

Ameren Illinois Energy Efficiency Market Potential Assessment

Report Number 1404

Volume 2: Market Research

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Ameren Illinois

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INTRODUCTION

Background

Ameren Illinois contracted with EnerNOC to conduct an electricity and natural gas Energy Efficiency (EE) Market Potential study covering the period of performance from June 1, 2014 through May 31, 2017 to aid the development of a three-year plan for programs implemented by Ameren Illinois in Cycle 3. In addition, the analysis also included the period of performance from June 1, 2017 through May 31, 2024 to aid in benchmarking and other tasks related to future analyses. This study identifies the potential to achieve the kWh and therm annual load reduction targets within the rated caps identified in Sections 8-103 and 8-104 of the Illinois Public Utilities Act. In addition, the electric component of the study identifies the potential to achieve additional kWh savings per Section 5/16-111.5Bnew of the Act absent rate cap limitations. This comprehensive study includes primary market research, a full demand side management (DSM) potential analysis for electricity and natural gas, energy efficiency program design, supply curve development, and analysis of wasted energy.

EnerNOC teamed with YouGov|Definitive Insights and Washington University in St. Louis to perform saturation surveys and program-interest research with Ameren Illinois customers. The EnerNOC team worked in collaboration with Applied Energy Group who, under separate contract with Ameren Illinois, performed the program analysis. This report represents the combined effort of these four organizations. This volume focuses on the results of the primary market research conducted with YouGov | Definitive Insights.

Objectives

Ameren Illinois is investigating the market potential for a wide variety of Demand Side Management (DSM) options by completing a comprehensive DSM Study which consists of three primary components: market research, a full DSM potential analysis, and quantification of wasted energy due to customer behavior. The market research component has collected electricity and natural gas end-use data, end-use saturation data, customer demographics and psychographic information that will provide insight on how Ameren Illinois customers make decisions related to electric and natural gas usage and energy efficiency investment decisions. This report describes the outcomes of that market research effort.

Broad questions embedded in this phase of this research that will help Ameren Illinois better understand energy-efficiency potential include:

- How likely are customers to participate in various electric- or natural gas-related energy efficiency programs Ameren Illinois is considering offering?
- Which of these energy efficiency measures offer the highest likely participation rates?
- How does likelihood to participate differ by payback period for customers?
- What overall demographic/firmographic and psychographic characteristics correspond to a higher likelihood to participate in energy efficiency programs?
- What segments can be derived within each sector, and how do these segments differ in terms of their impact on the likelihood to participate, as well as on customer demographic/firmographic and psychographic characteristics?
- Which of these segments represent the best opportunities for Ameren Illinois to focus their marketing on?
- What messaging strategies would likely be useful to help foster participation among these high opportunity segments?

Report Organization

This report is presented in 6 volumes as outlined below. This document is **Volume 2: Market Research Report**.

- Volume 1, Executive Summary
- Volume 2, Market Research Report
- Volume 3, Energy Efficiency Potential Analysis
- Volume 4, Program Analysis
- Volume 5, Supply Curves
- Volume 6, EE Potential Analysis Appendices

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RESIDENTIAL METHODOLOGY

This section covers sample design, questionnaire development and data analysis for the residential sector.

Sample Design

Ameren Illinois provided the EnerNOC team with billing data for all residential and business customers. This customer data included a variety of information for each customer, including name, address, annual kWh usage, annual therm usage, division, account number, etc. The EnerNOC team created a sample design with 48 separate sample cells – against which survey responses were targeted and monitored, and which took into account gas usage, electric usage and region / climate zone - which was implemented separately and independently for each of the two surveys (the Program Interest survey and the Saturation survey).

The EnerNOC team generated a total of approximately 42,000 randomly selected households distributed across six separate and independent sample tranches (three per survey). In total, postcard invitations were mailed to the households included in sample tranches one and two for the Program Interest survey and tranches one and two for the Saturation survey (with approximately 13,000 postcards mailed for each of the two surveys). Postcards invited respondents to go online and complete the survey. Customers were offered a \$10 check for completing the survey. Although the team prepared for three tranches, the sample targets were hit with tranche 2 respondents.

In order to qualify to complete the survey, respondents had to meet the following criteria:

- Must have primary or shared responsibility for making energy-related decisions
- Must be at least 18 years old
- Must not work for a gas or electric utility company and must not have a household member that works for a gas or electric utility company
- Must be billed for electricity or natural gas directly by Ameren Illinois

A total of 749 Ameren Illinois Residential customers completed the Program Interest survey, while 726 completed the Saturation survey.

- Approximately 88% of those who attempted to complete the survey qualified based on applying the criteria above.
- The overall net response rate was approximately 8%
- Approximately 14% of those who started the surveys abandoned them before completing the survey.
- Average online survey length was about 25-30 minutes depending on the survey

Questionnaires

The **Program Interest** questionnaire was designed to cover multiple content areas, including:

- 1. Screening questions
- 2. Description of major end uses in the household
- 3. Attitudes toward Ameren Illinois
- 4. Attitudes toward using energy
- 5. Energy efficiency measures implemented to-date (with a focus on lighting)
- 6. Attitudes toward appliance purchasing
- 7. Interest in potential EE programs that could be offered by Ameren Illinois
- 8. Attitudes toward shopping
- 9. Demographics

The **Saturation** questionnaire was designed to cover multiple content areas, including:

- 1. Screening questions
- 2. Description of household structure (including windows)
- 3. Description of heating and cooling equipment
- 4. Description of lighting (bulbs and fixtures / interior and exterior)
- 5. Description of major appliances
- 6. Description of energy related actions
- 7. Awareness of EE-related energy programs
- 8. Demographics

Data Analysis

Estimating Take Rates

Market researchers have long recognized that customers tend to over-estimate their likelihood to participate in new programs and services within the context of a market research study:

- This means that it has been long recognized that some customers who say that they would be "certain" to participate in a given program in a survey would, in reality, not participate
- This is often referred to as the "say-do" problem; the problem that survey respondents are typically more likely to say they would do something than actually end up doing it
- The analytic challenge, as a result, is to appropriately adjust stated likelihood-to-participate ratings into more realistic estimates of likely customer response
- Different options are available for making these adjustments, and the best option depends in part on the nature of the product, service, or program being evaluated. For example, reactions to socially desirable (including "green") options need to be adjusted down more aggressively, while those for certain new technologies need to be adjusted less.
- The method used by the YGDI / EnerNOC team is based on proprietary research conducted by YGDI during 2010. This research captured stated likelihood to adopt / purchase a variety of new products / services, at one point in time, and then tracked actual product / service adoption /

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- purchase over 6 -12 months. As we expected, people were less likely to actually purchase products / services than they estimated they would at an earlier point in time1.
- The primary adjustment factors that were observed in that research were used here to translate "stated intent" to realistic estimates of likely behavior, and they are outlined in the table below. The adjustment factors depend on how the respondent answered each of the "likelihood to acquire" questions, AND on their level of information about, and familiarity with, EE issues
- Note that these primary adjustment factors are intended to apply to relatively infrequent purchases (no more often than once a year or so). For more regular purchases those that occur several times a year YGDI uses a somewhat different formula, and information about this "regular purchase adjustment" is provided later in this section.
- Essentially, the primary adjustment for irregular purchases says that among those respondents who rate a given program as a "10" ("extremely likely to participate") AND if who are rated as "high" on EE information / familiarity, then realistically, about 41% of those people will ultimately sign up for the program. At the other end of the scale, it says that among the respondents who rate their likelihood to participate as a "1" on the scale ("extremely unlikely to participate"), only 5% of those households will ultimately sign up for the program. For purposes of this analysis, the team assumed that Ameren Illinois could potentially achieve "high" information levels for all customers, and so used those adjustment rates for all respondents.

Table 2-1 Translating Stated Intent into Take Rates for Irregular Purchases

Scale Rating	Adjustment Value for Those High on Information
1	5%
2	5%
3	6%
4	6%
5	18%
6	20%
7	31%
8	38%
9	44%
10	56%

As noted above, YGDI uses a different adjustment for products that are purchased more frequently, since customers are more familiar with their "choice set" and have typical purchases that they tend to make in a given category. Lighting is the only measure tested in this survey which falls into this "regular purchase" category, and the adjustment values outlined below were used for this option and applied them the same way that was outlined above. Note that Information level (familiarity with the category) is not used as a differentiator in adjustments for this category since – by definition – all "buyers" are more familiar with regular purchases.

¹ The research tested the purchase of a wide array of products, equipment, or services ranging from relatively expensive (\$2,500+) to relatively less expensive products and services. Note that these were a wide range of products services and did not focus on testing energy efficiency products.

Table 2-2 Translating Stated Intent into Take Rates for REGULAR Purchases

Scale Rating	Adjustment Value for Regular Purchases
1	3%
2	3%
3	3%
4	8%
5	15%
6	22%
7	35%
8	40%
9	44%
10	62%

Testing Programs at Different Payback Levels

In order to provide insight about the impact that varying payback periods might have on customer response to the programs tested, the survey explored response to each program for which payback period was relevant, at 1, 3, and 5 year payback levels. The survey used a method developed by an economist by the name of von Westendorp to capture this information; this technique begins by asking respondents to assess their likelihood to adopt a program at a 3 year payback, and then (a) if they respond positively to this option, asks them to respond to a 5 year payback, or (b) if they respond negatively to this option, asks them to respond to a 1 year payback period. In order to deal with issues of survey length, the tested program measures were sorted into different categories that were similar in terms of scale of investment and type of measure. The full 1, 3, and 5 year payback assessment were then conducted for a single program within each category. The remaining programs within each category were evaluated at the 3 year payback level only. Regression analysis was then used to develop the 1 and 5 year payback values for each measure, using the slopes observed for the example program in each category.

Weighting

In order to better mirror the residential market in Ameren Illinois's service territory, data were weighted on the basis of the 48 sample cells, in order to ensure that the weighted sample mapped back to the underlying population on electric usage, gas usage, and region / zone.

Psychographic Segmentation Analysis

One of the goals of the analysis was to explore whether or not there were psychographic customer segments that could be helpful in providing an understanding of why customers responded as they did to the programs tested, and to support initial thinking about how to prioritize marketing efforts and marketing communications. Several steps were involved in developing this psychographic segmentation:

First, the team analyzed the groups of items that were included in the questionnaire which were designed to generate psychographic insights (these included Q1-5 (questions addressing opinions toward Ameren Illinois), Q6 (questions exploring how customers think about using energy in their home), Q22-Q24 (questions about appliance purchasing attitudes), and Q41 (questions about how people shop for appliances)).

Second, the team conducted analyses that were intended to identify groups of items that respondents tended to evaluate similarly. This process is called "factor analysis," and refers to the process of finding and interpreting these groups of items that people think of as similar. The results of the factor analyses conducted in this work are described in Chapter 3, section 2: Understanding

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Customer Perspectives on Energy Issues in which we outline the six separate attitude bundles that appeared to best describe the way that residential customers think about energy issues.

Third, the team considered all of the attitudinal factors that were identified in step two, along with a variety of other variables to find the ones that generated the most useful segmentation model. This was partly a trial and error process, but ultimately, the variables selected to be included in the segmentation model included:

- Overall satisfaction with Ameren Illinois (Q3)
- Overall importance rating given to the question of how important they believe it is for Ameren Illinois to actively encourage its customers to participate in energy saving, and cost saving programs (Q4-1)
- Agreement / disagreement with the item "You are very concerned about the environmental effect of electric power plants" (Q6-5)
- Agreement / disagreement with the item "Conserving energy at your home will make no difference to the quality of the environment overall" (Q6-6)
- Agreement / disagreement with the item "You would do more to make your home more energy efficient, but you don't know where to start" (Q6-7)
- Agreement / disagreement with the item "It's worth spending more money to get the highest quality product available" (Q24-6)
- A calculated variable that was called "EE Informed Level" and was based on indicators of experience with / awareness of EE end use options to-date, and awareness and use of existing Ameren EE programs
- A calculated variable that was called "Likely Taker Level" and was based on a count of the frequency that a given respondent rated themselves as "8" or higher on the "1" to "10" likelihood to participate scale for each of the 25 EE programs tested

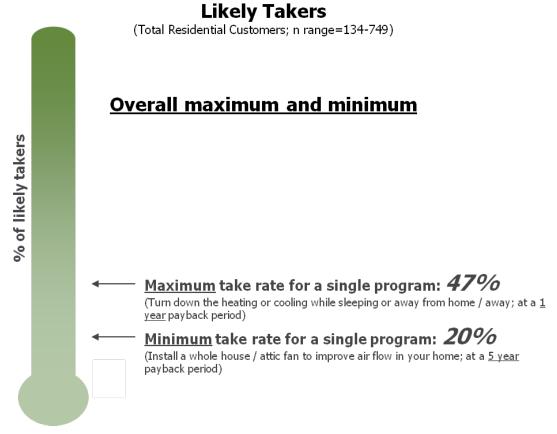
Once these inputs were identified, the team tested a wide variety of segmentation solutions, ultimately selecting a solution that optimized relative segment size, absolute segment sample size, and overall meaningfulness of segment profiles. The solution selected as most appropriate was a solution containing 6 segments with different response patterns to the final set of selected segmentation inputs.

RESIDENTIAL PROGRAM INTEREST SURVEY RESULTS

Note that the "take rates" that are reported in this chapter have been adjusted using the say / do adjustment model referenced in Chapter 2. As such, they represent the team's best estimate of the most likely proportion of customers who would actively sign up for each program, given that they were eligible to do so, and were fully aware of the program and its potential benefits for them.

The range of take rates across the full range of programs / measures tested spans from a low of around one-fifth of all eligible customers to a high of just under one-half of all eligible customers (Figure 3-1).

Figure 3-1 Maximum and Minimum Take Rates for Residential Customers



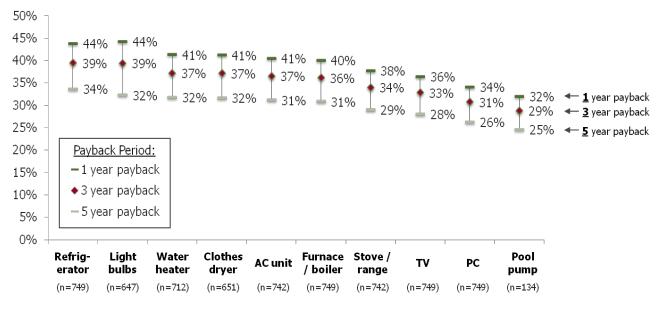
Q25-27/Q28 / Q29-31 / Q32 / Q33-35 / Q36 / Q37-39 / Q40

The first full category of EE measures that were explored considered the idea of purchasing higher than standard efficiency appliances within the context of a normal replacement cycle. As shown in Figure 3-2, within the ten appliances or end uses considered, refrigerators and light bulbs were the technologies that residential customers are estimated to be the most likely to upgrade to an EE option at each payback period level (for light bulbs, this is largely due to the use of the "regular purchase" adjustment for this product category). Across the other technologies, the take rates don't differ greatly (ranging from a high of 41% to a low of 32% at a one year payback level). As expected, take rates are higher for lower payback periods.

Figure 3-2 Measures for Purchasing / Installing Energy Efficient Equipment*

Likely Takers By Payback Period

(Total Residential Customers)



Q25-27/Q28/Q33/-35/Q37-39

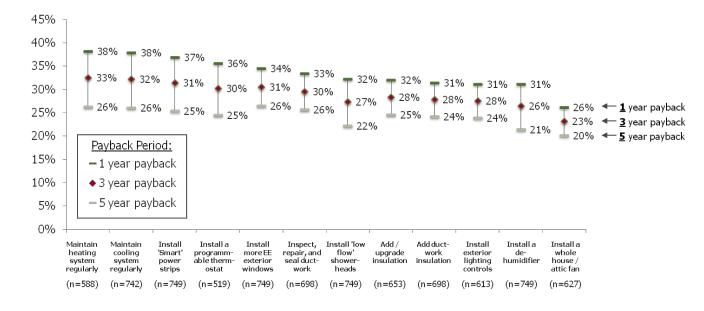
*Note: Assumes a normal replacement cycle

Among a dozen options having to do with housing envelope upgrades, or improved maintenance, Figure 3-3 shows that residential customers indicate a slightly higher likelihood to maintain heating or cooling systems. Once again, the take rates only differ somewhat across these options (going from a high of 38% for regularly maintaining the home's heating system at a one year payback to a low of 26% at the same payback level for installing a whole house fan).

Figure 3-3 Measures for Improving Energy Efficiency of Existing Systems

Likely Takers By Payback Period

(Total Residential Customers)

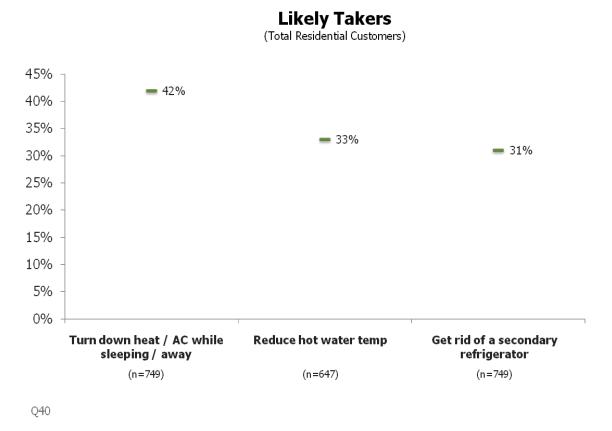


Q25-27/Q28/Q33/-35/Q37-39

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The last group of measures tested includes more traditional energy conservation measures that do not require any up-front investment on the part of the customer. As such, these measures are not associated with different payback periods (Figure 3-4).

Figure 3-4 Measures Not Requiring an Investment by the Customer (and not involving a payback period)



Considering all of the measures tested, as shown in Table 3-1the group of measures with the highest adoption rates is comprised almost entirely of measures associated with purchasing or installing energy efficient equipment". It is interesting to note that, because they are based on a normal replacement cycle, the measures in the "Purchasing / Installing Energy Efficient Equipment" group are among those that take the least amount of additional effort to implement, especially in comparison to the measures with the lowest take rates.

