighting	Total Existing Watts less Total New Fixture Watts	School	2.154	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	1130
Lighting	Total Existing Watts less Total New Fixture Watts	School	2.154	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	11153
Lighting	Total Existing Watts less Total New Fixture Watts	School	2.154	Y		T8/T5 Highbay Fluorescent Fixtures with	none	Connected Watt R	NA	12833
Motors	1 Horse Power 1200RPM Closed	College/University	58	Y		1 Horse Power	none	Per Motor	NA	700
Motors	1 Horse Power 1200RPM Closed	College/University	58	Y		1 Horse Power	none	Per Motor	NA	11564
Motors	1 Horse Power 1200RPM Closed	College/University	58	Y		1 Horse Power	none	Per Motor	NA	13244
Motors	1 Horse Power 1200RPM Closed	Medical	58	Y		1 Horse Power	none	Per Motor	NA	876
Motors	1 Horse Power 1200RPM Closed	Medical	58	Y		1 Horse Power	none	Per Motor	NA	11565
Motors	1 Horse Power 1200RPM Closed	Medical	58	Y		1 Horse Power	none	Per Motor	NA	13245
Motors	1 Horse Power 1200RPM Closed	Office	58	Y		1 Horse Power	none	Per Motor	NA	990
Motors	1 Horse Power 1200RPM Closed	Office	58	Y		1 Horse Power	none	Per Motor	NA	11566
Motors	1 Horse Power 1200RPM Closed	Office	58	Y		1 Horse Power	none	Per Motor	NA	13246
Motors	1 Horse Power 1200RPM Closed	School	58	Y		1 Horse Power	none	Per Motor	NA	1166
Motors	1 Horse Power 1200RPM Closed	School	58	Y		1 Horse Power	none	Per Motor	NA	11567
Motors	1 Horse Power 1200RPM Closed	School	58	Y		1 Horse Power	none	Per Motor	NA	13247
Motors	1 Horse Power 1200RPM Open	College/University	58	Y		1 Horse Power	none	Per Motor	NA	699
Motors	1 Horse Power 1200RPM Open	College/University	58	Y		1 Horse Power	none	Per Motor	NA	11555
Motors	1 Horse Power 1200RPM Open	College/University	58	Y		1 Horse Power	none	Per Motor	NA	13235
Motors	1 Horse Power 1200RPM Open	Medical	58	Y		1 Horse Power	none	Per Motor	NA	875
Motors	1 Horse Power 1200RPM Open	Medical	58	Y		1 Horse Power	none	Per Motor	NA	11556
Motors	1 Horse Power 1200RPM Open	Medical	58	Y		1 Horse Power	none	Per Motor	NA	13236
Motors	1 Horse Power 1200RPM Open	Office	58	Y		1 Horse Power	none	Per Motor	NA	989
Motors	1 Horse Power 1200RPM Open	Office	58	Y		1 Horse Power	none	Per Motor	NA	11557
Motors	1 Horse Power 1200RPM Open	Office	58	Y		1 Horse Power	none	Per Motor	NA	13237
Motors	1 Horse Power 1200RPM Open	School	58	Y		1 Horse Power	none	Per Motor	NA	1165
Motors	1 Horse Power 1200RPM Open	School	58	Y		1 Horse Power	none	Per Motor	NA	11558
Motors	1 Horse Power 1200RPM Open	School	58	Y		1 Horse Power	none	Per Motor	NA	13238
Motors	1 Horse Power 1800RPM Closed	College/University	65	Y		1 Horse Power	none	Per Motor	NA	698
Motors	1 Horse Power 1800RPM Closed	College/University	65	Y		1 Horse Power	none	Per Motor	NA	11546
Motors	1 Horse Power 1800RPM Closed	College/University	65	Y		1 Horse Power	none	Per Motor	NA	13226
Motors	1 Horse Power 1800RPM Closed	Medical	65	Y		1 Horse Power	none	Per Motor	NA	874
Motors	1 Horse Power 1800RPM Closed	Medical	65	Y		1 Horse Power	none	Per Motor	NA	11547
Motors	1 Horse Power 1800RPM Closed	Medical	65	Y		1 Horse Power	none	Per Motor	NA	13227
Motors	1 Horse Power 1800RPM Closed	Office	65	Y		1 Horse Power	none	Per Motor	NA	988
Motors	1 Horse Power 1800RPM Closed	Office	65	Y		1 Horse Power	none	Per Motor	NA	11548
Motors	1 Horse Power 1800RPM Closed	Office	65	Y		1 Horse Power	none	Per Motor	NA	13228
Motors	1 Horse Power 1800RPM Closed	School	65	Y		1 Horse Power	none	Per Motor	NA	1164
Motors	1 Horse Power 1800RPM Closed	School	65	Y		1 Horse Power	none	Per Motor	NA	11549
Motors	1 Horse Power 1800RPM Closed	School	65	Y		1 Horse Power	none	Per Motor	NA	13229
Motors	1 Horse Power 1800RPM Open	College/University	65	Y		1 Horse Power	none	Per Motor	NA	697

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Motors	1 Horse Power 1800RPM Open	College/University	65	Y		1 Horse Power	none	Per Motor	NA	11537
Motors	1 Horse Power 1800RPM Open	College/University	65	Y		1 Horse Power	none	Per Motor	NA	13217
Motors	1 Horse Power 1800RPM Open	Medical	65	Y		1 Horse Power	none	Per Motor	NA	873
Motors	1 Horse Power 1800RPM Open	Medical	65	Y		1 Horse Power	none	Per Motor	NA	11538
Motors	1 Horse Power 1800RPM Open	Medical	65	Y		1 Horse Power	none	Per Motor	NA	13218
Motors	1 Horse Power 1800RPM Open	Office	65	Y		1 Horse Power	none	Per Motor	NA	987
Motors	1 Horse Power 1800RPM Open	Office	65	Y		1 Horse Power	none	Per Motor	NA	11539
Motors	1 Horse Power 1800RPM Open	Office	65	Y		1 Horse Power	none	Per Motor	NA	13219
Motors	1 Horse Power 1800RPM Open	School	65	Y		1 Horse Power	none	Per Motor	NA	1163
Motors	1 Horse Power 1800RPM Open	School	65	Y		1 Horse Power	none	Per Motor	NA	11540
Motors	1 Horse Power 1800RPM Open	School	65	Y		1 Horse Power	none	Per Motor	NA	13220
Motors	1 Horse Power 3600RPM Closed	College/University	40	Y		1 Horse Power	none	Per Motor	NA	696
Motors	1 Horse Power 3600RPM Closed	College/University	40	Y		1 Horse Power	none	Per Motor	NA	11528
Motors	1 Horse Power 3600RPM Closed	College/University	40	Y		1 Horse Power	none	Per Motor	NA	13208
Motors	1 Horse Power 3600RPM Closed	Medical	40	Y		1 Horse Power	none	Per Motor	NA	872
Motors	1 Horse Power 3600RPM Closed	Medical	40	Y		1 Horse Power	none	Per Motor	NA	11529
Motors	1 Horse Power 3600RPM Closed	Medical	40	Y		1 Horse Power	none	Per Motor	NA	13209
Motors	1 Horse Power 3600RPM Closed	Office	40	Y		1 Horse Power	none	Per Motor	NA	986
Motors	1 Horse Power 3600RPM Closed	Office	40	Y		1 Horse Power	none	Per Motor	NA	11530
Motors	1 Horse Power 3600RPM Closed	Office	40	Y		1 Horse Power	none	Per Motor	NA	13210
Motors	1 Horse Power 3600RPM Closed	School	40	Y		1 Horse Power	none	Per Motor	NA	1162
Motors	1 Horse Power 3600RPM Closed	School	40	Y		1 Horse Power	none	Per Motor	NA	11531
Motors	1 Horse Power 3600RPM Closed	School	40	Y		1 Horse Power	none	Per Motor	NA	13211
Motors	1 Horse Power 3600RPM Open	College/University	40	Y		1 Horse Power	none	Per Motor	NA	695
Motors	1 Horse Power 3600RPM Open	College/University	40	Y		1 Horse Power	none	Per Motor	NA	11519
Motors	1 Horse Power 3600RPM Open	College/University	40	Y		1 Horse Power	none	Per Motor	NA	13199
Motors	1 Horse Power 3600RPM Open	Medical	40	Y		1 Horse Power	none	Per Motor	NA	871
Motors	1 Horse Power 3600RPM Open	Medical	40	Y		1 Horse Power	none	Per Motor	NA	11520
Motors	1 Horse Power 3600RPM Open	Medical	40	Y		1 Horse Power	none	Per Motor	NA	13200
Motors	1 Horse Power 3600RPM Open	Office	40	Y		1 Horse Power	none	Per Motor	NA	985
Motors	1 Horse Power 3600RPM Open	Office	40	Y		1 Horse Power	none	Per Motor	NA	11521
Motors	1 Horse Power 3600RPM Open	Office	40	Y		1 Horse Power	none	Per Motor	NA	13201
Motors	1 Horse Power 3600RPM Open	School	40	Y		1 Horse Power	none	Per Motor	NA	1161
Motors	1 Horse Power 3600RPM Open	School	40	Y		1 Horse Power	none	Per Motor	NA	11522
Motors	1 Horse Power 3600RPM Open	School	40	Y		1 Horse Power	none	Per Motor	NA	13202
Motors	1.5 Horse Power 1200RPM Closed	College/University	62	Y		1.5 Horse Power	none	Per Motor	NA	706
Motors	1.5 Horse Power 1200RPM Closed	College/University	62	Y		1.5 Horse Power	none	Per Motor	NA	11618
Motors	1.5 Horse Power 1200RPM Closed	College/University	62	Y		1.5 Horse Power	none	Per Motor	NA	13298
Motors	1.5 Horse Power 1200RPM Closed	Medical	62	Y		1.5 Horse Power	none	Per Motor	NA	882
Motors	1.5 Horse Power 1200RPM Closed	Medical	62	Y		1.5 Horse Power	none	Per Motor	NA	11619
Motors	1.5 Horse Power 1200RPM Closed	Medical	62	Y		1.5 Horse Power	none	Per Motor	NA	13299
Motors	1.5 Horse Power 1200RPM Closed	Office	62	Y		1.5 Horse Power	none	Per Motor	NA	996
Motors	1.5 Horse Power 1200RPM Closed	Office	62	Y		1.5 Horse Power	none	Per Motor	NA	11620

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Motors	1.5 Horse Power 1200RPM Closed	Office	62	Y		1.5 Horse Power	none	Per Motor	NA	13300
Motors	1.5 Horse Power 1200RPM Closed	School	62	Y		1.5 Horse Power	none	Per Motor	NA	1172
Motors	1.5 Horse Power 1200RPM Closed	School	62	Y		1.5 Horse Power	none	Per Motor	NA	11621
Motors	1.5 Horse Power 1200RPM Closed	School	62	Y		1.5 Horse Power	none	Per Motor	NA	13301
Motors	1.5 Horse Power 1200RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	705
Motors	1.5 Horse Power 1200RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	11609
Motors	1.5 Horse Power 1200RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	13289
Motors	1.5 Horse Power 1200RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	881
Motors	1.5 Horse Power 1200RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	11610
Motors	1.5 Horse Power 1200RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	13290
Motors	1.5 Horse Power 1200RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	995
Motors	1.5 Horse Power 1200RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	11611
Motors	1.5 Horse Power 1200RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	13291
Motors	1.5 Horse Power 1200RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	1171
Motors	1.5 Horse Power 1200RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	11612
Motors	1.5 Horse Power 1200RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	13292
Motors	1.5 Horse Power 1800RPM Closed	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	704
Motors	1.5 Horse Power 1800RPM Closed	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	11600
Motors	1.5 Horse Power 1800RPM Closed	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	13280
Motors	1.5 Horse Power 1800RPM Closed	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	880
Motors	1.5 Horse Power 1800RPM Closed	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	11601
Motors	1.5 Horse Power 1800RPM Closed	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	13281
Motors	1.5 Horse Power 1800RPM Closed	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	994
Motors	1.5 Horse Power 1800RPM Closed	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	11602
Motors	1.5 Horse Power 1800RPM Closed	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	13282
Motors	1.5 Horse Power 1800RPM Closed	School	79	Y		1.5 Horse Power	none	Per Motor	NA	1170
Motors	1.5 Horse Power 1800RPM Closed	School	79	Y		1.5 Horse Power	none	Per Motor	NA	11603
Motors	1.5 Horse Power 1800RPM Closed	School	79	Y		1.5 Horse Power	none	Per Motor	NA	13283
Motors	1.5 Horse Power 1800RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	703
Motors	1.5 Horse Power 1800RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	11591
Motors	1.5 Horse Power 1800RPM Open	College/University	79	Y		1.5 Horse Power	none	Per Motor	NA	13271
Motors	1.5 Horse Power 1800RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	879
Motors	1.5 Horse Power 1800RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	11592
Motors	1.5 Horse Power 1800RPM Open	Medical	79	Y		1.5 Horse Power	none	Per Motor	NA	13272
Motors	1.5 Horse Power 1800RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	993
Motors	1.5 Horse Power 1800RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	11593
Motors	1.5 Horse Power 1800RPM Open	Office	79	Y		1.5 Horse Power	none	Per Motor	NA	13273
Motors	1.5 Horse Power 1800RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	1169
Motors	1.5 Horse Power 1800RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	11594
Motors	1.5 Horse Power 1800RPM Open	School	79	Y		1.5 Horse Power	none	Per Motor	NA	13274
Motors	1.5 Horse Power 3600RPM Closed	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	702
Motors	1.5 Horse Power 3600RPM Closed	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	11582
Motors	1.5 Horse Power 3600RPM Closed	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	13262

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Motors	1.5 Horse Power 3600RPM Closed	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	878
Motors	1.5 Horse Power 3600RPM Closed	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	11583
Motors	1.5 Horse Power 3600RPM Closed	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	13263
Motors	1.5 Horse Power 3600RPM Closed	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	992
Motors	1.5 Horse Power 3600RPM Closed	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	11584
Motors	1.5 Horse Power 3600RPM Closed	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	13264
Motors	1.5 Horse Power 3600RPM Closed	School	50	Y		1.5 Horse Power	none	Per Motor	NA	1168
Motors	1.5 Horse Power 3600RPM Closed	School	50	Y		1.5 Horse Power	none	Per Motor	NA	11585
Motors	1.5 Horse Power 3600RPM Closed	School	50	Y		1.5 Horse Power	none	Per Motor	NA	13265
Motors	1.5 Horse Power 3600RPM Open	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	701
Motors	1.5 Horse Power 3600RPM Open	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	11573
Motors	1.5 Horse Power 3600RPM Open	College/University	50	Y		1.5 Horse Power	none	Per Motor	NA	13253
Motors	1.5 Horse Power 3600RPM Open	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	877
Motors	1.5 Horse Power 3600RPM Open	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	11574
Motors	1.5 Horse Power 3600RPM Open	Medical	50	Y		1.5 Horse Power	none	Per Motor	NA	13254
Motors	1.5 Horse Power 3600RPM Open	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	991
Motors	1.5 Horse Power 3600RPM Open	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	11575
Motors	1.5 Horse Power 3600RPM Open	Office	50	Y		1.5 Horse Power	none	Per Motor	NA	13255
Motors	1.5 Horse Power 3600RPM Open	School	50	Y		1.5 Horse Power	none	Per Motor	NA	1167
Motors	1.5 Horse Power 3600RPM Open	School	50	Y		1.5 Horse Power	none	Per Motor	NA	11576
Motors	1.5 Horse Power 3600RPM Open	School	50	Y		1.5 Horse Power	none	Per Motor	NA	13256
Motors	10 Horse Power 1200RPM Closed	College/University	349	Y		10 Horse Power	none	Per Motor	NA	736
Motors	10 Horse Power 1200RPM Closed	College/University	349	Y		10 Horse Power	none	Per Motor	NA	11888
Motors	10 Horse Power 1200RPM Closed	College/University	349	Y		10 Horse Power	none	Per Motor	NA	13568
Motors	10 Horse Power 1200RPM Closed	Medical	349	Y		10 Horse Power	none	Per Motor	NA	912
Motors	10 Horse Power 1200RPM Closed	Medical	349	Y		10 Horse Power	none	Per Motor	NA	11889
Motors	10 Horse Power 1200RPM Closed	Medical	349	Y		10 Horse Power	none	Per Motor	NA	13569
Motors	10 Horse Power 1200RPM Closed	Office	349	Y		10 Horse Power	none	Per Motor	NA	1026
Motors	10 Horse Power 1200RPM Closed	Office	349	Y		10 Horse Power	none	Per Motor	NA	11890
Motors	10 Horse Power 1200RPM Closed	Office	349	Y		10 Horse Power	none	Per Motor	NA	13570
Motors	10 Horse Power 1200RPM Closed	School	349	Y		10 Horse Power	none	Per Motor	NA	1202
Motors	10 Horse Power 1200RPM Closed	School	349	Y		10 Horse Power	none	Per Motor	NA	11891
Motors	10 Horse Power 1200RPM Closed	School	349	Y		10 Horse Power	none	Per Motor	NA	13571
Motors	10 Horse Power 1200RPM Open	College/University	344	Y		10 Horse Power	none	Per Motor	NA	735
Motors	10 Horse Power 1200RPM Open	College/University	344	Y		10 Horse Power	none	Per Motor	NA	11879
Motors	10 Horse Power 1200RPM Open	College/University	344	Y		10 Horse Power	none	Per Motor	NA	13559
Motors	10 Horse Power 1200RPM Open	Medical	344	Y		10 Horse Power	none	Per Motor	NA	911
Motors	10 Horse Power 1200RPM Open	Medical	344	Y		10 Horse Power	none	Per Motor	NA	11880
Motors	10 Horse Power 1200RPM Open	Medical	344	Y		10 Horse Power	none	Per Motor	NA	13560
Motors	10 Horse Power 1200RPM Open	Office	344	Y		10 Horse Power	none	Per Motor	NA	1025
Motors	10 Horse Power 1200RPM Open	Office	344	Y		10 Horse Power	none	Per Motor	NA	11881
Motors	10 Horse Power 1200RPM Open	Office	344	Y		10 Horse Power	none	Per Motor	NA	13561
Motors	10 Horse Power 1200RPM Open	School	344	Y		10 Horse Power	none	Per Motor	NA	1201

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Motors	10 Horse Power 1200RPM Open	School	344	Y		10 Horse Power	none	Per Motor	NA	11882
Motors	10 Horse Power 1200RPM Open	School	344	Y		10 Horse Power	none	Per Motor	NA	13562
Motors	10 Horse Power 1800RPM Closed	College/University	509	Y		10 Horse Power	none	Per Motor	NA	734
Motors	10 Horse Power 1800RPM Closed	College/University	509	Y		10 Horse Power	none	Per Motor	NA	11870
Motors	10 Horse Power 1800RPM Closed	College/University	509	Y		10 Horse Power	none	Per Motor	NA	13550
Motors	10 Horse Power 1800RPM Closed	Medical	509	Y		10 Horse Power	none	Per Motor	NA	910
Motors	10 Horse Power 1800RPM Closed	Medical	509	Y		10 Horse Power	none	Per Motor	NA	11871
Motors	10 Horse Power 1800RPM Closed	Medical	509	Y		10 Horse Power	none	Per Motor	NA	13551
Motors	10 Horse Power 1800RPM Closed	Office	509	Y		10 Horse Power	none	Per Motor	NA	1024
Motors	10 Horse Power 1800RPM Closed	Office	509	Y		10 Horse Power	none	Per Motor	NA	11872
Motors	10 Horse Power 1800RPM Closed	Office	509	Y		10 Horse Power	none	Per Motor	NA	13552
Motors	10 Horse Power 1800RPM Closed	School	509	Y		10 Horse Power	none	Per Motor	NA	1200
Motors	10 Horse Power 1800RPM Closed	School	509	Y		10 Horse Power	none	Per Motor	NA	11873
Motors	10 Horse Power 1800RPM Closed	School	509	Y		10 Horse Power	none	Per Motor	NA	13553
Motors	10 Horse Power 1800RPM Open	College/University	509	Y		10 Horse Power	none	Per Motor	NA	733
Motors	10 Horse Power 1800RPM Open	College/University	509	Y		10 Horse Power	none	Per Motor	NA	11861
Motors	10 Horse Power 1800RPM Open	College/University	509	Y		10 Horse Power	none	Per Motor	NA	13541
Motors	10 Horse Power 1800RPM Open	Medical	509	Y		10 Horse Power	none	Per Motor	NA	909
Motors	10 Horse Power 1800RPM Open	Medical	509	Y		10 Horse Power	none	Per Motor	NA	11862
Motors	10 Horse Power 1800RPM Open	Medical	509	Y		10 Horse Power	none	Per Motor	NA	13542
Motors	10 Horse Power 1800RPM Open	Office	509	Y		10 Horse Power	none	Per Motor	NA	1023
Motors	10 Horse Power 1800RPM Open	Office	509	Y		10 Horse Power	none	Per Motor	NA	11863
Motors	10 Horse Power 1800RPM Open	Office	509	Y		10 Horse Power	none	Per Motor	NA	13543
Motors	10 Horse Power 1800RPM Open	School	509	Y		10 Horse Power	none	Per Motor	NA	1199
Motors	10 Horse Power 1800RPM Open	School	509	Y		10 Horse Power	none	Per Motor	NA	11864
Motors	10 Horse Power 1800RPM Open	School	509	Y		10 Horse Power	none	Per Motor	NA	13544
Motors	10 Horse Power 3600RPM Closed	College/University	165	Y		10 Horse Power	none	Per Motor	NA	732
Motors	10 Horse Power 3600RPM Closed	College/University	165	Y		10 Horse Power	none	Per Motor	NA	11852
Motors	10 Horse Power 3600RPM Closed	College/University	165	Y		10 Horse Power	none	Per Motor	NA	13532
Motors	10 Horse Power 3600RPM Closed	Medical	165	Y		10 Horse Power	none	Per Motor	NA	908
Motors	10 Horse Power 3600RPM Closed	Medical	165	Y		10 Horse Power	none	Per Motor	NA	11853
Motors	10 Horse Power 3600RPM Closed	Medical	165	Y		10 Horse Power	none	Per Motor	NA	13533
Motors	10 Horse Power 3600RPM Closed	Office	165	Y		10 Horse Power	none	Per Motor	NA	1022
Motors	10 Horse Power 3600RPM Closed	Office	165	Y		10 Horse Power	none	Per Motor	NA	11854
Motors	10 Horse Power 3600RPM Closed	Office	165	Y		10 Horse Power	none	Per Motor	NA	13534
Motors	10 Horse Power 3600RPM Closed	School	165	Y		10 Horse Power	none	Per Motor	NA	1198
Motors	10 Horse Power 3600RPM Closed	School	165	Y		10 Horse Power	none	Per Motor	NA	11855
Motors	10 Horse Power 3600RPM Closed	School	165	Y		10 Horse Power	none	Per Motor	NA	13535
Motors	10 Horse Power 3600RPM Open	College/University	240	Y		10 Horse Power	none	Per Motor	NA	731
Motors	10 Horse Power 3600RPM Open	College/University	240	Y		10 Horse Power	none	Per Motor	NA	11843
Motors	10 Horse Power 3600RPM Open	College/University	240	Y		10 Horse Power	none	Per Motor	NA	13523
Motors	10 Horse Power 3600RPM Open	Medical	240	Y		10 Horse Power	none	Per Motor	NA	907
Motors	10 Horse Power 3600RPM Open	Medical	240	Y		10 Horse Power	none	Per Motor	NA	11844