Table 3-1 Opportunities for Measures, High to Low

Table 3-1 Opportunities for Measures, High to Low					
Measures: Highest Opportunity	Likely Takers @ 3yr Payback (or payback irrelevant for No Upfront Investment Measures) (n range=134-749)	Measures for:			
Turn down the heating or cooling while sleeping/away from home ²	42%	No Upfront Investment			
Purchase an EE refrigerator ³	39%	Purchasing / Installing EE Equipment			
Purchase EE light bulbs ²	39%	Purchasing / Installing EE Equipment			
Purchase an EE water heater ²	37%	Purchasing / Installing EE Equipment			
Purchase an EE clothes dryer ²	37%	Purchasing / Installing EE Equipment			
Purchase an EE air conditioner ²	37%	Purchasing / Installing EE Equipment			
Purchase an EE furnace / boiler ²	36%	Purchasing / Installing EE Equipment			
Measures: Middle Opportunity	Likely Takers @ 3yr Payback (n range=134-749)	Measures for:			
Purchase an EE stovetop or range ²	34%	Purchasing / Installing EE Equipment			
Purchase an EE color TV ²	33%	Purchasing / Installing EE Equipment			
Reduce water heater temperature ¹	33%	No Upfront Investment			
Maintain heating system regularly	33%	Improving EE of Existing Systems			
Maintain cooling system regularly	32%	Improving EE of Existing Systems			
Install more EE exterior windows	31%	Improving EE of Existing Systems			
Install 'Smart' power strips	31%	Purchasing / Installing EE Equipment			
Get rid of a secondary refrigerator ¹	31%	No Upfront Investment			
Purchase an EE personal computer ²	31%	Purchasing / Installing EE Equipment			
Inspect / repair HVAC ductwork	30%	Improving EE of Existing Systems			
Install a programmable thermostat	30%	Improving EE of Existing Systems			
Measures: Lowest Opportunity	Likely Takers @ 3yr Payback (n range=134-749)	Measures for:			
Swimming pool pump	29%	Improving EE of Existing Systems			
Add / upgrade home insulation	28%	Improving EE of Existing Systems			
Add HVAC ductwork insulation	28%	Improving EE of Existing Systems			
Install exterior lighting controls	28%	Improving EE of Existing Systems			
Install 'low flow' showerheads	27%	Improving EE of Existing Systems			
Install a dehumidifier	26%	Improving EE of Existing Systems			
Install a whole house / attic fan	23%	Improving EE of Existing Systems			

Some subtle differences exist in the mean take rates among various demographic groups (Figure 3-5). Groups exhibiting the higher opportunity than their counterparts include:

- Individuals who own their own home
- Individuals living in suburban areas

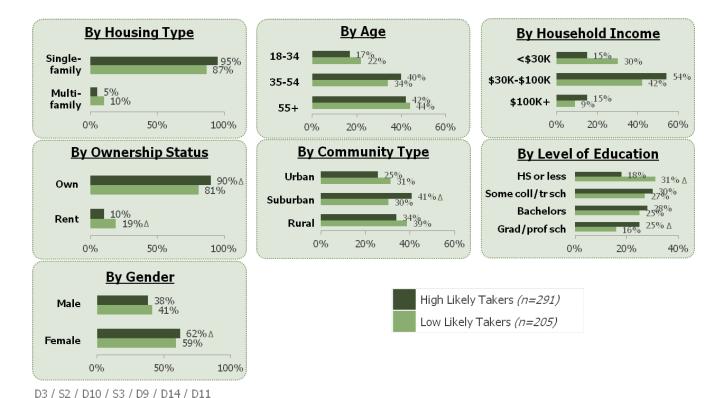
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² No Payback period associated with measure

³ Assumes a normal replacement cycle

- Households with greater than \$30,000 in annual income
- Individuals having achieved some college/trade school or graduate/professional school
- Females

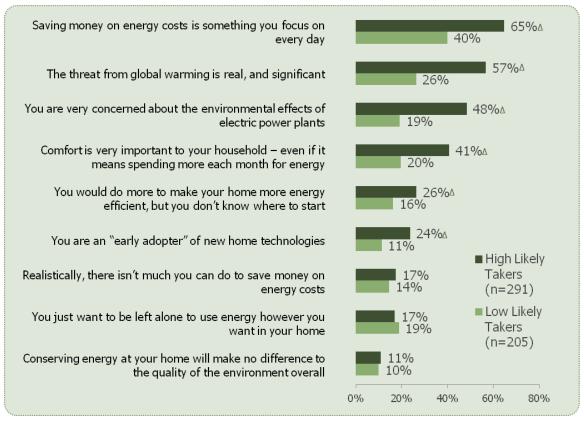
Figure 3-5 Likely Takers by Demographic Differences



More striking differences in the mean take rate, however, relate to attitudinal differences as shown in Figure 3-6. Unsurprisingly, customers who have highly "green" and/or highly cost-savings-focused attitudes consistently show much higher likelihoods to adopt energy efficiency measures.

Δ indicates a significant difference between High and Low Likely Takers

Figure 3-6 Likely Takers by General Attitudinal Differences (% Top Box, 8-10)



Q6 Δ indicates a significant difference between High and Low Likely Takers

Another key factor in likelihood to adopt energy efficiency measures appears to be the degree to which customers have favorable opinions of Ameren Illinois (Figure 3-7). Customers who have more favorable opinions about Ameren Illinois (are extremely satisfied with Ameren Illinois, perceive Ameren Illinois as a leader in energy efficiency, strongly agree that Ameren Illinois is extremely trustworthy) consistently show much higher likelihoods to adopt energy efficiency measures.

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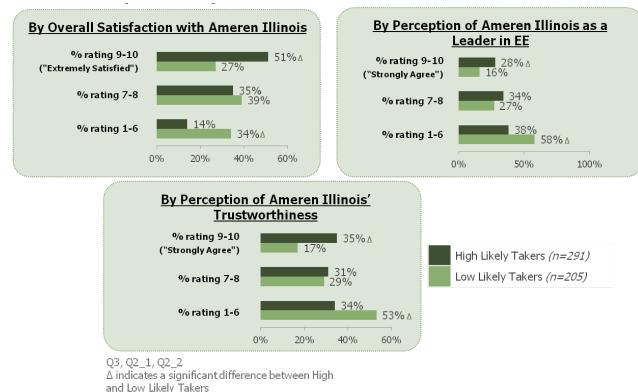


Figure 3-7 Likely Takers by Attitudinal Differences about Ameren Illinois

Summary: Overall Response to EE Programs by Ameren Illinois Customers

As the preceding pages have suggested, it appears that psychographic factors (attitudes) have a larger impact on customer response to tested EE programs than do demographic differences. This means that how customers think about Ameren Illinois is likely to be much more important in predicting how they will respond to new EE programs offered by the company, than will differences in how they are situated (where they live or how large is their income).

This is important for two reasons:

- It may explain why the overall take rates for Ameren Illinois's programs are lower than they are for those observed at many other US utilities.
- It is even more important to understand the impact of customer attitudes by understanding psychographic segments.
 - These segments may identify the confluence of attitudes and concerns that map to differences in overall reaction to potential Ameren Illinois EE programs.
 - o In fact, the segmentation analysis reported in the following section focuses on just these issues, focusing in particular, on the role of customer attitudes and perceptions in contributing to likely response to EE programs.

UNDERSTANDING RESIDENTIAL CUSTOMER PERSPECTIVES ON ENERGY ISSUES

Understanding Overall Customer Opinions of Ameren Illinois

In order to understand what lies beneath customer reaction to new EE options that might be offered by Ameren Illinois, it is worth exploring overall customer perspectives, both toward the company, and toward energy issues as a whole.

We begin this section by exploring overall customer perspectives toward Ameren Illinois and these findings are reported in Figure 4-1 below. In terms of their overall opinion toward the company, nearly two-thirds (63%)⁴ give the company a top-three box rating (8-10 on a 10-point scale) on overall satisfaction. On the more specific attributes relating to the company's activity and credibility in promoting, and providing information about energy efficiency, fewer people (and less than half) give the company top three box ratings.

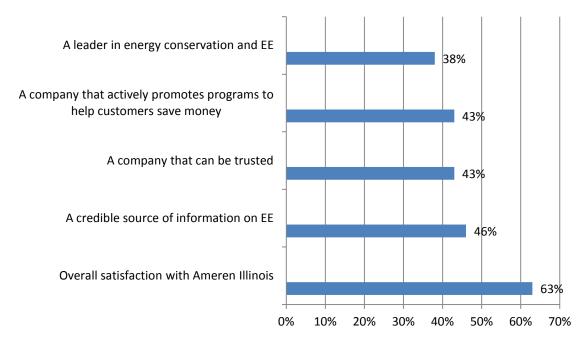


Figure 4-1 Overall Ratings of Ameren Illinois (ratings of 8-10 on 10 pt. scale)

Turning to the question of whether or not Ameren Illinois **should** promote energy efficiency, and/or, greener energy options, the results suggest that a majority of customers do support this activity (Figure 4-2). A total of 60% or more believe the company should "actively encourage" customers to participate in energy / cost savings programs, while just slightly fewer (56%) say the company should operate in a "completely environmentally friendly way."

⁴ Note that this compares to a 53% top-three-box rating for Ameren Missouri that we observed in similar research conducted in July 2009.

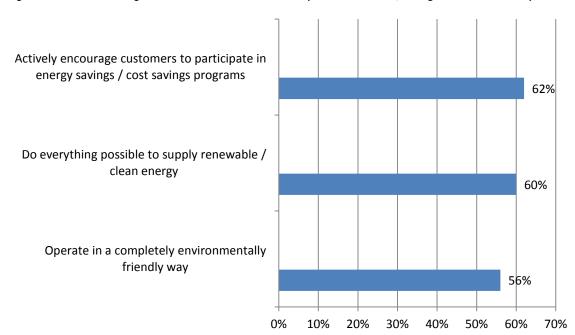


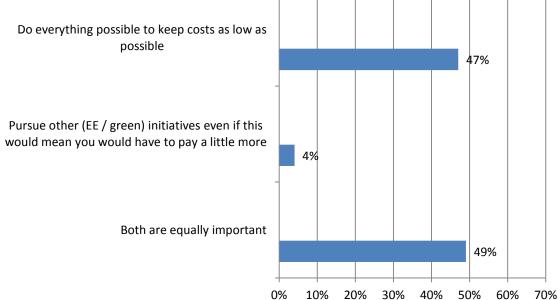
Figure 4-2 Ratings of Ameren Illinois on EE-Specific Issues (ratings of 8-10 on 10 pt. scale)

It is interesting – and important – to note, however, that while Ameren Illinois customers appear to support EE and green-focused activities by the company in the abstract, **they do not want** these activities to cost them more. As shown in Figure 4-3, when customers are asked a forced choice question, half say that the company should do everything possible to keep costs as low as possible, while only 4% say the company should pursue EE or green options if doing so would mean they would have to pay a little more. The remainder of the population wants both things at the same time (to keep costs as low as possible **and** pursue these other initiatives).

Responses to forced choice question on EE / Green vs. Cost Options



Figure 4-3



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Understanding Customer Perspectives on Energy Issues

In order to provide additional context and understanding concerning why customers, are – or are not – interested in implementing a variety of EE measures, the research team explored customer thinking across a variety of background energy issues. These specific questions covered the following issues:

- How customers think about using energy in their homes (how much they think about energy costs, for example, or the relative importance of comfort vs. cost)
- What is important to them as they evaluate new appliances (initial cost vs. operating cost savings, for example)
- How they shop for new appliances

In order to understand how customers think about these issues, we conducted what is called a factor analysis of all of the attitudinal items included in these different sections of the questionnaire. What factor analysis allows us to do is to understand how customers organize their thinking about energy issues by grouping together the questionnaire items that customers evaluate similarly.

The first block of items that customers tend to rate similarly – suggesting that they see these items as addressing the same – or at least very similar issues – are questions that asked them to rate the importance of:

- The total amount of money that a product or service would cost
- Any cost savings you might see from using the product
- Any rebates or purchase discounts that might be offered
- The features and functions included with the product

This finding suggests that customers tend to aggregate together all of the cost related issues as similarly important, and further, they tend to link in feature functionality as tied to cost.

Besides this first bundle of customer perspectives on energy issues – which we might label as "cost focus," the findings suggest that there are there are five other factors – or bundles – of customer opinions on these issues. These include:

- High quality / tech products. The items aggregated here include expressed preferences for high quality and innovative products that help customers to save time and money. What is perhaps most interesting here is having a product labeled as EE or ENERGY STAR is viewed as fitting in with this bundle of attributes.
- Environmental focus. The questionnaire items that were aggregated together in this bundle of opinions included those that had to do with being concerned about the environmental effects of electric power plants; the effects of global warming, and any environmental effects from using products. Also interesting here was that being an "early adopter" of new products was connected with these "green" attitudes.
- **Product researching**. Customers also reacted similarly to items that had to do with descriptions of themselves as taking the time to research and shop carefully for products. Also included in this grouping were items that described the respondent as living in a do-it-yourself sort of household, and in a household that tended to only buy things when they were on sale.
- Conservation doesn't matter. Respondents did also rate similarly the questionnaire items that indicated a lack of confidence in the impact of energy efficiency / conservation: that conserving energy will make no difference to the economy, that there isn't much they can do to save money on energy costs, and that they just want to be left alone to use energy however they want in their homes.
- **Simple appliances**. Customers also rated similarly statements that focused on using appliances that are simple and functional, but also included in this grouping, the desire to purchase products in a physical store, rather than on the internet.

• Lack of knowledge. Finally, customers rated a questionnaire item that described the respondent as willing to do more to make their home more efficient, but not knowing where to start, by itself – not grouping it together with other items.

Saying that customers organized their responses into these bundles of items does not, of course, tell us which of these bundles of items was rated as most important or descriptive of Ameren Illinois customers as a whole. Figure 4-4 below indicates that customers most commonly rated the items in the "cost focus" bundle as most important to them, followed by the "product researching" bundle. The question bundles having to do with not valuing energy conservation or having a lack of knowledge about what to do to conserve energy were rated as least important or descriptive of them.

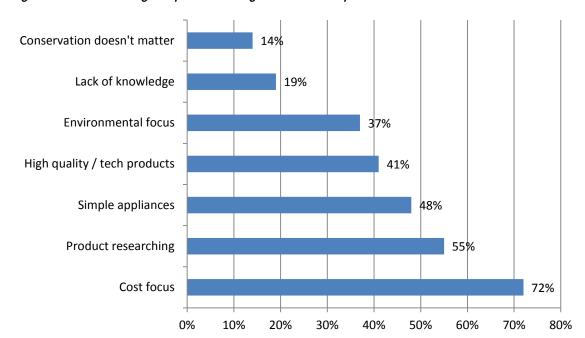


Figure 4-4 Average importance / agreement for top items in each attitude bundle

Exploring Customer Segments

So far, our analysis of customer perspectives on energy issues has only considered customers as a whole. Customers differ, however, and this section of the report explores some of the key divisions that exist within the residential customer base. Specifically, the team developed a segmentation model that disaggregated residential customers into groups that differ in terms of whether, and why, they might be interested in pursuing energy efficiency options. The goal of the segmentation analysis was to define groups of customers that were different in ways that would allow Ameren Illinois to prioritize customer targets for EE program marketing, and to develop targeted messages for each of those segments.

Using a variety of attitudinal and behavioral inputs (see the discussion earlier in this report), the team identified a set of six residential customer segments that seemed to best represent the differences in this population on these issues. The segment sizes are outlined in Figure 4-5 below.

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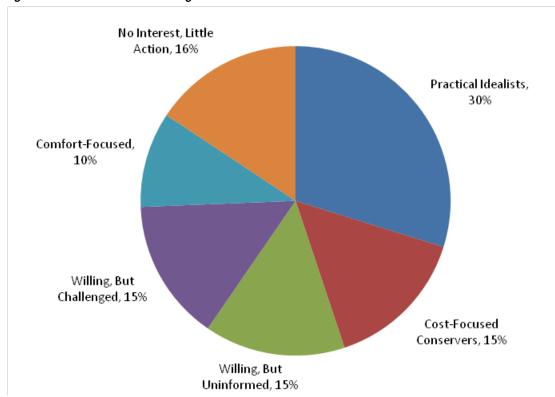


Figure 4-5 Residential Segment Distribution

Base Segment Descriptions

Summary descriptions for each of the segments follow:

Practical Idealists (30%)

Concerned with conserving energy, both from a cost-focus and an environmental perspective (they are the "greenest" segment). They are tech and feature oriented when considering appliances, but they also say they research options and compare prices. Higher education and income, and with the largest homes (though with only average total annual kWh usage), but tend to say their economic situation is worse than it was a year ago. Tend to be high on familiarity, and experience, with EE / conservation measures to date, and are very likely to say that they would adopt new EE / conservation measures.

Cost-Focused Conservers (15%)

Informed about, and interested in, conservation / EE measures, but for cost reasons rather than environmental reasons. This group believes in the value of EE as a way to save money, and has taken many prior EE actions. They do not trust Ameren Illinois very highly, however, and do not see it as the job of the company to encourage customers to save energy or money. They would prefer the company reduce rates than spend money on EE or green options. They have higher than average education and income levels, and the second largest homes on average, and the second highest average kWh. They have the second highest program take rate.

Willing, But Uninformed (15%)

This group is positive in its assessment of Ameren Illinois, and green in their environmental perspectives (though this is not a daily, top-of-mind issue). They are relatively less experienced with EE / conservation measures to-date, however, and unsure of what they could be doing in this area, or if any of their actions would actually lead them to save money. They prefer simple, functional

appliances that are on sale, and which they can purchase locally, rather than online. They have average sized homes and average annual kWh usage, as well as have lower than average income and education levels. They are moderate on take rates across programs, but are the lowest on familiarity / experience with EE conservation measures currently.

Willing, But Challenged (15%)

This group has relatively high opinions of Ameren Illinois and believes that the company should be pursuing EE options for its customers, while also supporting green initiatives. They are relatively low on EE / conservation information currently, however, and have implemented fewer such measures than others to-date. Appliance cost is critical to them and it appears that they do not think that they can afford to purchase higher quality / higher EE appliances. They live in the smallest homes, and have lower than average income and education levels, as well as the lowest annual kWh usage. They are moderate to low in their interest in participating in new EE / conservation options.

Comfort Focused (10%)

This group is quite positive in its overall assessment of Ameren Illinois, but does not see the company as a leader in energy efficiency, nor do they think the company should be a leader in this area (i.e., in encouraging customers to be more efficient), or in green energy. Rather, the company should just focus on keeping costs low. Comfort is important to them, and they just want to be left alone to use energy as they please. They are concerned about appliance cost, but worry more about functionality (particularly as this relates to comfort) than about environmental / energy saving considerations. They tend to live in average sized homes, but have the highest annual kWh levels, along with higher than average incomes and educations. They are moderate on both familiarity with EE programs / options to-date, and their likelihood to participate in new programs.

Low Interest, Little Action (16%)

This group has very little interest in conservation or EE. This group actively dislikes Ameren Illinois, particularly on the dimensions of trust and being a leader in EE. They do not want the company to encourage customers to save energy, nor do they want it to pursue green options. They do want the company to keep costs low as its sole focus. They have smaller than average homes, but average kWh levels, and are more likely to live in multi-family structures and to have somewhat lower levels of education and income. They are the lowest on likelihood to adopt new EE programs and one of the lowest on existing familiarity / experience with EE / conservation options.

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Segment Marketing

Table 4-1 Segment Marketing

Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
Practical idealists	Receptive to messages on	Home size is large, but annual kWh	Projected take rates are	As they are the most likely to have
	both the positive	usage is average, suggesting that this	the highest here of any of	purchased/plan on purchasing EE
	environmental impact of EE /	segment is probably already relatively	the other segments. Also	appliances, there is potential ground t
	conservation, as well as cost-	efficient in its use of energy. Having	note that high opinions of	be gained in terms of future EE
	savings – plus satisfaction with	said that, given a large number of end	Ameren Illinois would	appliance rebate participation. They a
	Ameren Illinois is high, making	uses that could be impacted, there is	likely make them more	already inclined to take EE actions – ar
	them likely to trust their utility	still likely to be opportunity for	receptive to further	they have already made some EE
	as a reliable source for energy	additional efficiency gains. As one of	education/	changes. Encouraging them to do mor
	efficiency suggestions.	the wealthier segments they also may	encouragement on the	may just mean helping them to find th
		have the income to invest more	benefits of participating in	opportunity.
		aggressively in EE	new EE options.	
	This segment would be the	Homes tend to be larger than average	They are not fans of	This group will represent a difficult
	most receptive to messages	and their average kWh usage is the	Ameren Illinois, but are	balance for Ameren Illinois. On the or
	focused on the cost savings	second highest of any segment.	fans of saving money	hand, they seek out information abou
	they can get from EE	Having said that, they are quite	(they have the second	ways to save money on energy and
	investments. They are not	familiar with EE and conservation	highest average new	should be responsive to new
Cost-Focused	overly concerned with	actions and programs, so while there	program take rate).	opportunities to do so. On the other
Conservers	functionality, environmental	may be opportunity for load	Environmental messages	hand, they do not want Ameren Illino
(15%)	impacts, or how much it	reduction, the simple (and low cost)	will not have much effect	to spend "their" money on helping oth
	improves their lives. They just	things have probably been done	on them, nor will	customers to save money or to invest
	want things (including Ameren	already.	messages that feel like	green initiatives that do not benefit
	Illinois) to be cheap.		"education" (since they	them directly.
			already think they are	
			pretty knowledgeable).	

Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
Willing But Uninformed (15%)	This is a challenging segment because they appear to be green, but are not deeply so. They agree with overall statements of environmental concern, but when pushed, admit that they do not typically worry about the environmental effects of their day-to-day actions. Even more importantly, they say they don't know how to conserve energy or if doing so would have any impact.	This group has average size homes and average annual kWh use, but relatively little experience with EE / conservation to-date (and a lack of confidence in the potential benefit of these activities). Given their lack of action so far, there should be substantial opportunity to improve the EE of these homes. Getting the attention of these homeowners will be the challenge.	This segment expresses moderate take rates across the new EE / load control options, though as was just noted; getting them to act on those opportunities will be a real challenge. Green messages are unlikely to be compelling, as are cost savings messages (since they will likely not believe them). This group will likely need a "doit-for-me" approach.	Since this group tends to like and trust Ameren Illinois, they should be open and receptive to messages from the company about reasons to consider EE / conservation actions. The challenge with this group will be convincing them to "trust" that they should invest the time and energy to do so because they will actually see a benefit. Starting simple, with easily demonstrable savings would be a help.
Willing, But Challenged (15%)	This is also a challenging segment for Ameren Illinois. While they have some interest in EE, they have not done much so far, and they appear to think that they cannot afford "higher end" solutions. They are broadly favorable to the company and its efforts to help customers save energy (and to green efforts), but they do feel confident in their abilities to save on their own.	This group has the lowest annual kWh use and the smallest homes, along with lower than average levels of education and income. They are also among the groups least likely to have purchased a variety of new appliances in the last year. Beyond this, they are (along with the other "willing" group) less informed about, or experienced with EE measures todate. All of this means that opportunities for energy savings are likely to exist, of course.	This group is also somewhat responsive to the EE measures tested, though obviously, there are huge barriers to implementation for them. On the one hand, they lack the upfront financial resources that might be necessary to implement some changes, and lack the experience with, or confidence in, EE measures that would make it easy for them to justify any expense on this front.	This group also likes and trusts Ameren Illinois, and looks to the company to help customers save money on energy. Having said that, they lack the resources to do much on their own (at least they think so). Zero upfront cost solutions would likely be an important starting point for this population.

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Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
Comfort Focused (10%)	This segment is broadly positive toward Ameren Illinois, but does not want to hear about the company spending money on helping customers to save energy or about green initiatives. Ameren Illinois job – from their perspective – is just to keep costs low and let them use energy the way they want to.	Houses are average in size, but average annual kWh usage is highest of all the segments. They also have higher education and income, though are only average of familiarity with EE and are less likely to have participated in prior EE programs. All of this means there is probably substantial EE opportunity here, if it can be realized.	Take rates are low for this segment, and they have little or no interest in saving energy, whether for environmental benefits, or if it costs them any feature functionality or comfort. They are not opposed to saving money, but only if this does not "cost" them in other ways.	Attempting to sell this segment on the societal benefits of EE is probably a losing proposition. Getting their attention on implementing new EE (but not load control measures) will mean convincing them that they can save money without giving up anything in terms of time, effort, or comfort.
Little Interest, Little Action (16%)	This segment would likely be the most difficult to market to as they are the least likely to like Ameren Illinois, and the least concerned with environmental issues. Beyond this, they appear to simply be unconcerned with energy issues, appliances, and related issues.	Houses in this segment tend to be somewhat smaller than average, but with average kWh. In addition, lower than average incomes may limit the EE behaviors these customers adopt. Having said that, they have done relatively little to-date in terms of EE measures.	Take rates are the lowest in this group and familiarity / experience with EE is also very low. Given their lack of involvement in this category, it is not clear at all what sort of messaging would be likely to get this group's attention.	While it could be argued that EE education is needed with this group, it is unclear how to get their attention to attend to any type of education.

Residential Segments – At a Glance

Table 4-2 Segment Prioritization

	Practical Idealists	Cost-Focused Conservers	Willing, But Uninformed	Willing, But Challenged	Comfort Focused	Little Interest, Little Action
Size	30%	15%	15%	15%	10%	16%
Opportunity	High They have done a lot already, but are open to – and able to – do more	Medium-High Experienced in EE and willing to do more; if the money is right	Medium-Low Willing to be convinced of the advisability of EE actions, but not convinced to date	Medium-Low Open to the possibility of EE actions, but see themselves as very limited in their opportunity to take advantage and have not done so yet	Low No interest in the EE category; "leave me alone"	Very Low Totally uninvolved with the energy category and no interest in becoming so
Role for Ameren Illinois	Trusted Green Partner: They like the company and see Ameren Illinois as having an important role in both EE and promoting green initiatives	Save Us Money: Broadly negative toward the company; just want Ameren Illinois to focus on lowering costs (for me)	Help Me: They like the company and want it to help them become more energy efficient (though they are not certain this is possible).	Help Me: They like the company but do not think that EE is something that is relevant for them, or is something that they can afford, or figure out how to make work for them	Leave Me Alone: Don't like the company, don't trust it, and just want to b left alone	Don't Bother Me: Like the company, but not interested in energy issues generally, and see little likely value in EE actions

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Table 4-3 Likely Takers given a 3 year payback period

	Practical Idealists	Cost-Focused Conservers	Willing, But Uninformed	Willing, But Challenged	Comfort Focused	Low Interest, Little Action
Size	30%	15%	15%	15%	10%	16%
Measures for purchasing/installing	energy efficient equip	ment (Assumes a no	rmal replacement cyc	le)		
Light bulb	52%	41%	38%	38%	31%	22%
Refrigerator	49%	40%	40%	35%	36%	27%
Water heater	48%	38%	37%	31%	33%	21%
Air conditioner	47%	40%	36%	32%	33%	20%
Clothes dryer	47%	39%	38%	32%	32%	21%
Furnace or boiler	46%	39%	37%	30%	32%	20%
Color TV	43%	33%	35%	27%	28%	20%
PC	41%	33%	30%	27%	23%	18%
Stovetop or range	46%	35%	33%	30%	30%	18%
Swimming pool pump	32%	28%	36%	25%	29%	15%
Measures for improving energy efficient	ciency of existing syste	ems				
Maintain heating system regularly	45%	37%	29%	26%	31%	18%
Maintain cooling system regularly	43%	35%	29%	26%	30%	19%
Install Smart power strips	41%	35%	33%	27%	22%	18%
Install a programmable thermostat	39%	30%	30%	33%	23%	16%
Inspect, repair, and seal HVAC ductwork VAC ductwork	40%	31%	28%	26%	23%	16%
Install exterior lighting controls	34%	31%	28%	24%	20%	19%
Install more EE exterior windows	37%	36%	31%	27%	23%	19%
Install improved home insulation	36%	33%	30%	23%	20%	17%
Install "low flow" showerheads	38%	29%	28%	23%	19%	15%
Add insulation to HVAC ductwork	37%	32%	27%	25%	22%	15%
Install a dehumidifier	34%	31%	27%	22%	21%	15%
Install a whole house/attic fan	30%	27%	24%	20%	17%	13%
Measures not requiring an investme	ent by the customer					
Turning down the heating/cooling systems while sleeping/away	33%	29%	21%	23%	22%	16%
Reduce water heater temperature	33%	22%	17%	18%	17%	13%
Get rid of secondary refrigerator	25%	22%	16%	18%	14%	13%

RESIDENTIAL SATURATION SURVEY RESULTS

Household Demographics

The sample was split by housing type into two segments for analysis: single-family detached homes and multi-family homes. Single-family detached homes include single-family homes and mobile or manufactured homes. The multi-family home segment includes single-family homes that are attached to one or more other homes, multi-family homes in a building with 2-4 units, and multi-family homes in a building with 5 or more units. Seventy-nine percent of respondents live in a single-family home while 21% live in a multi-family home. The average number of individuals living in a single-family home is 2.6 and the average number of individuals living in a multi-family home is 2.0.

Several household demographic questions were asked that are important to a household's energy use. Key demographics include the age of home, the size of the home, and the number of individuals who work from home or are home during the weekday.

Age and Size of Home

The approximate year the home was built was asked to determine the age of the home. The current housing stock of single family homes if fairly old with 64% built before 1980. Figure 5-1 shows twenty-five percent of single-family homes were built prior to 1950.

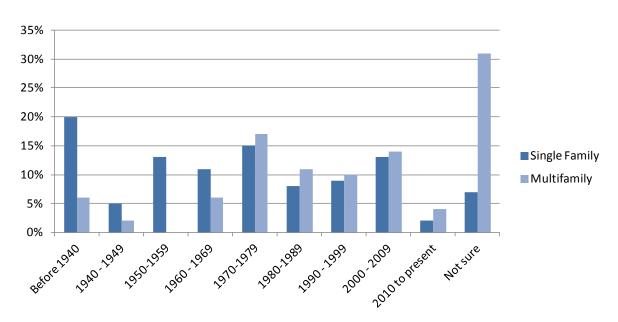


Figure 5-1 Year Home was Built

Almost a third of respondents did not know when their multi-family home was built (31%). The majority of those that were able to answer the question reported that their multi-family home was built in the last 40 years.

Home size is related to energy use. That is, larger homes use more energy than smaller homes. In the Ameren Illinois area, the majority of single-family homes are in the 1,000 to 2,499 square foot range (Figure 5-2). Twenty-three percent of single-family homes are 2,500 square feet or more and only 8% are less than 1,000 square feet. Multi-family homes are significantly smaller with the majority under 1,499 square feet (75%).

35% 30% 25% 20% ■ Single Family 15% Multifamily 10% 5% % 1,000 -2,500 -3,000 -3,500 - 4,000 sq.ft. 1,500 -2,000 -1,499 sq.ft. 1,999 sq.ft. 2,499 sq.ft. 2,999 sq.ft. 3,499 sq.ft. 3,999 sq.ft. or more

Figure 5-2 Square Footage of Home

Individuals Home During the Weekday

Energy use tends to be higher in homes where one or more household members are home during the day. Similarly, in the summer, peak demand tends to be higher.

Most homes in the Ameren Illinois service territory have a member who is regularly home during the day on weekdays (Figure 5-3). Fifty-nine percent of single-family and 52% of multi-family customers say someone is home during the weekday, either because they work at home or regularly stay at home all or most weekdays (four days or more).

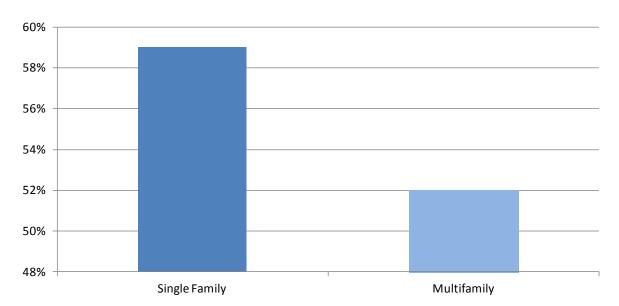


Figure 5-3 Customers with Someone Home All or Most Weekdays

Within the group presented in Figure 5-3 is a subset of respondents that are working at home. Sixteen percent of respondents in the single-family segment have a member who telecommutes or

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works from home at least one day during the day on weekdays. A slightly smaller percentage (13%) of those living in multi-family homes telecommutes or works from home.

A large proportion of those working from home, do so 5 days a week (Figure 5-4). Respondents living in single-family homes tend to work at home more days than those living in multi-family homes. Note that the percentage numbers shown in Figure 4-4 are the percent of those that work from home, not of the total population.

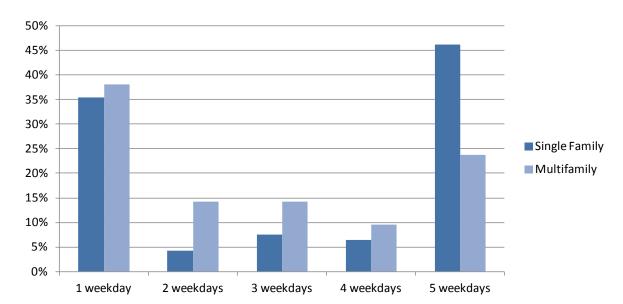


Figure 5-4 Number of Weekdays Spent Working at Home

Household Equipment and Appliances

Respondents were asked about the type of equipment and appliances they have, the type of fuel used for heating, cooling and water heating, and hours of operation for lighting and electronics.

Heating, Cooling and Water Heating

Most respondents have central air conditioning both in single-family homes and multi-family homes (Figure 5-5). Eighty percent of respondents in single-family homes have central air conditioning and an additional 4% have a heat pump for cooling. Seventy-one percent of respondents in multi-family homes have central air conditioning and none have a heat pump. The remaining customers rely on room air conditioners or do not have cooling.

Almost two-thirds of primary cooling systems in single-family homes have been purchased since 2000 compared to 39% in multi-family homes. Forty-two percent of respondents in multi-family homes did not know when their primary cooling system was purchased.

Fifty-seven percent of respondents in single-family homes have programmable thermostats, compared to only 30% in multi-family homes.

90%
80%
70%
60%
50%
40%
30%
20%

Figure 5-5 Type of Primary Cooling by Segment

The majority of respondents in single-family homes have a gas furnace (66%) and eleven percent have an electric furnace. Most respondents in multi-family homes have either a gas or an electric furnace (Figure 5-6). Several respondents reported using supplemental heating such as portable space heaters and fireplaces as their main type of space heating; 9% of single-family and 8% of multi-family homes use these other types of space heating.

Room AC

Heat pump

Central AC

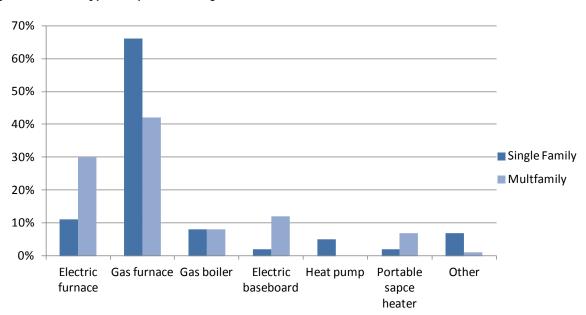


Figure 5-6 Type of Space Heating

None

10%

0%

Similar to heating, the majority of respondents in single-family homes have gas water heating, while in multi-family homes the fuel used for water heating is more evenly split between gas and electric (Figure 5-7).

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90%
80%
70%
60%
50%
40%
20%
10%
Natural gas
Electricity
Other

Figure 5-7 Water Heating Fuel

Appliances

Almost all respondents living in single-family homes have a refrigerator. In addition, more than half have a stand-alone freezer and 32% have a second refrigerator (Figure 5-8). Sixty-nine percent of respondents in single-family homes have a dishwasher and 53% use electricity for cooking. Ninety-six percent of respondents in single-family homes also have a clothes washer, and 94% have a clothes dryer. Sixty-three percent of respondents have an electric dryer; 31% have a gas unit.

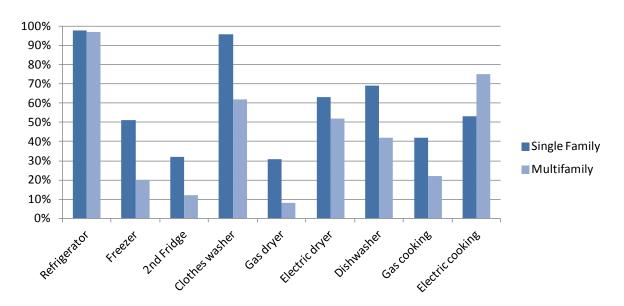


Figure 5-8 Appliance Saturation – Single-Family Segment

With the exception of refrigerators, those living in multi-family homes have fewer appliances. Only 20% have a stand-alone freezer and 12% have a second refrigerator. Forty-two percent have a dishwasher, and 75% use electricity for cooking. Sixty-two percent have a clothes washer and 60% have either an electric or gas clothes dryer. Similar to the single-family house segment, the majority of clothes dryers are electric.

Lighting

The average number of light bulbs in a single-family home is 46, while a multi-family home has an average of 38 total light bulbs (Table 5-1). Almost half (48%) of the light bulbs in both segments are conventional incandescent bulbs. CFLs represent about one-third of the light bulbs.

Segment	Incande- scent	CFL	LED	Tubular Fluore- scent	Halogen	Low Voltage	Other
Single Family	47%	32%	1%	10%	4%	4%	2%
Multi-family	50%	31%	1%	9%	3%	4%	2%
Total	48%	31%	1%	10%	3%	4%	2%

Table 5-1 Average Number of Light Bulbs by Segment and Type

Few respondents in single-family homes use some sort of lighting controls on their interior lighting. Sixteen percent in single-family homes use lighting timers compared to 14% of those in multi-family homes. Fourteen percent in single-family homes use motion detectors compared to 4% of those in multi-family homes.

Several respondents use lighting controls for the exterior lighting in their homes. Twenty-one percent of those in single-family homes use motion detectors, compared to 9% in multi-family homes; 26% in single-family homes use dusk-to-dawn lights compared to 13% in multi-family homes; and 7% in single family homes and 3% in multifamily homes use timers.

Electronics

Respondents in single-family homes have an average of 2.9 TVs per household, while those in multifamily homes have an average of 2.1 TVs. The majority of respondents have at least one standard TV, and 59% of those in single-family homes and 46% of those in multi-family homes have at least one LCD TV (Figure 5-9). Smaller percentages have one or more LED, plasma or rear projection TV.

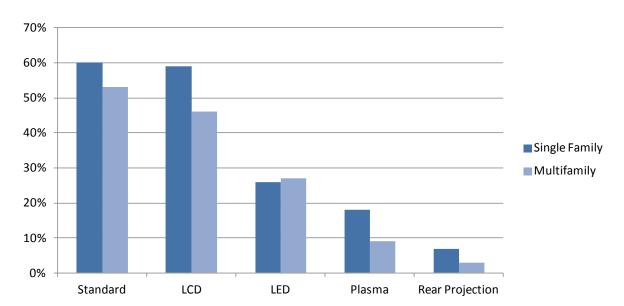


Figure 5-9 Type of TV by Segment

Respondents in single-family homes report that their household watches TV on average a total of 10.34 hours per day on all their TVs combined, while those in apartments watch TV 8.6 hours per

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day on all their TVs. Forty-seven percent of respondents in single-family homes and 42% in multi-family homes have at least one ENERGY STAR TV.

Ninety-five percent of respondents in single-family homes and 94% in multi-family homes have at least one computer. Respondents in single-family homes have an average of 2.1 computers. Respondents in multi-family homes have an average of 1.6 computers per household. Respondents in single-family homes use their computers an average of 8.0 hours per day and have them in stand-by mode an average of 15.6 hours. Multi-family homes use their computers 8.1 hours per day and have them in stand-by mode 10.7 hours. Thirty-nine percent of respondents in single-family homes and 36% in multi-family homes have an ENERGY STAR computer

Energy Actions

Respondents were asked what recent home improvements they had made, whether they intended to make improvements in the next 6 to 12 months and what types of actions they took to improve their household's energy efficiency. They were also asked about their participation in utility-sponsored energy efficiency programs. This information was used to determine the current saturation of energy-efficiency measures and to develop the adoption rates for the forecast.

Home Improvements

The majority respondents living in single-family homes have made at least some improvements to their home (Figure 5-10). Sixty-four percent of respondents in single-family homes said they or a previous owner had made a home improvement or remodeled the home since it was built. Not surprisingly, fewer respondents living in multi-family homes had made improvements. Forty-two percent of respondents living in multi-family homes said they or a previous occupant/owner had made a home improvement or remodeled the home since it was built.

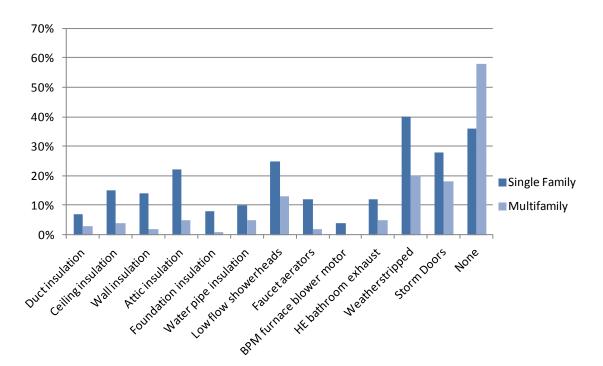


Figure 5-10 Home Improvements

The most popular home improvements are weather-stripping/caulking windows and doors, adding storm doors and installing low flow showerheads.

Program Awareness and Participation

About a quarter of respondents in both segments stated they were aware of programs that offer conservation rebates, loans or price discount programs. Similar percentages have participated in at least one program in the last 3 years.

When asked specifically about Ameren Illinois programs, the refrigerator recycling programs was the program the majority of respondents were aware of in both segments (Figure 5-11). Half of multifamily respondents are also aware of the Home Energy Performance program.

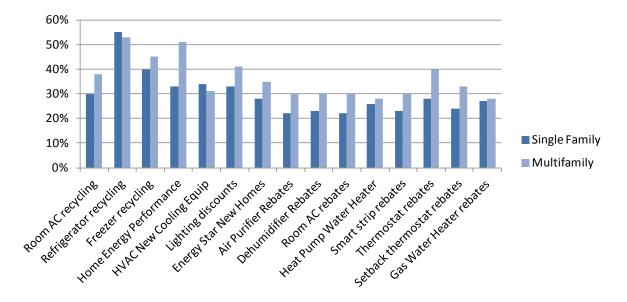


Figure 5-11 Awareness of Ameren Illinois Programs

Rebate programs have the lowest levels of awareness. Overall multifamily respondents are more aware of the programs available than are single family respondents.

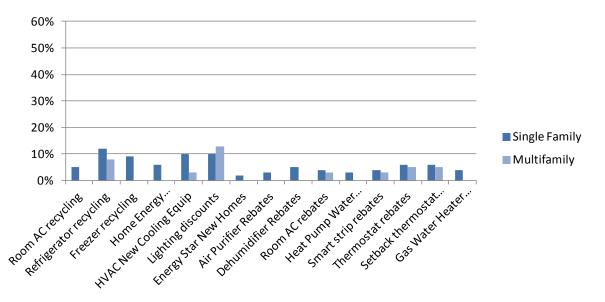


Figure 5-12 Participation in Ameren Illinois Programs

Few respondents have participated in Ameren Illinois' programs in the last 3 years (Figure 5-12). Twelve percent of single family respondents have participated in the refrigerator recycling program, and 13% of multifamily customers have participated in the lighting discounts program.

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C&I METHODOLOGY

This section covers sample design, questionnaire development and data analysis for the commercial and industrial market research.

Sample Design

As mentioned above, Ameren Illinois provided the EnerNOC team with billing data for residential and business accounts that included a variety of information for each commercial customer, including company name, address, annual kWh usage, annual therm usage, division, account number, etc. Contact names of individuals were not provided in the list. The EnerNOC team created a sample design with 124 separate sample cells – against which survey responses were targeted and monitored, and which took into account industry, gas usage and electric usage. This grid was implemented separately and independently for each of the two surveys (the Program Interest survey and the Saturation survey). Appendix A provides additional information about the business sample design.

The EnerNOC team generated a total of 19,074 randomly selected company locations. In total, postcard invitations were mailed to all of the locations included in the list, with 9,529 cards sent for Program Interest and 9,545 sent for the Saturation survey. These postcards were allocated across the desired quota cells and invited respondents to go online and complete a survey.

- Customers were originally offered a \$25 check for completing the survey, but that amount was increased to \$50 approximately halfway through fielding to increase response to the survey site
- Due to the somewhat limited nature of the list, cards were mailed to all respondents at one time, and the mailing was followed by several rounds of reminder emails and phone calls

In order to qualify to complete the survey, respondents/companies had to meet the following criteria:

- The site must be a business, or a residence used for a home-operated business
- The respondent must be knowledgeable about decision-making for energy issues for the business at the specified location
- The company must be responsible for the cost of their electricity or natural gas, and Ameren must be a provider of either electricity and/or natural gas
- The location must not ONLY be an outdoor structure or facility

A total of 622 Ameren Illinois Business customers completed the Program Interest survey.

- Approximately 72% of those who attempted to complete the survey qualified based on applying the criteria above.
- The overall net response rate was approximately 10%
- Approximately 21% of those who started the surveys abandoned them before completing it
- Average online survey length was about 26 minutes

Questionnaires

The **Program Interest** questionnaire was designed to cover multiple content areas, including:

- 1. Screening questions
- 2. Customer energy needs

- 3. Basic energy usage
- 4. Attitudes toward energy usage
- 5. Energy efficiency measures already taken
- 6. Purchasing attitudes / behavior & environmental attitudes
- 7. Interest in potential energy efficiency measures offered by Ameren Illinois

The **Saturation** questionnaire was designed to cover multiple content areas, including:

- 1. Screening questions
- 2. Description of building type: business-use area
- 3. Description of building type: entire building area
- 4. Heating and cooling
- 5. Lighting
- 6. Office and other equipment
- 7. Manufacturing / processing operations
- 8. Energy efficiency measures

Data Analysis

Estimating Take Rates

Market researchers have long recognized that customers tend to over-estimate their likelihood to participate in new programs and services within the context of a market research study. This means that it has been long recognized that some customers who say that they would be "certain" to participate in a given program in a survey would, in reality, not participate. This is often referred to as the "say-do" problem; the problem that survey respondents are typically more likely to say they would do something than actually end up doing it. The analytic challenge, as a result, is to appropriately adjust stated likelihood-to-participate ratings into more realistic estimates of likely customer response.

Different options are available for making these adjustments, and the best option depends in part on the nature of the product, service, or program being evaluated. For example, reactions to socially desirable (including "green") options need to be adjusted down more aggressively, while those for certain new technologies need to be adjusted less. The method used by the YGDI / EnerNOC team is based on proprietary research conducted by YGDI during 2010. This research captured stated likelihood to adopt / purchase a variety of new products / services, at one point in time, and then tracked the actual product / service adoption / purchase over 6 -12 months. As we expected, people were less likely to actually purchase the specific products / services that they estimated they would at an earlier point in time.

The primary adjustment factors that were observed in that research were used here to translate "stated intent" to realistic estimates of likely behavior, and they are outlined in the table below. The adjustment factors depend on how the respondent answered each of the "likelihood to acquire" questions. Note that these primary adjustment factors are intended to apply to relatively infrequent purchases (no more often than once a year or so). For more regular purchases – those that occur several times a year – YGDI uses a somewhat different formula, and information about this "regular purchase adjustment" is provided later in this section.

Essentially, the primary adjustment for irregular purchases says that among those respondents who rate a given program as a "10" ("extremely likely to participate") AND if who are rated as "high" on EE information / familiarity, then realistically, about 41% of those people will ultimately sign up for the program. At the other end of the scale, it says that among the respondents who rate their likelihood to participate as a "1" on the scale ("extremely unlikely to participate"), only 5% of those

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businesses will ultimately sign up for the program. For purposes of this analysis, we assumed that Ameren Illinois would be able to move all businesses to a "high" level of information / familiarity with the relevant EE options.

Table 6-1 Translating Stated Intent into Take Rates for Irregular Purchases

Scale Rating	Adjustment for Those High on Information
1	3%
2	3%
3	4%
4	8%
5	30%
6	38%
7	48%
8	58%
9	61%
10	72%

As noted above, YGDI uses a different adjustment for products that are purchased more frequently, since customers are more familiar with their "choice set" and have typical purchases that they tend to make in a given category. Lighting is the only measure tested in this survey which falls into this "regular purchase" category, and the adjustment values outlined below were used for this option and applied them the same way that was outlined above. Note that Information level (familiarity with the category) is not used as a differentiator in adjustments for this category since – by definition – all "buyers" are more familiar with regular purchases.

Table 2-2 Translating Stated Intent into Take Rates for REGULAR Purchases

Scale Rating	Adjustment For Those Making Regular Purchases
1	0%
2	0%
3	0%
4	5%
5	12%
6	26%
7	44%
8	58%
9	67%
10	83%

Testing Programs at Different Payback Levels

In order to provide insight about the impact that varying payback periods might have on customer response to the programs tested, the survey explored response to each program for which payback period was relevant, at 1, 3, and 5 year payback levels. The survey used a method developed by an

economist by the name of von Westendorp to capture this information; this technique begins by asking respondents to assess their likelihood to adopt a program at a 3 year payback, and then (a) if they respond positively to this option, asks them to respond to a 5 year payback, or (b) if they respond negatively to this option, asks them to respond to a 1 year payback period. In order to deal with issues of survey length, the tested program measures were sorted into different categories that were similar in terms of scale of investment and type of measure. The full 1, 3, and 5 year payback assessment were then conducted for a single program within each category. The remaining programs within each category were evaluated at the 3 year payback level only. Regression analysis was then used to develop the 1 and 5 year payback values for each measure, using the slopes observed for the example program in each category.

Weighting

In order to better mirror the business market in Ameren Illinois's service territory, data were weighted on the basis of the 124 sample cells, in order to ensure that the weighted sample mapped back to the underlying population on electric usage, gas usage, and region / zone.

Psychographic Segmentation Analysis

One of the goals of the analysis was to explore whether or not there were psychographic customer segments that could be helpful in providing an understanding of why customers responded as they did to the programs tested, and to support initial thinking about how to prioritize marketing efforts and marketing communications. Several steps were involved in developing this psychographic segmentation:

- First, the team analyzed the groups of items that were included in the questionnaire which were designed to generate psychographic insights (these included Q2 and Q4 (questions addressing opinions toward Ameren Illinois), Q14 (questions exploring how customers think about using energy in their facility), Q23 and Q25 (questions about priorities when evaluating energy-related products and services for their facility)).
- Second, the team conducted analyses that were intended to identify groups of items that respondents tended to evaluate similarly. This process is called "factor analysis," and refers to the process of finding and interpreting these groups of items that people think of as similar.
- Third, the team considered all of the attitudinal factors that were identified in step two, along
 with a variety of other variables to find the ones that generated the most useful segmentation
 model. This was partly a trial and error process, but ultimately, the variables selected to be
 included in the segmentation model included:
 - Whether the business owns or leases their facility (QS5)
 - Overall satisfaction with Ameren Illinois (Q3)
 - o Preference for whether Ameren Illinois should focus on pursuing EE and conservation initiative, or on keeping costs low for their customers(Q5)
 - o Kilowatt hours (from sample)
 - Agreement / disagreement with the item "Our organization believes that the long-term threat from global warming and climate change is real, and potentially devastating" (Q14_7)
 - o Importance of the item "Features and functions included with the product / service" when selecting which pieces of equipment, electronic devices, or other energy-related products or services to purchase for their facility (Q23_6)
 - o Agreement / disagreement with the item "The reality is that the most energy-efficient equipment is also almost always the best equipment on the market" (Q25_6)
 - Agreement / disagreement with the item "Since energy costs make up such a small portion of our total operating costs, energy issues just don't get a lot of attention" (Q25_11)

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- A calculated variable that was called "EE Informed Level" and was based on indicators of experience with / awareness of EE end use options to-date, and awareness and use of existing Ameren EE programs
- A calculated variable that was called "Likely Taker Level" and was based on a count of the frequency that a given respondent rated themselves as "8" or higher on the "1" to "10" likelihood to participate scale for each of the 34 EE programs tested

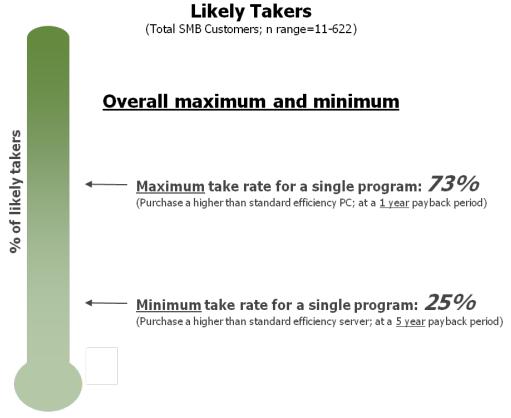
Once these inputs were identified, the team tested a wide variety of segmentation solutions, ultimately selecting a solution that optimized relative segment size, absolute segment sample size, and overall meaningfulness of segment profiles. The solution selected as most appropriate was a solution containing 6 segments with different response patterns to the final set of selected segmentation inputs.

C&I PROGRAM INTEREST SURVEY RESULTS

Note that the "take rates" that are reported in this chapter have been adjusted using the say / do adjustment model referenced in the Methodology section earlier in this report. As such, they represent the team's best estimate of the most likely proportion of customers who would actively sign up for each program, given that they were eligible to do so, and were fully aware of the program and its potential benefits for them.

As shown in Figure 7-1, the range of take rates across the full range of programs / measures tested spans from a low of around one-tenth of all eligible customers to a high of just under 50% of all eligible customers.

Figure 7-1 Maximum and Minimum Take Rates for Business Customers



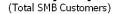
Q26-28 / Q29 / Q30-32 / Q33 / Q34-36 / Q37 / Q38-40 / Q41

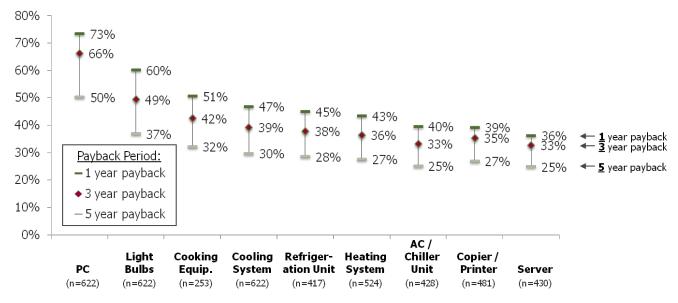
The first full category of EE measures that were explored considered the idea of purchasing higher than standard efficiency appliances within the context of a normal replacement cycle. Within the nine appliances or end uses considered, light bulbs were the technology that business customers are estimated to be the most likely to upgrade to an EE option at each payback period level (and this is largely due to the use of the "regular purchase" adjustment for this product category). Across the other technologies, the take rates are highest at each payback period level for the least expensive equipment purchases: PCs and light bulbs. While - as expected - take rates are higher for lower payback periods, these ranges are smallest for basic office equipment such as printer and servers

(dipping to 25% at a 5 year payback period). Figure 7-2 shows the take rates for equipment measures.

Figure 7-2 Measures for Purchasing / Installing Energy Efficient Equipment*

Likely Takers By Payback Period





Q265-28/Q29/Q34-36/Q37

*Note: Assumes a normal replacement cycle

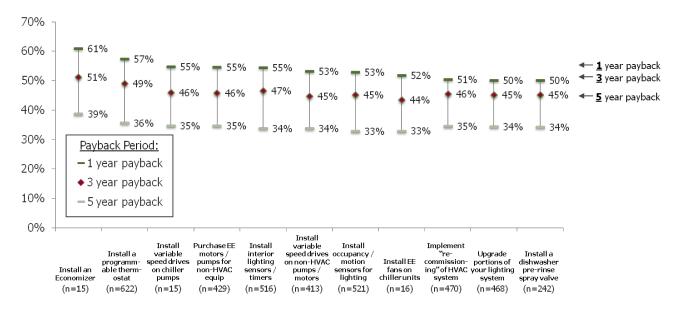
Among 22 options having to do with upgrading existing systems, or improved maintenance, business customers indicate a higher likelihood to install a programmable thermostat, as shown in Figure 7-3. (Though applicable to only a few, take rates are were highest for installing an Economizer). The take rates differ rather widely across these options (going from a high of 61% for installing an Economizer at a one year payback to a low of 26% for regularly maintaining the heating system at 5 year payback period).

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Figure 7-3 Measures for Improving Energy Efficiency of Existing Systems

Likely Takers By Payback Period

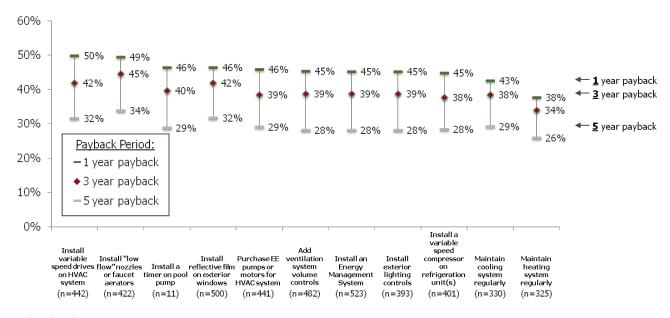
(Total SMB Customers)



Q29/Q30/Q33/Q37

Likely Takers By Payback Period

(Total SMB Customers)



Q29/Q30/Q33/Q37

Considering all of the measures tested, as shown in Table 7-1, the group of measures with the highest adoption rates is comprised of a mix of both measures associated with purchasing or installing energy efficient equipment and measures for improving the energy efficiency of existing systems. It is interesting to note that, because they are based on a normal replacement cycle, the measures in the "Purchasing / Installing Energy Efficient Equipment" group are among those that take the least amount of additional effort to implement.