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	10 Horse Power 3600RPM Open	Medical	240	Y		10 Horse Power	none	Per Motor	NA	13524
Motors	10 Horse Power 3600RPM Open	Office	240	Y		10 Horse Power	none	Per Motor	NA	1021
Motors	10 Horse Power 3600RPM Open	Office	240	Y		10 Horse Power	none	Per Motor	NA	11845
Motors	10 Horse Power 3600RPM Open	Office	240	Y		10 Horse Power	none	Per Motor	NA	13525
Motors	10 Horse Power 3600RPM Open	School	240	Y		10 Horse Power	none	Per Motor	NA	1197
Motors	10 Horse Power 3600RPM Open	School	240	Y		10 Horse Power	none	Per Motor	NA	11846
Motors	10 Horse Power 3600RPM Open	School	240	Y		10 Horse Power	none	Per Motor	NA	13526
Motors	100 Horse Power 1200RPM Closed	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	790
Motors	100 Horse Power 1200RPM Closed	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	12374
Motors	100 Horse Power 1200RPM Closed	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	14054
Motors	100 Horse Power 1200RPM Closed	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	966
Motors	100 Horse Power 1200RPM Closed	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	12375
Motors	100 Horse Power 1200RPM Closed	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	14055
Motors	100 Horse Power 1200RPM Closed	Office	3002	Y		100 Horse Power	none	Per Motor	NA	1080
Motors	100 Horse Power 1200RPM Closed	Office	3002	Y		100 Horse Power	none	Per Motor	NA	12376
Motors	100 Horse Power 1200RPM Closed	Office	3002	Y		100 Horse Power	none	Per Motor	NA	14056
Motors	100 Horse Power 1200RPM Closed	School	3002	Y		100 Horse Power	none	Per Motor	NA	1256
Motors	100 Horse Power 1200RPM Closed	School	3002	Y		100 Horse Power	none	Per Motor	NA	12377
Motors	100 Horse Power 1200RPM Closed	School	3002	Y		100 Horse Power	none	Per Motor	NA	14057
Motors	100 Horse Power 1200RPM Open	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	789
Motors	100 Horse Power 1200RPM Open	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	12365
Motors	100 Horse Power 1200RPM Open	College/University	3002	Y		100 Horse Power	none	Per Motor	NA	14045
Motors	100 Horse Power 1200RPM Open	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	965
Motors	100 Horse Power 1200RPM Open	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	12366
Motors	100 Horse Power 1200RPM Open	Medical	3002	Y		100 Horse Power	none	Per Motor	NA	14046
Motors	100 Horse Power 1200RPM Open	Office	3002	Y		100 Horse Power	none	Per Motor	NA	1079
Motors	100 Horse Power 1200RPM Open	Office	3002	Y		100 Horse Power	none	Per Motor	NA	12367
Motors	100 Horse Power 1200RPM Open	Office	3002	Y		100 Horse Power	none	Per Motor	NA	14047
Motors	100 Horse Power 1200RPM Open	School	3002	Y		100 Horse Power	none	Per Motor	NA	1255
Motors	100 Horse Power 1200RPM Open	School	3002	Y		100 Horse Power	none	Per Motor	NA	12368
Motors	100 Horse Power 1200RPM Open	School	3002	Y		100 Horse Power	none	Per Motor	NA	14048

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Motors	100 Horse Power 1800RPM Closed	College/University	2977	Y		100 Horse Power	none	Per Motor	NA	788
Motors	100 Horse Power 1800RPM Closed	College/University	2977	Y		100 Horse Power	none	Per Motor	NA	12356
Motors	100 Horse Power 1800RPM Closed	College/University	2977	Y		100 Horse Power	none	Per Motor	NA	14036
Motors	100 Horse Power 1800RPM Closed	Medical	2977	Y		100 Horse Power	none	Per Motor	NA	964
Motors	100 Horse Power 1800RPM Closed	Medical	2977	Y		100 Horse Power	none	Per Motor	NA	12357
Motors	100 Horse Power 1800RPM Closed	Medical	2977	Y		100 Horse Power	none	Per Motor	NA	14037
Motors	100 Horse Power 1800RPM Closed	Office	2977	Y		100 Horse Power	none	Per Motor	NA	1078
Motors	100 Horse Power 1800RPM Closed	Office	2977	Y		100 Horse Power	none	Per Motor	NA	12358
Motors	100 Horse Power 1800RPM Closed	Office	2977	Y		100 Horse Power	none	Per Motor	NA	14038
Motors	100 Horse Power 1800RPM Closed	School	2977	Y		100 Horse Power	none	Per Motor	NA	1254
Motors	100 Horse Power 1800RPM Closed	School	2977	Y		100 Horse Power	none	Per Motor	NA	12359
Motors	100 Horse Power 1800RPM Closed	School	2977	Y		100 Horse Power	none	Per Motor	NA	14039
Motors	100 Horse Power 1800RPM Open	College/University	4318	Y		100 Horse Power	none	Per Motor	NA	787
Motors	100 Horse Power 1800RPM Open	College/University	4318	Y		100 Horse Power	none	Per Motor	NA	12347
Motors	100 Horse Power 1800RPM Open	College/University	4318	Y		100 Horse Power	none	Per Motor	NA	14027
Motors	100 Horse Power 1800RPM Open	Medical	4318	Y		100 Horse Power	none	Per Motor	NA	963
Motors	100 Horse Power 1800RPM Open	Medical	4318	Y		100 Horse Power	none	Per Motor	NA	12348
Motors	100 Horse Power 1800RPM Open	Medical	4318	Y		100 Horse Power	none	Per Motor	NA	14028
Motors	100 Horse Power 1800RPM Open	Office	4318	Y		100 Horse Power	none	Per Motor	NA	1077
Motors	100 Horse Power 1800RPM Open	Office	4318	Y		100 Horse Power	none	Per Motor	NA	12349
Motors	100 Horse Power 1800RPM Open	Office	4318	Y		100 Horse Power	none	Per Motor	NA	14029
Motors	100 Horse Power 1800RPM Open	School	4318	Y		100 Horse Power	none	Per Motor	NA	1253
Motors	100 Horse Power 1800RPM Open	School	4318	Y		100 Horse Power	none	Per Motor	NA	12350
Motors	100 Horse Power 1800RPM Open	School	4318	Y		100 Horse Power	none	Per Motor	NA	14030
Motors	100 Horse Power 3600RPM Closed	College/University	1693	Y		100 Horse Power	none	Per Motor	NA	786
Motors	100 Horse Power 3600RPM Closed	College/University	1693	Y		100 Horse Power	none	Per Motor	NA	12338
Motors	100 Horse Power 3600RPM Closed	College/University	1693	Y		100 Horse Power	none	Per Motor	NA	14018

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Motors	100 Horse Power 3600RPM Closed	Medical	1693	Y		100 Horse Power	none	Per Motor	NA	962
Motors	100 Horse Power 3600RPM Closed	Medical	1693	Y		100 Horse Power	none	Per Motor	NA	12339
Motors	100 Horse Power 3600RPM Closed	Medical	1693	Y		100 Horse Power	none	Per Motor	NA	14019
Motors	100 Horse Power 3600RPM Closed	Office	1693	Y		100 Horse Power	none	Per Motor	NA	1076
Motors	100 Horse Power 3600RPM Closed	Office	1693	Y		100 Horse Power	none	Per Motor	NA	12340
Motors	100 Horse Power 3600RPM Closed	Office	1693	Y		100 Horse Power	none	Per Motor	NA	14020
Motors	100 Horse Power 3600RPM Closed	School	1693	Y		100 Horse Power	none	Per Motor	NA	1252
Motors	100 Horse Power 3600RPM Closed	School	1693	Y		100 Horse Power	none	Per Motor	NA	12341
Motors	100 Horse Power 3600RPM Closed	School	1693	Y		100 Horse Power	none	Per Motor	NA	14021
Motors	100 Horse Power 3600RPM Open	College/University	2055	Y		100 Horse Power	none	Per Motor	NA	785
Motors	100 Horse Power 3600RPM Open	College/University	2055	Y		100 Horse Power	none	Per Motor	NA	12329
Motors	100 Horse Power 3600RPM Open	College/University	2055	Y		100 Horse Power	none	Per Motor	NA	14009
Motors	100 Horse Power 3600RPM Open	Medical	2055	Y		100 Horse Power	none	Per Motor	NA	961
Motors	100 Horse Power 3600RPM Open	Medical	2055	Y		100 Horse Power	none	Per Motor	NA	12330
Motors	100 Horse Power 3600RPM Open	Medical	2055	Y		100 Horse Power	none	Per Motor	NA	14010
Motors	100 Horse Power 3600RPM Open	Office	2055	Y		100 Horse Power	none	Per Motor	NA	1075
Motors	100 Horse Power 3600RPM Open	Office	2055	Y		100 Horse Power	none	Per Motor	NA	12331
Motors	100 Horse Power 3600RPM Open	Office	2055	Y		100 Horse Power	none	Per Motor	NA	14011
Motors	100 Horse Power 3600RPM Open	School	2055	Y		100 Horse Power	none	Per Motor	NA	1251
Motors	100 Horse Power 3600RPM Open	School	2055	Y		100 Horse Power	none	Per Motor	NA	12332
Motors	100 Horse Power 3600RPM Open	School	2055	Y		100 Horse Power	none	Per Motor	NA	14012
Motors	125 Horse Power 1200RPM Closed	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	796
Motors	125 Horse Power 1200RPM Closed	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	12428
Motors	125 Horse Power 1200RPM Closed	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	14108
Motors	125 Horse Power 1200RPM Closed	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	972
Motors	125 Horse Power 1200RPM Closed	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	12429
Motors	125 Horse Power 1200RPM Closed	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	14109

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Motors	125 Horse Power 1200RPM Closed	Office	3661	Y		125 Horse Power	none	Per Motor	NA	1086
Motors	125 Horse Power 1200RPM Closed	Office	3661	Y		125 Horse Power	none	Per Motor	NA	12430
Motors	125 Horse Power 1200RPM Closed	Office	3661	Y		125 Horse Power	none	Per Motor	NA	14110
Motors	125 Horse Power 1200RPM Closed	School	3661	Y		125 Horse Power	none	Per Motor	NA	1262
Motors	125 Horse Power 1200RPM Closed	School	3661	Y		125 Horse Power	none	Per Motor	NA	12431
Motors	125 Horse Power 1200RPM Closed	School	3661	Y		125 Horse Power	none	Per Motor	NA	14111
Motors	125 Horse Power 1200RPM Open	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	795
Motors	125 Horse Power 1200RPM Open	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	12419
Motors	125 Horse Power 1200RPM Open	College/University	3661	Y		125 Horse Power	none	Per Motor	NA	14099
Motors	125 Horse Power 1200RPM Open	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	971
Motors	125 Horse Power 1200RPM Open	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	12420
Motors	125 Horse Power 1200RPM Open	Medical	3661	Y		125 Horse Power	none	Per Motor	NA	14100
Motors	125 Horse Power 1200RPM Open	Office	3661	Y		125 Horse Power	none	Per Motor	NA	1085
Motors	125 Horse Power 1200RPM Open	Office	3661	Y		125 Horse Power	none	Per Motor	NA	12421
Motors	125 Horse Power 1200RPM Open	Office	3661	Y		125 Horse Power	none	Per Motor	NA	14101
Motors	125 Horse Power 1200RPM Open	School	3661	Y		125 Horse Power	none	Per Motor	NA	1261
Motors	125 Horse Power 1200RPM Open	School	3661	Y		125 Horse Power	none	Per Motor	NA	12422
Motors	125 Horse Power 1200RPM Open	School	3661	Y		125 Horse Power	none	Per Motor	NA	14102
Motors	125 Horse Power 1800RPM Closed	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	794
Motors	125 Horse Power 1800RPM Closed	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	12410
Motors	125 Horse Power 1800RPM Closed	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	14090
Motors	125 Horse Power 1800RPM Closed	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	970
Motors	125 Horse Power 1800RPM Closed	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	12411
Motors	125 Horse Power 1800RPM Closed	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	14091
Motors	125 Horse Power 1800RPM Closed	Office	3631	Y		125 Horse Power	none	Per Motor	NA	1084
Motors	125 Horse Power 1800RPM Closed	Office	3631	Y		125 Horse Power	none	Per Motor	NA	12412
Motors	125 Horse Power 1800RPM Closed	Office	3631	Y		125 Horse Power	none	Per Motor	NA	14092

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Motors	125 Horse Power 1800RPM Closed	School	3631	Y		125 Horse Power	none	Per Motor	NA	1260
Motors	125 Horse Power 1800RPM Closed	School	3631	Y		125 Horse Power	none	Per Motor	NA	12413
Motors	125 Horse Power 1800RPM Closed	School	3631	Y		125 Horse Power	none	Per Motor	NA	14093
Motors	125 Horse Power 1800RPM Open	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	793
Motors	125 Horse Power 1800RPM Open	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	12401
Motors	125 Horse Power 1800RPM Open	College/University	3631	Y		125 Horse Power	none	Per Motor	NA	14081
Motors	125 Horse Power 1800RPM Open	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	969
Motors	125 Horse Power 1800RPM Open	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	12402
Motors	125 Horse Power 1800RPM Open	Medical	3631	Y		125 Horse Power	none	Per Motor	NA	14082
Motors	125 Horse Power 1800RPM Open	Office	3631	Y		125 Horse Power	none	Per Motor	NA	1083
Motors	125 Horse Power 1800RPM Open	Office	3631	Y		125 Horse Power	none	Per Motor	NA	12403
Motors	125 Horse Power 1800RPM Open	Office	3631	Y		125 Horse Power	none	Per Motor	NA	14083
Motors	125 Horse Power 1800RPM Open	School	3631	Y		125 Horse Power	none	Per Motor	NA	1259
Motors	125 Horse Power 1800RPM Open	School	3631	Y		125 Horse Power	none	Per Motor	NA	12404
Motors	125 Horse Power 1800RPM Open	School	3631	Y		125 Horse Power	none	Per Motor	NA	14084
Motors	125 Horse Power 3600RPM Closed	College/University	2025	Y		125 Horse Power	none	Per Motor	NA	792
Motors	125 Horse Power 3600RPM Closed	College/University	2025	Y		125 Horse Power	none	Per Motor	NA	12392
Motors	125 Horse Power 3600RPM Closed	College/University	2025	Y		125 Horse Power	none	Per Motor	NA	14072
Motors	125 Horse Power 3600RPM Closed	Medical	2025	Y		125 Horse Power	none	Per Motor	NA	968
Motors	125 Horse Power 3600RPM Closed	Medical	2025	Y		125 Horse Power	none	Per Motor	NA	12393
Motors	125 Horse Power 3600RPM Closed	Medical	2025	Y		125 Horse Power	none	Per Motor	NA	14073
Motors	125 Horse Power 3600RPM Closed	Office	2025	Y		125 Horse Power	none	Per Motor	NA	1082
Motors	125 Horse Power 3600RPM Closed	Office	2025	Y		125 Horse Power	none	Per Motor	NA	12394
Motors	125 Horse Power 3600RPM Closed	Office	2025	Y		125 Horse Power	none	Per Motor	NA	14074
Motors	125 Horse Power 3600RPM Closed	School	2025	Y		125 Horse Power	none	Per Motor	NA	1258
Motors	125 Horse Power 3600RPM Closed	School	2025	Y		125 Horse Power	none	Per Motor	NA	12395
Motors	125 Horse Power 3600RPM Closed	School	2025	Y		125 Horse Power	none	Per Motor	NA	14075
Motors	125 Horse Power 3600RPM Open	College/University	2065	Y		125 Horse Power	none	Per Motor	NA	791

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Motors	125 Horse Power 3600RPM Open	College/University	2065	Y		125 Horse Power	none	Per Motor	NA	12383
Motors	125 Horse Power 3600RPM Open	College/University	2065	Y		125 Horse Power	none	Per Motor	NA	14063
Motors	125 Horse Power 3600RPM Open	Medical	2065	Y		125 Horse Power	none	Per Motor	NA	967
Motors	125 Horse Power 3600RPM Open	Medical	2065	Y		125 Horse Power	none	Per Motor	NA	12384
Motors	125 Horse Power 3600RPM Open	Medical	2065	Y		125 Horse Power	none	Per Motor	NA	14064
Motors	125 Horse Power 3600RPM Open	Office	2065	Y		125 Horse Power	none	Per Motor	NA	1081
Motors	125 Horse Power 3600RPM Open	Office	2065	Y		125 Horse Power	none	Per Motor	NA	12385
Motors	125 Horse Power 3600RPM Open	Office	2065	Y		125 Horse Power	none	Per Motor	NA	14065
Motors	125 Horse Power 3600RPM Open	School	2065	Y		125 Horse Power	none	Per Motor	NA	1257
Motors	125 Horse Power 3600RPM Open	School	2065	Y		125 Horse Power	none	Per Motor	NA	12386
Motors	125 Horse Power 3600RPM Open	School	2065	Y		125 Horse Power	none	Per Motor	NA	14066
Motors	15 Horse Power 1200RPM Closed	College/University	516	Y		15 Horse Power	none	Per Motor	NA	742
Motors	15 Horse Power 1200RPM Closed	College/University	516	Y		15 Horse Power	none	Per Motor	NA	11942
Motors	15 Horse Power 1200RPM Closed	College/University	516	Y		15 Horse Power	none	Per Motor	NA	13622
Motors	15 Horse Power 1200RPM Closed	Medical	516	Y		15 Horse Power	none	Per Motor	NA	918
Motors	15 Horse Power 1200RPM Closed	Medical	516	Y		15 Horse Power	none	Per Motor	NA	11943
Motors	15 Horse Power 1200RPM Closed	Medical	516	Y		15 Horse Power	none	Per Motor	NA	13623
Motors	15 Horse Power 1200RPM Closed	Office	516	Y		15 Horse Power	none	Per Motor	NA	1032
Motors	15 Horse Power 1200RPM Closed	Office	516	Y		15 Horse Power	none	Per Motor	NA	11944
Motors	15 Horse Power 1200RPM Closed	Office	516	Y		15 Horse Power	none	Per Motor	NA	13624
Motors	15 Horse Power 1200RPM Closed	School	516	Y		15 Horse Power	none	Per Motor	NA	1208
Motors	15 Horse Power 1200RPM Closed	School	516	Y		15 Horse Power	none	Per Motor	NA	11945
Motors	15 Horse Power 1200RPM Closed	School	516	Y		15 Horse Power	none	Per Motor	NA	13625
Motors	15 Horse Power 1200RPM Open	College/University	516	Y		15 Horse Power	none	Per Motor	NA	741
Motors	15 Horse Power 1200RPM Open	College/University	516	Y		15 Horse Power	none	Per Motor	NA	11933
Motors	15 Horse Power 1200RPM Open	College/University	516	Y		15 Horse Power	none	Per Motor	NA	13613
Motors	15 Horse Power 1200RPM Open	Medical	516	Y		15 Horse Power	none	Per Motor	NA	917
Motors	15 Horse Power 1200RPM Open	Medical	516	Y		15 Horse Power	none	Per Motor	NA	11934
Motors	15 Horse Power 1200RPM Open	Medical	516	Y		15 Horse Power	none	Per Motor	NA	13614
Motors	15 Horse Power 1200RPM Open	Office	516	Y		15 Horse Power	none	Per Motor	NA	1031
Motors	15 Horse Power 1200RPM Open	Office	516	Y		15 Horse Power	none	Per Motor	NA	11935
Motors	15 Horse Power 1200RPM Open	Office	516	Y		15 Horse Power	none	Per Motor	NA	13615
Motors	15 Horse Power 1200RPM Open	School	516	Y		15 Horse Power	none	Per Motor	NA	1207
Motors	15 Horse Power 1200RPM Open	School	516	Y		15 Horse Power	none	Per Motor	NA	11936
Motors	15 Horse Power 1200RPM Open	School	516	Y		15 Horse Power	none	Per Motor	NA	13616
Motors	15 Horse Power 1800RPM Closed	College/University	474	Y		15 Horse Power	none	Per Motor	NA	740
Motors	15 Horse Power 1800RPM Closed	College/University	474	Y		15 Horse Power	none	Per Motor	NA	11924
Motors	15 Horse Power 1800RPM Closed	College/University	474	Y		15 Horse Power	none	Per Motor	NA	13604
Motors	15 Horse Power 1800RPM Closed	Medical	474	Y		15 Horse Power	none	Per Motor	NA	916
Motors	15 Horse Power 1800RPM Closed	Medical	474	Y		15 Horse Power	none	Per Motor	NA	11925
Motors	15 Horse Power 1800RPM Closed	Medical	474	Y		15 Horse Power	none	Per Motor	NA	13605
Motors	15 Horse Power 1800RPM Closed	Office	474	Y		15 Horse Power	none	Per Motor	NA	1030
Motors	15 Horse Power 1800RPM Closed	Office	474	Y		15 Horse Power	none	Per Motor	NA	11926

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	15 Horse Power 1800RPM Closed	Office	474	Y		15 Horse Power	none	Per Motor	NA	13606
Motors	15 Horse Power 1800RPM Closed	School	474	Y		15 Horse Power	none	Per Motor	NA	1206
Motors	15 Horse Power 1800RPM Closed	School	474	Y		15 Horse Power	none	Per Motor	NA	11927
Motors	15 Horse Power 1800RPM Closed	School	474	Y		15 Horse Power	none	Per Motor	NA	13607
Motors	15 Horse Power 1800RPM Open	College/University	673	Y		15 Horse Power	none	Per Motor	NA	739
Motors	15 Horse Power 1800RPM Open	College/University	673	Y		15 Horse Power	none	Per Motor	NA	11915
Motors	15 Horse Power 1800RPM Open	College/University	673	Y		15 Horse Power	none	Per Motor	NA	13595
Motors	15 Horse Power 1800RPM Open	Medical	673	Y		15 Horse Power	none	Per Motor	NA	915
Motors	15 Horse Power 1800RPM Open	Medical	673	Y		15 Horse Power	none	Per Motor	NA	11916
Motors	15 Horse Power 1800RPM Open	Medical	673	Y		15 Horse Power	none	Per Motor	NA	13596
Motors	15 Horse Power 1800RPM Open	Office	673	Y		15 Horse Power	none	Per Motor	NA	1029
Motors	15 Horse Power 1800RPM Open	Office	673	Y		15 Horse Power	none	Per Motor	NA	11917
Motors	15 Horse Power 1800RPM Open	Office	673	Y		15 Horse Power	none	Per Motor	NA	13597
Motors	15 Horse Power 1800RPM Open	School	673	Y		15 Horse Power	none	Per Motor	NA	1205
Motors	15 Horse Power 1800RPM Open	School	673	Y		15 Horse Power	none	Per Motor	NA	11918
Motors	15 Horse Power 1800RPM Open	School	673	Y		15 Horse Power	none	Per Motor	NA	13598
Motors	15 Horse Power 3600RPM Closed	College/University	277	Y		15 Horse Power	none	Per Motor	NA	738
Motors	15 Horse Power 3600RPM Closed	College/University	277	Y		15 Horse Power	none	Per Motor	NA	11906
Motors	15 Horse Power 3600RPM Closed	College/University	277	Y		15 Horse Power	none	Per Motor	NA	13586
Motors	15 Horse Power 3600RPM Closed	Medical	277	Y		15 Horse Power	none	Per Motor	NA	914
Motors	15 Horse Power 3600RPM Closed	Medical	277	Y		15 Horse Power	none	Per Motor	NA	11907
Motors	15 Horse Power 3600RPM Closed	Medical	277	Y		15 Horse Power	none	Per Motor	NA	13587
Motors	15 Horse Power 3600RPM Closed	Office	277	Y		15 Horse Power	none	Per Motor	NA	1028
Motors	15 Horse Power 3600RPM Closed	Office	277	Y		15 Horse Power	none	Per Motor	NA	11908
Motors	15 Horse Power 3600RPM Closed	Office	277	Y		15 Horse Power	none	Per Motor	NA	13588
Motors	15 Horse Power 3600RPM Closed	School	277	Y		15 Horse Power	none	Per Motor	NA	1204
Motors	15 Horse Power 3600RPM Closed	School	277	Y		15 Horse Power	none	Per Motor	NA	11909
Motors	15 Horse Power 3600RPM Closed	School	277	Y		15 Horse Power	none	Per Motor	NA	13589
Motors	15 Horse Power 3600RPM Open	College/University	247	Y		15 Horse Power	none	Per Motor	NA	737
Motors	15 Horse Power 3600RPM Open	College/University	247	Y		15 Horse Power	none	Per Motor	NA	11897
Motors	15 Horse Power 3600RPM Open	College/University	247	Y		15 Horse Power	none	Per Motor	NA	13577
Motors	15 Horse Power 3600RPM Open	Medical	247	Y		15 Horse Power	none	Per Motor	NA	913
Motors	15 Horse Power 3600RPM Open	Medical	247	Y		15 Horse Power	none	Per Motor	NA	11898
Motors	15 Horse Power 3600RPM Open	Medical	247	Y		15 Horse Power	none	Per Motor	NA	13578
Motors	15 Horse Power 3600RPM Open	Office	247	Y		15 Horse Power	none	Per Motor	NA	1027
Motors	15 Horse Power 3600RPM Open	Office	247	Y		15 Horse Power	none	Per Motor	NA	11899
Motors	15 Horse Power 3600RPM Open	Office	247	Y		15 Horse Power	none	Per Motor	NA	13579
Motors	15 Horse Power 3600RPM Open	School	247	Y		15 Horse Power	none	Per Motor	NA	1203
Motors	15 Horse Power 3600RPM Open	School	247	Y		15 Horse Power	none	Per Motor	NA	11900
Motors	15 Horse Power 3600RPM Open	School	247	Y		15 Horse Power	none	Per Motor	NA	13580
Motors	150 Horse Power 1200RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	802

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	150 Horse Power 1200RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	12482
Motors	150 Horse Power 1200RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	14162
Motors	150 Horse Power 1200RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	978
Motors	150 Horse Power 1200RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	12483
Motors	150 Horse Power 1200RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	14163
Motors	150 Horse Power 1200RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	1092
Motors	150 Horse Power 1200RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	12484
Motors	150 Horse Power 1200RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	14164
Motors	150 Horse Power 1200RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	1268
Motors	150 Horse Power 1200RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	12485
Motors	150 Horse Power 1200RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	14165
Motors	150 Horse Power 1200RPM Open	College/University	4357	Y		150 Horse Power	none	Per Motor	NA	801
Motors	150 Horse Power 1200RPM Open	College/University	4357	Y		150 Horse Power	none	Per Motor	NA	12473
Motors	150 Horse Power 1200RPM Open	College/University	4357	Y		150 Horse Power	none	Per Motor	NA	14153
Motors	150 Horse Power 1200RPM Open	Medical	4357	Y		150 Horse Power	none	Per Motor	NA	977
Motors	150 Horse Power 1200RPM Open	Medical	4357	Y		150 Horse Power	none	Per Motor	NA	12474
Motors	150 Horse Power 1200RPM Open	Medical	4357	Y		150 Horse Power	none	Per Motor	NA	14154
Motors	150 Horse Power 1200RPM Open	Office	4357	Y		150 Horse Power	none	Per Motor	NA	1091
Motors	150 Horse Power 1200RPM Open	Office	4357	Y		150 Horse Power	none	Per Motor	NA	12475
Motors	150 Horse Power 1200RPM Open	Office	4357	Y		150 Horse Power	none	Per Motor	NA	14155
Motors	150 Horse Power 1200RPM Open	School	4357	Y		150 Horse Power	none	Per Motor	NA	1267
Motors	150 Horse Power 1200RPM Open	School	4357	Y		150 Horse Power	none	Per Motor	NA	12476
Motors	150 Horse Power 1200RPM Open	School	4357	Y		150 Horse Power	none	Per Motor	NA	14156
Motors	150 Horse Power 1800RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	800
Motors	150 Horse Power 1800RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	12464
Motors	150 Horse Power 1800RPM Closed	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	14144
Motors	150 Horse Power 1800RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	976

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	150 Horse Power 1800RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	12465
Motors	150 Horse Power 1800RPM Closed	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	14145
Motors	150 Horse Power 1800RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	1090
Motors	150 Horse Power 1800RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	12466
Motors	150 Horse Power 1800RPM Closed	Office	3836	Y		150 Horse Power	none	Per Motor	NA	14146
Motors	150 Horse Power 1800RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	1266
Motors	150 Horse Power 1800RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	12467
Motors	150 Horse Power 1800RPM Closed	School	3836	Y		150 Horse Power	none	Per Motor	NA	14147
Motors	150 Horse Power 1800RPM Open	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	799
Motors	150 Horse Power 1800RPM Open	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	12455
Motors	150 Horse Power 1800RPM Open	College/University	3836	Y		150 Horse Power	none	Per Motor	NA	14135
Motors	150 Horse Power 1800RPM Open	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	975
Motors	150 Horse Power 1800RPM Open	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	12456
Motors	150 Horse Power 1800RPM Open	Medical	3836	Y		150 Horse Power	none	Per Motor	NA	14136
Motors	150 Horse Power 1800RPM Open	Office	3836	Y		150 Horse Power	none	Per Motor	NA	1089
Motors	150 Horse Power 1800RPM Open	Office	3836	Y		150 Horse Power	none	Per Motor	NA	12457
Motors	150 Horse Power 1800RPM Open	Office	3836	Y		150 Horse Power	none	Per Motor	NA	14137
Motors	150 Horse Power 1800RPM Open	School	3836	Y		150 Horse Power	none	Per Motor	NA	1265
Motors	150 Horse Power 1800RPM Open	School	3836	Y		150 Horse Power	none	Per Motor	NA	12458
Motors	150 Horse Power 1800RPM Open	School	3836	Y		150 Horse Power	none	Per Motor	NA	14138
Motors	150 Horse Power 3600RPM Closed	College/University	2431	Y		150 Horse Power	none	Per Motor	NA	798
Motors	150 Horse Power 3600RPM Closed	College/University	2431	Y		150 Horse Power	none	Per Motor	NA	12446
Motors	150 Horse Power 3600RPM Closed	College/University	2431	Y		150 Horse Power	none	Per Motor	NA	14126
Motors	150 Horse Power 3600RPM Closed	Medical	2431	Y		150 Horse Power	none	Per Motor	NA	974
Motors	150 Horse Power 3600RPM Closed	Medical	2431	Y		150 Horse Power	none	Per Motor	NA	12447
Motors	150 Horse Power 3600RPM Closed	Medical	2431	Y		150 Horse Power	none	Per Motor	NA	14127
Motors	150 Horse Power 3600RPM Closed	Office	2431	Y		150 Horse Power	none	Per Motor	NA	1088

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	150 Horse Power 3600RPM Closed	Office	2431	Y		150 Horse Power	none	Per Motor	NA	12448
Motors	150 Horse Power 3600RPM Closed	Office	2431	Y		150 Horse Power	none	Per Motor	NA	14128
Motors	150 Horse Power 3600RPM Closed	School	2431	Y		150 Horse Power	none	Per Motor	NA	1264
Motors	150 Horse Power 3600RPM Closed	School	2431	Y		150 Horse Power	none	Per Motor	NA	12449
Motors	150 Horse Power 3600RPM Closed	School	2431	Y		150 Horse Power	none	Per Motor	NA	14129
Motors	150 Horse Power 3600RPM Open	College/University	2477	Y		150 Horse Power	none	Per Motor	NA	797
Motors	150 Horse Power 3600RPM Open	College/University	2477	Y		150 Horse Power	none	Per Motor	NA	12437
Motors	150 Horse Power 3600RPM Open	College/University	2477	Y		150 Horse Power	none	Per Motor	NA	14117
Motors	150 Horse Power 3600RPM Open	Medical	2477	Y		150 Horse Power	none	Per Motor	NA	973
Motors	150 Horse Power 3600RPM Open	Medical	2477	Y		150 Horse Power	none	Per Motor	NA	12438
Motors	150 Horse Power 3600RPM Open	Medical	2477	Y		150 Horse Power	none	Per Motor	NA	14118
Motors	150 Horse Power 3600RPM Open	Office	2477	Y		150 Horse Power	none	Per Motor	NA	1087
Motors	150 Horse Power 3600RPM Open	Office	2477	Y		150 Horse Power	none	Per Motor	NA	12439
Motors	150 Horse Power 3600RPM Open	Office	2477	Y		150 Horse Power	none	Per Motor	NA	14119
Motors	150 Horse Power 3600RPM Open	School	2477	Y		150 Horse Power	none	Per Motor	NA	1263
Motors	150 Horse Power 3600RPM Open	School	2477	Y		150 Horse Power	none	Per Motor	NA	12440
Motors	150 Horse Power 3600RPM Open	School	2477	Y		150 Horse Power	none	Per Motor	NA	14120
Motors	2 Horse Power 1200RPM Closed	College/University	80	Y		2 Horse Power	none	Per Motor	NA	712
Motors	2 Horse Power 1200RPM Closed	College/University	80	Y		2 Horse Power	none	Per Motor	NA	11672
Motors	2 Horse Power 1200RPM Closed	College/University	80	Y		2 Horse Power	none	Per Motor	NA	13352
Motors	2 Horse Power 1200RPM Closed	Medical	80	Y		2 Horse Power	none	Per Motor	NA	888
Motors	2 Horse Power 1200RPM Closed	Medical	80	Y		2 Horse Power	none	Per Motor	NA	11673
Motors	2 Horse Power 1200RPM Closed	Medical	80	Y		2 Horse Power	none	Per Motor	NA	13353
Motors	2 Horse Power 1200RPM Closed	Office	80	Y		2 Horse Power	none	Per Motor	NA	1002
Motors	2 Horse Power 1200RPM Closed	Office	80	Y		2 Horse Power	none	Per Motor	NA	11674
Motors	2 Horse Power 1200RPM Closed	Office	80	Y		2 Horse Power	none	Per Motor	NA	13354
Motors	2 Horse Power 1200RPM Closed	School	80	Y		2 Horse Power	none	Per Motor	NA	1178
Motors	2 Horse Power 1200RPM Closed	School	80	Y		2 Horse Power	none	Per Motor	NA	11675
Motors	2 Horse Power 1200RPM Closed	School	80	Y		2 Horse Power	none	Per Motor	NA	13355
Motors	2 Horse Power 1200RPM Open	College/University	82	Y		2 Horse Power	none	Per Motor	NA	711
Motors	2 Horse Power 1200RPM Open	College/University	82	Y		2 Horse Power	none	Per Motor	NA	11663
Motors	2 Horse Power 1200RPM Open	College/University	82	Y		2 Horse Power	none	Per Motor	NA	13343
Motors	2 Horse Power 1200RPM Open	Medical	82	Y		2 Horse Power	none	Per Motor	NA	887
Motors	2 Horse Power 1200RPM Open	Medical	82	Y		2 Horse Power	none	Per Motor	NA	11664
Motors	2 Horse Power 1200RPM Open	Medical	82	Y		2 Horse Power	none	Per Motor	NA	13344
Motors	2 Horse Power 1200RPM Open	Office	82	Y		2 Horse Power	none	Per Motor	NA	1001
Motors	2 Horse Power 1200RPM Open	Office	82	Y		2 Horse Power	none	Per Motor	NA	11665
Motors	2 Horse Power 1200RPM Open	Office	82	Y		2 Horse Power	none	Per Motor	NA	13345

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	2 Horse Power 1200RPM Open	School	82	Y		2 Horse Power	none	Per Motor	NA	1177
Motors	2 Horse Power 1200RPM Open	School	82	Y		2 Horse Power	none	Per Motor	NA	11666
Motors	2 Horse Power 1200RPM Open	School	82	Y		2 Horse Power	none	Per Motor	NA	13346
Motors	2 Horse Power 1800RPM Closed	College/University	106	Y		2 Horse Power	none	Per Motor	NA	710
Motors	2 Horse Power 1800RPM Closed	College/University	106	Y		2 Horse Power	none	Per Motor	NA	11654
Motors	2 Horse Power 1800RPM Closed	College/University	106	Y		2 Horse Power	none	Per Motor	NA	13334
Motors	2 Horse Power 1800RPM Closed	Medical	106	Y		2 Horse Power	none	Per Motor	NA	886
Motors	2 Horse Power 1800RPM Closed	Medical	106	Y		2 Horse Power	none	Per Motor	NA	11655
Motors	2 Horse Power 1800RPM Closed	Medical	106	Y		2 Horse Power	none	Per Motor	NA	13335
Motors	2 Horse Power 1800RPM Closed	Office	106	Y		2 Horse Power	none	Per Motor	NA	1000
Motors	2 Horse Power 1800RPM Closed	Office	106	Y		2 Horse Power	none	Per Motor	NA	11656
Motors	2 Horse Power 1800RPM Closed	Office	106	Y		2 Horse Power	none	Per Motor	NA	13336
Motors	2 Horse Power 1800RPM Closed	School	106	Y		2 Horse Power	none	Per Motor	NA	1176
Motors	2 Horse Power 1800RPM Closed	School	106	Y		2 Horse Power	none	Per Motor	NA	11657
Motors	2 Horse Power 1800RPM Closed	School	106	Y		2 Horse Power	none	Per Motor	NA	13337
Motors	2 Horse Power 1800RPM Open	College/University	106	Y		2 Horse Power	none	Per Motor	NA	709
Motors	2 Horse Power 1800RPM Open	College/University	106	Y		2 Horse Power	none	Per Motor	NA	11645
Motors	2 Horse Power 1800RPM Open	College/University	106	Y		2 Horse Power	none	Per Motor	NA	13325
Motors	2 Horse Power 1800RPM Open	Medical	106	Y		2 Horse Power	none	Per Motor	NA	885
Motors	2 Horse Power 1800RPM Open	Medical	106	Y		2 Horse Power	none	Per Motor	NA	11646
Motors	2 Horse Power 1800RPM Open	Medical	106	Y		2 Horse Power	none	Per Motor	NA	13326
Motors	2 Horse Power 1800RPM Open	Office	106	Y		2 Horse Power	none	Per Motor	NA	999
Motors	2 Horse Power 1800RPM Open	Office	106	Y		2 Horse Power	none	Per Motor	NA	11647
Motors	2 Horse Power 1800RPM Open	Office	106	Y		2 Horse Power	none	Per Motor	NA	13327
Motors	2 Horse Power 1800RPM Open	School	106	Y		2 Horse Power	none	Per Motor	NA	1175
Motors	2 Horse Power 1800RPM Open	School	106	Y		2 Horse Power	none	Per Motor	NA	11648
Motors	2 Horse Power 1800RPM Open	School	106	Y		2 Horse Power	none	Per Motor	NA	13328
Motors	2 Horse Power 3600RPM Closed	College/University	64	Y		2 Horse Power	none	Per Motor	NA	708
Motors	2 Horse Power 3600RPM Closed	College/University	64	Y		2 Horse Power	none	Per Motor	NA	11636
Motors	2 Horse Power 3600RPM Closed	College/University	64	Y		2 Horse Power	none	Per Motor	NA	13316
Motors	2 Horse Power 3600RPM Closed	Medical	64	Y		2 Horse Power	none	Per Motor	NA	884
Motors	2 Horse Power 3600RPM Closed	Medical	64	Y		2 Horse Power	none	Per Motor	NA	11637
Motors	2 Horse Power 3600RPM Closed	Medical	64	Y		2 Horse Power	none	Per Motor	NA	13317
Motors	2 Horse Power 3600RPM Closed	Office	64	Y		2 Horse Power	none	Per Motor	NA	998
Motors	2 Horse Power 3600RPM Closed	Office	64	Y		2 Horse Power	none	Per Motor	NA	11638
Motors	2 Horse Power 3600RPM Closed	Office	64	Y		2 Horse Power	none	Per Motor	NA	13318
Motors	2 Horse Power 3600RPM Closed	School	64	Y		2 Horse Power	none	Per Motor	NA	1174
Motors	2 Horse Power 3600RPM Closed	School	64	Y		2 Horse Power	none	Per Motor	NA	11639
Motors	2 Horse Power 3600RPM Closed	School	64	Y		2 Horse Power	none	Per Motor	NA	13319
Motors	2 Horse Power 3600RPM Open	College/University	64	Y		2 Horse Power	none	Per Motor	NA	707
Motors	2 Horse Power 3600RPM Open	College/University	64	Y		2 Horse Power	none	Per Motor	NA	11627
Motors	2 Horse Power 3600RPM Open	College/University	64	Y		2 Horse Power	none	Per Motor	NA	13307
Motors	2 Horse Power 3600RPM Open	Medical	64	Y		2 Horse Power	none	Per Motor	NA	883

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	2 Horse Power 3600RPM Open	Medical	64	Y		2 Horse Power	none	Per Motor	NA	11628
Motors	2 Horse Power 3600RPM Open	Medical	64	Y		2 Horse Power	none	Per Motor	NA	13308
Motors	2 Horse Power 3600RPM Open	Office	64	Y		2 Horse Power	none	Per Motor	NA	997
Motors	2 Horse Power 3600RPM Open	Office	64	Y		2 Horse Power	none	Per Motor	NA	11629
Motors	2 Horse Power 3600RPM Open	Office	64	Y		2 Horse Power	none	Per Motor	NA	13309
Motors	2 Horse Power 3600RPM Open	School	64	Y		2 Horse Power	none	Per Motor	NA	1173
Motors	2 Horse Power 3600RPM Open	School	64	Y		2 Horse Power	none	Per Motor	NA	11630
Motors	2 Horse Power 3600RPM Open	School	64	Y		2 Horse Power	none	Per Motor	NA	13310
Motors	20 Horse Power 1200RPM Closed	College/University	688	Y		20 Horse Power	none	Per Motor	NA	748
Motors	20 Horse Power 1200RPM Closed	College/University	688	Y		20 Horse Power	none	Per Motor	NA	11996
Motors	20 Horse Power 1200RPM Closed	College/University	688	Y		20 Horse Power	none	Per Motor	NA	13676
Motors	20 Horse Power 1200RPM Closed	Medical	688	Y		20 Horse Power	none	Per Motor	NA	924
Motors	20 Horse Power 1200RPM Closed	Medical	688	Y		20 Horse Power	none	Per Motor	NA	11997
Motors	20 Horse Power 1200RPM Closed	Medical	688	Y		20 Horse Power	none	Per Motor	NA	13677
Motors	20 Horse Power 1200RPM Closed	Office	688	Y		20 Horse Power	none	Per Motor	NA	1038
Motors	20 Horse Power 1200RPM Closed	Office	688	Y		20 Horse Power	none	Per Motor	NA	11998
Motors	20 Horse Power 1200RPM Closed	Office	688	Y		20 Horse Power	none	Per Motor	NA	13678
Motors	20 Horse Power 1200RPM Closed	School	688	Y		20 Horse Power	none	Per Motor	NA	1214
Motors	20 Horse Power 1200RPM Closed	School	688	Y		20 Horse Power	none	Per Motor	NA	11999
Motors	20 Horse Power 1200RPM Closed	School	688	Y		20 Horse Power	none	Per Motor	NA	13679
Motors	20 Horse Power 1200RPM Open	College/University	632	Y		20 Horse Power	none	Per Motor	NA	747
Motors	20 Horse Power 1200RPM Open	College/University	632	Y		20 Horse Power	none	Per Motor	NA	11987
Motors	20 Horse Power 1200RPM Open	College/University	632	Y		20 Horse Power	none	Per Motor	NA	13667
Motors	20 Horse Power 1200RPM Open	Medical	632	Y		20 Horse Power	none	Per Motor	NA	923
Motors	20 Horse Power 1200RPM Open	Medical	632	Y		20 Horse Power	none	Per Motor	NA	11988
Motors	20 Horse Power 1200RPM Open	Medical	632	Y		20 Horse Power	none	Per Motor	NA	13668
Motors	20 Horse Power 1200RPM Open	Office	632	Y		20 Horse Power	none	Per Motor	NA	1037
Motors	20 Horse Power 1200RPM Open	Office	632	Y		20 Horse Power	none	Per Motor	NA	11989
Motors	20 Horse Power 1200RPM Open	Office	632	Y		20 Horse Power	none	Per Motor	NA	13669
Motors	20 Horse Power 1200RPM Open	School	632	Y		20 Horse Power	none	Per Motor	NA	1213
Motors	20 Horse Power 1200RPM Open	School	632	Y		20 Horse Power	none	Per Motor	NA	11990
Motors	20 Horse Power 1200RPM Open	School	632	Y		20 Horse Power	none	Per Motor	NA	13670
Motors	20 Horse Power 1800RPM Closed	College/University	897	Y		20 Horse Power	none	Per Motor	NA	746
Motors	20 Horse Power 1800RPM Closed	College/University	897	Y		20 Horse Power	none	Per Motor	NA	11978
Motors	20 Horse Power 1800RPM Closed	College/University	897	Y		20 Horse Power	none	Per Motor	NA	13658
Motors	20 Horse Power 1800RPM Closed	Medical	897	Y		20 Horse Power	none	Per Motor	NA	922
Motors	20 Horse Power 1800RPM Closed	Medical	897	Y		20 Horse Power	none	Per Motor	NA	11979
Motors	20 Horse Power 1800RPM Closed	Medical	897	Y		20 Horse Power	none	Per Motor	NA	13659
Motors	20 Horse Power 1800RPM Closed	Office	897	Y		20 Horse Power	none	Per Motor	NA	1036
Motors	20 Horse Power 1800RPM Closed	Office	897	Y		20 Horse Power	none	Per Motor	NA	11980
Motors	20 Horse Power 1800RPM Closed	Office	897	Y		20 Horse Power	none	Per Motor	NA	13660
Motors	20 Horse Power 1800RPM Closed	School	897	Y		20 Horse Power	none	Per Motor	NA	1212
Motors	20 Horse Power 1800RPM Closed	School	897	Y		20 Horse Power	none	Per Motor	NA	11981

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	20 Horse Power 1800RPM Closed	School	897	Y		20 Horse Power	none	Per Motor	NA	13661
Motors	20 Horse Power 1800RPM Open	College/University	897	Y		20 Horse Power	none	Per Motor	NA	745
Motors	20 Horse Power 1800RPM Open	College/University	897	Y		20 Horse Power	none	Per Motor	NA	11969
Motors	20 Horse Power 1800RPM Open	College/University	897	Y		20 Horse Power	none	Per Motor	NA	13649
Motors	20 Horse Power 1800RPM Open	Medical	897	Y		20 Horse Power	none	Per Motor	NA	921
Motors	20 Horse Power 1800RPM Open	Medical	897	Y		20 Horse Power	none	Per Motor	NA	11970
Motors	20 Horse Power 1800RPM Open	Medical	897	Y		20 Horse Power	none	Per Motor	NA	13650
Motors	20 Horse Power 1800RPM Open	Office	897	Y		20 Horse Power	none	Per Motor	NA	1035
Motors	20 Horse Power 1800RPM Open	Office	897	Y		20 Horse Power	none	Per Motor	NA	11971
Motors	20 Horse Power 1800RPM Open	Office	897	Y		20 Horse Power	none	Per Motor	NA	13651
Motors	20 Horse Power 1800RPM Open	School	897	Y		20 Horse Power	none	Per Motor	NA	1211
Motors	20 Horse Power 1800RPM Open	School	897	Y		20 Horse Power	none	Per Motor	NA	11972
Motors	20 Horse Power 1800RPM Open	School	897	Y		20 Horse Power	none	Per Motor	NA	13652
Motors	20 Horse Power 3600RPM Closed	College/University	370	Y		20 Horse Power	none	Per Motor	NA	744
Motors	20 Horse Power 3600RPM Closed	College/University	370	Y		20 Horse Power	none	Per Motor	NA	11960
Motors	20 Horse Power 3600RPM Closed	College/University	370	Y		20 Horse Power	none	Per Motor	NA	13640
Motors	20 Horse Power 3600RPM Closed	Medical	370	Y		20 Horse Power	none	Per Motor	NA	920
Motors	20 Horse Power 3600RPM Closed	Medical	370	Y		20 Horse Power	none	Per Motor	NA	11961
Motors	20 Horse Power 3600RPM Closed	Medical	370	Y		20 Horse Power	none	Per Motor	NA	13641
Motors	20 Horse Power 3600RPM Closed	Office	370	Y		20 Horse Power	none	Per Motor	NA	1034
Motors	20 Horse Power 3600RPM Closed	Office	370	Y		20 Horse Power	none	Per Motor	NA	11962
Motors	20 Horse Power 3600RPM Closed	Office	370	Y		20 Horse Power	none	Per Motor	NA	13642
Motors	20 Horse Power 3600RPM Closed	School	370	Y		20 Horse Power	none	Per Motor	NA	1210
Motors	20 Horse Power 3600RPM Closed	School	370	Y		20 Horse Power	none	Per Motor	NA	11963
Motors	20 Horse Power 3600RPM Closed	School	370	Y		20 Horse Power	none	Per Motor	NA	13643
Motors	20 Horse Power 3600RPM Open	College/University	370	Y		20 Horse Power	none	Per Motor	NA	743
Motors	20 Horse Power 3600RPM Open	College/University	370	Y		20 Horse Power	none	Per Motor	NA	11951
Motors	20 Horse Power 3600RPM Open	College/University	370	Y		20 Horse Power	none	Per Motor	NA	13631
Motors	20 Horse Power 3600RPM Open	Medical	370	Y		20 Horse Power	none	Per Motor	NA	919
Motors	20 Horse Power 3600RPM Open	Medical	370	Y		20 Horse Power	none	Per Motor	NA	11952
Motors	20 Horse Power 3600RPM Open	Medical	370	Y		20 Horse Power	none	Per Motor	NA	13632
Motors	20 Horse Power 3600RPM Open	Office	370	Y		20 Horse Power	none	Per Motor	NA	1033
Motors	20 Horse Power 3600RPM Open	Office	370	Y		20 Horse Power	none	Per Motor	NA	11953
Motors	20 Horse Power 3600RPM Open	Office	370	Y		20 Horse Power	none	Per Motor	NA	13633
Motors	20 Horse Power 3600RPM Open	School	370	Y		20 Horse Power	none	Per Motor	NA	1209
Motors	20 Horse Power 3600RPM Open	School	370	Y		20 Horse Power	none	Per Motor	NA	11954
Motors	20 Horse Power 3600RPM Open	School	370	Y		20 Horse Power	none	Per Motor	NA	13634
Motors	200 Horse Power 1200RPM Closed	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	808
Motors	200 Horse Power 1200RPM Closed	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	12536
Motors	200 Horse Power 1200RPM Closed	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	14216