Table 7-1 Opportunities for Measures, High to Low

Table 7-1 Opportunities for Measures, Hi	gn to Low	
	Likely Takers	
	@ 3yr Payback (or	
	payback irrelevant	
Measures: Highest Opportunity	for No Upfront	Measures for:
	Investment	
	Measures)	
	(n range=11-622)	
Purchase EE PC ²	66%	Purchasing / Installing EE Equipment
Install an Economizer	51%	Improving EE of Existing Systems
Reduce thermostat setting during the winter ¹	50%	No Upfront Investment
Purchase EE light bulbs ²	49%	Purchasing / Installing EE Equipment
Install an advanced programmable, clock-based	49%	Improving EE of Existing Systems
thermostat		
Install interior lighting sensors / timers	47%	Improving EE of Existing Systems
	Likely Takers	
Measures: Middle Opportunity	@ 3yr Payback	Measures for:
	(n range=15-622)	
Install variable speed drives on chiller pumps	46%	Improving EE of Existing Systems
Purchase EE motors / pumps for non-HVAC equip	46%	Improving EE of Existing Systems
Implement "re-commissioning" of HVAC system	46%	Improving EE of Existing Systems
Install occupancy / motion sensors for lighting	45%	Improving EE of Existing Systems
Upgrade portions of your lighting system	45%	Improving EE of Existing Systems
Install a dishwasher pre-rinse spray valve	45%	Improving EE of Existing Systems
Install variable speed drives on non-HVAC pumps	45%	Improving EE of Existing Systems
/ motors		
Install "low flow" nozzles or faucet aerators	45%	Improving EE of Existing Systems
Purchase EE refrigeration unit ²	44%	Purchasing / Installing EE Equipment
Install EE fans on chiller units ²	44%	Improving EE of Existing Systems
Reduce water heater temperature ¹	43%	No Upfront Investment
Install EE cooking equipment ²	42%	Purchasing / Installing EE Equipment
Install variable speed drives on HVAC system	42%	Improving EE of Existing Systems
Install reflective film on exterior windows	42%	Improving EE of Existing Systems
	Likely Takers	
Measures: Lowest Opportunity	@ 3yr Payback	Measures for:
	(n range=134-749)	
Install a timer on pool pump	40%	Improving EE of Existing Systems
Purchase EE cooling system ²	39%	Purchasing / Installing EE Equipment
Add ventilation system volume controls	39%	Improving EE of Existing Systems
Install an Energy Management System	39%	Improving EE of Existing Systems
Install exterior lighting controls	39%	Improving EE of Existing Systems
Purchase EE pumps or motors for HVAC system	39%	Improving EE of Existing Systems
Maintain cooling system regularly	38%	Improving EE of Existing Systems
Install a variable speed compressor on refrigeration unit(s)	38%	Improving EE of Existing Systems
Purchase EE heating system ²	36%	Purchasing / Installing EE Equipment
Purchase EE copier / printer ²	35%	Purchasing / Installing EE Equipment
Raise your thermostat setting in the summer ¹	34%	No Upfront Investment
Maintain heating system regularly	34%	Improving EE of Existing Systems
Purchase EE central / packaged AC or chiller ²	33%	Purchasing / Installing EE Equipment
Purchase EE server ²	33%	Purchasing / Installing EE Equipment

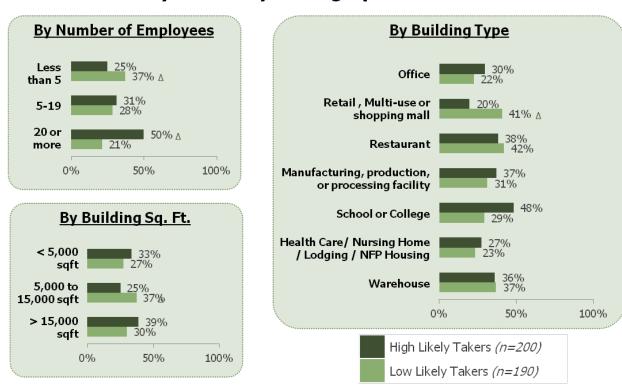
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Some subtle differences exist in the mean take rates among various demographic groups, as shown in Figure 7-4. Groups exhibiting the higher opportunity than their counterparts include:

- Organizations with 20 or more employees
- Organizations with either small facilities (less than 5,000 sq. ft.) or very large facilities (greater than 15,000 sq. ft.)
- Organizations operating as/in a school or college

Figure 7-4 Likely Takers by Demographics

Likely Takers by Demographic Differences



S10 / S11 / S8 Δ indicates a significant difference between High and Low Likely Takers

More striking differences in the mean take rate, however, relate to attitudinal differences as shown in Figure 7-5. Unsurprisingly, customers who have highly "green" and/or highly cost-savings-focused attitudes consistently show much higher likelihoods to adopt energy efficiency measures.

We believe that investing in energy efficiency almost always a 79% △ good business decision 47% It is a top priority for our organization to find ways to control 55% △ our energy costs We care about the cost of the energy we use, but other issues 50% take up much more of our mgmt time 46% Our org believes that it is socially responsible to limit our use 48% △ of electricity 32% Our org believes that the long-term threat from global warming 35%∆ and climate change is real, and potentially devastating 19% ■ High Likely We would do more to make our facility more energy efficient, 30% △ but we don't know where to start, or what to do next Takers 18% (n=200)Our org has made a public commitment to be a "greener" 29% ∆ ■ Low Likely organization 14% Takers (n=190)There is really very little our organization can do to save 13% money on our energy bills 15% 0% 20% 40% 60% 80% 100%

Figure 7-5 Likely Takers by General Attitudinal Differences (% Top Box, 8-10)

 $\rm Q14$ Δ indicates a significant difference between High and Low Likely Takers

Another key factor in likelihood to adopt energy efficiency measures appears to be the degree to which customers have favorable opinions of Ameren Illinois. As shown in Figure 7-6, customers who have more favorable opinions about Ameren Illinois (are extremely satisfied with Ameren Illinois, perceive Ameren Illinois as a leader in energy efficiency, strongly agree that Ameren Illinois is extremely trustworthy) consistently show significantly higher likelihoods to adopt energy efficiency measures.

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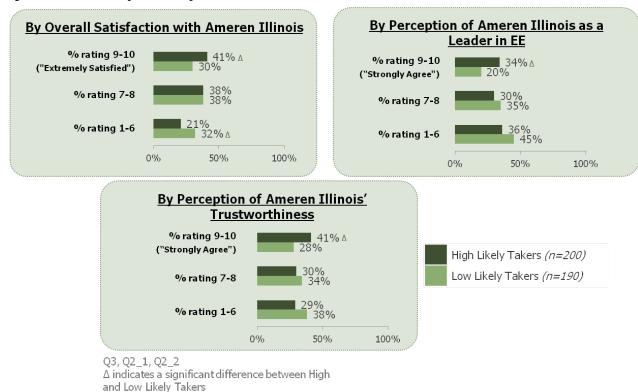


Figure 7-6 Likely Takers by Attitudinal Differences about Ameren Illinois

Summary: Overall Response to EE Programs by Ameren Illinois Customers

As the preceding pages have suggested, it appears that psychographic factors (attitudes) have a larger impact on customer response to tested EE programs than do demographic differences. This means that how customers think about Ameren Illinois is likely to be much more important in predicting how they will respond to new EE programs offered by the company, than will differences in how they operate their business (building type and size, number of employees).

This is important because it means that it is critical to understand the impact of customer attitudes by understanding psychographic segments.

- These segments may identify the confluence of attitudes and concerns that map to differences in overall reaction to potential Ameren Illinois EE programs.
- In fact, the segmentation analysis reported in the following section focuses on just these issues, focusing in particular, on the role of customer attitudes and perceptions in contributing to likely response to EE programs.

UNDERSTANDING BUSINESS CUSTOMER PERSPECTIVES ON ENERGY ISSUES

Understanding Overall Customer Opinions of Ameren Illinois

In order to understand what lies beneath customer reaction to new EE options that might be offered by Ameren Illinois, it is worth exploring overall customer perspectives, both toward the company, and toward energy issues as a whole.

We begin this section by exploring overall customer perspectives toward Ameren Illinois and these findings are reported in Figure 8-1 below. In terms of their overall opinion toward the company, nearly two-thirds (60%)⁵ give the company a top-three box rating (8-10 on a 10-point scale) on overall satisfaction. On the more specific attributes relating to the company's activity and credibility in promoting and providing information about energy efficiency, slightly fewer people (about half) give the company top three box ratings.

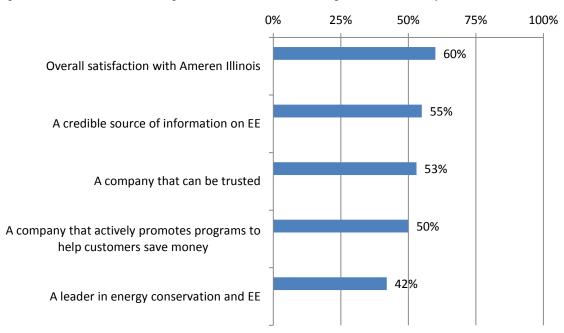


Figure 8-1 Overall Ratings of Ameren Illinois (ratings of 8-10 on 10 pt. scale)

Turning to the question of whether or not Ameren Illinois **should** promote energy efficiency, and/or, greener energy options, the results suggest that a majority of customers do support this activity. As shown in Figure 8-2, a total of 56% believe the company should "actively encourage" customers to participate in energy / cost savings programs, while just slightly fewer (51%) say the company should operate in a "completely environmentally friendly way."

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8-1

⁵ Note that this compares to a 53% top-three-box rating for Ameren Missouri that we observed in similar research conducted in July 2009.

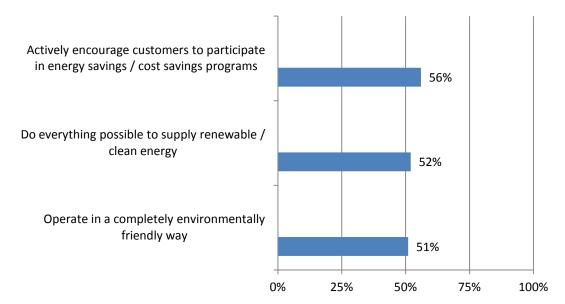


Figure 8-2 Ratings of Ameren Illinois on EE-Specific Issues (ratings of 8-10 on 10 pt. scale)

It is interesting – and important – to note, however, that while Ameren Illinois customers appear to support EE, and green-focused activities by the company in the abstract, **they do not want** these activities to cost them more. When customers are asked a forced choice question, just under half say that the company should do everything possible to keep costs as low as possible, while only 3% say the company should pursue EE or green options if doing so would mean they would have to pay a little more (Figure 8-3). The remainder of the population wants both things at the same time (to keep costs as low as possible **and** pursue these other initiatives).

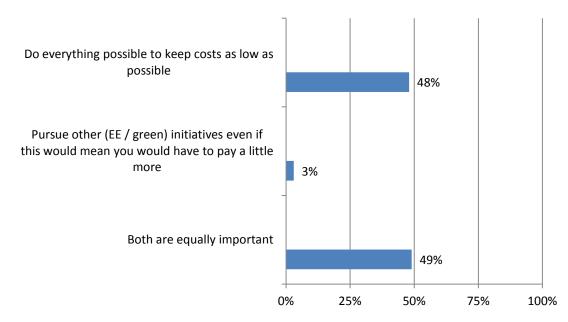


Figure 8-3 Responses to forced choice question on EE / Green vs. Cost Options

Exploring Customer Segments

So far, our analysis of customer perspectives on energy issues has only considered customers as a whole. Customers differ, however, and this section of the report explores some of the key divisions that exist within the non-residential customer base. Specifically, the team developed a segmentation model that disaggregated business customers into groups that differ in terms of whether, and why,

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they might be interested in pursuing energy efficiency options. The goal of the segmentation analysis was to define groups of customers that were different in ways that would allow Ameren Illinois to prioritize customer targets for EE program marketing, and to develop targeted messages for each of those segments.

Using a variety of attitudinal and behavioral inputs (see the discussion earlier in this report), the team identified a set of six business customer segments that seemed to best represent the differences in this population on these issues. The segment sizes are outlined in Figure 8-4 below.

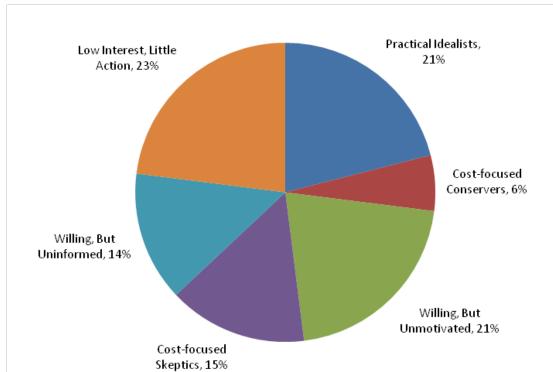


Figure 8-4 Business Segment Distribution

Base Segment Descriptions

Summary descriptions for each of the segments follow:

Practical Idealists (21%)

Concerned with conserving energy, both from a cost-focus and an environmental perspective (they are the "greenest" segment). They are feature focused when considering equipment, but they also say they research options and compare prices. They have the highest opinion of Ameren Illinois, particularly on the dimensions of trust and being a leader in EE. They tend to be high on familiarity with EE / conservation measures to date, and are most likely to say that they would adopt new EE / conservation measures in the future.

Cost-Focused Conservers (6%)

Informed about, and interested in, conservation / EE measures, but for cost reasons rather than environmental reasons. This group believes in the value of EE as a way to save money, and has taken many prior EE actions. They trust Ameren Illinois and believe the company should keep costs low for their customers while also pursuing green options. They have the highest average kWh, higher than average building size and number of employees, and the second highest program take rate.

Willing, But Unmotivated (21%)

This group believes in conserving energy, for both environmental and cost reasons, and has the highest familiarity with EE / conservation measures. Despite this, they aren't as active as you might expect in conserving energy, which could be due to the fact that they already have lower than average kWh. They are, however, likely to say they would adopt new EE programs in the future.

Cost-Focused Skeptics (15%)

Skeptical about global warming and the need for EE, this group is only focused on saving energy if it will in turn save them money. They have a positive opinion of Ameren Illinois, but believe their priority should be keeping costs low for their customers rather than focusing on conservation. While unfamiliar with EE measures, they have higher than average kWh and would be somewhat likely to adopt new EE / conservation measures in the future if they thought it would save them money.

Willing, But Uninformed (14%)

This group is relatively less experienced with EE / conservation measures to-date, and unsure of what they could be doing in this area, but they believe that conservation is important and that Ameren Illinois should be focused on pursuing green options in addition to keeping energy costs low. They have an average building size and number of employees, as well as have lower than average kWh. They are low on take rates across programs, and are the lowest on familiarity / experience with EE conservation measures currently.

Low Interest, Little Action (23%)

This group has very little interest in conservation or EE. This group actively dislikes Ameren Illinois, particularly on the dimensions of trust and being a leader in EE. They do not want the company to encourage customers to save energy, nor do they want it to pursue green options. They do want the company to keep costs low as its sole focus. They operate in smaller than average size buildings, and have smaller than average company size (more than half have less than 10 employees). They are the lowest on likelihood to adopt new EE programs and second lowest on existing familiarity.

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Segment Marketing

Table 8-1 Segment Marketing

Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
	Receptive to messages on both	Building size is small, but annual	Projected take rates are the	They are already inclined to take
	the positive environmental	kWh usage is average, suggesting	highest here of any of the other	EE actions – and they have
	impact of EE / conservation, as	that this segment has room to be	segments. Also note that high	already made some EE changes.
Practical Idealists	well as cost-savings – plus	more efficient in its use of energy.	opinions of Ameren Illinois would	Encouraging them to do more
(21%)	satisfaction with Ameren Illinois is		likely make them more receptive	may just mean helping them to
	high, making them likely to trust		to further education/	find the opportunity.
	their utility as a reliable source		encouragement on the benefits	
	for energy efficiency suggestions.		of participating in new EE options.	
	This segment is positive toward	Building and company sizes tend	They are not fans of Ameren	Since this group tends to like and
	Ameren Illinois, and while they	to be larger than average and	Illinois, but are fans of saving	trust Ameren Illinois, they should
	think encouraging customers to	they have the highest average	money (they have the second	be open and receptive to
	participate in energy saving	kWh usage of any segment.	highest average new program	messages from the company
	programs is just as important as	Having said that, they are very	take rate). Environmental	about reasons to consider EE /
Cost-Focused	keeping energy costs low, for	familiar with EE and conservation	messages will not have much	conservation actions, particularly
Conservers	their business cost cutting is top	actions and programs, and have	effect on them, nor will messages	as a way to save money.
(6%)	of mind. They will likely be very	the highest past participation of	that feel like "education" (since	
	receptive to messages about	any segment, so while there may	they already think they are pretty	
	saving energy as a way to save	be opportunity for load	knowledgeable).	
	money.	reduction, the simple (and low		
		cost) things have probably been		
		done already.		

Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
Willing, But Unmotivated (21%)	This is a challenging segment because they appear to be green, but are not deeply so. They agree with overall statements of environmental concern and are the most familiar with EE/conservation of any segment, but when pushed, admit that they do not typically worry about the environmental effects of their day-to-day actions.	This group has average size buildings and larger company size, but lower than average kWh. They have taken some action to reduce their energy usage in the past, but doing so isn't top of mind.	Despite a current lack of action in EE/conservation measures, this segment is interested in participating in EE options in the future. Motivating this segment to act will be challenging, but there is potential to tap into their already high level of EE knowledge to convince them that participation would result in both cost and energy savings.	This group believes in EE and that Ameren Illinois should focus their efforts on both lowering energy costs and pursuing green initiatives. And while willing to participate in those initiatives, they will likely need messaging around how such programs would benefit them directly in order to become motivated to act.
Cost-Focused Skeptics (15%)	This is also a challenging segment for Ameren Illinois. They have the lowest participation in EE initiatives and are skeptical about the need for such measures. They are, however, favorable toward Ameren Illinois, who they believe should be focused only on decreasing energy costs for their customers.	This group has higher than average kWh and has yet to take much action to reduce their energy usage. There is definite opportunity for load reduction here, though they will need to be convinced of the cost benefit as messages around energy savings won't appeal to them.	This group is somewhat responsive to the EE measures tested, though obviously, there are barriers to implementation for them. They don't believe in the need for EE / conservation and are unfamiliar with such efforts to-date, but could be swayed by opportunities to cut costs.	This group likes and trusts Ameren Illinois, but is the most adamant that they focus solely on helping their customers save on energy costs. Increasing awareness of the need for EE/conservation, as well as promoting EE initiatives that will have a near-term cost savings would likely be an important starting points for this population.

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Segment	Marketing Effort	Potential Load Impact	Receptivity to Future Conservation Programs	Going Forward
Willing But Uninformed (14%)	This segment will require a substantial education effort as they have the lowest familiarity and experience with EE / conservation to-date. But, they are moderately favorable to the company and its efforts to pursue both lower costs and green initiatives, so would likely be receptive to messaging focused on the basics of EE in the workplace.	This group has average size buildings and number of employees but lower than average kWh. Despite this, their lack of action so far indicates a substantial opportunity to improve the EE of these buildings, they are simply unsure of where to start.	This segment expresses lower take rates across the EE measures tested, but this is very likely due to a lack of awareness and understanding of the benefits of EE / conservation. Education is the key to increasing take rates among this group.	EE education should be the primary focus for engaging this segment. They are moderately favorable toward Ameren Illinois and believe that EE is important, but they lack the knowledge and experience to know where to start with their own conservation efforts.
Low Interest, Little Action (23%)	This segment would likely be the most difficult to market to as they are the least likely to like Ameren Illinois, and the least concerned with environmental issues. Beyond this, they appear to simply be unconcerned with energy and related issues.	Buildings and company sizes in this segment tend to be somewhat smaller than average, and with lower kWh. They have done relatively little to-date in terms of EE measures.	Take rates are the lowest in this group and familiarity / experience with EE is also very low. Given their lack of involvement in this category, it is not clear at all what sort of messaging would be likely to get this group's attention.	While it could be argued that EE education is needed with this group, it is unclear how to get their attention to attend to any type of education.