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Motors	200 Horse Power 1200RPM Closed	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	984
Motors	200 Horse Power 1200RPM Closed	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	12537
Motors	200 Horse Power 1200RPM Closed	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	14217
Motors	200 Horse Power 1200RPM Closed	Office	5115	Y		200 Horse Power	none	Per Motor	NA	1098
Motors	200 Horse Power 1200RPM Closed	Office	5115	Y		200 Horse Power	none	Per Motor	NA	12538
Motors	200 Horse Power 1200RPM Closed	Office	5115	Y		200 Horse Power	none	Per Motor	NA	14218
Motors	200 Horse Power 1200RPM Closed	School	5115	Y		200 Horse Power	none	Per Motor	NA	1274
Motors	200 Horse Power 1200RPM Closed	School	5115	Y		200 Horse Power	none	Per Motor	NA	12539
Motors	200 Horse Power 1200RPM Closed	School	5115	Y		200 Horse Power	none	Per Motor	NA	14219
Motors	200 Horse Power 1200RPM Open	College/University	5809	Y		200 Horse Power	none	Per Motor	NA	807
Motors	200 Horse Power 1200RPM Open	College/University	5809	Y		200 Horse Power	none	Per Motor	NA	12527
Motors	200 Horse Power 1200RPM Open	College/University	5809	Y		200 Horse Power	none	Per Motor	NA	14207
Motors	200 Horse Power 1200RPM Open	Medical	5809	Y		200 Horse Power	none	Per Motor	NA	983
Motors	200 Horse Power 1200RPM Open	Medical	5809	Y		200 Horse Power	none	Per Motor	NA	12528
Motors	200 Horse Power 1200RPM Open	Medical	5809	Y		200 Horse Power	none	Per Motor	NA	14208
Motors	200 Horse Power 1200RPM Open	Office	5809	Y		200 Horse Power	none	Per Motor	NA	1097
Motors	200 Horse Power 1200RPM Open	Office	5809	Y		200 Horse Power	none	Per Motor	NA	12529
Motors	200 Horse Power 1200RPM Open	Office	5809	Y		200 Horse Power	none	Per Motor	NA	14209
Motors	200 Horse Power 1200RPM Open	School	5809	Y		200 Horse Power	none	Per Motor	NA	1273
Motors	200 Horse Power 1200RPM Open	School	5809	Y		200 Horse Power	none	Per Motor	NA	12530
Motors	200 Horse Power 1200RPM Open	School	5809	Y		200 Horse Power	none	Per Motor	NA	14210
Motors	200 Horse Power 1800RPM Closed	College/University	7640	Y		200 Horse Power	none	Per Motor	NA	806
Motors	200 Horse Power 1800RPM Closed	College/University	7640	Y		200 Horse Power	none	Per Motor	NA	12518
Motors	200 Horse Power 1800RPM Closed	College/University	7640	Y		200 Horse Power	none	Per Motor	NA	14198
Motors	200 Horse Power 1800RPM Closed	Medical	7640	Y		200 Horse Power	none	Per Motor	NA	982
Motors	200 Horse Power 1800RPM Closed	Medical	7640	Y		200 Horse Power	none	Per Motor	NA	12519
Motors	200 Horse Power 1800RPM Closed	Medical	7640	Y		200 Horse Power	none	Per Motor	NA	14199

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Motors	200 Horse Power 1800RPM Closed	Office	7640	Y		200 Horse Power	none	Per Motor	NA	1096
Motors	200 Horse Power 1800RPM Closed	Office	7640	Y		200 Horse Power	none	Per Motor	NA	12520
Motors	200 Horse Power 1800RPM Closed	Office	7640	Y		200 Horse Power	none	Per Motor	NA	14200
Motors	200 Horse Power 1800RPM Closed	School	7640	Y		200 Horse Power	none	Per Motor	NA	1272
Motors	200 Horse Power 1800RPM Closed	School	7640	Y		200 Horse Power	none	Per Motor	NA	12521
Motors	200 Horse Power 1800RPM Closed	School	7640	Y		200 Horse Power	none	Per Motor	NA	14201
Motors	200 Horse Power 1800RPM Open	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	805
Motors	200 Horse Power 1800RPM Open	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	12509
Motors	200 Horse Power 1800RPM Open	College/University	5115	Y		200 Horse Power	none	Per Motor	NA	14189
Motors	200 Horse Power 1800RPM Open	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	981
Motors	200 Horse Power 1800RPM Open	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	12510
Motors	200 Horse Power 1800RPM Open	Medical	5115	Y		200 Horse Power	none	Per Motor	NA	14190
Motors	200 Horse Power 1800RPM Open	Office	5115	Y		200 Horse Power	none	Per Motor	NA	1095
Motors	200 Horse Power 1800RPM Open	Office	5115	Y		200 Horse Power	none	Per Motor	NA	12511
Motors	200 Horse Power 1800RPM Open	Office	5115	Y		200 Horse Power	none	Per Motor	NA	14191
Motors	200 Horse Power 1800RPM Open	School	5115	Y		200 Horse Power	none	Per Motor	NA	1271
Motors	200 Horse Power 1800RPM Open	School	5115	Y		200 Horse Power	none	Per Motor	NA	12512
Motors	200 Horse Power 1800RPM Open	School	5115	Y		200 Horse Power	none	Per Motor	NA	14192
Motors	200 Horse Power 3600RPM Closed	College/University	2568	Y		200 Horse Power	none	Per Motor	NA	804
Motors	200 Horse Power 3600RPM Closed	College/University	2568	Y		200 Horse Power	none	Per Motor	NA	12500
Motors	200 Horse Power 3600RPM Closed	College/University	2568	Y		200 Horse Power	none	Per Motor	NA	14180
Motors	200 Horse Power 3600RPM Closed	Medical	2568	Y		200 Horse Power	none	Per Motor	NA	980
Motors	200 Horse Power 3600RPM Closed	Medical	2568	Y		200 Horse Power	none	Per Motor	NA	12501
Motors	200 Horse Power 3600RPM Closed	Medical	2568	Y		200 Horse Power	none	Per Motor	NA	14181
Motors	200 Horse Power 3600RPM Closed	Office	2568	Y		200 Horse Power	none	Per Motor	NA	1094
Motors	200 Horse Power 3600RPM Closed	Office	2568	Y		200 Horse Power	none	Per Motor	NA	12502
Motors	200 Horse Power 3600RPM Closed	Office	2568	Y		200 Horse Power	none	Per Motor	NA	14182

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Motors	200 Horse Power 3600RPM Closed	School	2568	Y		200 Horse Power	none	Per Motor	NA	1270
Motors	200 Horse Power 3600RPM Closed	School	2568	Y		200 Horse Power	none	Per Motor	NA	12503
Motors	200 Horse Power 3600RPM Closed	School	2568	Y		200 Horse Power	none	Per Motor	NA	14183
Motors	200 Horse Power 3600RPM Open	College/University	3241	Y		200 Horse Power	none	Per Motor	NA	803
Motors	200 Horse Power 3600RPM Open	College/University	3241	Y		200 Horse Power	none	Per Motor	NA	12491
Motors	200 Horse Power 3600RPM Open	College/University	3241	Y		200 Horse Power	none	Per Motor	NA	14171
Motors	200 Horse Power 3600RPM Open	Medical	3241	Y		200 Horse Power	none	Per Motor	NA	979
Motors	200 Horse Power 3600RPM Open	Medical	3241	Y		200 Horse Power	none	Per Motor	NA	12492
Motors	200 Horse Power 3600RPM Open	Medical	3241	Y		200 Horse Power	none	Per Motor	NA	14172
Motors	200 Horse Power 3600RPM Open	Office	3241	Y		200 Horse Power	none	Per Motor	NA	1093
Motors	200 Horse Power 3600RPM Open	Office	3241	Y		200 Horse Power	none	Per Motor	NA	12493
Motors	200 Horse Power 3600RPM Open	Office	3241	Y		200 Horse Power	none	Per Motor	NA	14173
Motors	200 Horse Power 3600RPM Open	School	3241	Y		200 Horse Power	none	Per Motor	NA	1269
Motors	200 Horse Power 3600RPM Open	School	3241	Y		200 Horse Power	none	Per Motor	NA	12494
Motors	200 Horse Power 3600RPM Open	School	3241	Y		200 Horse Power	none	Per Motor	NA	14174
Motors	25 Horse Power 1200RPM Closed	College/University	867	Y		25 Horse Power	none	Per Motor	NA	754
Motors	25 Horse Power 1200RPM Closed	College/University	867	Y		25 Horse Power	none	Per Motor	NA	12050
Motors	25 Horse Power 1200RPM Closed	College/University	867	Y		25 Horse Power	none	Per Motor	NA	13730
Motors	25 Horse Power 1200RPM Closed	Medical	867	Y		25 Horse Power	none	Per Motor	NA	930
Motors	25 Horse Power 1200RPM Closed	Medical	867	Y		25 Horse Power	none	Per Motor	NA	12051
Motors	25 Horse Power 1200RPM Closed	Medical	867	Y		25 Horse Power	none	Per Motor	NA	13731
Motors	25 Horse Power 1200RPM Closed	Office	867	Y		25 Horse Power	none	Per Motor	NA	1044
Motors	25 Horse Power 1200RPM Closed	Office	867	Y		25 Horse Power	none	Per Motor	NA	12052
Motors	25 Horse Power 1200RPM Closed	Office	867	Y		25 Horse Power	none	Per Motor	NA	13732
Motors	25 Horse Power 1200RPM Closed	School	867	Y		25 Horse Power	none	Per Motor	NA	1220
Motors	25 Horse Power 1200RPM Closed	School	867	Y		25 Horse Power	none	Per Motor	NA	12053
Motors	25 Horse Power 1200RPM Closed	School	867	Y		25 Horse Power	none	Per Motor	NA	13733
Motors	25 Horse Power 1200RPM Open	College/University	867	Y		25 Horse Power	none	Per Motor	NA	753
Motors	25 Horse Power 1200RPM Open	College/University	867	Y		25 Horse Power	none	Per Motor	NA	12041
Motors	25 Horse Power 1200RPM Open	College/University	867	Y		25 Horse Power	none	Per Motor	NA	13721
Motors	25 Horse Power 1200RPM Open	Medical	867	Y		25 Horse Power	none	Per Motor	NA	929
Motors	25 Horse Power 1200RPM Open	Medical	867	Y		25 Horse Power	none	Per Motor	NA	12042
Motors	25 Horse Power 1200RPM Open	Medical	867	Y		25 Horse Power	none	Per Motor	NA	13722
Motors	25 Horse Power 1200RPM Open	Office	867	Y		25 Horse Power	none	Per Motor	NA	1043
Motors	25 Horse Power 1200RPM Open	Office	867	Y		25 Horse Power	none	Per Motor	NA	12043
Motors	25 Horse Power 1200RPM Open	Office	867	Y		25 Horse Power	none	Per Motor	NA	13723
Motors	25 Horse Power 1200RPM Open	School	867	Y		25 Horse Power	none	Per Motor	NA	1219
Motors	25 Horse Power 1200RPM Open	School	867	Y		25 Horse Power	none	Per Motor	NA	12044
Motors	25 Horse Power 1200RPM Open	School	867	Y		25 Horse Power	none	Per Motor	NA	13724
Motors	25 Horse Power 1800RPM Closed	College/University	789	Y		25 Horse Power	none	Per Motor	NA	752

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Motors	25 Horse Power 1800RPM Closed	College/University	789	Y		25 Horse Power	none	Per Motor	NA	12032
Motors	25 Horse Power 1800RPM Closed	College/University	789	Y		25 Horse Power	none	Per Motor	NA	13712
Motors	25 Horse Power 1800RPM Closed	Medical	789	Y		25 Horse Power	none	Per Motor	NA	928
Motors	25 Horse Power 1800RPM Closed	Medical	789	Y		25 Horse Power	none	Per Motor	NA	12033
Motors	25 Horse Power 1800RPM Closed	Medical	789	Y		25 Horse Power	none	Per Motor	NA	13713
Motors	25 Horse Power 1800RPM Closed	Office	789	Y		25 Horse Power	none	Per Motor	NA	1042
Motors	25 Horse Power 1800RPM Closed	Office	789	Y		25 Horse Power	none	Per Motor	NA	12034
Motors	25 Horse Power 1800RPM Closed	Office	789	Y		25 Horse Power	none	Per Motor	NA	13714
Motors	25 Horse Power 1800RPM Closed	School	789	Y		25 Horse Power	none	Per Motor	NA	1218
Motors	25 Horse Power 1800RPM Closed	School	789	Y		25 Horse Power	none	Per Motor	NA	12035
Motors	25 Horse Power 1800RPM Closed	School	789	Y		25 Horse Power	none	Per Motor	NA	13715
Motors	25 Horse Power 1800RPM Open	College/University	1259	Y		25 Horse Power	none	Per Motor	NA	751
Motors	25 Horse Power 1800RPM Open	College/University	1259	Y		25 Horse Power	none	Per Motor	NA	12023
Motors	25 Horse Power 1800RPM Open	College/University	1259	Y		25 Horse Power	none	Per Motor	NA	13703
Motors	25 Horse Power 1800RPM Open	Medical	1259	Y		25 Horse Power	none	Per Motor	NA	927
Motors	25 Horse Power 1800RPM Open	Medical	1259	Y		25 Horse Power	none	Per Motor	NA	12024
Motors	25 Horse Power 1800RPM Open	Medical	1259	Y		25 Horse Power	none	Per Motor	NA	13704
Motors	25 Horse Power 1800RPM Open	Office	1259	Y		25 Horse Power	none	Per Motor	NA	1041
Motors	25 Horse Power 1800RPM Open	Office	1259	Y		25 Horse Power	none	Per Motor	NA	12025
Motors	25 Horse Power 1800RPM Open	Office	1259	Y		25 Horse Power	none	Per Motor	NA	13705
Motors	25 Horse Power 1800RPM Open	School	1259	Y		25 Horse Power	none	Per Motor	NA	1217
Motors	25 Horse Power 1800RPM Open	School	1259	Y		25 Horse Power	none	Per Motor	NA	12026
Motors	25 Horse Power 1800RPM Open	School	1259	Y		25 Horse Power	none	Per Motor	NA	13706
Motors	25 Horse Power 3600RPM Closed	College/University	477	Y		25 Horse Power	none	Per Motor	NA	750
Motors	25 Horse Power 3600RPM Closed	College/University	477	Y		25 Horse Power	none	Per Motor	NA	12014
Motors	25 Horse Power 3600RPM Closed	College/University	477	Y		25 Horse Power	none	Per Motor	NA	13694
Motors	25 Horse Power 3600RPM Closed	Medical	477	Y		25 Horse Power	none	Per Motor	NA	926
Motors	25 Horse Power 3600RPM Closed	Medical	477	Y		25 Horse Power	none	Per Motor	NA	12015
Motors	25 Horse Power 3600RPM Closed	Medical	477	Y		25 Horse Power	none	Per Motor	NA	13695
Motors	25 Horse Power 3600RPM Closed	Office	477	Y		25 Horse Power	none	Per Motor	NA	1040
Motors	25 Horse Power 3600RPM Closed	Office	477	Y		25 Horse Power	none	Per Motor	NA	12016
Motors	25 Horse Power 3600RPM Closed	Office	477	Y		25 Horse Power	none	Per Motor	NA	13696
Motors	25 Horse Power 3600RPM Closed	School	477	Y		25 Horse Power	none	Per Motor	NA	1216
Motors	25 Horse Power 3600RPM Closed	School	477	Y		25 Horse Power	none	Per Motor	NA	12017
Motors	25 Horse Power 3600RPM Closed	School	477	Y		25 Horse Power	none	Per Motor	NA	13697
Motors	25 Horse Power 3600RPM Open	College/University	477	Y		25 Horse Power	none	Per Motor	NA	749
Motors	25 Horse Power 3600RPM Open	College/University	477	Y		25 Horse Power	none	Per Motor	NA	12005
Motors	25 Horse Power 3600RPM Open	College/University	477	Y		25 Horse Power	none	Per Motor	NA	13685
Motors	25 Horse Power 3600RPM Open	Medical	477	Y		25 Horse Power	none	Per Motor	NA	925
Motors	25 Horse Power 3600RPM Open	Medical	477	Y		25 Horse Power	none	Per Motor	NA	12006
Motors	25 Horse Power 3600RPM Open	Medical	477	Y		25 Horse Power	none	Per Motor	NA	13686
Motors	25 Horse Power 3600RPM Open	Office	477	Y		25 Horse Power	none	Per Motor	NA	1039
Motors	25 Horse Power 3600RPM Open	Office	477	Y		25 Horse Power	none	Per Motor	NA	12007

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Motors	25 Horse Power 3600RPM Open	Office	477	Y		25 Horse Power	none	Per Motor	NA	13687
Motors	25 Horse Power 3600RPM Open	School	477	Y		25 Horse Power	none	Per Motor	NA	1215
Motors	25 Horse Power 3600RPM Open	School	477	Y		25 Horse Power	none	Per Motor	NA	12008
Motors	25 Horse Power 3600RPM Open	School	477	Y		25 Horse Power	none	Per Motor	NA	13688
Motors	3 Horse Power 1200RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	718
Motors	3 Horse Power 1200RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	11726
Motors	3 Horse Power 1200RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	13406
Motors	3 Horse Power 1200RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	894
Motors	3 Horse Power 1200RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	11727
Motors	3 Horse Power 1200RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	13407
Motors	3 Horse Power 1200RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	1008
Motors	3 Horse Power 1200RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	11728
Motors	3 Horse Power 1200RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	13408
Motors	3 Horse Power 1200RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	1184
Motors	3 Horse Power 1200RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	11729
Motors	3 Horse Power 1200RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	13409
Motors	3 Horse Power 1200RPM Open	College/University	120	Y		3 Horse Power	none	Per Motor	NA	717
Motors	3 Horse Power 1200RPM Open	College/University	120	Y		3 Horse Power	none	Per Motor	NA	11717
Motors	3 Horse Power 1200RPM Open	College/University	120	Y		3 Horse Power	none	Per Motor	NA	13397
Motors	3 Horse Power 1200RPM Open	Medical	120	Y		3 Horse Power	none	Per Motor	NA	893
Motors	3 Horse Power 1200RPM Open	Medical	120	Y		3 Horse Power	none	Per Motor	NA	11718
Motors	3 Horse Power 1200RPM Open	Medical	120	Y		3 Horse Power	none	Per Motor	NA	13398
Motors	3 Horse Power 1200RPM Open	Office	120	Y		3 Horse Power	none	Per Motor	NA	1007
Motors	3 Horse Power 1200RPM Open	Office	120	Y		3 Horse Power	none	Per Motor	NA	11719
Motors	3 Horse Power 1200RPM Open	Office	120	Y		3 Horse Power	none	Per Motor	NA	13399
Motors	3 Horse Power 1200RPM Open	School	120	Y		3 Horse Power	none	Per Motor	NA	1183
Motors	3 Horse Power 1200RPM Open	School	120	Y		3 Horse Power	none	Per Motor	NA	11720
Motors	3 Horse Power 1200RPM Open	School	120	Y		3 Horse Power	none	Per Motor	NA	13400
Motors	3 Horse Power 1800RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	716
Motors	3 Horse Power 1800RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	11708
Motors	3 Horse Power 1800RPM Closed	College/University	118	Y		3 Horse Power	none	Per Motor	NA	13388
Motors	3 Horse Power 1800RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	892
Motors	3 Horse Power 1800RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	11709
Motors	3 Horse Power 1800RPM Closed	Medical	118	Y		3 Horse Power	none	Per Motor	NA	13389
Motors	3 Horse Power 1800RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	1006
Motors	3 Horse Power 1800RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	11710
Motors	3 Horse Power 1800RPM Closed	Office	118	Y		3 Horse Power	none	Per Motor	NA	13390
Motors	3 Horse Power 1800RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	1182
Motors	3 Horse Power 1800RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	11711
Motors	3 Horse Power 1800RPM Closed	School	118	Y		3 Horse Power	none	Per Motor	NA	13391
Motors	3 Horse Power 1800RPM Open	College/University	179	Y		3 Horse Power	none	Per Motor	NA	715
Motors	3 Horse Power 1800RPM Open	College/University	179	Y		3 Horse Power	none	Per Motor	NA	11699
Motors	3 Horse Power 1800RPM Open	College/University	179	Y		3 Horse Power	none	Per Motor	NA	13379

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Motors	3 Horse Power 1800RPM Open	Medical	179	Y		3 Horse Power	none	Per Motor	NA	891
Motors	3 Horse Power 1800RPM Open	Medical	179	Y		3 Horse Power	none	Per Motor	NA	11700
Motors	3 Horse Power 1800RPM Open	Medical	179	Y		3 Horse Power	none	Per Motor	NA	13380
Motors	3 Horse Power 1800RPM Open	Office	179	Y		3 Horse Power	none	Per Motor	NA	1005
Motors	3 Horse Power 1800RPM Open	Office	179	Y		3 Horse Power	none	Per Motor	NA	11701
Motors	3 Horse Power 1800RPM Open	Office	179	Y		3 Horse Power	none	Per Motor	NA	13381
Motors	3 Horse Power 1800RPM Open	School	179	Y		3 Horse Power	none	Per Motor	NA	1181
Motors	3 Horse Power 1800RPM Open	School	179	Y		3 Horse Power	none	Per Motor	NA	11702
Motors	3 Horse Power 1800RPM Open	School	179	Y		3 Horse Power	none	Per Motor	NA	13382
Motors	3 Horse Power 3600RPM Closed	College/University	62	Y		3 Horse Power	none	Per Motor	NA	714
Motors	3 Horse Power 3600RPM Closed	College/University	62	Y		3 Horse Power	none	Per Motor	NA	11690
Motors	3 Horse Power 3600RPM Closed	College/University	62	Y		3 Horse Power	none	Per Motor	NA	13370
Motors	3 Horse Power 3600RPM Closed	Medical	62	Y		3 Horse Power	none	Per Motor	NA	890
Motors	3 Horse Power 3600RPM Closed	Medical	62	Y		3 Horse Power	none	Per Motor	NA	11691
Motors	3 Horse Power 3600RPM Closed	Medical	62	Y		3 Horse Power	none	Per Motor	NA	13371
Motors	3 Horse Power 3600RPM Closed	Office	62	Y		3 Horse Power	none	Per Motor	NA	1004
Motors	3 Horse Power 3600RPM Closed	Office	62	Y		3 Horse Power	none	Per Motor	NA	11692
Motors	3 Horse Power 3600RPM Closed	Office	62	Y		3 Horse Power	none	Per Motor	NA	13372
Motors	3 Horse Power 3600RPM Closed	School	62	Y		3 Horse Power	none	Per Motor	NA	1180
Motors	3 Horse Power 3600RPM Closed	School	62	Y		3 Horse Power	none	Per Motor	NA	11693
Motors	3 Horse Power 3600RPM Closed	School	62	Y		3 Horse Power	none	Per Motor	NA	13373
Motors	3 Horse Power 3600RPM Open	College/University	96	Y		3 Horse Power	none	Per Motor	NA	713
Motors	3 Horse Power 3600RPM Open	College/University	96	Y		3 Horse Power	none	Per Motor	NA	11681
Motors	3 Horse Power 3600RPM Open	College/University	96	Y		3 Horse Power	none	Per Motor	NA	13361
Motors	3 Horse Power 3600RPM Open	Medical	96	Y		3 Horse Power	none	Per Motor	NA	889
Motors	3 Horse Power 3600RPM Open	Medical	96	Y		3 Horse Power	none	Per Motor	NA	11682
Motors	3 Horse Power 3600RPM Open	Medical	96	Y		3 Horse Power	none	Per Motor	NA	13362
Motors	3 Horse Power 3600RPM Open	Office	96	Y		3 Horse Power	none	Per Motor	NA	1003
Motors	3 Horse Power 3600RPM Open	Office	96	Y		3 Horse Power	none	Per Motor	NA	11683
Motors	3 Horse Power 3600RPM Open	Office	96	Y		3 Horse Power	none	Per Motor	NA	13363
Motors	3 Horse Power 3600RPM Open	School	96	Y		3 Horse Power	none	Per Motor	NA	1179
Motors	3 Horse Power 3600RPM Open	School	96	Y		3 Horse Power	none	Per Motor	NA	11684
Motors	3 Horse Power 3600RPM Open	School	96	Y		3 Horse Power	none	Per Motor	NA	13364
Motors	30 Horse Power 1200RPM Closed	College/University	1041	Y		30 Horse Power	none	Per Motor	NA	760
Motors	30 Horse Power 1200RPM Closed	College/University	1041	Y		30 Horse Power	none	Per Motor	NA	12104
Motors	30 Horse Power 1200RPM Closed	College/University	1041	Y		30 Horse Power	none	Per Motor	NA	13784
Motors	30 Horse Power 1200RPM Closed	Medical	1041	Y		30 Horse Power	none	Per Motor	NA	936
Motors	30 Horse Power 1200RPM Closed	Medical	1041	Y		30 Horse Power	none	Per Motor	NA	12105
Motors	30 Horse Power 1200RPM Closed	Medical	1041	Y		30 Horse Power	none	Per Motor	NA	13785
Motors	30 Horse Power 1200RPM Closed	Office	1041	Y		30 Horse Power	none	Per Motor	NA	1050
Motors	30 Horse Power 1200RPM Closed	Office	1041	Y		30 Horse Power	none	Per Motor	NA	12106
Motors	30 Horse Power 1200RPM Closed	Office	1041	Y		30 Horse Power	none	Per Motor	NA	13786
Motors	30 Horse Power 1200RPM Closed	School	1041	Y		30 Horse Power	none	Per Motor	NA	1226

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	30 Horse Power 1200RPM Closed	School	1041	Y		30 Horse Power	none	Per Motor	NA	12107
Motors	30 Horse Power 1200RPM Closed	School	1041	Y		30 Horse Power	none	Per Motor	NA	13787
Motors	30 Horse Power 1200RPM Open	College/University	947	Y		30 Horse Power	none	Per Motor	NA	759
Motors	30 Horse Power 1200RPM Open	College/University	947	Y		30 Horse Power	none	Per Motor	NA	12095
Motors	30 Horse Power 1200RPM Open	College/University	947	Y		30 Horse Power	none	Per Motor	NA	13775
Motors	30 Horse Power 1200RPM Open	Medical	947	Y		30 Horse Power	none	Per Motor	NA	935
Motors	30 Horse Power 1200RPM Open	Medical	947	Y		30 Horse Power	none	Per Motor	NA	12096
Motors	30 Horse Power 1200RPM Open	Medical	947	Y		30 Horse Power	none	Per Motor	NA	13776
Motors	30 Horse Power 1200RPM Open	Office	947	Y		30 Horse Power	none	Per Motor	NA	1049
Motors	30 Horse Power 1200RPM Open	Office	947	Y		30 Horse Power	none	Per Motor	NA	12097
Motors	30 Horse Power 1200RPM Open	Office	947	Y		30 Horse Power	none	Per Motor	NA	13777
Motors	30 Horse Power 1200RPM Open	School	947	Y		30 Horse Power	none	Per Motor	NA	1225
Motors	30 Horse Power 1200RPM Open	School	947	Y		30 Horse Power	none	Per Motor	NA	12098
Motors	30 Horse Power 1200RPM Open	School	947	Y		30 Horse Power	none	Per Motor	NA	13778
Motors	30 Horse Power 1800RPM Closed	College/University	947	Y		30 Horse Power	none	Per Motor	NA	758
Motors	30 Horse Power 1800RPM Closed	College/University	947	Y		30 Horse Power	none	Per Motor	NA	12086
Motors	30 Horse Power 1800RPM Closed	College/University	947	Y		30 Horse Power	none	Per Motor	NA	13766
Motors	30 Horse Power 1800RPM Closed	Medical	947	Y		30 Horse Power	none	Per Motor	NA	934
Motors	30 Horse Power 1800RPM Closed	Medical	947	Y		30 Horse Power	none	Per Motor	NA	12087
Motors	30 Horse Power 1800RPM Closed	Medical	947	Y		30 Horse Power	none	Per Motor	NA	13767
Motors	30 Horse Power 1800RPM Closed	Office	947	Y		30 Horse Power	none	Per Motor	NA	1048
Motors	30 Horse Power 1800RPM Closed	Office	947	Y		30 Horse Power	none	Per Motor	NA	12088
Motors	30 Horse Power 1800RPM Closed	Office	947	Y		30 Horse Power	none	Per Motor	NA	13768
Motors	30 Horse Power 1800RPM Closed	School	947	Y		30 Horse Power	none	Per Motor	NA	1224
Motors	30 Horse Power 1800RPM Closed	School	947	Y		30 Horse Power	none	Per Motor	NA	12089
Motors	30 Horse Power 1800RPM Closed	School	947	Y		30 Horse Power	none	Per Motor	NA	13769
Motors	30 Horse Power 1800RPM Open	College/University	1335	Y		30 Horse Power	none	Per Motor	NA	757
Motors	30 Horse Power 1800RPM Open	College/University	1335	Y		30 Horse Power	none	Per Motor	NA	12077
Motors	30 Horse Power 1800RPM Open	College/University	1335	Y		30 Horse Power	none	Per Motor	NA	13757
Motors	30 Horse Power 1800RPM Open	Medical	1335	Y		30 Horse Power	none	Per Motor	NA	933
Motors	30 Horse Power 1800RPM Open	Medical	1335	Y		30 Horse Power	none	Per Motor	NA	12078
Motors	30 Horse Power 1800RPM Open	Medical	1335	Y		30 Horse Power	none	Per Motor	NA	13758
Motors	30 Horse Power 1800RPM Open	Office	1335	Y		30 Horse Power	none	Per Motor	NA	1047
Motors	30 Horse Power 1800RPM Open	Office	1335	Y		30 Horse Power	none	Per Motor	NA	12079
Motors	30 Horse Power 1800RPM Open	Office	1335	Y		30 Horse Power	none	Per Motor	NA	13759
Motors	30 Horse Power 1800RPM Open	School	1335	Y		30 Horse Power	none	Per Motor	NA	1223
Motors	30 Horse Power 1800RPM Open	School	1335	Y		30 Horse Power	none	Per Motor	NA	12080
Motors	30 Horse Power 1800RPM Open	School	1335	Y		30 Horse Power	none	Per Motor	NA	13760
Motors	30 Horse Power 3600RPM Closed	College/University	573	Y		30 Horse Power	none	Per Motor	NA	756
Motors	30 Horse Power 3600RPM Closed	College/University	573	Y		30 Horse Power	none	Per Motor	NA	12068
Motors	30 Horse Power 3600RPM Closed	College/University	573	Y		30 Horse Power	none	Per Motor	NA	13748
Motors	30 Horse Power 3600RPM Closed	Medical	573	Y		30 Horse Power	none	Per Motor	NA	932
Motors	30 Horse Power 3600RPM Closed	Medical	573	Y		30 Horse Power	none	Per Motor	NA	12069

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Motors	30 Horse Power 3600RPM Closed	Medical	573	Y		30 Horse Power	none	Per Motor	NA	13749
Motors	30 Horse Power 3600RPM Closed	Office	573	Y		30 Horse Power	none	Per Motor	NA	1046
Motors	30 Horse Power 3600RPM Closed	Office	573	Y		30 Horse Power	none	Per Motor	NA	12070
Motors	30 Horse Power 3600RPM Closed	Office	573	Y		30 Horse Power	none	Per Motor	NA	13750
Motors	30 Horse Power 3600RPM Closed	School	573	Y		30 Horse Power	none	Per Motor	NA	1222
Motors	30 Horse Power 3600RPM Closed	School	573	Y		30 Horse Power	none	Per Motor	NA	12071
Motors	30 Horse Power 3600RPM Closed	School	573	Y		30 Horse Power	none	Per Motor	NA	13751
Motors	30 Horse Power 3600RPM Open	College/University	573	Y		30 Horse Power	none	Per Motor	NA	755
Motors	30 Horse Power 3600RPM Open	College/University	573	Y		30 Horse Power	none	Per Motor	NA	12059
Motors	30 Horse Power 3600RPM Open	College/University	573	Y		30 Horse Power	none	Per Motor	NA	13739
Motors	30 Horse Power 3600RPM Open	Medical	573	Y		30 Horse Power	none	Per Motor	NA	931
Motors	30 Horse Power 3600RPM Open	Medical	573	Y		30 Horse Power	none	Per Motor	NA	12060
Motors	30 Horse Power 3600RPM Open	Medical	573	Y		30 Horse Power	none	Per Motor	NA	13740
Motors	30 Horse Power 3600RPM Open	Office	573	Y		30 Horse Power	none	Per Motor	NA	1045
Motors	30 Horse Power 3600RPM Open	Office	573	Y		30 Horse Power	none	Per Motor	NA	12061
Motors	30 Horse Power 3600RPM Open	Office	573	Y		30 Horse Power	none	Per Motor	NA	13741
Motors	30 Horse Power 3600RPM Open	School	573	Y		30 Horse Power	none	Per Motor	NA	1221
Motors	30 Horse Power 3600RPM Open	School	573	Y		30 Horse Power	none	Per Motor	NA	12062
Motors	30 Horse Power 3600RPM Open	School	573	Y		30 Horse Power	none	Per Motor	NA	13742
Motors	40 Horse Power 1200RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	766
Motors	40 Horse Power 1200RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	12158
Motors	40 Horse Power 1200RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	13838
Motors	40 Horse Power 1200RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	942
Motors	40 Horse Power 1200RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	12159
Motors	40 Horse Power 1200RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	13839
Motors	40 Horse Power 1200RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	1056
Motors	40 Horse Power 1200RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	12160
Motors	40 Horse Power 1200RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	13840
Motors	40 Horse Power 1200RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	1232
Motors	40 Horse Power 1200RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	12161
Motors	40 Horse Power 1200RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	13841
Motors	40 Horse Power 1200RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	765
Motors	40 Horse Power 1200RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	12149
Motors	40 Horse Power 1200RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	13829
Motors	40 Horse Power 1200RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	941
Motors	40 Horse Power 1200RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	12150
Motors	40 Horse Power 1200RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	13830
Motors	40 Horse Power 1200RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	1055
Motors	40 Horse Power 1200RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	12151
Motors	40 Horse Power 1200RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	13831
Motors	40 Horse Power 1200RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	1231
Motors	40 Horse Power 1200RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	12152
Motors	40 Horse Power 1200RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	13832

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Motors	40 Horse Power 1800RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	764
Motors	40 Horse Power 1800RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	12140
Motors	40 Horse Power 1800RPM Closed	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	13820
Motors	40 Horse Power 1800RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	940
Motors	40 Horse Power 1800RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	12141
Motors	40 Horse Power 1800RPM Closed	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	13821
Motors	40 Horse Power 1800RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	1054
Motors	40 Horse Power 1800RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	12142
Motors	40 Horse Power 1800RPM Closed	Office	1144	Y		40 Horse Power	none	Per Motor	NA	13822
Motors	40 Horse Power 1800RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	1230
Motors	40 Horse Power 1800RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	12143
Motors	40 Horse Power 1800RPM Closed	School	1144	Y		40 Horse Power	none	Per Motor	NA	13823
Motors	40 Horse Power 1800RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	763
Motors	40 Horse Power 1800RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	12131
Motors	40 Horse Power 1800RPM Open	College/University	1144	Y		40 Horse Power	none	Per Motor	NA	13811
Motors	40 Horse Power 1800RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	939
Motors	40 Horse Power 1800RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	12132
Motors	40 Horse Power 1800RPM Open	Medical	1144	Y		40 Horse Power	none	Per Motor	NA	13812
Motors	40 Horse Power 1800RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	1053
Motors	40 Horse Power 1800RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	12133
Motors	40 Horse Power 1800RPM Open	Office	1144	Y		40 Horse Power	none	Per Motor	NA	13813
Motors	40 Horse Power 1800RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	1229
Motors	40 Horse Power 1800RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	12134
Motors	40 Horse Power 1800RPM Open	School	1144	Y		40 Horse Power	none	Per Motor	NA	13814
Motors	40 Horse Power 3600RPM Closed	College/University	752	Y		40 Horse Power	none	Per Motor	NA	762
Motors	40 Horse Power 3600RPM Closed	College/University	752	Y		40 Horse Power	none	Per Motor	NA	12122
Motors	40 Horse Power 3600RPM Closed	College/University	752	Y		40 Horse Power	none	Per Motor	NA	13802
Motors	40 Horse Power 3600RPM Closed	Medical	752	Y		40 Horse Power	none	Per Motor	NA	938
Motors	40 Horse Power 3600RPM Closed	Medical	752	Y		40 Horse Power	none	Per Motor	NA	12123
Motors	40 Horse Power 3600RPM Closed	Medical	752	Y		40 Horse Power	none	Per Motor	NA	13803
Motors	40 Horse Power 3600RPM Closed	Office	752	Y		40 Horse Power	none	Per Motor	NA	1052
Motors	40 Horse Power 3600RPM Closed	Office	752	Y		40 Horse Power	none	Per Motor	NA	12124
Motors	40 Horse Power 3600RPM Closed	Office	752	Y		40 Horse Power	none	Per Motor	NA	13804
Motors	40 Horse Power 3600RPM Closed	School	752	Y		40 Horse Power	none	Per Motor	NA	1228
Motors	40 Horse Power 3600RPM Closed	School	752	Y		40 Horse Power	none	Per Motor	NA	12125
Motors	40 Horse Power 3600RPM Closed	School	752	Y		40 Horse Power	none	Per Motor	NA	13805
Motors	40 Horse Power 3600RPM Open	College/University	752	Y		40 Horse Power	none	Per Motor	NA	761
Motors	40 Horse Power 3600RPM Open	College/University	752	Y		40 Horse Power	none	Per Motor	NA	12113
Motors	40 Horse Power 3600RPM Open	College/University	752	Y		40 Horse Power	none	Per Motor	NA	13793
Motors	40 Horse Power 3600RPM Open	Medical	752	Y		40 Horse Power	none	Per Motor	NA	937
Motors	40 Horse Power 3600RPM Open	Medical	752	Y		40 Horse Power	none	Per Motor	NA	12114
Motors	40 Horse Power 3600RPM Open	Medical	752	Y		40 Horse Power	none	Per Motor	NA	13794
Motors	40 Horse Power 3600RPM Open	Office	752	Y		40 Horse Power	none	Per Motor	NA	1051

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Motors	40 Horse Power 3600RPM Open	Office	752	Y		40 Horse Power	none	Per Motor	NA	12115
Motors	40 Horse Power 3600RPM Open	Office	752	Y		40 Horse Power	none	Per Motor	NA	13795
Motors	40 Horse Power 3600RPM Open	School	752	Y		40 Horse Power	none	Per Motor	NA	1227
Motors	40 Horse Power 3600RPM Open	School	752	Y		40 Horse Power	none	Per Motor	NA	12116
Motors	40 Horse Power 3600RPM Open	School	752	Y		40 Horse Power	none	Per Motor	NA	13796
Motors	5 Horse Power 1200RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	724
Motors	5 Horse Power 1200RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	11780
Motors	5 Horse Power 1200RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	13460
Motors	5 Horse Power 1200RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	900
Motors	5 Horse Power 1200RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	11781
Motors	5 Horse Power 1200RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	13461
Motors	5 Horse Power 1200RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	1014
Motors	5 Horse Power 1200RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	11782
Motors	5 Horse Power 1200RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	13462
Motors	5 Horse Power 1200RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	1190
Motors	5 Horse Power 1200RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	11783
Motors	5 Horse Power 1200RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	13463
Motors	5 Horse Power 1200RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	723
Motors	5 Horse Power 1200RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	11771
Motors	5 Horse Power 1200RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	13451
Motors	5 Horse Power 1200RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	899
Motors	5 Horse Power 1200RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	11772
Motors	5 Horse Power 1200RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	13452
Motors	5 Horse Power 1200RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	1013
Motors	5 Horse Power 1200RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	11773
Motors	5 Horse Power 1200RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	13453
Motors	5 Horse Power 1200RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	1189
Motors	5 Horse Power 1200RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	11774
Motors	5 Horse Power 1200RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	13454
Motors	5 Horse Power 1800RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	722
Motors	5 Horse Power 1800RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	11762
Motors	5 Horse Power 1800RPM Closed	College/University	196	Y		5 Horse Power	none	Per Motor	NA	13442
Motors	5 Horse Power 1800RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	898
Motors	5 Horse Power 1800RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	11763
Motors	5 Horse Power 1800RPM Closed	Medical	196	Y		5 Horse Power	none	Per Motor	NA	13443
Motors	5 Horse Power 1800RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	1012
Motors	5 Horse Power 1800RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	11764
Motors	5 Horse Power 1800RPM Closed	Office	196	Y		5 Horse Power	none	Per Motor	NA	13444
Motors	5 Horse Power 1800RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	1188
Motors	5 Horse Power 1800RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	11765
Motors	5 Horse Power 1800RPM Closed	School	196	Y		5 Horse Power	none	Per Motor	NA	13445
Motors	5 Horse Power 1800RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	721
Motors	5 Horse Power 1800RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	11753

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Motors	5 Horse Power 1800RPM Open	College/University	196	Y		5 Horse Power	none	Per Motor	NA	13433
Motors	5 Horse Power 1800RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	897
Motors	5 Horse Power 1800RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	11754
Motors	5 Horse Power 1800RPM Open	Medical	196	Y		5 Horse Power	none	Per Motor	NA	13434
Motors	5 Horse Power 1800RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	1011
Motors	5 Horse Power 1800RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	11755
Motors	5 Horse Power 1800RPM Open	Office	196	Y		5 Horse Power	none	Per Motor	NA	13435
Motors	5 Horse Power 1800RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	1187
Motors	5 Horse Power 1800RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	11756
Motors	5 Horse Power 1800RPM Open	School	196	Y		5 Horse Power	none	Per Motor	NA	13436
Motors	5 Horse Power 3600RPM Closed	College/University	99	Y		5 Horse Power	none	Per Motor	NA	720
Motors	5 Horse Power 3600RPM Closed	College/University	99	Y		5 Horse Power	none	Per Motor	NA	11744
Motors	5 Horse Power 3600RPM Closed	College/University	99	Y		5 Horse Power	none	Per Motor	NA	13424
Motors	5 Horse Power 3600RPM Closed	Medical	99	Y		5 Horse Power	none	Per Motor	NA	896
Motors	5 Horse Power 3600RPM Closed	Medical	99	Y		5 Horse Power	none	Per Motor	NA	11745
Motors	5 Horse Power 3600RPM Closed	Medical	99	Y		5 Horse Power	none	Per Motor	NA	13425
Motors	5 Horse Power 3600RPM Closed	Office	99	Y		5 Horse Power	none	Per Motor	NA	1010
Motors	5 Horse Power 3600RPM Closed	Office	99	Y		5 Horse Power	none	Per Motor	NA	11746
Motors	5 Horse Power 3600RPM Closed	Office	99	Y		5 Horse Power	none	Per Motor	NA	13426
Motors	5 Horse Power 3600RPM Closed	School	99	Y		5 Horse Power	none	Per Motor	NA	1186
Motors	5 Horse Power 3600RPM Closed	School	99	Y		5 Horse Power	none	Per Motor	NA	11747
Motors	5 Horse Power 3600RPM Closed	School	99	Y		5 Horse Power	none	Per Motor	NA	13427
Motors	5 Horse Power 3600RPM Open	College/University	104	Y		5 Horse Power	none	Per Motor	NA	719
Motors	5 Horse Power 3600RPM Open	College/University	104	Y		5 Horse Power	none	Per Motor	NA	11735
Motors	5 Horse Power 3600RPM Open	College/University	104	Y		5 Horse Power	none	Per Motor	NA	13415
Motors	5 Horse Power 3600RPM Open	Medical	104	Y		5 Horse Power	none	Per Motor	NA	895
Motors	5 Horse Power 3600RPM Open	Medical	104	Y		5 Horse Power	none	Per Motor	NA	11736
Motors	5 Horse Power 3600RPM Open	Medical	104	Y		5 Horse Power	none	Per Motor	NA	13416
Motors	5 Horse Power 3600RPM Open	Office	104	Y		5 Horse Power	none	Per Motor	NA	1009
Motors	5 Horse Power 3600RPM Open	Office	104	Y		5 Horse Power	none	Per Motor	NA	11737
Motors	5 Horse Power 3600RPM Open	Office	104	Y		5 Horse Power	none	Per Motor	NA	13417
Motors	5 Horse Power 3600RPM Open	School	104	Y		5 Horse Power	none	Per Motor	NA	1185
Motors	5 Horse Power 3600RPM Open	School	104	Y		5 Horse Power	none	Per Motor	NA	11738
Motors	5 Horse Power 3600RPM Open	School	104	Y		5 Horse Power	none	Per Motor	NA	13418
Motors	50 Horse Power 1200RPM Closed	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	772
Motors	50 Horse Power 1200RPM Closed	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	12212
Motors	50 Horse Power 1200RPM Closed	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	13892
Motors	50 Horse Power 1200RPM Closed	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	948
Motors	50 Horse Power 1200RPM Closed	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	12213
Motors	50 Horse Power 1200RPM Closed	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	13893
Motors	50 Horse Power 1200RPM Closed	Office	1430	Y		50 Horse Power	none	Per Motor	NA	1062
Motors	50 Horse Power 1200RPM Closed	Office	1430	Y		50 Horse Power	none	Per Motor	NA	12214
Motors	50 Horse Power 1200RPM Closed	Office	1430	Y		50 Horse Power	none	Per Motor	NA	13894

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Motors	50 Horse Power 1200RPM Closed	School	1430	Y		50 Horse Power	none	Per Motor	NA	1238
Motors	50 Horse Power 1200RPM Closed	School	1430	Y		50 Horse Power	none	Per Motor	NA	12215
Motors	50 Horse Power 1200RPM Closed	School	1430	Y		50 Horse Power	none	Per Motor	NA	13895
Motors	50 Horse Power 1200RPM Open	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	771
Motors	50 Horse Power 1200RPM Open	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	12203
Motors	50 Horse Power 1200RPM Open	College/University	1430	Y		50 Horse Power	none	Per Motor	NA	13883
Motors	50 Horse Power 1200RPM Open	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	947
Motors	50 Horse Power 1200RPM Open	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	12204
Motors	50 Horse Power 1200RPM Open	Medical	1430	Y		50 Horse Power	none	Per Motor	NA	13884
Motors	50 Horse Power 1200RPM Open	Office	1430	Y		50 Horse Power	none	Per Motor	NA	1061
Motors	50 Horse Power 1200RPM Open	Office	1430	Y		50 Horse Power	none	Per Motor	NA	12205
Motors	50 Horse Power 1200RPM Open	Office	1430	Y		50 Horse Power	none	Per Motor	NA	13885
Motors	50 Horse Power 1200RPM Open	School	1430	Y		50 Horse Power	none	Per Motor	NA	1237
Motors	50 Horse Power 1200RPM Open	School	1430	Y		50 Horse Power	none	Per Motor	NA	12206
Motors	50 Horse Power 1200RPM Open	School	1430	Y		50 Horse Power	none	Per Motor	NA	13886
Motors	50 Horse Power 1800RPM Closed	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	770
Motors	50 Horse Power 1800RPM Closed	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	12194
Motors	50 Horse Power 1800RPM Closed	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	13874
Motors	50 Horse Power 1800RPM Closed	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	946
Motors	50 Horse Power 1800RPM Closed	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	12195
Motors	50 Horse Power 1800RPM Closed	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	13875
Motors	50 Horse Power 1800RPM Closed	Office	1942	Y		50 Horse Power	none	Per Motor	NA	1060
Motors	50 Horse Power 1800RPM Closed	Office	1942	Y		50 Horse Power	none	Per Motor	NA	12196
Motors	50 Horse Power 1800RPM Closed	Office	1942	Y		50 Horse Power	none	Per Motor	NA	13876
Motors	50 Horse Power 1800RPM Closed	School	1942	Y		50 Horse Power	none	Per Motor	NA	1236
Motors	50 Horse Power 1800RPM Closed	School	1942	Y		50 Horse Power	none	Per Motor	NA	12197
Motors	50 Horse Power 1800RPM Closed	School	1942	Y		50 Horse Power	none	Per Motor	NA	13877
Motors	50 Horse Power 1800RPM Open	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	769
Motors	50 Horse Power 1800RPM Open	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	12185
Motors	50 Horse Power 1800RPM Open	College/University	1942	Y		50 Horse Power	none	Per Motor	NA	13865
Motors	50 Horse Power 1800RPM Open	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	945
Motors	50 Horse Power 1800RPM Open	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	12186
Motors	50 Horse Power 1800RPM Open	Medical	1942	Y		50 Horse Power	none	Per Motor	NA	13866
Motors	50 Horse Power 1800RPM Open	Office	1942	Y		50 Horse Power	none	Per Motor	NA	1059
Motors	50 Horse Power 1800RPM Open	Office	1942	Y		50 Horse Power	none	Per Motor	NA	12187
Motors	50 Horse Power 1800RPM Open	Office	1942	Y		50 Horse Power	none	Per Motor	NA	13867
Motors	50 Horse Power 1800RPM Open	School	1942	Y		50 Horse Power	none	Per Motor	NA	1235
Motors	50 Horse Power 1800RPM Open	School	1942	Y		50 Horse Power	none	Per Motor	NA	12188
Motors	50 Horse Power 1800RPM Open	School	1942	Y		50 Horse Power	none	Per Motor	NA	13868
Motors	50 Horse Power 3600RPM Closed	College/University	794	Y		50 Horse Power	none	Per Motor	NA	768
Motors	50 Horse Power 3600RPM Closed	College/University	794	Y		50 Horse Power	none	Per Motor	NA	12176
Motors	50 Horse Power 3600RPM Closed	College/University	794	Y		50 Horse Power	none	Per Motor	NA	13856
Motors	50 Horse Power 3600RPM Closed	Medical	794	Y		50 Horse Power	none	Per Motor	NA	944