Business Segments – At a Glance

Table 8-2 Segment Prioritization

	Practical Idealists	Cost-Focused Conservers	Willing, But Unmotivated	Cost-Focused Skeptics	Willing, But Uninformed	Low Interest, Little Action
Size	21%	6%	21%	15%	14%	23%
Opportunity	High They have done a lot already, but are open to – and able to – do more	Medium-High Experienced in EE and willing to do more; if the money is right	Medium-Low Convinced of the advisability of EE actions, but unmotivated to act to date	Medium-Low Skeptical about the need for EE, but are interested in its cost saving benefits	Low Least informed and unsure of how EE could benefit them or even where to start	Very Low Totally uninvolved with the energy category and no interest in becoming so
Role for Ameren Illinois	Trusted Green Partner: They like the company and see Ameren Illinois as having an important role in both EE and promoting green initiatives	Save Us Money: They like the company and see Ameren Illinois as having an important role in both EE and lowering energy costs	Help Me: They like the company and want it to help them become more energy efficient; they just need to be swayed in that direction.	Save Us Money: Positive opinion of the company, but just want Ameren Illinois to focus on lowering costs (for me)	Teach Me: Neutral view of the company, but see Ameren Illinois as having an important role in both EE and lowering energy costs; interest in EE would likely increase with more information	Don't Bother Me: Dislike the company, not interested in energy issues generally, and see little likely value in EE actions

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Table 8-3 Likely Takers given a 3 year payback period

	Practical Idealists	Cost-Focused Conservers	Willing, But Unmotivated	Cost-Focused Skeptics	Willing, But Uninformed	Low Interest, Little Action	
Size	21%	6%	21%	15%	14%	23%	
Measures for purchasing/installing energy efficient equipment (Assumes a normal replacement cycle)							
Light Bulbs	65%	56%	55%	47%	36%	38%	
Heating System	59%	58%	57%	53%	42%	41%	
Cooling System	58%	57%	60%	56%	46%	44%	
Refrigeration Unit	56%	54%	53%	41%	39%	35%	
AC / Chiller Unit	56%	60%	58%	53%	40%	39%	
Copier / Printer	51%	47%	47%	36%	31%	29%	
Cooking Equipment	50%	54%	40%	28%	27%	33%	
PC	49%	47%	44%	41%	30%	28%	
Server	47%	46%	47%	35%	31%	28%	
Measures for improving energy efficiency of existing systems							
Install EE fans on chiller units	55%	64%	54%	58%	48%	36%	
Install a timer on pool pump	64%	32%	60%	30%	30%	n/a	
Maintain cooling system regularly	61%	51%	52%	36%	35%	35%	
Maintain heating system regularly	61%	51%	53%	36%	35%	36%	
Install a programmable thermostat	58%	52%	51%	49%	41%	33%	
Upgrade portions of your lighting system	57%	56%	51%	40%	37%	38%	
Install exterior lighting controls	57%	62%	53%	46%	39%	35%	
Purchase EE pumps or motors for HVAC system	54%	53%	54%	47%	34%	36%	
Add ventilation system volume controls	54%	49%	51%	42%	30%	30%	
Install variable speed drives on chiller pumps	53%	64%	48%	8%	4%	36%	
Install occupancy / motion sensors for lighting	53%	48%	49%	37%	25%	26%	

	Practical Idealists	Cost-Focused Conservers	Willing, But Unmotivated	Cost-Focused Skeptics	Willing, But Uninformed	Low Interest, Little Action	
Measures for improving energy efficiency of existing systems (continued)							
Purchase EE motors / pumps for non-HVAC equip	53%	53%	52%	43%	36%	32%	
Install interior lighting sensors / timers	52%	49%	45%	36%	29%	28%	
Install variable speed drives on non-HVAC pumps / motors	52%	54%	50%	41%	33%	29%	
Install variable speed drives on HVAC system	51%	54%	54%	45%	33%	36%	
Install "low flow" nozzles or faucet aerators	51%	43%	41%	25%	31%	22%	
Install an Energy Management System	50%	46%	44%	41%	29%	26%	
Implement "re-commissioning" of HVAC system	48%	48%	45%	33%	27%	33%	
Install reflective film on exterior windows	47%	38%	40%	23%	25%	31%	
Install a dishwasher pre-rinse spray valve	42%	54%	27%	23%	35%	27%	
Install a variable speed compressor on refrigeration unit(s)	42%	50%	49%	32%	28%	24%	
Install an Economizer	34%	72%	48%	8%	4%	36%	
Measures not requiring an investment by the customer ⁶							
Reduce thermostat setting during the winter	54%	49%	48%	41%	42%	39%	
Reduce water heater temperature	51%	40%	49%	39%	37%	33%	
Raise your thermostat setting during the summer	50%	47%	46%	40%	38%	36%	

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⁶ No payback period associated with measure

C&I SATURATION SURVEY RESULTS

To gain an understanding of energy use for each building-type segment, information from the survey about building characteristics and end-use equipment were analyzed. This section presents the results of this analysis.

Building Characteristics

Key building characteristics include floor space, age of the building, and number of employees.

Size and Age of Segment Floor Space

Respondents were asked the approximate square footage of all the enclosed floor space in their building (Figure 9-1). The office and education segments have the most total floor space while grocery and restaurants have the least.

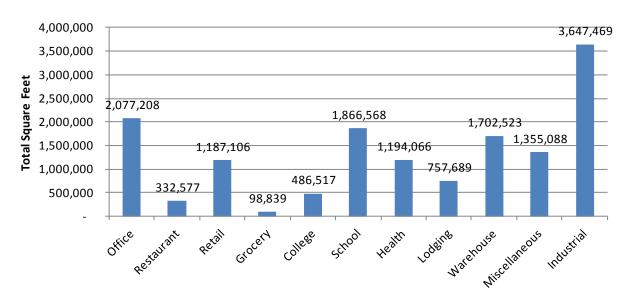


Figure 9-1 Total Square Footage by Segment

Building age is an indicator of the overall efficiency of the building. Further, buildings constructed most recently tend to be more efficient than older buildings. This is an important distinction in the end-use modeling approach taken for this study.

Respondents were asked to identify when the majority of their building or facility was built. The vast majority of floor space was built since 1960 with much of it built in the last decade (Figure 9-2). The three commercial segments with the "newest" buildings are health, warehouses and lodging with more than half built since 1990.

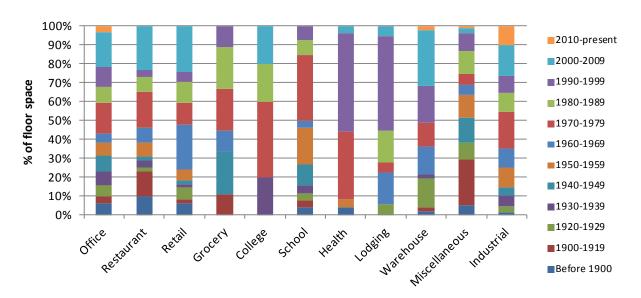


Figure 9-2 Age of Floorspace by Segment

Building Equipment

Respondents were asked about the type of heating cooling and water heating equipment used in the building, the type of fuel used and the saturation of different types of lighting.

Heating and Cooling

The heating and cooling numbers presented here represent the percentage of square feet that is heated or cooled.

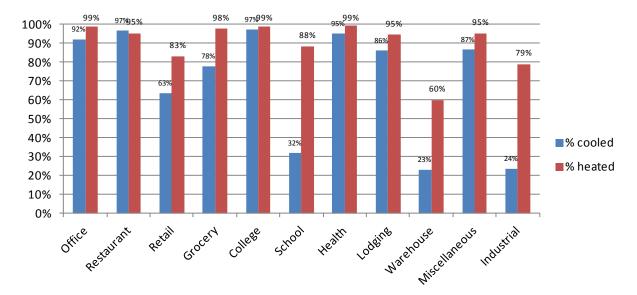


Figure 9-3 Percent of Floor Space Heated and Cooled by Segment

Roof top Units (RTU's) are the most popular type of primary cooling across all segments (Figure 9-4 and Table 9-1) Chillers and Split Systems are also very prevalent in all types of buildings.

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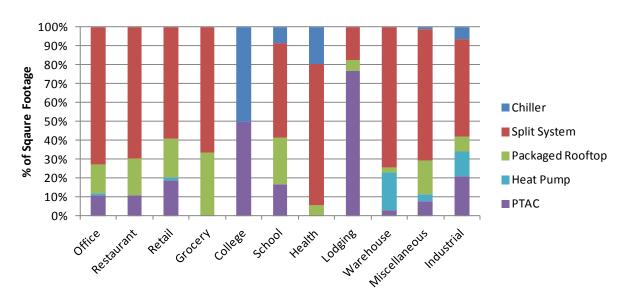


Figure 9-4 Type of Primary Cooling Equipment by Segment

Table 9-1 Primary Cooling Equipment by Segment

Segment	Chiller	Split System	Packaged Rooftop	PTAC	Heat Pump
Office	0%	73%	15%	11%	1%
Restaurant	0%	70%	20%	11%	0%
Retail	0%	59%	20%	19%	2%
Grocery	0%	67%	33%	0%	0%
College	50%	0%	0%	50%	0%
School	8%	50%	25%	17%	0%
Health	19%	75%	6%	0%	0%
Lodging	0%	18%	6%	76%	0%
Warehouse	0%	74%	3%	3%	20%
Miscellaneous	1%	69%	18%	8%	4%
Industrial	6%	52%	8%	21%	13%

Natural gas furnaces are the main types of heating equipment used in most segments (Figure 9-5 and Table 9-3). Lodging is the only segment that uses electricity as its primary heating fuel.

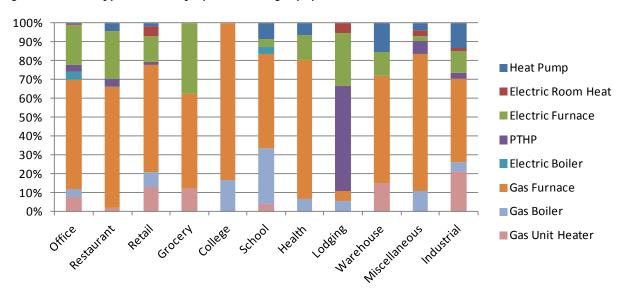


Figure 9-5 Type of Primary Space Heating Equipment and Fuel

Table 9-2 Primary Space Heating Equipment by Segment

Segment	Heat Pump	Electric Room Heat	Electric Furnace	PTHP	Electric Boiler	Gas Furnace	Gas Boiler	Gas Unit Heater
Office	1%	1%	21%	3%	4%	58%	4%	8%
Restaurant	4%	0%	26%	4%	0%	64%	0%	2%
Retail	2%	5%	14%	2%	0%	57%	8%	13%
Grocery	0%	0%	38%	0%	0%	50%	0%	13%
College	0%	0%	0%	0%	0%	83%	17%	0%
School	8%	0%	4%	0%	4%	50%	29%	4%
Health	6%	0%	13%	0%	0%	74%	6%	0%
Lodging	0%	6%	28%	56%	0%	6%	6%	0%
Warehouse	15%	0%	13%	0%	0%	57%	0%	15%
Miscellaneous	4%	4%	2%	7%	0%	73%	11%	0%
Industrial	13%	2%	11%	3%	0%	44%	5%	21%

Water Heating

Natural gas is the fuel used most often to heat water in the majority of segments (Figure 9-6 and Table 9-3). But both the office segment and the lodging segment are more likely to have an electric water heater.

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Figure 9-6 Type of Water Heating

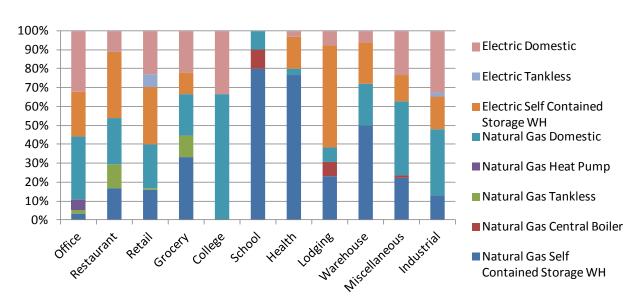


Table 9-3 Water Heating by Segment

	nave nearing by eagment								
Segment	Natural Gas Self Contained Storage WH	Natural Gas Central Boiler	Natural Gas Tankless	Natural Gas Heat Pump	Natural Gas Domestic	Electric Self Contained Storage WH	Electric Tankless	Electric Domestic	
Office	3%	0%	2%	5%	33%	24%	0%	32%	
Restaurant	17%	0%	13%	0%	24%	35%	0%	11%	
Retail	16%	0%	1%	0%	23%	31%	6%	23%	
Grocery	33%	0%	11%	0%	22%	11%	0%	22%	
College	0%	0%	0%	0%	67%	0%	0%	33%	
School	80%	10%	0%	0%	10%	0%	0%	0%	
Health	77%	0%	0%	0%	3%	17%	0%	3%	
Lodging	23%	8%	0%	0%	8%	54%	0%	8%	
Warehouse	50%	0%	0%	0%	22%	22%	0%	6%	
Miscellaneous	22%	1%	0%	0%	39%	14%	0%	23%	
Industrial	13%	0%	0%	0%	35%	17%	2%	33%	

Lighting

The survey asked respondents to count the number of lamps by various types in the facility. The most common type of lamp is fluorescent. In the LoadMAP model, fluorescent lamps are differentiated from the screw-in or specialty lamps.

Table 9-4 Average Number of Lamps by Type- All Indoor

Segment	Fluorescent	Incandescent	CFL	LED	Other
Office	35.3	3.9	20.3	2.4	5.2
Restaurant	23.2	5.0	11.6	2.1	9.5
Retail	73.5	4.0	5.7	1.5	6.0
Grocery	76.2	4.3	4.7	0.6	4.6
College	836.6	2.9	172.6	22.1	73.0
School	154.7	7.7	4.3	1.8	14.1
Health	70.5	5.5	36.4	0.6	11.9
Lodging	55.9	43.9	127.9	2.5	10.9
Warehouse	41.4	3.1	3.6	0.0	11.7
Miscellaneous	52.1	10.7	8.7	1.0	11.3
Industrial	150.2	4.7	5.8	0.9	10.2

The most prevalent type among the indoor fluorescent tubes is still the T12 lamps (Table 9-5). Lodging and office buildings are the segments with the most LED fluorescent lamps.

Table 9-5 Indoor Fluorescent Tubes by Type

Segment	T12	Т8	Super T8	T5	LED	Other
Office	60%	34%	0%	0%	5%	1%
Restaurant	74%	22%	0%	2%	1%	0%
Retail	63%	31%	1%	4%	1%	0%
Grocery	38%	62%	0%	0%	0%	0%
College	17%	78%	0%	4%	1%	0%
School	56%	38%	3%	3%	0%	0%
Health	60%	24%	15%	0%	0%	0%
Lodging	81%	13%	2%	0%	4%	0%
Warehouse	65%	33%	0%	1%	0%	0%
Miscellaneous	55%	30%	7%	6%	1%	1%
Industrial	61%	31%	1%	7%	0%	0%

To calculate lighting EUIs, respondents were asked to estimate the percentage of lamps that were on during regular business hours and non-business hours by lighting type. Not surprisingly, more lights were on during business hours than non-business hours. A higher percentage of "other" lighting is on during non-business hours since the category includes lighting types that are typically used for security.

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Table 9-6 Average Percent of Hours Lamps are On– All Indoor

Segment	Fluor	escent	Incand	candescent CFL		L	ED	Other		
	Biz Hrs	Non- Biz Hrs								
Office	78%	3%	32%	2%	56%	13%	59%	31%	41%	39%
Restaurant	85%	7%	86%	16%	72%	40%	71%	18%	69%	42%
Retail	90%	5%	74%	1%	64%	21%	92%	19%	54%	45%
Grocery	100%	10%	75%	0%	84%	20%	100%	0%	71%	28%
College	93%	14%	100%	15%	90%	21%	97%	20%	81%	39%
School	84%	25%	45%	3%	22%	5%	76%	4%	60%	38%
Health	96%	7%	85%	11%	83%	23%	90%	76%	32%	74%
Lodging	90%	20%	88%	21%	84%	29%	62%	80%	44%	55%
Warehouse	79%	4%	61%	6%	72%	4%	75%	0%	47%	48%
Miscellaneous	63%	4%	54%	5%	38%	18%	39%	3%	54%	17%
Industrial	84%	5%	51%	5%	62%	12%	66%	47%	61%	44%

Energy Efficiency Measures

Respondents were asked what energy efficiency measures they have implemented in the last three years and what measures they had planned in the next two years. The measures were divided into five categories: lighting, HVAC, water heating, building structure and equipment upgrades. This information was used to determine the current saturation of energy-efficiency measures and to develop the adoption rates for the forecast.

Measures Implemented

HVAC upgrades are the most popular measures installed across all segments (Table 9-7). Adding insulation is also common, but varies more by segment. Less than half of all respondents in each segment implemented any of the HVAC measures shown in Table 9-7.

Table 9-7 HVAC Measures Implemented in Last 3 years

Segment	Purchase more energy efficient HVAC system	Install solar panels	Install heat recovery system	Add insula- tion to ductwor k	Retro- commis- sioning of HVAC equip- ment	Install VSD on fan motors	Add econo- mizer	Add EMS
Office	19%	1%	1%	9%	4%	1%	1%	6%
Restaurant	44%	0%	2%	7%	4%	2%	2%	2%
Retail	22%	0%	0%	10%	1%	1%	0%	0%
Grocery	30%	0%	0%	11%	10%	10%	0%	0%
College	33%	0%	0%	0%	14%	14%	0%	14%
School	22%	0%	0%	8%	0%	0%	0%	4%
Health	33%	0%	3%	18%	3%	3%	3%	5%
Lodging	32%	0%	0%	5%	0%	5%	5%	5%
Warehouse	19%	0%	0%	0%	0%	13%	0%	13%
Miscellaneous	30%	0%	1%	11%	1%	6%	0%	4%
Industrial	22%	0%	1%	18%	3%	7%	3%	3%

Purchasing a more energy efficient water heating system is the most popular water heating measure, followed by reducing the water heater temperature. The grocery and lodging segments are the most likely to have implemented a water heating measure in the last 3 years, with over two-thirds implementing at least one measure.

Table 9-8 Water Heating Measures Implemented in Last 3 years

Segment	Purchase more energy efficient WH system	Insulate pipes	Reduce water temperature	Install low flow nozzles	Install faucet aerators	Other water heating measure
Office	9%	2%	6%	1%	2%	0%
Restaurant	42%	7%	25%	9%	9%	0%
Retail	15%	7%	13%	4%	7%	1%
Grocery	50%	11%	40%	0%	10%	0%
College	14%	14%	29%	14%	14%	0%
School	19%	4%	15%	4%	4%	0%
Health	32%	3%	18%	8%	8%	0%
Lodging	21%	5%	10%	42%	40%	5%
Warehouse	17%	19%	25%	0%	25%	0%
Miscellaneous	23%	9%	22%	2%	9%	6%
Industrial	16%	10%	12%	4%	3%	0%

Lighting upgrades have been implemented in 12% or more of the floor space in all the segments. Upgrading a fluorescent lighting system and switching to CFLs have been popular measures that were implemented, likely due to the awareness around the change in the lighting standard (Table 9-9). Installing occupancy or daylighting sensors is less prevalent.