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Motors	50 Horse Power 3600RPM Closed	Medical	794	Y		50 Horse Power	none	Per Motor	NA	12177
Motors	50 Horse Power 3600RPM Closed	Medical	794	Y		50 Horse Power	none	Per Motor	NA	13857
Motors	50 Horse Power 3600RPM Closed	Office	794	Y		50 Horse Power	none	Per Motor	NA	1058
Motors	50 Horse Power 3600RPM Closed	Office	794	Y		50 Horse Power	none	Per Motor	NA	12178
Motors	50 Horse Power 3600RPM Closed	Office	794	Y		50 Horse Power	none	Per Motor	NA	13858
Motors	50 Horse Power 3600RPM Closed	School	794	Y		50 Horse Power	none	Per Motor	NA	1234
Motors	50 Horse Power 3600RPM Closed	School	794	Y		50 Horse Power	none	Per Motor	NA	12179
Motors	50 Horse Power 3600RPM Closed	School	794	Y		50 Horse Power	none	Per Motor	NA	13859
Motors	50 Horse Power 3600RPM Open	College/University	794	Y		50 Horse Power	none	Per Motor	NA	767
Motors	50 Horse Power 3600RPM Open	College/University	794	Y		50 Horse Power	none	Per Motor	NA	12167
Motors	50 Horse Power 3600RPM Open	College/University	794	Y		50 Horse Power	none	Per Motor	NA	13847
Motors	50 Horse Power 3600RPM Open	Medical	794	Y		50 Horse Power	none	Per Motor	NA	943
Motors	50 Horse Power 3600RPM Open	Medical	794	Y		50 Horse Power	none	Per Motor	NA	12168
Motors	50 Horse Power 3600RPM Open	Medical	794	Y		50 Horse Power	none	Per Motor	NA	13848
Motors	50 Horse Power 3600RPM Open	Office	794	Y		50 Horse Power	none	Per Motor	NA	1057
Motors	50 Horse Power 3600RPM Open	Office	794	Y		50 Horse Power	none	Per Motor	NA	12169
Motors	50 Horse Power 3600RPM Open	Office	794	Y		50 Horse Power	none	Per Motor	NA	13849
Motors	50 Horse Power 3600RPM Open	School	794	Y		50 Horse Power	none	Per Motor	NA	1233
Motors	50 Horse Power 3600RPM Open	School	794	Y		50 Horse Power	none	Per Motor	NA	12170
Motors	50 Horse Power 3600RPM Open	School	794	Y		50 Horse Power	none	Per Motor	NA	13850
Motors	60 Horse Power 1200RPM Closed	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	778
Motors	60 Horse Power 1200RPM Closed	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	12266
Motors	60 Horse Power 1200RPM Closed	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	13946
Motors	60 Horse Power 1200RPM Closed	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	954
Motors	60 Horse Power 1200RPM Closed	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	12267
Motors	60 Horse Power 1200RPM Closed	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	13947
Motors	60 Horse Power 1200RPM Closed	Office	1820	Y		60 Horse Power	none	Per Motor	NA	1068
Motors	60 Horse Power 1200RPM Closed	Office	1820	Y		60 Horse Power	none	Per Motor	NA	12268
Motors	60 Horse Power 1200RPM Closed	Office	1820	Y		60 Horse Power	none	Per Motor	NA	13948
Motors	60 Horse Power 1200RPM Closed	School	1820	Y		60 Horse Power	none	Per Motor	NA	1244
Motors	60 Horse Power 1200RPM Closed	School	1820	Y		60 Horse Power	none	Per Motor	NA	12269
Motors	60 Horse Power 1200RPM Closed	School	1820	Y		60 Horse Power	none	Per Motor	NA	13949
Motors	60 Horse Power 1200RPM Open	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	777
Motors	60 Horse Power 1200RPM Open	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	12257
Motors	60 Horse Power 1200RPM Open	College/University	1820	Y		60 Horse Power	none	Per Motor	NA	13937
Motors	60 Horse Power 1200RPM Open	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	953
Motors	60 Horse Power 1200RPM Open	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	12258
Motors	60 Horse Power 1200RPM Open	Medical	1820	Y		60 Horse Power	none	Per Motor	NA	13938
Motors	60 Horse Power 1200RPM Open	Office	1820	Y		60 Horse Power	none	Per Motor	NA	1067
Motors	60 Horse Power 1200RPM Open	Office	1820	Y		60 Horse Power	none	Per Motor	NA	12259
Motors	60 Horse Power 1200RPM Open	Office	1820	Y		60 Horse Power	none	Per Motor	NA	13939
Motors	60 Horse Power 1200RPM Open	School	1820	Y		60 Horse Power	none	Per Motor	NA	1243
Motors	60 Horse Power 1200RPM Open	School	1820	Y		60 Horse Power	none	Per Motor	NA	12260

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Motors	60 Horse Power 1200RPM Open	School	1820	Y		60 Horse Power	none	Per Motor	NA	13940
Motors	60 Horse Power 1800RPM Closed	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	776
Motors	60 Horse Power 1800RPM Closed	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	12248
Motors	60 Horse Power 1800RPM Closed	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	13928
Motors	60 Horse Power 1800RPM Closed	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	952
Motors	60 Horse Power 1800RPM Closed	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	12249
Motors	60 Horse Power 1800RPM Closed	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	13929
Motors	60 Horse Power 1800RPM Closed	Office	2817	Y		60 Horse Power	none	Per Motor	NA	1066
Motors	60 Horse Power 1800RPM Closed	Office	2817	Y		60 Horse Power	none	Per Motor	NA	12250
Motors	60 Horse Power 1800RPM Closed	Office	2817	Y		60 Horse Power	none	Per Motor	NA	13930
Motors	60 Horse Power 1800RPM Closed	School	2817	Y		60 Horse Power	none	Per Motor	NA	1242
Motors	60 Horse Power 1800RPM Closed	School	2817	Y		60 Horse Power	none	Per Motor	NA	12251
Motors	60 Horse Power 1800RPM Closed	School	2817	Y		60 Horse Power	none	Per Motor	NA	13931
Motors	60 Horse Power 1800RPM Open	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	775
Motors	60 Horse Power 1800RPM Open	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	12239
Motors	60 Horse Power 1800RPM Open	College/University	2817	Y		60 Horse Power	none	Per Motor	NA	13919
Motors	60 Horse Power 1800RPM Open	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	951
Motors	60 Horse Power 1800RPM Open	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	12240
Motors	60 Horse Power 1800RPM Open	Medical	2817	Y		60 Horse Power	none	Per Motor	NA	13920
Motors	60 Horse Power 1800RPM Open	Office	2817	Y		60 Horse Power	none	Per Motor	NA	1065
Motors	60 Horse Power 1800RPM Open	Office	2817	Y		60 Horse Power	none	Per Motor	NA	12241
Motors	60 Horse Power 1800RPM Open	Office	2817	Y		60 Horse Power	none	Per Motor	NA	13921
Motors	60 Horse Power 1800RPM Open	School	2817	Y		60 Horse Power	none	Per Motor	NA	1241
Motors	60 Horse Power 1800RPM Open	School	2817	Y		60 Horse Power	none	Per Motor	NA	12242
Motors	60 Horse Power 1800RPM Open	School	2817	Y		60 Horse Power	none	Per Motor	NA	13922
Motors	60 Horse Power 3600RPM Closed	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	774
Motors	60 Horse Power 3600RPM Closed	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	12230
Motors	60 Horse Power 3600RPM Closed	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	13910
Motors	60 Horse Power 3600RPM Closed	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	950
Motors	60 Horse Power 3600RPM Closed	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	12231
Motors	60 Horse Power 3600RPM Closed	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	13911
Motors	60 Horse Power 3600RPM Closed	Office	1233	Y		60 Horse Power	none	Per Motor	NA	1064
Motors	60 Horse Power 3600RPM Closed	Office	1233	Y		60 Horse Power	none	Per Motor	NA	12232
Motors	60 Horse Power 3600RPM Closed	Office	1233	Y		60 Horse Power	none	Per Motor	NA	13912
Motors	60 Horse Power 3600RPM Closed	School	1233	Y		60 Horse Power	none	Per Motor	NA	1240
Motors	60 Horse Power 3600RPM Closed	School	1233	Y		60 Horse Power	none	Per Motor	NA	12233
Motors	60 Horse Power 3600RPM Closed	School	1233	Y		60 Horse Power	none	Per Motor	NA	13913
Motors	60 Horse Power 3600RPM Open	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	773
Motors	60 Horse Power 3600RPM Open	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	12221
Motors	60 Horse Power 3600RPM Open	College/University	1233	Y		60 Horse Power	none	Per Motor	NA	13901
Motors	60 Horse Power 3600RPM Open	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	949
Motors	60 Horse Power 3600RPM Open	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	12222
Motors	60 Horse Power 3600RPM Open	Medical	1233	Y		60 Horse Power	none	Per Motor	NA	13902

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Motors	60 Horse Power 3600RPM Open	Office	1233	Y		60 Horse Power	none	Per Motor	NA	1063
Motors	60 Horse Power 3600RPM Open	Office	1233	Y		60 Horse Power	none	Per Motor	NA	12223
Motors	60 Horse Power 3600RPM Open	Office	1233	Y		60 Horse Power	none	Per Motor	NA	13903
Motors	60 Horse Power 3600RPM Open	School	1233	Y		60 Horse Power	none	Per Motor	NA	1239
Motors	60 Horse Power 3600RPM Open	School	1233	Y		60 Horse Power	none	Per Motor	NA	12224
Motors	60 Horse Power 3600RPM Open	School	1233	Y		60 Horse Power	none	Per Motor	NA	13904
Motors	7.5 Horse Power 1200RPM Closed	College/University	262	Y		7.5 Horse Power	none	Per Motor	NA	730
Motors	7.5 Horse Power 1200RPM Closed	College/University	262	Y		7.5 Horse Power	none	Per Motor	NA	11834
Motors	7.5 Horse Power 1200RPM Closed	College/University	262	Y		7.5 Horse Power	none	Per Motor	NA	13514
Motors	7.5 Horse Power 1200RPM Closed	Medical	262	Y		7.5 Horse Power	none	Per Motor	NA	906
Motors	7.5 Horse Power 1200RPM Closed	Medical	262	Y		7.5 Horse Power	none	Per Motor	NA	11835
Motors	7.5 Horse Power 1200RPM Closed	Medical	262	Y		7.5 Horse Power	none	Per Motor	NA	13515
Motors	7.5 Horse Power 1200RPM Closed	Office	262	Y		7.5 Horse Power	none	Per Motor	NA	1020
Motors	7.5 Horse Power 1200RPM Closed	Office	262	Y		7.5 Horse Power	none	Per Motor	NA	11836
Motors	7.5 Horse Power 1200RPM Closed	Office	262	Y		7.5 Horse Power	none	Per Motor	NA	13516
Motors	7.5 Horse Power 1200RPM Closed	School	262	Y		7.5 Horse Power	none	Per Motor	NA	1196
Motors	7.5 Horse Power 1200RPM Closed	School	262	Y		7.5 Horse Power	none	Per Motor	NA	11837
Motors	7.5 Horse Power 1200RPM Closed	School	262	Y		7.5 Horse Power	none	Per Motor	NA	13517
Motors	7.5 Horse Power 1200RPM Open	College/University	303	Y		7.5 Horse Power	none	Per Motor	NA	729
Motors	7.5 Horse Power 1200RPM Open	College/University	303	Y		7.5 Horse Power	none	Per Motor	NA	11825
Motors	7.5 Horse Power 1200RPM Open	College/University	303	Y		7.5 Horse Power	none	Per Motor	NA	13505
Motors	7.5 Horse Power 1200RPM Open	Medical	303	Y		7.5 Horse Power	none	Per Motor	NA	905
Motors	7.5 Horse Power 1200RPM Open	Medical	303	Y		7.5 Horse Power	none	Per Motor	NA	11826
Motors	7.5 Horse Power 1200RPM Open	Medical	303	Y		7.5 Horse Power	none	Per Motor	NA	13506
Motors	7.5 Horse Power 1200RPM Open	Office	303	Y		7.5 Horse Power	none	Per Motor	NA	1019
Motors	7.5 Horse Power 1200RPM Open	Office	303	Y		7.5 Horse Power	none	Per Motor	NA	11827
Motors	7.5 Horse Power 1200RPM Open	Office	303	Y		7.5 Horse Power	none	Per Motor	NA	13507
Motors	7.5 Horse Power 1200RPM Open	School	303	Y		7.5 Horse Power	none	Per Motor	NA	1195
Motors	7.5 Horse Power 1200RPM Open	School	303	Y		7.5 Horse Power	none	Per Motor	NA	11828
Motors	7.5 Horse Power 1200RPM Open	School	303	Y		7.5 Horse Power	none	Per Motor	NA	13508
Motors	7.5 Horse Power 1800RPM Closed	College/University	381	Y		7.5 Horse Power	none	Per Motor	NA	728
Motors	7.5 Horse Power 1800RPM Closed	College/University	381	Y		7.5 Horse Power	none	Per Motor	NA	11816
Motors	7.5 Horse Power 1800RPM Closed	College/University	381	Y		7.5 Horse Power	none	Per Motor	NA	13496
Motors	7.5 Horse Power 1800RPM Closed	Medical	381	Y		7.5 Horse Power	none	Per Motor	NA	904
Motors	7.5 Horse Power 1800RPM Closed	Medical	381	Y		7.5 Horse Power	none	Per Motor	NA	11817
Motors	7.5 Horse Power 1800RPM Closed	Medical	381	Y		7.5 Horse Power	none	Per Motor	NA	13497
Motors	7.5 Horse Power 1800RPM Closed	Office	381	Y		7.5 Horse Power	none	Per Motor	NA	1018
Motors	7.5 Horse Power 1800RPM Closed	Office	381	Y		7.5 Horse Power	none	Per Motor	NA	11818
Motors	7.5 Horse Power 1800RPM Closed	Office	381	Y		7.5 Horse Power	none	Per Motor	NA	13498
Motors	7.5 Horse Power 1800RPM Closed	School	381	Y		7.5 Horse Power	none	Per Motor	NA	1194
Motors	7.5 Horse Power 1800RPM Closed	School	381	Y		7.5 Horse Power	none	Per Motor	NA	11819
Motors	7.5 Horse Power 1800RPM Closed	School	381	Y		7.5 Horse Power	none	Per Motor	NA	13499
Motors	7.5 Horse Power 1800RPM Open	College/University	442	Y		7.5 Horse Power	none	Per Motor	NA	727

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Motors	7.5 Horse Power 1800RPM Open	College/University	442	Y		7.5 Horse Power	none	Per Motor	NA	11807
Motors	7.5 Horse Power 1800RPM Open	College/University	442	Y		7.5 Horse Power	none	Per Motor	NA	13487
Motors	7.5 Horse Power 1800RPM Open	Medical	442	Y		7.5 Horse Power	none	Per Motor	NA	903
Motors	7.5 Horse Power 1800RPM Open	Medical	442	Y		7.5 Horse Power	none	Per Motor	NA	11808
Motors	7.5 Horse Power 1800RPM Open	Medical	442	Y		7.5 Horse Power	none	Per Motor	NA	13488
Motors	7.5 Horse Power 1800RPM Open	Office	442	Y		7.5 Horse Power	none	Per Motor	NA	1017
Motors	7.5 Horse Power 1800RPM Open	Office	442	Y		7.5 Horse Power	none	Per Motor	NA	11809
Motors	7.5 Horse Power 1800RPM Open	Office	442	Y		7.5 Horse Power	none	Per Motor	NA	13489
Motors	7.5 Horse Power 1800RPM Open	School	442	Y		7.5 Horse Power	none	Per Motor	NA	1193
Motors	7.5 Horse Power 1800RPM Open	School	442	Y		7.5 Horse Power	none	Per Motor	NA	11810
Motors	7.5 Horse Power 1800RPM Open	School	442	Y		7.5 Horse Power	none	Per Motor	NA	13490
Motors	7.5 Horse Power 3600RPM Closed	College/University	180	Y		7.5 Horse Power	none	Per Motor	NA	726
Motors	7.5 Horse Power 3600RPM Closed	College/University	180	Y		7.5 Horse Power	none	Per Motor	NA	11798
Motors	7.5 Horse Power 3600RPM Closed	College/University	180	Y		7.5 Horse Power	none	Per Motor	NA	13478
Motors	7.5 Horse Power 3600RPM Closed	Medical	180	Y		7.5 Horse Power	none	Per Motor	NA	902
Motors	7.5 Horse Power 3600RPM Closed	Medical	180	Y		7.5 Horse Power	none	Per Motor	NA	11799
Motors	7.5 Horse Power 3600RPM Closed	Medical	180	Y		7.5 Horse Power	none	Per Motor	NA	13479
Motors	7.5 Horse Power 3600RPM Closed	Office	180	Y		7.5 Horse Power	none	Per Motor	NA	1016
Motors	7.5 Horse Power 3600RPM Closed	Office	180	Y		7.5 Horse Power	none	Per Motor	NA	11800
Motors	7.5 Horse Power 3600RPM Closed	Office	180	Y		7.5 Horse Power	none	Per Motor	NA	13480
Motors	7.5 Horse Power 3600RPM Closed	School	180	Y		7.5 Horse Power	none	Per Motor	NA	1192
Motors	7.5 Horse Power 3600RPM Closed	School	180	Y		7.5 Horse Power	none	Per Motor	NA	11801
Motors	7.5 Horse Power 3600RPM Closed	School	180	Y		7.5 Horse Power	none	Per Motor	NA	13481
Motors	7.5 Horse Power 3600RPM Open	College/University	184	Y		7.5 Horse Power	none	Per Motor	NA	725
Motors	7.5 Horse Power 3600RPM Open	College/University	184	Y		7.5 Horse Power	none	Per Motor	NA	11789
Motors	7.5 Horse Power 3600RPM Open	College/University	184	Y		7.5 Horse Power	none	Per Motor	NA	13469
Motors	7.5 Horse Power 3600RPM Open	Medical	184	Y		7.5 Horse Power	none	Per Motor	NA	901
Motors	7.5 Horse Power 3600RPM Open	Medical	184	Y		7.5 Horse Power	none	Per Motor	NA	11790
Motors	7.5 Horse Power 3600RPM Open	Medical	184	Y		7.5 Horse Power	none	Per Motor	NA	13470
Motors	7.5 Horse Power 3600RPM Open	Office	184	Y		7.5 Horse Power	none	Per Motor	NA	1015
Motors	7.5 Horse Power 3600RPM Open	Office	184	Y		7.5 Horse Power	none	Per Motor	NA	11791
Motors	7.5 Horse Power 3600RPM Open	Office	184	Y		7.5 Horse Power	none	Per Motor	NA	13471
Motors	7.5 Horse Power 3600RPM Open	School	184	Y		7.5 Horse Power	none	Per Motor	NA	1191
Motors	7.5 Horse Power 3600RPM Open	School	184	Y		7.5 Horse Power	none	Per Motor	NA	11792
Motors	7.5 Horse Power 3600RPM Open	School	184	Y		7.5 Horse Power	none	Per Motor	NA	13472
Motors	75 Horse Power 1200RPM Closed	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	784
Motors	75 Horse Power 1200RPM Closed	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	12320
Motors	75 Horse Power 1200RPM Closed	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	14000
Motors	75 Horse Power 1200RPM Closed	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	960
Motors	75 Horse Power 1200RPM Closed	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	12321
Motors	75 Horse Power 1200RPM Closed	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	14001
Motors	75 Horse Power 1200RPM Closed	Office	2275	Y		75 Horse Power	none	Per Motor	NA	1074
Motors	75 Horse Power 1200RPM Closed	Office	2275	Y		75 Horse Power	none	Per Motor	NA	12322

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Motors	75 Horse Power 1200RPM Closed	Office	2275	Y		75 Horse Power	none	Per Motor	NA	14002
Motors	75 Horse Power 1200RPM Closed	School	2275	Y		75 Horse Power	none	Per Motor	NA	1250
Motors	75 Horse Power 1200RPM Closed	School	2275	Y		75 Horse Power	none	Per Motor	NA	12323
Motors	75 Horse Power 1200RPM Closed	School	2275	Y		75 Horse Power	none	Per Motor	NA	14003
Motors	75 Horse Power 1200RPM Open	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	783
Motors	75 Horse Power 1200RPM Open	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	12311
Motors	75 Horse Power 1200RPM Open	College/University	2275	Y		75 Horse Power	none	Per Motor	NA	13991
Motors	75 Horse Power 1200RPM Open	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	959
Motors	75 Horse Power 1200RPM Open	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	12312
Motors	75 Horse Power 1200RPM Open	Medical	2275	Y		75 Horse Power	none	Per Motor	NA	13992
Motors	75 Horse Power 1200RPM Open	Office	2275	Y		75 Horse Power	none	Per Motor	NA	1073
Motors	75 Horse Power 1200RPM Open	Office	2275	Y		75 Horse Power	none	Per Motor	NA	12313
Motors	75 Horse Power 1200RPM Open	Office	2275	Y		75 Horse Power	none	Per Motor	NA	13993
Motors	75 Horse Power 1200RPM Open	School	2275	Y		75 Horse Power	none	Per Motor	NA	1249
Motors	75 Horse Power 1200RPM Open	School	2275	Y		75 Horse Power	none	Per Motor	NA	12314
Motors	75 Horse Power 1200RPM Open	School	2275	Y		75 Horse Power	none	Per Motor	NA	13994
Motors	75 Horse Power 1800RPM Closed	College/University	3238	Y		75 Horse Power	none	Per Motor	NA	782
Motors	75 Horse Power 1800RPM Closed	College/University	3238	Y		75 Horse Power	none	Per Motor	NA	12302
Motors	75 Horse Power 1800RPM Closed	College/University	3238	Y		75 Horse Power	none	Per Motor	NA	13982
Motors	75 Horse Power 1800RPM Closed	Medical	3238	Y		75 Horse Power	none	Per Motor	NA	958
Motors	75 Horse Power 1800RPM Closed	Medical	3238	Y		75 Horse Power	none	Per Motor	NA	12303
Motors	75 Horse Power 1800RPM Closed	Medical	3238	Y		75 Horse Power	none	Per Motor	NA	13983
Motors	75 Horse Power 1800RPM Closed	Office	3238	Y		75 Horse Power	none	Per Motor	NA	1072
Motors	75 Horse Power 1800RPM Closed	Office	3238	Y		75 Horse Power	none	Per Motor	NA	12304
Motors	75 Horse Power 1800RPM Closed	Office	3238	Y		75 Horse Power	none	Per Motor	NA	13984
Motors	75 Horse Power 1800RPM Closed	School	3238	Y		75 Horse Power	none	Per Motor	NA	1248
Motors	75 Horse Power 1800RPM Closed	School	3238	Y		75 Horse Power	none	Per Motor	NA	12305
Motors	75 Horse Power 1800RPM Closed	School	3238	Y		75 Horse Power	none	Per Motor	NA	13985
Motors	75 Horse Power 1800RPM Open	College/University	2251	Y		75 Horse Power	none	Per Motor	NA	781
Motors	75 Horse Power 1800RPM Open	College/University	2251	Y		75 Horse Power	none	Per Motor	NA	12293
Motors	75 Horse Power 1800RPM Open	College/University	2251	Y		75 Horse Power	none	Per Motor	NA	13973
Motors	75 Horse Power 1800RPM Open	Medical	2251	Y		75 Horse Power	none	Per Motor	NA	957
Motors	75 Horse Power 1800RPM Open	Medical	2251	Y		75 Horse Power	none	Per Motor	NA	12294
Motors	75 Horse Power 1800RPM Open	Medical	2251	Y		75 Horse Power	none	Per Motor	NA	13974
Motors	75 Horse Power 1800RPM Open	Office	2251	Y		75 Horse Power	none	Per Motor	NA	1071
Motors	75 Horse Power 1800RPM Open	Office	2251	Y		75 Horse Power	none	Per Motor	NA	12295
Motors	75 Horse Power 1800RPM Open	Office	2251	Y		75 Horse Power	none	Per Motor	NA	13975
Motors	75 Horse Power 1800RPM Open	School	2251	Y		75 Horse Power	none	Per Motor	NA	1247
Motors	75 Horse Power 1800RPM Open	School	2251	Y		75 Horse Power	none	Per Motor	NA	12296
Motors	75 Horse Power 1800RPM Open	School	2251	Y		75 Horse Power	none	Per Motor	NA	13976
Motors	75 Horse Power 3600RPM Closed	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	780
Motors	75 Horse Power 3600RPM Closed	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	12284
Motors	75 Horse Power 3600RPM Closed	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	13964

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Motors	75 Horse Power 3600RPM Closed	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	956
Motors	75 Horse Power 3600RPM Closed	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	12285
Motors	75 Horse Power 3600RPM Closed	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	13965
Motors	75 Horse Power 3600RPM Closed	Office	1541	Y		75 Horse Power	none	Per Motor	NA	1070
Motors	75 Horse Power 3600RPM Closed	Office	1541	Y		75 Horse Power	none	Per Motor	NA	12286
Motors	75 Horse Power 3600RPM Closed	Office	1541	Y		75 Horse Power	none	Per Motor	NA	13966
Motors	75 Horse Power 3600RPM Closed	School	1541	Y		75 Horse Power	none	Per Motor	NA	1246
Motors	75 Horse Power 3600RPM Closed	School	1541	Y		75 Horse Power	none	Per Motor	NA	12287
Motors	75 Horse Power 3600RPM Closed	School	1541	Y		75 Horse Power	none	Per Motor	NA	13967
Motors	75 Horse Power 3600RPM Open	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	779
Motors	75 Horse Power 3600RPM Open	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	12275
Motors	75 Horse Power 3600RPM Open	College/University	1541	Y		75 Horse Power	none	Per Motor	NA	13955
Motors	75 Horse Power 3600RPM Open	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	955
Motors	75 Horse Power 3600RPM Open	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	12276
Motors	75 Horse Power 3600RPM Open	Medical	1541	Y		75 Horse Power	none	Per Motor	NA	13956
Motors	75 Horse Power 3600RPM Open	Office	1541	Y		75 Horse Power	none	Per Motor	NA	1069
Motors	75 Horse Power 3600RPM Open	Office	1541	Y		75 Horse Power	none	Per Motor	NA	12277
Motors	75 Horse Power 3600RPM Open	Office	1541	Y		75 Horse Power	none	Per Motor	NA	13957
Motors	75 Horse Power 3600RPM Open	School	1541	Y		75 Horse Power	none	Per Motor	NA	1245
Motors	75 Horse Power 3600RPM Open	School	1541	Y		75 Horse Power	none	Per Motor	NA	12278
Motors	75 Horse Power 3600RPM Open	School	1541	Y		75 Horse Power	none	Per Motor	NA	13958
Other	Administrative Adjustment	College/University	0	N		NA	none	Per Unit	NA	2474
Other	Administrative Adjustment	College/University	0	N		NA	none	Per Unit	NA	12563
Other	Administrative Adjustment	College/University	0	N		NA	none	Per Unit	NA	14243
Other	Administrative Adjustment	Medical	0	N		NA	none	Per Unit	NA	2475
Other	Administrative Adjustment	Medical	0	N		NA	none	Per Unit	NA	12564
Other	Administrative Adjustment	Medical	0	N		NA	none	Per Unit	NA	14244
Other	Administrative Adjustment	Office	0	N		NA	none	Per Unit	NA	2476
Other	Administrative Adjustment	Office	0	N		NA	none	Per Unit	NA	12565
Other	Administrative Adjustment	Office	0	N		NA	none	Per Unit	NA	14245
Other	Administrative Adjustment	School	0	N		NA	none	Per Unit	NA	2477
Other	Administrative Adjustment	School	0	N		NA	none	Per Unit	NA	12566
Other	Administrative Adjustment	School	0	N		NA	none	Per Unit	NA	14246
Promotion	GreenSpring Promotion	College/University	0	N		NA	none	Per Unit	NA	2483
Promotion	GreenSpring Promotion	College/University	0	N		NA	none	Per Unit	NA	12572
Promotion	GreenSpring Promotion	College/University	0	N		NA	none	Per Unit	NA	14252
Promotion	GreenSpring Promotion	Medical	0	N		NA	none	Per Unit	NA	2484
Promotion	GreenSpring Promotion	Medical	0	N		NA	none	Per Unit	NA	12573
Promotion	GreenSpring Promotion	Medical	0	N		NA	none	Per Unit	NA	14253
Promotion	GreenSpring Promotion	Office	0	N		NA	none	Per Unit	NA	2485
Promotion	GreenSpring Promotion	Office	0	N		NA	none	Per Unit	NA	12574
Promotion	GreenSpring Promotion	Office	0	N		NA	none	Per Unit	NA	14254
Promotion	GreenSpring Promotion	School	0	N		NA	none	Per Unit	NA	2486

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Promotion	GreenSpring Promotion	School	0	N		NA	none	Per Unit	NA	12575
Promotion	GreenSpring Promotion	School	0	N		NA	none	Per Unit	NA	14255
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	College/University	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	1877
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	College/University	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	11510
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	College/University	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	13190
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Medical	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	1878
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Medical	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	11511
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Medical	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	13191
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Office	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	1879
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Office	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	11512
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	Office	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	13192
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	School	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	1880
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	School	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	11513
Refrigeration	> 1500 lbs/24 hours Qualifying kWh per 100lbs 4.6	School	5585	Y		High Efficiency Ice Makers	none	Per Unit	NA	13193
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	College/University	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	1868
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	College/University	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	11501
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	College/University	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	13181
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Medical	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	1869
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Medical	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	11502
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Medical	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	13182
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Office	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	1870
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Office	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	11503

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Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	Office	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	13183
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	School	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	1871
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	School	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	11504
Refrigeration	1001/1500 lbs/24 hours Qualifying kWh per 100lbs 5	School	5019	Y		High Efficiency Ice Makers	none	Lamp	NA	13184
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	College/University	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	1823
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	College/University	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	11456
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	College/University	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	13136
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Medical	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	1824
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Medical	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	11457
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Medical	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	13137
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Office	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	1825
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Office	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	11458
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	Office	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	13138
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	School	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	1826
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	School	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	11459
Refrigeration	101-200 lbs/24 hours Qualifying kWh per 100lbs 8.5	School	1029	Y		High Efficiency Ice Makers	none	Per Unit	NA	13139
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	College/University	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	1832
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	College/University	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	11465
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	College/University	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	13145
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Medical	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	1833
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Medical	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	11466

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Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Medical	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	13146
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Office	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	1834
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Office	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	11467
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	Office	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	13147
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	School	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	1835
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	School	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	11468
Refrigeration	201-300 lbs/24 hours Qualifying kWh per 100lbs 7.7	School	1551	Y		High Efficiency Ice Makers	none	Per Unit	NA	13148
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	College/University	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	1841
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	College/University	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	11474
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	College/University	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	13154
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Medical	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	1842
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Medical	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	11475
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Medical	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	13155
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Office	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	1843
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Office	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	11476
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	Office	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	13156
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	School	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	1844
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	School	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	11477
Refrigeration	301-400 lbs/24 hours Qualifying kWh per 100lbs 6.5	School	1840	Y		High Efficiency Ice Makers	none	Per Unit	NA	13157
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	College/University	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	1850
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	College/University	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	11483

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Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	College/University	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	13163
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Medical	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	1851
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Medical	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	11484
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Medical	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	13164
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Office	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	1852
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Office	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	11485
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	Office	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	13165
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	School	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	1853
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	School	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	11486
Refrigeration	401-500 lbs/24 hours Qualifying kWh per 100lbs 5.5	School	2004	Y		High Efficiency Ice Makers	none	Per Unit	NA	13166
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	College/University	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	1859
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	College/University	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	11492
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	College/University	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	13172
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Medical	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	1860
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Medical	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	11493
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Medical	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	13173
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Office	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	1861
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Office	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	11494
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	Office	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	13174
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	School	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	1862
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	School	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	11495

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Refrigeration	501-1000 lbs/24 hours Qualifying kWh per 100lbs 5.2	School	3176	Y		High Efficiency Ice Makers	none	Per Unit	NA	13175
Refrigeration	Anti-Sweat Heater Control	College/University	402	Y		Refrigeration Measures	none	Per Square Foot	NA	1733
Refrigeration	Anti-Sweat Heater Control	College/University	402	Y		Refrigeration Measures	none	Per Square Foot	NA	11366
Refrigeration	Anti-Sweat Heater Control	College/University	402	Y		Refrigeration Measures	none	Per Square Foot	NA	13046
Refrigeration	Anti-Sweat Heater Control	Medical	402	Y		Refrigeration Measures	none	Per Square Foot	NA	1734
Refrigeration	Anti-Sweat Heater Control	Medical	402	Y		Refrigeration Measures	none	Per Square Foot	NA	11367
Refrigeration	Anti-Sweat Heater Control	Medical	402	Y		Refrigeration Measures	none	Per Square Foot	NA	13047
Refrigeration	Anti-Sweat Heater Control	Office	402	Y		Refrigeration Measures	none	Per Square Foot	NA	1735
Refrigeration	Anti-Sweat Heater Control	Office	402	Y		Refrigeration Measures	none	Per Square Foot	NA	11368
Refrigeration	Anti-Sweat Heater Control	Office	402	Y		Refrigeration Measures	none	Per Square Foot	NA	13048
Refrigeration	Anti-Sweat Heater Control	School	402	Y		Refrigeration Measures	none	Per Square Foot	NA	1736
Refrigeration	Anti-Sweat Heater Control	School	402	Y		Refrigeration Measures	none	Per Square Foot	NA	11369
Refrigeration	Anti-Sweat Heater Control	School	402	Y		Refrigeration Measures	none	Per Square Foot	NA	13049
Refrigeration	Automatic Door Closers for Walk-in Freezers	College/University	2307	Y		Refrigeration Measures	none	Per Door	NA	1778
Refrigeration	Automatic Door Closers for Walk-in Freezers	College/University	2307	Y		Refrigeration Measures	none	Per Door	NA	11411
Refrigeration	Automatic Door Closers for Walk-in Freezers	College/University	2307	Y		Refrigeration Measures	none	Per Door	NA	13091
Refrigeration	Automatic Door Closers for Walk-in Freezers	Medical	2307	Y		Refrigeration Measures	none	Per Door	NA	1779
Refrigeration	Automatic Door Closers for Walk-in Freezers	Medical	2307	Y		Refrigeration Measures	none	Per Door	NA	11412
Refrigeration	Automatic Door Closers for Walk-in Freezers	Medical	2307	Y		Refrigeration Measures	none	Per Door	NA	13092
Refrigeration	Automatic Door Closers for Walk-in Freezers	Office	2307	Y		Refrigeration Measures	none	Per Door	NA	1780
Refrigeration	Automatic Door Closers for Walk-in Freezers	Office	2307	Y		Refrigeration Measures	none	Per Door	NA	11413
Refrigeration	Automatic Door Closers for Walk-in Freezers	Office	2307	Y		Refrigeration Measures	none	Per Door	NA	13093
Refrigeration	Automatic Door Closers for Walk-in Freezers	School	2307	Y		Refrigeration Measures	none	Per Door	NA	1781
Refrigeration	Automatic Door Closers for Walk-in Freezers	School	2307	Y		Refrigeration Measures	none	Per Door	NA	11414
Refrigeration	Automatic Door Closers for Walk-in Freezers	School	2307	Y		Refrigeration Measures	none	Per Door	NA	13094
Refrigeration	Beverage Machine Control	College/University	1612	Y		Refrigeration Measures	none	Per Unit	NA	1787
Refrigeration	Beverage Machine Control	College/University	1612	Y		Refrigeration Measures	none	Per Unit	NA	11420
Refrigeration	Beverage Machine Control	College/University	1612	Y		Refrigeration Measures	none	Per Unit	NA	13100
Refrigeration	Beverage Machine Control	Medical	1612	Y		Refrigeration Measures	none	Per Unit	NA	1788
Refrigeration	Beverage Machine Control	Medical	1612	Y		Refrigeration Measures	none	Per Unit	NA	11421

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Refrigeration	Beverage Machine Control	Medical	1612	Y		Refrigeration Measures	none	Per Unit	NA	13101
Refrigeration	Beverage Machine Control	Office	1612	Y		Refrigeration Measures	none	Per Unit	NA	1789
Refrigeration	Beverage Machine Control	Office	1612	Y		Refrigeration Measures	none	Per Unit	NA	11422
Refrigeration	Beverage Machine Control	Office	1612	Y		Refrigeration Measures	none	Per Unit	NA	13102
Refrigeration	Beverage Machine Control	School	1612	Y		Refrigeration Measures	none	Per Unit	NA	1790
Refrigeration	Beverage Machine Control	School	1612	Y		Refrigeration Measures	none	Per Unit	NA	11423
Refrigeration	Beverage Machine Control	School	1612	Y		Refrigeration Measures	none	Per Unit	NA	13103
Refrigeration	EC Motor for Reach-in	College/University	344	Y		Refrigeration Measures	none	Per Motor	NA	1751
Refrigeration	EC Motor for Reach-in	College/University	344	Y		Refrigeration Measures	none	Per Motor	NA	11384
Refrigeration	EC Motor for Reach-in	College/University	344	Y		Refrigeration Measures	none	Per Motor	NA	13064
Refrigeration	EC Motor for Reach-in	Medical	344	Y		Refrigeration Measures	none	Per Motor	NA	1752
Refrigeration	EC Motor for Reach-in	Medical	344	Y		Refrigeration Measures	none	Per Motor	NA	11385
Refrigeration	EC Motor for Reach-in	Medical	344	Y		Refrigeration Measures	none	Per Motor	NA	13065
Refrigeration	EC Motor for Reach-in	Office	344	Y		Refrigeration Measures	none	Per Motor	NA	1753
Refrigeration	EC Motor for Reach-in	Office	344	Y		Refrigeration Measures	none	Per Motor	NA	11386
Refrigeration	EC Motor for Reach-in	Office	344	Y		Refrigeration Measures	none	Per Motor	NA	13066
Refrigeration	EC Motor for Reach-in	School	344	Y		Refrigeration Measures	none	Per Motor	NA	1754
Refrigeration	EC Motor for Reach-in	School	344	Y		Refrigeration Measures	none	Per Motor	NA	11387
Refrigeration	EC Motor for Reach-in	School	344	Y		Refrigeration Measures	none	Per Motor	NA	13067
Refrigeration	EC motor for Walk-in	College/University	401	Y		Refrigeration Measures	none	Per Motor	NA	1742
Refrigeration	EC motor for Walk-in	College/University	401	Y		Refrigeration Measures	none	Per Motor	NA	11375
Refrigeration	EC motor for Walk-in	College/University	401	Y		Refrigeration Measures	none	Per Motor	NA	13055
Refrigeration	EC motor for Walk-in	Medical	401	Y		Refrigeration Measures	none	Per Motor	NA	1743
Refrigeration	EC motor for Walk-in	Medical	401	Y		Refrigeration Measures	none	Per Motor	NA	11376
Refrigeration	EC motor for Walk-in	Medical	401	Y		Refrigeration Measures	none	Per Motor	NA	13056
Refrigeration	EC motor for Walk-in	Office	401	Y		Refrigeration Measures	none	Per Motor	NA	1744
Refrigeration	EC motor for Walk-in	Office	401	Y		Refrigeration Measures	none	Per Motor	NA	11377
Refrigeration	EC motor for Walk-in	Office	401	Y		Refrigeration Measures	none	Per Motor	NA	13057
Refrigeration	EC motor for Walk-in	School	401	Y		Refrigeration Measures	none	Per Motor	NA	1745
Refrigeration	EC motor for Walk-in	School	401	Y		Refrigeration Measures	none	Per Motor	NA	11378
Refrigeration	EC motor for Walk-in	School	401	Y		Refrigeration Measures	none	Per Motor	NA	13058
Refrigeration	ENERGY STAR Vending Machine	College/University	1576	Y		Refrigeration Measures	none	Per Unit	NA	1805
Refrigeration	ENERGY STAR Vending Machine	College/University	1576	Y		Refrigeration Measures	none	Per Unit	NA	11438
Refrigeration	ENERGY STAR Vending Machine	College/University	1576	Y		Refrigeration Measures	none	Per Unit	NA	13118
Refrigeration	ENERGY STAR Vending Machine	Medical	1576	Y		Refrigeration Measures	none	Per Unit	NA	1806
Refrigeration	ENERGY STAR Vending Machine	Medical	1576	Y		Refrigeration Measures	none	Per Unit	NA	11439
Refrigeration	ENERGY STAR Vending Machine	Medical	1576	Y		Refrigeration Measures	none	Per Unit	NA	13119
Refrigeration	ENERGY STAR Vending Machine	Office	1576	Y		Refrigeration Measures	none	Per Unit	NA	1807
Refrigeration	ENERGY STAR Vending Machine	Office	1576	Y		Refrigeration Measures	none	Per Unit	NA	11440
Refrigeration	ENERGY STAR Vending Machine	Office	1576	Y		Refrigeration Measures	none	Per Unit	NA	13120
Refrigeration	ENERGY STAR Vending Machine	School	1576	Y		Refrigeration Measures	none	Per Unit	NA	1808
Refrigeration	ENERGY STAR Vending Machine	School	1576	Y		Refrigeration Measures	none	Per Unit	NA	11441
Refrigeration	ENERGY STAR Vending Machine	School	1576	Y		Refrigeration Measures	none	Per Unit	NA	13121

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Refrigeration	Evaporative Fan Control	College/University	478	Y		Refrigeration Measures	none	Per Motor	NA	1769
Refrigeration	Evaporative Fan Control	College/University	478	Y		Refrigeration Measures	none	Per Motor	NA	11402
Refrigeration	Evaporative Fan Control	College/University	478	Y		Refrigeration Measures	none	Per Motor	NA	13082
Refrigeration	Evaporative Fan Control	Medical	478	Y		Refrigeration Measures	none	Per Motor	NA	1770
Refrigeration	Evaporative Fan Control	Medical	478	Y		Refrigeration Measures	none	Per Motor	NA	11403
Refrigeration	Evaporative Fan Control	Medical	478	Y		Refrigeration Measures	none	Per Motor	NA	13083
Refrigeration	Evaporative Fan Control	Office	478	Y		Refrigeration Measures	none	Per Motor	NA	1771
Refrigeration	Evaporative Fan Control	Office	478	Y		Refrigeration Measures	none	Per Motor	NA	11404
Refrigeration	Evaporative Fan Control	Office	478	Y		Refrigeration Measures	none	Per Motor	NA	13084
Refrigeration	Evaporative Fan Control	School	478	Y		Refrigeration Measures	none	Per Motor	NA	1772
Refrigeration	Evaporative Fan Control	School	478	Y		Refrigeration Measures	none	Per Motor	NA	11405
Refrigeration	Evaporative Fan Control	School	478	Y		Refrigeration Measures	none	Per Motor	NA	13085
Refrigeration	LED Refrigeration Case Lighting	College/University	375	Y		Refrigeration Measures	none	Per Door	NA	1814
Refrigeration	LED Refrigeration Case Lighting	College/University	375	Y		Refrigeration Measures	none	Per Door	NA	11447
Refrigeration	LED Refrigeration Case Lighting	College/University	375	Y		Refrigeration Measures	none	Per Door	NA	13127
Refrigeration	LED Refrigeration Case Lighting	Medical	375	Y		Refrigeration Measures	none	Per Door	NA	1815
Refrigeration	LED Refrigeration Case Lighting	Medical	375	Y		Refrigeration Measures	none	Per Door	NA	11448
Refrigeration	LED Refrigeration Case Lighting	Medical	375	Y		Refrigeration Measures	none	Per Door	NA	13128
Refrigeration	LED Refrigeration Case Lighting	Office	375	Y		Refrigeration Measures	none	Per Door	NA	1816
Refrigeration	LED Refrigeration Case Lighting	Office	375	Y		Refrigeration Measures	none	Per Door	NA	11449
Refrigeration	LED Refrigeration Case Lighting	Office	375	Y		Refrigeration Measures	none	Per Door	NA	13129
Refrigeration	LED Refrigeration Case Lighting	School	375	Y		Refrigeration Measures	none	Per Door	NA	1817
Refrigeration	LED Refrigeration Case Lighting	School	375	Y		Refrigeration Measures	none	Per Door	NA	11450
Refrigeration	LED Refrigeration Case Lighting	School	375	Y		Refrigeration Measures	none	Per Door	NA	13130
Refrigeration	Refrigeration Economizer	College/University	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	1760
Refrigeration	Refrigeration Economizer	College/University	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	11393
Refrigeration	Refrigeration Economizer	College/University	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	13073
Refrigeration	Refrigeration Economizer	Medical	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	1761
Refrigeration	Refrigeration Economizer	Medical	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	11394
Refrigeration	Refrigeration Economizer	Medical	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	13074
Refrigeration	Refrigeration Economizer	Office	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	1762
Refrigeration	Refrigeration Economizer	Office	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	11395
Refrigeration	Refrigeration Economizer	Office	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	13075
Refrigeration	Refrigeration Economizer	School	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	1763
Refrigeration	Refrigeration Economizer	School	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	11396
Refrigeration	Refrigeration Economizer	School	1135	Y	PY2 Value	Refrigeration Measures	none	Per Compressor H	NA	13076
Refrigeration	Snack Machine Control	College/University	387	Y		Refrigeration Measures	none	Per Unit	NA	1796
Refrigeration	Snack Machine Control	College/University	387	Y		Refrigeration Measures	none	Per Unit	NA	11429
Refrigeration	Snack Machine Control	College/University	387	Y		Refrigeration Measures	none	Per Unit	NA	13109
Refrigeration	Snack Machine Control	Medical	387	Y		Refrigeration Measures	none	Per Unit	NA	1797
Refrigeration	Snack Machine Control	Medical	387	Y		Refrigeration Measures	none	Per Unit	NA	11430
Refrigeration	Snack Machine Control	Medical	387	Y		Refrigeration Measures	none	Per Unit	NA	13110
Refrigeration	Snack Machine Control	Office	387	Y		Refrigeration Measures	none	Per Unit	NA	1798

IncentiveType Description	Description	Applicant	KWh per unit DCEO default	Same as ComEd ? (Y/N)	ComEd Default Year (blank if =ComEd PY3 default value)	IncentiveSubType Description	SizeCategory Description	UnitOfMeasure Description	Efficiency Description	SavingsMeasureId
Refrigeration	Snack Machine Control	Office	387	Y		Refrigeration Measures	none	Per Unit	NA	11431
Refrigeration	Snack Machine Control	Office	387	Y		Refrigeration Measures	none	Per Unit	NA	13111
Refrigeration	Snack Machine Control	School	387	Y		Refrigeration Measures	none	Per Unit	NA	1799
Refrigeration	Snack Machine Control	School	387	Y		Refrigeration Measures	none	Per Unit	NA	11432
Refrigeration	Snack Machine Control	School	387	Y		Refrigeration Measures	none	Per Unit	NA	13112
Refrigeration	Strip Curtains on Walk-Ins	College/University	139	Y		Refrigeration Measures	none	Per Square Foot	NA	1508
Refrigeration	Strip Curtains on Walk-Ins	College/University	139	Y		Refrigeration Measures	none	Per Square Foot	NA	11357
Refrigeration	Strip Curtains on Walk-Ins	College/University	139	Y		Refrigeration Measures	none	Per Square Foot	NA	13037
Refrigeration	Strip Curtains on Walk-Ins	Medical	139	Y		Refrigeration Measures	none	Per Square Foot	NA	1509
Refrigeration	Strip Curtains on Walk-Ins	Medical	139	Y		Refrigeration Measures	none	Per Square Foot	NA	11358
Refrigeration	Strip Curtains on Walk-Ins	Medical	139	Y		Refrigeration Measures	none	Per Square Foot	NA	13038
Refrigeration	Strip Curtains on Walk-Ins	Office	139	Y		Refrigeration Measures	none	Per Square Foot	NA	1510
Refrigeration	Strip Curtains on Walk-Ins	Office	139	Y		Refrigeration Measures	none	Per Square Foot	NA	11359
Refrigeration	Strip Curtains on Walk-Ins	Office	139	Y		Refrigeration Measures	none	Per Square Foot	NA	13039
Refrigeration	Strip Curtains on Walk-Ins	School	139	Y		Refrigeration Measures	none	Per Square Foot	NA	1511
Refrigeration	Strip Curtains on Walk-Ins	School	139	Y		Refrigeration Measures	none	Per Square Foot	NA	11360
Refrigeration	Strip Curtains on Walk-Ins	School	139	Y		Refrigeration Measures	none	Per Square Foot	NA	13040

5.5 *Smart Energy Design Assistance Program Review*

5.5.1 Evaluation Objectives

To DCEO Standard evaluation team was given the task of conducting a preliminary assessment of the energy savings attributable to technical assistance provided to public and private sector clients through the Smart Energy Design Assistance Program that are not being reported by Ameren Illinois, ComEd, or DCEO for Energy Efficiency Portfolio Standard (EEPS) participation. The objectives of this task consisted of the following:

Reviewing the SEDAP program and the technical basis for claimed savings

Reviewing tracking data to assess reasonableness and functionality for evaluation

Developing an estimate of an ex ante energy savings claim for the SEDAP effort

As a pilot effort, estimate energy savings claimable by SEDAP for PY3 based on a "desk review" of tracking data

Assessing the SEDAP program approach and data to identify gross and net verification approaches that can be deployed in future program years

The outcome of this effort is intended to support evaluation planning for a rigorous assessment of gross and net savings, if warranted.