Table 9-9 Lighting Measures Implemented in Last 3 years

Segment	Upgrade fluorescent lighting system	Reduce number of fluorescent fixtures	Replace with CFLs or LEDs	Replace with task lighting	Install occupancy sensors	Install daylighting sensors
Office	39%	13%	53%	1%	6%	6%
Restaurant	40%	14%	40%	21%	4%	5%
Retail	31%	11%	32%	14%	5%	1%
Grocery	60%	20%	50%	0%	0%	0%
College	43%	14%	43%	14%	14%	14%
School	33%	4%	12%	4%	11%	4%
Health	37%	34%	42%	3%	3%	3%
Lodging	63%	47%	47%	5%	11%	10%
Warehouse	27%	2%	21%	2%	29%	0%
Miscellaneous	57%	10%	44%	6%	8%	21%
Industrial	44%	12%	33%	10%	12%	10%

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Overall very few building structure upgrades have been implemented in the last 3 years (Table 9-10), although lodging, restaurants and schools were the most likely to have implemented at least one building measure. The most common measure implemented was insulation of exterior doors, wall, ceilings or roofs.

Table 9-10 Building Structure Measures Implemented in Last 3 years

Segment	Replace windows with "low e" windows	Insulate exterior doors, walls ceilings or roof	Add window shades, reflective film or shading trees	Install a "cool roof"
Office	8%	3%	6%	7%
Restaurant	5%	30%	14%	9%
Retail	6%	18%	14%	4%
Grocery	0%	22%	0%	22%
College	14%	29%	17%	14%
School	15%	12%	19%	7%
Health	0%	3%	26%	3%
Lodging	21%	16%	11%	10%
Warehouse	4%	19%	21%	4%
Miscellaneous	6%	25%	19%	9%
Industrial	12%	15%	3%	10%

Overall very few equipment upgrades have been implemented in the last 3 years (Table 9-11). A couple of segments have focused on upgrading equipment: thirty-three percent of the grocery floor space has upgraded refrigeration units and the lodging segment has purchased more efficient refrigeration, office and kitchen equipment. While colleges did not make any equipment upgrades in the past three years, schools implemented each of the measures shown in Table 9-11.

Table 9-11 Equipment Upgrades Implemented in Last 3 years

Segment	Purchase more efficient refrigeration unit	Purchase high efficiency pool pump or heater	Purchase more efficient computer or office equipment	Purchase more efficiency dishwasher or kitchen equipment
Office	4%	0%	13%	4%
Restaurant	25%	0%	2%	7%
Retail	2%	0%	8%	1%
Grocery	33%	0%	10%	0%
College	0%	0%	0%	0%
School	12%	4%	19%	12%
Health	18%	3%	18%	0%
Lodging	26%	0%	11%	11%
Warehouse	2%	0%	2%	0%
Miscellaneous	6%	0%	23%	7%
Industrial	7%	0%	15%	4%

COMPARISON TO 2009 STUDY

2009 Cadmus

In this section, we compare survey and market-characterization results from the current study (base year 2011) with the previous study conducted in 2009.

Residential Sector

Figure 10-1 and Figure 10-2 show the size of each of the segments as a percentage of residential sector energy use. In the 2009 study, manufactured homes were treated as a separate segment. In the 2011 study, manufactured homes are included with the single-family segment.

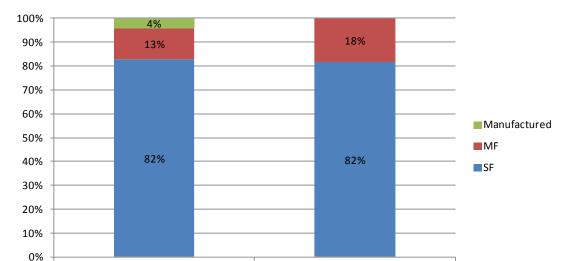
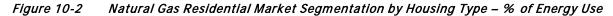


Figure 10-1 Electric Residential Market Segmentation by Housing Type - % of Energy Use



2011 Ameren IL

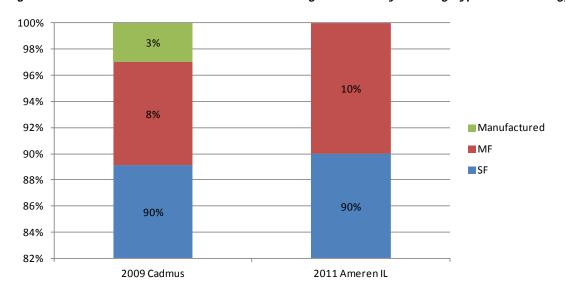


Figure 10-3 and Figure 10-4 shows the distribution of electricity and natural gas energy consumption by end use for all homes. Four main electricity end uses in the Cadmus study — appliances, electronics, cooling, and heating account for about 71% of total use. In this study, appliances, electronics, cooling, and heating account for 62% of total use. The difference in heating is likely due to a colder winter in 2009 than in 2011.

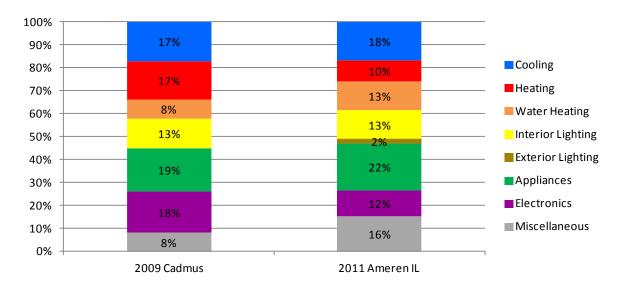


Figure 10-3 Residential Electricity Use by End Use (2011), All Homes

Natural gas usage is dominated by space heating with 73% of natural gas usage in the Cadmus study compared to 69% for the 2011 study. Water heating accounted for 16% of the natural gas usage in the Cadmus study compared to 21% in 2011. The two studies were similar in the usage of natural gas for cooking equipment and miscellaneous.

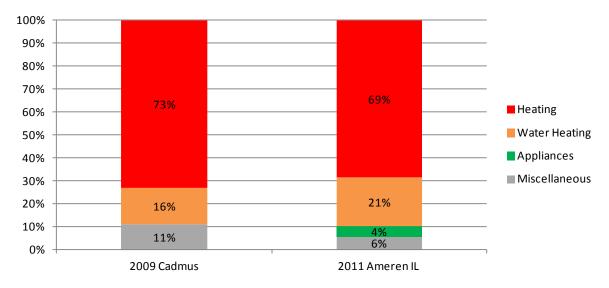


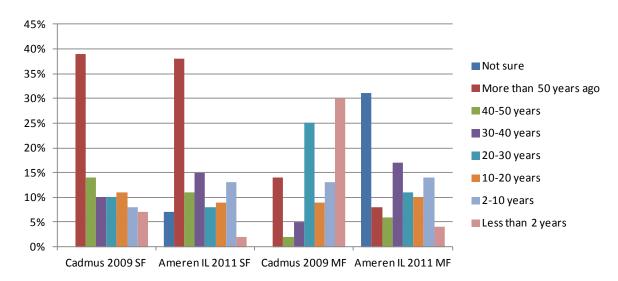
Figure 10-4 Residential Natural Gas Use by End Use (2011), All Homes

The average age of a single family home in the Ameren Illinois service territory is relatively old, with close to 40% of homes built over 50 years ago. Due to the recession, new home construction in the service territory slowed down, with less than two percent of homes built in the last two years. About one-third of multi-family respondents are not sure when their unit was built. Since the Cadmus study

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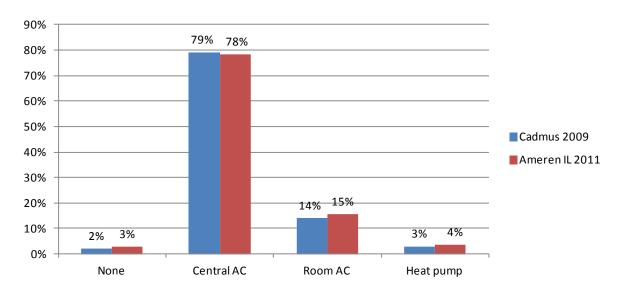
does not include the percentage it is difficult to make direct comparisons. However, the slowdown in new construction is noticeable when comparing homes built less than two years ago.

Figure 10-5 Age of the home



As shown in Figure 10-6, the distribution of cooling technologies has not changed significantly since 2009.

Figure 10-6 Distribution of Cooling Technologies



As shown in Figure 10-7 the 2011 study shows fewer natural gas furnaces. While the technologies differ, the distribution of fuel remains the same since the 2009 study.

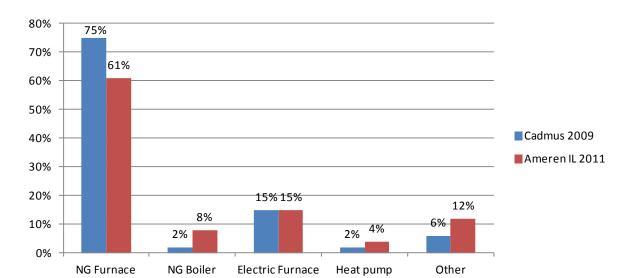


Figure 10-7 Distribution of Heating Technologies

As shown in Figure 10-8, in the 2011 study, more homes use natural gas for heating water than was found in the 2009 study. The difference is likely due to the different samples and not likely due to any fuel switching.

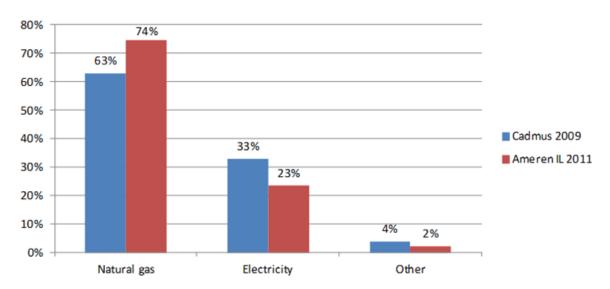


Figure 10-8 Distribution of Water Heating Fuel

The saturation of each of the various appliances has remained fairly similar between 2009 and 2011, as shown in Figure 10-9. It is interesting that the saturation of separate freezers and second refrigerators has remained essentially flat, despite a successful appliance recycling program. For the 2011 study, we matched the respondents with a list of participants in the appliance recycling program. Approximately, 40 respondents had participated in the program since 2009. For those that participated in the program by removing a second refrigerator or freezer, about one-third still reported having one in 2011.

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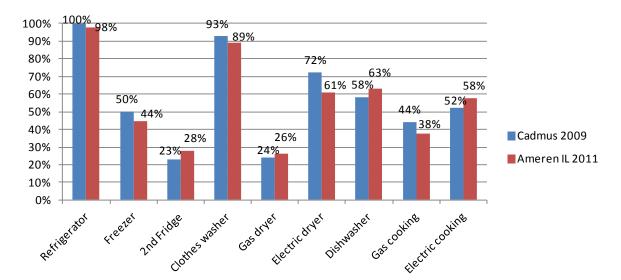


Figure 10-9 Saturation of Appliances and Miscellaneous

The saturation of televisions is difficult to compare since the categories between the two studies do not line up exactly. Since the newer LCD and LED televisions are typically larger than 32 inches, it seems as if the saturation of large flat screens increased since 2009. The saturation of plasma televisions is essentially flat (Figure 10-10).

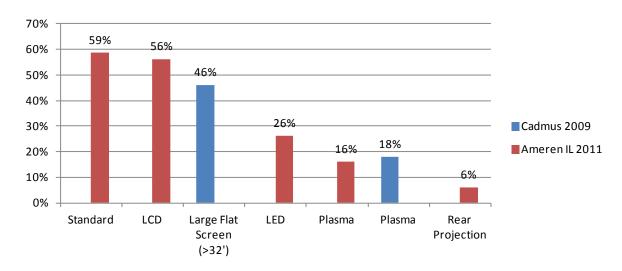


Figure 10-10 Saturation of Electronics

Commercial Sector

Figure 10-11 and Figure 10-12 show the segmentation of each of the building-types as a percentage of commercial sector electricity and natural gas sales. The differences in segmentation are likely due to methodology. The respondents to the 2011 study are segmented based on self-reported building types from the survey. It is our understanding that the Cadmus study used the customer information system to identify building segments. Note that the two studies used different segmentation. Therefore if a segment shows 0% it is included in one of the other building segments.

Figure 10-11 Commercial Market Segmentation by Building Type – Percent of Electricity Use

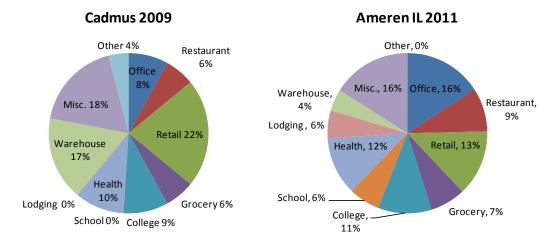


Figure 10-12 Commercial Market Segmentation by Building Type – Percent of Natural Gas Use

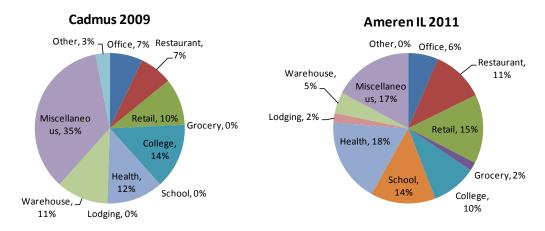
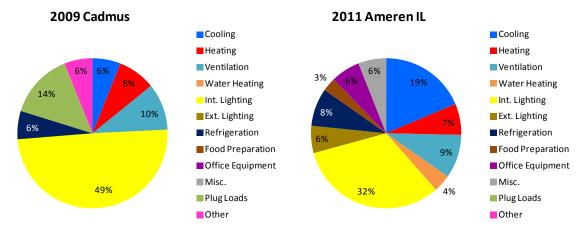


Figure 10-13 and Figure 10-14 show the distribution of electricity and natural gas energy consumption by end use for all commercial buildings from the 2009 and 2011 studies. Electricity usage is dominated by lighting, with interior and exterior varieties accounting for over one third of consumption for both studies. In the 2009 study, after lighting, plug load accounts for the next largest end use at 14%. In the 2011 study, the second largest end use is cooling. Natural gas usage is dominated by space heating (84%) in the 2009 study and (58%) in the 2011 study. Water heating is second to space heating, accounting for 9% of usage in 2009 and 24% in 2011.

Figure 10-13 Commercial Electricity Use by End Use (2011), All Buildings



10-6 www.enernoc.com

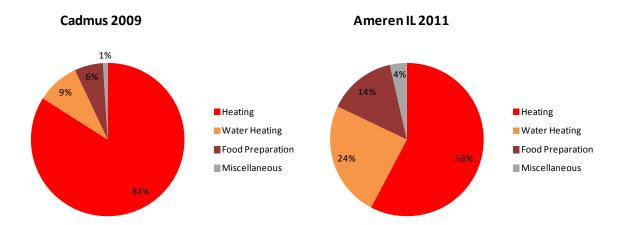


Figure 10-14 Commercial Natural Gas Use by End Use (2011), All Buildings

The saturation of commercial heating equipment in the commercial sector is relatively unchanged since the 2009 study, as shown in Figure 10-15. Furnaces remain the dominate space heating technology.

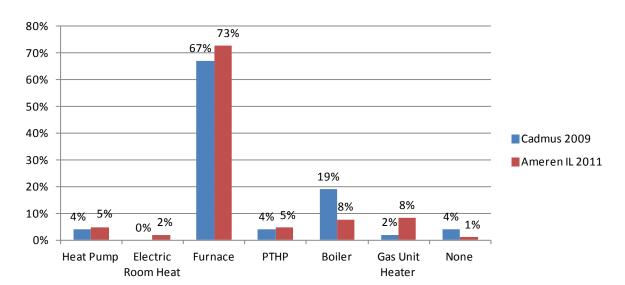


Figure 10-15 Types of Commercial Heating Equipment

The categories for space cooling in the commercial sector vary between the two studies, making it difficult to compare. However, the saturation of chillers and heat pumps remained about the same since 2009, as shown in Figure 10-16.

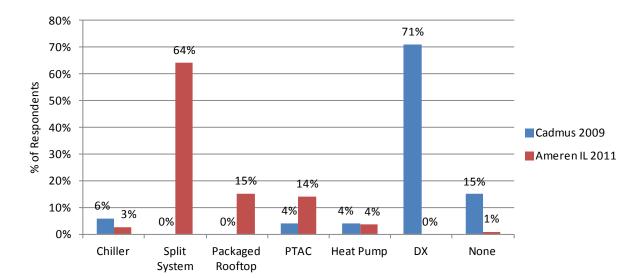


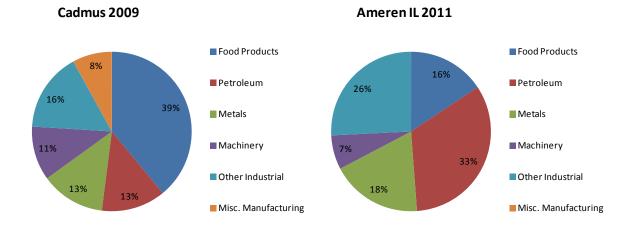
Figure 10-16 Types of Commercial Cooling Equipment

Industrial Sector

Figure 10-17 and Figure 10-18 shows the size of each of the segments as a percentage of industrial sector energy sales. The difference in segmentation likely stems from the methodology of assigning customers to segments. The 2011 study relied on self-reported responses to the survey, while it is our understanding that the 2009 study relied on Ameren's customer information system.

Figure 10-19 and Figure 10-20 show the distribution of electricity and natural gas energy consumption by end use for all industrial customers. In the 2009 study, process is the largest end use at 62%, while in the 2011 study, the motors end use is the largest overall electric end use for the industrial sector, accounting for 56% of energy use. Note that the motors end use includes a wide range of industrial equipment, such as air compressors, refrigeration compressors, pumps, conveyor motors, and fans. The difference could be accounted for in definition of the end uses. In the 2009 study, the motors end use accounts for the second most energy use at 16% while in the 2011 study, the process end use accounts for 23% of electricity use. Natural gas usage is dominated by the process end use for both the 2009 and 2011 studies with 51% and 69%, respectively. Space heating accounted for 34% of natural gas usage in the 2009 study while in the 2011 study, it accounted for 27%.