5.5.2 Program Overview

The Smart Energy Design Assistance Center (SEDAC), implemented by the University of Illinois Building Research Council in partnership with the 360 Energy Group, provides outreach, training, and design assistance to Illinois businesses and public entities in energy efficiency. SEDAC was originally developed in 2005 by the State of Illinois, Department of Commerce and Economic Opportunity (DCEO). In response to growing energy costs and in support of Illinois businesses, DCEO developed the Small Business Smart Energy Program (SB$E), now called the Smart Energy Design Assistance Program (SEDAP).

In June 2008, under the Illinois Energy Efficiency Portfolio Standard (EEPS), the SEDAC program sponsorship expanded to include Ameren Illinois Utilities and ComEd and began offering program services to public sector buildings including municipal, state, federal, and educational facilities. As of June 30, 2011, the Illinois Smart Energy Design Assistance Program has provided information and support to 2,377 Illinois clients.

At no charge to the participants, the Smart Energy Design Assistance Program can provide energy efficiency advice or an in-depth building energy assessment to most Illinois business

and public entities with buildings greater than 20,000 square feet. Services are offered in four levels:

LEVEL 1: Quick Advice, No Application Required – Immediate advice offered over the telephone or by email, regarding the Smart Energy Design Assistance Program, energy efficiency technical questions, or to assess the need for program services. No eligibility requirements.

LEVEL 2: Energy Assessment – Application Required – Recommendations specific to the applicant's building. Some criteria apply, including potential for energy savings and the availability of needed building information. Priority is given to applicants who are ready to implement energy recommendations. Services include:

- The building energy assessment includes a list of recommended energy cost reduction measures (ECRMs) for the applicant's building.
- The assessment may cover the whole building or may address a specific need. Savings potential may or may not be quantified. Energy assessments for an existing facility may include a site visit, which are arranged after bills and plans are received and analyzed.

LEVEL 3: Design Assistance — In addition to the Level 2 analysis, the project leader does deeper analysis to assess complex buildings more fully, typically including a life cycle cost analysis to identify energy cost reduction measures (ECRMS) and potential savings.

- Assessment will include results and analyses using an energy simulation model.
- A cost-benefit analysis for upgrades will be performed to prioritize the ECRMs.

LEVEL 4: Implementation Assistance – Follow-up advice to program participants to assist with implementation of recommended energy cost reduction measures, such as advice on specific technical questions, help finding alternative financing assistance, and bid process support.

The source of energy savings estimates for the SEDAP program originates with the implementation of measures identified in the technical services provided at Level 2 and Level 3 assistance. SEDAC does not attempt to identify energy savings from delivery of Level 1 services, and Level 4 services provide support for savings identified at Level 2 and Level 3.

5.5.3 Evaluation Methods

This section describes the analytic methods and data collection activities implemented as part of the assessment of savings claimed as a result of SEDAP services. Key evaluation activities were:

The evaluation team conducted one telephone call with SEDAC staff responsible for SEDAP oversight, implementation, and data tracking. This call took place in August of 2011 and covered program delivery, the typical measures recommended, the technical basis for savings

estimates, quality control procedures, the follow-up approach used to identify implemented savings, data tracking, and other issues related to verification of measures.

Reviewed a sample Level 3 Feasibility Report for Energy Evaluation and Recommendations from a SEDAC site visit conducted in May 2010 of a public library, resulting in a report was sent out in August 2010.[27] The report and analysis focused on energy saving opportunities and life cycle cost estimates for various energy cost reduction measures (ECRMs). The report presented recommendations for energy saving investments resulting from the analysis, along with the methods and assumptions used.

Reviewed program activity tracking data from SEDAC that identified estimated savings at the project-level for recommended measures and customer-reported implemented measures, plus key dates, implementation status, and participant information.[28]

Reviewed the SEDAP Implementation Success Report from June 30, 2011. [29]

Analyzed data to generate an ex ante estimate of the gross impact of SEDAP services for PY3.

Outlined a verification approach and related issues.

5.5.4 Impact Evaluation Findings

Evaluation findings are summarized below.

Technical Basis for Claimed Savings Review

To review the technical basis for claimed savings, we discussed analysis methods with SEDAC, reviewed tracking data and the latest Implementation Success Report, and reviewed an example of a Level 3 audit report. The purpose of this task was to assess whether the claimed savings have a reasonable technical basis and can be verified.

The public library receiving the analysis report was built in 2004 and was approximately 100,000 square feet. The library analysis report totaled 39 pages and was the output of a comprehensive audit covering gas and electric energy saving opportunities. The report provided documentation on analysis approach, facility description including energy consuming electrical and mechanical systems, an analysis of energy consumption and bills, billed versus modeled energy consumption, and measure-level analysis and discussion of each energy

[27] Data provided by email communication from Donald Fournier, September, 2011.
[28] Data provided by email communication from Donald Fournier, September, 2011.
[29] Data provided by email communication from Donald Fournier, September, 2011.

savings recommendation. The report identified funding opportunities, including in this case the DCEO PSEE program.

Energy analysis for this project was conducted by SEDAC using Trane Trace simulation software. Model results were calibrated with energy bills. The audit report had sufficient detail that it would be possible to generate ex ante savings estimates for DCEO Standard lighting and vending machine control measures using program default values. Baseline reconstruction on more complex custom and retrocommissioning measures creates a greater challenge. Baseline conditions are described in some detail, but some measures involve findings of adjustments to control settings that can be readily fixed without a record of baseline or post-retrofit conditions, other than in the audit report. Trane Trace has capabilities to produce input parameter reports, which could be used in verification if the modeling files are still available. To verify savings for a specific project, we would request the audit report, modeling software parameter reports, and other project files.

We conclude that the energy savings estimates are reasonable for ex ante claims. If drawn as part of a sample, the audit report plus additional information should provide sufficient detail to develop an M&V plan for verification. The electric equipment retrofit recommendations that are typical of the DCEO Standard or utility prescriptive rebate programs, such as one-for-one lighting equipment replacements, should be readily verifiable because baseline descriptions, quantities, and operating strategies are provided in the client report. Impacts for custom and retrocommissioning type measures could have verified gross realization rates above or below 1.00, but SEDAC uses hourly simulation software or Excel models to generate savings estimates using site specific inputs, so there is a reasonable basis for ex ante estimates. Baseline reconstruction for custom and retrocommissioning measures may be challenging, but the analysis captures data to calibrate a baseline simulation against energy bills, so we would expect to identify key baseline parameters in most cases.

Tracking System Data Review

The tracking data provided by SEDAC was reviewed for reasonableness and functionality for use in verifying impact claims.

The tracking data provided covered the PY1 through PY3 period of EEPS programs. The earliest delivery date of a completed report was March 6, 2008, and two other reports were delivered before June 2008. Although those dates are prior to the start of PY1 on June 1, 2008, there is a lag between receipt of a SEDAP report and measure implementation, so installed measures would be occurring after the start of PY1. SEDAC continues to track implementation of measures based on structured protocol of regular follow-up through communication with clients that may continue for three years, if the client indicates ongoing interest and progress.

This time lag between audit and implementation creates a challenge for verification. Although some clients receive their reports and implement measures within an EEPS program year, most SEDAP implementation occurs over multiple program years. Measures implemented in PY3 may have been identified in PY1, PY2, or PY3. Further, measures implemented in PY3 at a project site may be incremental to measures implemented in previous program years. Due to time lag, sampling would need to consider the status of clients with reports delivered back to PY1. Clients who stay active in implementing measures would stay in the sample frame, even those evaluated in a previous year.

The tracking data provided by SEDAC included the following elements relevant to verification:

- Project-level status data includes project ID code, company name, utility, whether public or private, date report sent, report status, implementation status, and EEPS incentive received (true/false) by program year.
- Measure-level status data includes individual ECRMs identified for each project, noting measure name, implementation status of the measure, modeling approach, end-use designation, and notes from the SEDAC project lead on status (some with follow-up dates).
- Project-level impact data includes project-level status data, plus building square feet, overall implementation status, project total estimated savings (gas and electric) for recommended measures, project total estimated savings for implemented measures, project cost and dollar savings, client contact name and telephone number, SEDAC project lead, construction and client type, and notes.

Although projects record measure-level implementation status, it is generally not possible to identify exactly when a measure was implemented. There is no requirement made of the client to implement measures, and no incentive through SEDAP to implement or report measures. SEDAC does encourage measure reporting, and follow-up is conducted on a regular basis by SEDAC project leads, typically every 3 to 9 months. Measures can move from "reviewing" to "implemented" during that the follow-up window, so assigning an implemented measure to a program year is only approximate. Dates are sometimes provided.

Although SEDAC attempts to identify whether a client has taken advantage of EEPS incentive programs, this should be verified for each measure prior to conducting evaluation verification of SEDAP savings. The tracking database and audit reports would provide enough information to identify a customer, the premise, and measure descriptions, and this could be checked against DCEO, Ameren, or ComEd participation records.

The SEDAP approach to identifying implemented measures creates a challenge for verifying savings for any specific EEPS program year, because the tracking data is not does define a program year population of implemented measures with certainty.

To avoid double counting of savings, it would be necessary to include measures that were implemented but did not receive an incentive ***and*** ensure that measures implemented are no longer eligible for an EEPS incentive.

If the contact information is up-to-date, the tracking data would be sufficient to conduct a telephone survey of SEDAP participants regarding their experiences with the program, and confirm basic measure level information. Net-to-gross questions could also be asked, however, there could be up to three years between report delivery and the telephone interview.

Estimate of Ex Ante Savings for SEDAP Technical Services

The tracking data provided by SEDAC was reviewed to estimate ex ante energy savings for electric efficiency measures implemented through SEDAP. Results are shown for two scenarios:

- A "Same Year" scenario that tracks measures implemented in the same year the client report was delivered (PY3), as shown in Table 5-3.
- A "Cumulative" scenario that attempts to estimate implemented savings as of June 30, 2011 from client reports delivered during the PY1 through PY3, as shown in Table 5-4.

The estimated savings show the implementation status of recommended measures in seven tracked categories. Three categories, "implemented," "starting implementation," and "no implementation" are categories where the client has made a decision and communicated that to SEDAC. The remaining four status categories indicate either that the client is engaged in planning or review of recommendations or has not communicated their intentions to SEDAC. The estimated savings is shown in two categories – the project-level savings recommended in the audit report, and the estimated savings of measures that clients reported were implemented.

As shown in Table 5-3, reports were delivered to 190 clients of SEDAP during the year that approximately coincides with EEPS PY3 (we included reports delivered through June 30, 2011 to be consistent with SEDAC reported data). From the reports delivered, 40 clients reported to SEDAC that they had implemented one or more measures (13 clients) or had started implementing measures (27 clients). These 40 clients had a total of 11.56 million kWh of energy saving measures recommended to them, and had implemented or started implementing 4.77 million kWh of energy savings. The "same-year" estimated savings of 4.77 million kWh is 11 percent of total savings identified in reports delivered in PY3.

Comparing Table 5-3 with Table 5-4, one can see the large lag that occurs between report delivery and measure implementation. The "cumulative" implemented savings of Table 5-4 is 26.28 million kWh, from the period covering reports delivered in PY1 through June 30, 2011. During that period, the cumulative recommended savings was 145.98 million kWh.

Table 5-3. PY3 SEDAP Estimated Savings from EEPS Clients (Same-Year Implementation)

Implementation Status of Reports Issued in PY3			Project-Level Estimated Savings - Recommended in Report				Measure-level Estimated Savings With Decision to Implement in PY3			
Ending 6/30/11	Client Count	% Clients	kWh	% kWh	kW	% kW	kWh	% of Rec.	kW	% of Rec.
Implemented*	13	7%	3,091,265	7%	546	7%	2,199,165	71%	425	78%
Starting implementation	27	14%	8,467,838	20%	1,606	22%	2,573,769	30%	362	23%
Planning to implement	33	17%	5,175,216	12%	1,025	14%				
Reviewing recommendations	101	53%	24,630,770	59%	4,066	55%				
No implementation	6	3%	279,109	1%	44	1%				
No Information - Unreachable	2	1%	132,948	0%	61	1%				
Unknown Status	8	4%	-	0%	-	0%				
TOTAL	190	100%	41,777,146	100%	7,348	100%	4,772,934	11%	787	11%

Source: Navigant analysis of SEDAP tracking data.

Table 5-4. PY3 SEDAP Estimated Savings from EEPS Clients (Cumulative PY1-PY3 Implementation)

Implementation Status of Reports Issued PY1-PY3			Project-Level Estimated Savings – Recommended in Report				Measure-level Estimated Savings With Decision to Implement as of 6/30/11			
Ending 6/30/11	Client Count	%	kWh	% kWh	kW	% kW	kWh	% of Rec.	kW	% of Rec.
Implemented*	131	25%	40,130,314	27%	5,312	19%	20,775,088	52%	3,542	67%
Starting implementation	73	14%	25,247,111	17%	4,601	16%	5,500,203	22%	996	22%
Planning to implement	80	15%	26,393,644	18%	4,019	14%				
Reviewing recommendations	164	31%	47,587,807	33%	6,818	24%				
No implementation	26	5%	2,065,121	1%	690	2%				
No Information - Unreachable	17	3%	4,369,150	3%	6,725	24%				
Unknown Status	30	6%	184,747	0%	67	0%				
TOTAL	521	100%	145,977,894	100%	28,232	100%	26,275,291	18%	4,538	16%

Source: Navigant analysis of SEDAP tracking data.

The implemented measure savings includes projects that have received an EEPS incentive, as well as those that have not. The tracking data indicated that 37 clients had taken advantage of an EEPS incentive program in either PY1 (6 instances), PY2 (8 instances) or PY3 (26 instances) including three that had participated in multiple years. Although it would have been possible to filter out measures the SEDAC had identified as receiving EEPS incentives, we included all measures in the tables because it provides a more complete picture of the scale of the SEDAP effort statewide. Separating EEPS rebated from non-rebated measures is a critical step in verifying the savings claim for SEDAP, therefore, we believe the population for verification should include both measure categories.

SEDAP Impact Verification Estimate

In PY3, a pilot effort within the Standard program evaluation was made to quantify energy savings implemented as a result of technical services provided by the Smart Energy Design Assistance Center (SEDAC) through the Smart Energy Design Assistance Program (SEDAP). The evaluation assessment was conducted to identify savings resulting from SEDAC services that have not been claimed through incentive programs operated by DCEO, ComEd, or Ameren Illinois.

Based on desk-review of SEDAC tracking data, our evaluation assessment concluded SEDAP is generating energy savings that are not being claimed by other programs. The measures recommended through SEDAP include equipment retrofits and operational improvements. The measures we believe are not being claimed by other programs include equipment retrofits that are not eligible for prescriptive or custom rebates, and operational improvements. The implementation of savings is estimated by SEDAC staff from regular follow-up with service recipients who identify progress on implementing audit report recommendations. The tracking records suggest that SEDAC staff is effective at steering technical service recipients to ComEd, Ameren Illinois, and DCEO programs for incentives on eligible measures.

Our evaluation review consisted of reviewing SEDAC measure-level tracking data for each of the 40 projects with PY3 service recipients who reported completing or starting measure implementation.[30] Where recipients had reported completing the measure implementation process, we could identify measures assignable as unclaimed SEDAP savings from measures that had been submitted for EEPs incentives. Only a small portion of savings potentially assignable to SEDAP fell into this category. The bulk of potential SEDAP claimable savings implemented by service recipients could not be separated and verified at the measure level from savings potentially claimed by an EEPs incentive program because action on recommendations were partially implemented and still ongoing. Verification would require project documentation review and site-specific data collection by the evaluation team once the

[30] For this estimate, we use the population of projects with reports delivered June 1, 2010 through May 31, 2011.

SEDAP participant had concluded work on the audit recommendations. Table 5-5 provides a summary of our assessment of SEDAC tracking data.

Table 5-5. Overall Verified and Potential Energy Savings Claimable through SEDAP Services

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	7	1,375,147		-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	10	-	146,813	-	905,554
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	3	113,852	-	-	1,001,609
PY3 Implementation in-progress	20	444,448	-	2,692,674	4,936,020
SEDAP PY3 services provided, implementation not begun	139				30,161,029
Subtotal, All SEDAP PY3 services	**179**	**1,933,447**	**146,813**	**2,692,674**	**37,004,212**
Subtotal, All SEDAP PY1 and PY2 services	**342**			**21,502,357**	**82,698,391**
Total, All SEDAP services, PY1 through PY3	**521**	**1,933,447**	**146,813**	**24,195,031**	**119,702,603**

Source: Evaluation analysis of tracking data provided by SEDAC.

The 146,813 kWh of desk review verified savings from SEDAP in PY3 shown in Table 5-5 consists only of savings resulting from technical services provided during PY3. A second block of PY3 implemented energy savings totaling 1,375,147 kWh was identified by SEDAC as

measures that had participated in an EEPs incentive program. The third and largest category PY3 implemented energy savings totaling 2,692,674 kWh involved projects where the contact had indicated implementation was in-progress. Table 5-6 through Table 5-9 provide a detailed breakdown of the SEDAP projects by utility and projects installed at private or public facilities.

Table 5-6. ComEd Verified and Potential Energy Savings Claimable through SEDAP Services (Public)

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	-	-		-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	1	-	5,820	-	56,813
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	2	29,826	-	-	497,737
PY3 Implementation in-progress	5	-	-	687,959	1,045,678
SEDAP PY3 services provided, implementation not begun	44				10,313,911
Subtotal, All SEDAP PY3 services	**52**	**29,826**	**5,820**	**687,959**	**11,914,139**
Subtotal, All SEDAP PY1 and PY2 services	**89**			**4,949,908**	**22,836,253**
Total, All SEDAP services, PY1 through PY3	**141**	**29,826**	**5,820**	**5,637,867**	**34,750,392**

Source: Evaluation analysis of tracking data provided by SEDAC.
**Note: The private facilities include facilities identified with private non-profit organizations.*

Table 5-7. ComEd Verified and Potential Energy Savings Claimable through SEDAP Services (Private)

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	-	-	-	-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	-	-	-	-	-
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	1	84,026	-	-	503,872
PY3 Implementation in-progress	4	-	-	1,847,851	1,993,067
SEDAP PY3 services provided, implementation not begun	22				9,928,477
Subtotal, All SEDAP PY3 services	**27**	**84,026**	-	**1,847,851**	**12,425,416**
Subtotal, All SEDAP PY1 and PY2 services	**108**			**4,646,685**	**26,676,949**
Total, All SEDAP services, PY1 through PY3	**135**	**84,026**	-	**6,494,536**	**39,102,365**

Source: Evaluation analysis of tracking data provided by SEDAC.
**Note: The private facilities include facilities identified with private non-profit.*

About 4% of the verified savings (146,813 kWh) resulting from technical services provided during PY3 were from projects in public facilities in the ComEd territory, and the remaining is split 59% and 37% respectively for the public and private facilities in the Ameren territory.

Table 5-8. Ameren Verified and Potential Energy Savings Claimable through SEDAP Services (Public)

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	7	1,375,147		-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	6	-	86,489	-	606,431
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	-	-	-	-	-
PY3 Implementation in-progress	5	444,448	-	-	448,342
SEDAP PY3 services provided, implementation not begun	48				6,315,378
Subtotal, All SEDAP PY3 services	**66**	**1,819,595**	**86,489**	-	**7,370,151**
Subtotal, All SEDAP PY1 and PY2 services	**74**			**5,890,956**	**18,794,625**
Total, All SEDAP services, PY1 through PY3	**140**	**1,819,595**	**86,489**	**5,890,956**	**26,164,776**

Source: Evaluation analysis of tracking data provided by SEDAC.

Table 5-9. Ameren Verified and Potential Energy Savings Claimable through SEDAP Services (Private)

Evaluation Assessment Category	Project Count	Implemented Savings, kWh			Measure not yet implemented, assignment to EEPs or SEDAP to be determined, kWh
		EEPs, "desk verified"	SEDAP, "desk verified"	EEPs or SEDAP, to be verified	
PY3 Implementation completed, EEPs savings claimed	-	-		-	-
PY3 Implementation completed on measures claimable by SEDAP, with some measures not yet implemented	3	-	54,504	-	242,310
PY3 Implementation completed on measures claimable by EEPs, with some measures not yet implemented	-	-	-	-	-
PY3 Implementation in-progress	6	-	-	156,864	1,448,933
SEDAP PY3 services provided, implementation not begun	25				3,603,263
Subtotal, All SEDAP PY3 services	**34**	-	**54,504**	**156,864**	**5,294,506**
Subtotal, All SEDAP PY1 and PY2 services	**71**			**6,014,808**	**14,390,564**
Total, All SEDAP services, PY1 through PY3	**105**	-	**54,504**	**6,171,672**	**19,685,070**

Source: Evaluation analysis of tracking data provided by SEDAC.
**Note: The private facilities include facilities identified with private non-profit organizations.*

The PY3 implemented energy savings of 1,375,147 kWh identified by SEDAC as measures that had participated in an EEPs incentive program were from public facilities in the Ameren territory. About 94% of PY3 implemented energy savings (2,692,674 kWh) where the contact had indicated implementation was in-progress came from ComEd, mostly from private facilities.

Although some measures had been implemented, we could not verify from the data how much of the savings to assign to SEDAP versus measures that could be counted toward EEPs. On some projects, additional detail from SEDAC to provide implemented savings on a measure level would allow us to categorize measures as either SEDAP claimable or EEPs even if work was still ongoing at the facility. In other cases, we would need to wait until EEPs eligible work at the facility had been completed in order to make a determination due to the complexity of the project and potential for measure interactions.

Our review of SEDAP tracking data indicated that approximately 21,502 MWh of energy savings measures from SEDAP services provided during PY1 and PY2 were reported implemented by the end of PY3. It was not possible to quantify SEDAP claimable savings for PY3 from services provided in PY1 and PY2 from the data. It may be possible to quantify implemented savings from prior year's technical services through site-specific data collection.

5.5.5 Key Conclusions and Recommendations

Evaluation team review of SEDAP services and tracking data supports a finding that there is a reasonable basis for asserting that SEDAP technical assistance results in implementation of electric energy saving measures. Some of the measures identified are implemented with incentives from an EEPS program and would be tracked and counted through those programs, while SEDAP clients also indicate implementation of measures that have not received an EEPS incentive, and are therefore not tracked by ComEd, Ameren Illinois, or DCEO.

An attempt was made to verify SEDAP claimable savings through desk review of tracking system data, summarized in Table 5-5. Based on our desk review of SEDAC tracking data, measure savings claimable for SEDAP are similar to those implemented through the retrocommissioning program offered by DCEO. To estimate the size of potential net savings from SEDAC services, we recommend the gross energy realization rate (0.795) and net-to-gross ratio (0.98) from the PY3 Retrocommissioning evaluation be applied to evaluation verified savings. Applying these ratios to the 146,813 kWh of evaluation verified gross ex ante savings for SEDAP yields 114,382 kWh of verified net savings that could be claimed for SEDAP in PY3. With additional measure-level savings data from SEDAC and site verification by evaluators on a sample of the 2,692,674 kWh recommended and implemented in PY3 plus PY3 implementation from prior years' services, the evaluation verified savings for SEDAP in PY3 could be much higher.

Our review did not include sampling and site-level data collection that would allow us to verify all savings reported as implemented by SEDAP service recipients, however, there is sufficient project and measure-level data from SEDAC that such an effort could be pursued. The savings impact shown in Table 5-3 and Table 5-4 provide an estimate of the population of projects from which a verification sample could be drawn. To determine an ex ante basis for savings attributable to the SEDAP program not already counted in an EEPS incentive program, it would be necessary to review each project in the population of projects with implemented measures, and verify with ComEd, Ameren Illinois, and DCEO whether they had participated, and if so, with which measures. One would then need to subtract out measures that had received an EEPS incentive (or were still eligible to receive an incentive) to end up with an estimate of ex ante gross savings implemented as a result of SEDAP without EEPS incentives. The ex-ante gross estimate could then be verified for gross and net impacts. The gross impacts could be verified through sampling and conducting evaluation site visits, and the net-to-gross ratio could be estimated through telephone interviews.