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Figure 10-18 Industrial Market Segmentation – Percentage of Natural Gas Use

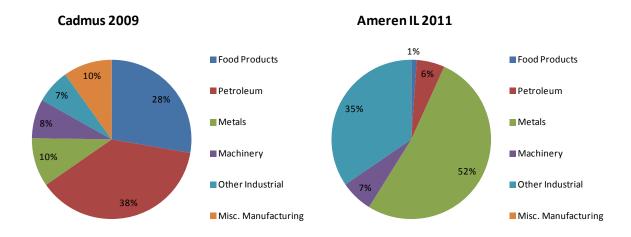


Figure 10-19 Industrial Electricity Use by End Use (2009, 2011), All Industries

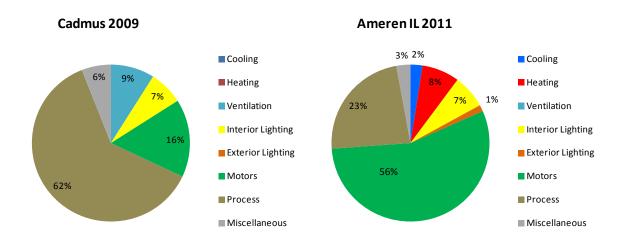
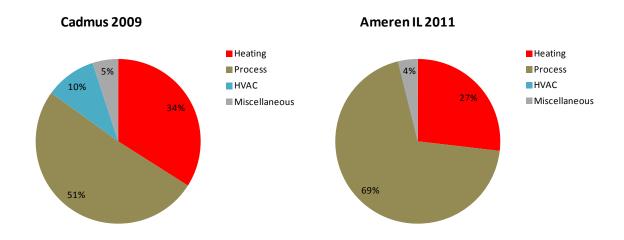


Figure 10-20 Industrial Natural Gas Use by End Use (2009, 2011), All Industries



RESIDENTIAL SAMPLE DESIGN

Sample design begins with development of the population frame. A significant amount of work goes into the frame preparation in order to target the correct population to accurately represent the Ameren Illinois service territory. The residential sample frame preparation began with an analysis of Ameren Illinois' billing accounts for the residential sector for June 1, 2010 through May 31, 2011.

Approximately 16% of the total customer population was removed from consideration for various reasons. Records with zero annual usage were removed. We also removed customers that had extremely high usage as defined by greater than 175,000 kWh or 7,000 therms. These accounts represent agricultural customers. Ameren Illinois will determine if these customers should be included in the residential sector or industrial sector. Customers that did not appear to have a full year of data were also excluded. If a customer had less than 9 electric bills or less than 4 natural gas bills, they were removed from the population. Table A-1 shows the breakdown of how many customers were removed and why.

	Number of Electricity Records	Number of Natural Gas Records	Percent of Original Population
Not enough data	11,612	3,541	11%
Zero annual usage	2,717	3,253	4%
High usage	49	41	0%
Total Removed	14,378	6,835	16%

The remaining residential customer accounts were broken up into 12 usage categories based on actual annual usage from the 2010-11 Ameren Illinois billing data. By having electric, natural gas and combination (electric and natural gas) customers, the stratification is more complex. Therefore we end with 12 strata:

- 1. Low Electric Electric only customers with electricity usage less than 10,000 kWh
- 2. Medium Electric Electric only customers with electricity usage greater than or equal to 10,000 kWh, but less than 21,400 kWh
- 3. High Electric Electric only customers with electricity usage greater than or equal to 21,400 kWh
- 4. Low Gas Natural gas only customers with natural gas usage less than 600 therms
- 5. Medium Gas Natural gas only customers with natural gas usage greater than or equal to 600 therms, but less than 1,100 therms
- 6. High Gas Natural gas only customers with natural gas usage greater than or equal to 1,100 therms
- 7. Low Electric/Low Gas Combination customers with electricity usage less than 8,600 kWh and natural gas usage less than 650 therms
- 8. Low Electric/High Gas Combination customers with electricity usage less than 8,600 kWh and natural gas usage greater than or equal to 650 therms
- 9. Medium Electric/Low Gas Combination customers with electricity usage greater than or equal to 8,600 kWh, but less than 16,400 kWh and natural gas usage less than 850 therms

- 10. Medium Electric/High Gas Combination customers with electricity usage greater than or equal to 8,600 kWh, but less than 16,400 kWh and natural gas usage greater than or equal to 850 therms
- 11. High Electric/Low Gas Combination customers with electricity usage greater than or equal to 16,400 kWh and natural gas usage less than 1,050 therms
- 12. High Electric/High Gas Combination customers with electricity usage greater than or equal to 16,400 kWh and natural gas usage greater than or equal to 1,050 therms

Table A-2 shows how the residential sector is allocated across the usage categories.

Table A-2 Ameren Illinois Residential Customer Billing Analysis

Stratum	Number of Accounts	% of Total Accounts	Total MWh	% of kWh	Total Therms (000)	% of Therms
Low Electric	193,122	17%	1,119,848	9.5%		
Medium Electric	173,511	16%	2,527,665	21.5%		
High Electric	61,666	6%	1,804,717	15.3%		
Low Gas	35,476	3%			13,984	2.6%
Medium Gas	52,083	5%			42,339	7.9%
High Gas	15,699	1%			22,554	4.2%
Low Electric/ Low Gas	133,423	12%	698,061	5.9%	62,377	11.6%
Low Electric/High Gas	103,010	9%	638,261	5.4%	100,593	18.7%
Med Elec/Low Gas	147,744	13%	1,738,143	14.8%	90,787	16.8%
Med Elec/High Gas	109,925	10%	1,328,587	11.3%	125,456	23.3%
High Electric/ Low Gas	59,755	5%	1,266,780	10.8%	39,564	7.3%
High Elec/High Gas	28,243	3%	635,792	5.4%	41,377	7.7%
Total	1,113,657	100%	11,757,852	100%	539,030	100%

The breakdown among usage categories was then used to develop a sample target for each of the residential surveys with a goal of collecting 700 completed responses per residential survey. Table A-3 shows how the 700 target responses were allocated among the usage categories.

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Table A-3 Ameren Illinois Residential Sample Target

Stratum	Number of Accounts	% of Total Accounts	Proposed Sample	% of Sample
Low Electric	193,122	17%	66	9%
Medium Electric	173,511	16%	69	10%
High Electric	61,666	6%	73	10%
Low Gas	35,476	3%	30	4%
Medium Gas	52,083	5%	30	4%
High Gas	15,699	1%	30	4%
Low Electric/ Low Gas	133,423	12%	66	9%
Low Electric/High Gas	103,010	9%	84	12%
Medium Electric/ Low Gas	147,744	13%	73	10%
Medium Electric/ High Gas	109,925	10%	94	13%
High Electric/ Low Gas	59,755	5%	44	6%
High Electric/ High Gas	28,243	3%	41	6%
Total	1,113,657	100%	700	100%

BUSINESS SAMPLE DESIGN

Sample design begins with development of the population frame. A significant amount of work goes into the frame preparation in order to target the correct sample to accurately represent the Ameren Illinois service territory. Ameren Illinois provided a database of 263,234 account records of commercial and industrial customers, which was used to construct a population frame for the sample design. Each customer record included the following categories of information:

- Account number
- Customer name
- Premise address
- Mailing address
- NAICS code
- · Annual electricity use
- Natural gas use

Several steps were taken to prepare the sample. The first step was to create premises (individual customer locations) based on unique Customer Address (excluding Premise Address Suffix) and Customer Number. This step led to 165,867 establishments. The sample was further reduced by 80,963 establishments, which made up less than 1% of total energy, based on the following:

- Low annual electricity usage for Electric Only customers less than 10,000 kWh
- Low annual natural gas usage for Natural Gas customers less than 1,000 therms
- Low annual electricity AND low annual natural gas for Combination (Electric and Gas) customers

The final C&I population is 81,834 premises which were then mapped to 15 segments based on a mapping of SIC codes to segments. Table B-1 shows the results of this segmentation of the 81,834 premises by segment and type: electric only, natural gas only, or combination electric and natural gas establishment.

Table B-1 C&I Population for Ameren Illinois Study

	Elect	ric Only	Combinatio		mbination		Gas Only		
Segment	Premises	Total GWh	Premises	Total GWh	Total Therms	Premises	Total Therms		
Ag/Fish/Mining	900	401	223	69	6,404,217	91	4,738,806		
Chemicals	68	702	85	426	174,284,070	21	4,457,120		
Education	802	731	1,241	544	19,661,285	466	18,279,387		
Food	133	1,011	168	652	78,812,684	53	103,682,045		
Health	372	346	633	476	17,859,487	126	12,343,385		
Lodging	190	41	384	139	3,591,409	71	1,444,308		
Machinery	325	386	345	840	31,369,679	56	8,334,986		
Miscellaneous	8,998	1,297	10,189	1,414	100,079,619	1,519	14,487,821		
Office	10,551	1,937	9,477	1,353	45,219,744	1,375	65,686,666		
Other Mfg	1,014	1,277	959	1,494	47,468,747	149	19,155,215		
Petroleum	33	79	24	786	1,233,305	12	3,499,377		
Primary Metals	42	1,057	48	622	21,736,514	7	1,087,385		
Retail	4,826	599	9,103	1,408	32,483,044	875	7,169,365		
Unknown	4,795	2,377	5,053	1,177	45,188,512	1,358	13,440,234		
Warehouse	2,309	381	2,052	335	16,565,734	313	9,237,172		
Total	35,358	12,620	39,984	11,735	641,958,050	6,492	287,043,272		

Table B-2 shows the population by segment and the amount of electricity usage and natural gas usage.

Table B-2 Ameren Illinois C&I Establishments and Usage by Segment

	Electric Population		Electricity Usage		Gas Population		Gas Usage	
Stratum Name	Total Premises	% of Premises	Total kWh	% of kWh	Premises	% of Premises	Total Therms	% of Therms
Ag/Fish/Mining	1,123	1%	469	2%	314	1%	11,143,023	1%
Chemicals	153	0%	1,128	5%	106	0%	178,741,190	19%
Education	2,043	3%	1,275	5%	1,707	4%	37,940,672	4%
Food	301	0%	1,663	7%	221	0%	182,494,729	20%
Health	1,005	1%	822	3%	759	2%	30,202,872	3%
Lodging	574	1%	179	1%	455	1%	5,035,717	1%
Machinery	670	1%	1,226	5%	401	1%	39,704,665	4%
Miscellaneous	19,187	25%	2,711	11%	11,708	25%	114,567,440	12%
Office	20,028	27%	3,290	14%	10,852	23%	110,906,410	12%
Other Mfg	1,973	3%	2,771	11%	1,108	2%	66,623,962	7%
Petroleum	57	0%	865	4%	36	0%	4,732,682	1%
Primary Metals	90	0%	1,679	7%	55	0%	22,823,899	2%
Retail	13,929	18%	2,007	8%	9,978	21%	39,652,409	4%
Unknown	9,848	13%	3,554	15%	6,411	14%	58,628,746	6%
Warehouse	4,361	6%	716	3%	2,365	5%	25,802,906	3%
Total	75,342	100%	24,355	100%	46,476	100%	929,001,322	100%

^{*}Note that the electric population plus the natural gas population exceeds the total establishment count of 81,834 because of the overlap caused by combination customers.

The sample design step approached the C&I customer population as follows:

- The largest customers/premises were identified for individual treatment. Most of these customers will receive an onsite survey.
- The remaining small and medium C&I customers will be contacted via direct mail for the online survey.

Based on the electricity and natural gas usage within each segment, a sample target for each of the C&I surveys was developed with a goal of optimizing the precision targets. Table B-3 shows the allocation by segment.

Table B-3 Ameren Illinois C&I Establishments Sample Selection

Segment	Number of Premises	% of Premises	Proposed Sample	% of Sample	Confidence Level	Relative Error
Ag/Fish/Mining	1,214	1%	38	5%	90%	20%
Chemicals	174	0%	31	4%	90%	10%
Education	2,509	3%	67	8%	90%	20%
Food	354	0%	40	5%	90%	10%
Health	1,131	1%	85	10%	90%	10%
Lodging	645	1%	49	6%	90%	10%
Machinery	726	1%	39	5%	90%	10%
Miscellaneous	20,706	25%	47	6%	90%	25%
Office	21,403	26%	96	12%	90%	15%
Other Mfg	2,122	3%	64	8%	90%	20%
Petroleum	69	0%	25	3%	90%	10%
Primary Metals	97	0%	21	3%	90%	10%
Retail	14,804	18%	133	16%	90%	10%
Unknown	11,206	14%	45	5%	90%	25%
Warehouse	4,674	6%	52	6%	90%	25%
Total	81,834	100%	832	100%	90%	4%

RESIDENTIAL PROGRAM INTEREST SURVEY QUESTIONNAIRE



Ameren Illinois DSM Market Potential – Program Interest Questionnaire RESIDENTIAL REVISED FINAL 7/11/2012

.....

QUALIFYING CRITERIA AND QUOTAS

Qualifying Criteria

- The respondent must have primary or shared responsibility for making energy-related decisions
- The respondent must be at least 18 years old
- No one in the respondent's household may work for a gas or electric utility company
- The respondent household must be billed for electricity directly by Ameren Illinois

PRELOAD ALL SAMPLE FIELDS.

Hard Quotas

Total: n=700

Soft Quotas

THE MAIN QUOTA VARIABLE IS STRATUM_ID / ALL OTHER QUOTAS ARE DRIVEN BY THAT ONE.

USAGE STRATUM

N=SEE QUOTA GRID

Age (S3)

N=AS FALLS BUT WE WANT TO TRACK

Geography - READ IN FROM SAMPLE: [REGION]

N=SEE QUOTA GRID

FOR ENTIRE SURVEY, [ADDRESS]=THE FOLLOWING SAMPLE FIELDS:

ADDR#

ADDRDIR

ADDRSTR

ADDRSUF

ADDRSTRUC

ADDRCITY

ADDRSTATE

ADDRZIP

RESPONDENT IDENTIFICATION / VERIFICATION

Welcome. This survey is sponsored by Ameren Illinois. [PROGRAMMER: INCLUDE AMEREN ILLINOIS LOGO]

Survey results will be collected and summarized by Definitive Insights, a market research company.

Please enter the 5-digit "Survey ID#" that appears on the survey invitation postcard you received. It should be located just above the mailing address on the front side of the postcard.

Survey	ID#	:	
5 4. • 6 ,		•	

[PROGRAMMER: VERIFY VALID CODE AND READ IN ALL VARIABLES FROM SAMPLE FILE]

We at Ameren Illinois and Definitive Insights value your privacy. We will use the information you provide <u>for research purposes only</u> and <u>will NOT share it with third parties for marketing purposes</u>. Information you provide will be stored in a secure database. If you have questions about our privacy practices or would like to get any other information about this study, please contact us via one of the following methods:

e-mail: <u>AmerenHelp@definitiveinsights.com</u>

phone: 1-888-742-4511postal mail: Definitive Insights

ATTN: Ameren Illinois Project Director

601 SW Oak Street Portland, Oregon 97205

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INTRODUCTION

Thank you for taking the time to see if you and your household qualify to participate in a new research study about energy. The study is sponsored by Ameren Illinois, and it has a very important purpose. Ameren Illinois is delivering programs to help its customers use energy more efficiently. Your answers to this survey will help the company to improve these programs so that they work best for everyone.

Your household is one of a small number being asked to respond to the survey. To show our appreciation for your time and effort in completing the survey, you will have the option of choosing a **§10 Amazon Electronic Gift Card or a \$10 check** at the end of the survey if you complete all of the questions. (You may decline to receive payment if desired.)

You will first be asked a few questions to make sure your household qualifies for participation. If you do qualify, you will then be invited to complete the full survey.

Note: If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the URL and the Survey ID# from your survey invitation to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue, underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> <u>NOT</u> make you navigate away from the survey site.

Please click "Continue" to begin.

RESPONDENT SCREENING

A1. Our records indicate that your address is: [ADDRESS]

Is this correct?

- 1. Yes
- 2. No

[IF A1=2, TERMINATE VIA A1 AND READ A1 TERMINATE TEXT; OTHERWISE GO TO S1.]

[A1 TERMINATE TEXT:]

We truly appreciate your time and effort in responding to our survey, but our questions are related to a specific address.

If you would like information on how your home can save money on your energy bills, please visit us at www.actonenergy.com.

Thank you. Have a nice day!

S1. What is your role in making energy-related decisions about things such as: adjusting your home's thermostat, choosing to install insulation, or selecting new appliances, large electronic devices, and light bulbs for your home?



Any reference to "your home or household," here and throughout the rest of this survey, refers specifically to the residence at [ADDRESS].

- 1. You are primarily responsible for some or all of these decisions
- 2. Someone else in your household is primarily responsible for these types of decisions [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA R1]
- 3. You share responsibility for these decisions with others in your household, or with a landlord or property manager
- 4. Don't know [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA R1]

[IF S1=1 OR 3, SKIP TO S2; OTHERWISE SHOW R1 AND TERMINATE WITHOUT SHOWING STANDARD TERMINATE LANGUAGE]

R1. Thank you for taking the time to see if you are eligible to participate in this survey. At this time we need responses from someone in your household who has specific knowledge about the way your household makes decisions about energy-related issues.

We would appreciate it if you would provide that person with the invitation postcard you received or refer them to the following link so that they may complete this survey:

[INSERT URL THAT INCLUDES SURVEY ID#]

[PROGRAMMER NOTE: IF A RESPONDENT TERMINATES VIA R1, DELETE DATA COLLECTED AND RESET SURVEY REENTRY POSITION FOR THAT SURVEY ID# BACK TO THE BEGINNING OF THE SURVEY. RECORD THE DATA DELETED FOR THAT SURVEY ID# ELSEWHERE SO WE CAN TRACK THE NUMBER OF TIMES AND REASONS RESPONDENTS DISQUALIFY AT R1 AS WELL AS THE NUMBER OF TIMES THESE PREVIOUSLY USED SURVEY ID#'S ARE REUSED. FOR ALL RESPONDENTS THAT DO NOT TERMINATE VIA R1, DO NOT ALLOW SURVEY ID# TO BE USED AGAIN.]

- S2. Do you own or rent your home?
 - 1. Own (or in the process of buying it)
 - 2. Rent / lease

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- S3. Which of the following categories represents your current age?
 - 1. Less than 18 years old [TERMINATE AFTER S7]
 - 2. 18-24
 - 3. 25-34
 - 4. 35-44
 - 5. 45-54
 - 6. 55-64
 - 7. 65 or more years old

[IF S3=2-7, ASK S4; OTHERWISE ASK S4 AND TERMINATE AFTER S7]

- S4. Do you, or does anyone else in your household work for a gas or electric utility company?
 - 1. Yes [TERMINATE AFTER S7]
 - 2. No

[IF S4=2, CONTINUE; OTHERWISE, TERMINATE AFTER S7 OR S9 – DEPENDING ON S6 RESPONSE]

- S5. How is your household billed for the electricity you use?
 - 1. My household is billed directly by Ameren Illinois [CONTINUE TO S6, BUT DO NOT TERMINATE, REGARDLESS OF S6 RESPONSE]
 - 2. My household is NOT billed directly by Ameren Illinois; the cost for our electricity is included in our rent, or is paid by someone else [ASK S6 IF S6 NOT=1, ASK S7-S9 AND TERMINATE]
 - 3. My household's electricity is provided by another utility; **not** Ameren Illinois [ASK S6 IF S6 NOT=1, TERMINATE AFTER S7]
 - 4. Don't know [ASK S6, BUT TERMINATE AFTER S7, REGARDLESS OF S6 RESPONSE]

- S6. How is your household billed for the natural gas you use?
 - 1. My household is billed directly by Ameren Illinois [REGARDLESS OF S5 RESPONSE, GO TO S7 DO NOT TERMINATE]
 - 2. My household is NOT billed directly by Ameren Illinois; the cost for our natural gas is included in our rent, or is paid by someone else [IF S5=1, ASK S7 BUT DO NOT TERMINATE]
 - 3. My household's natural gas is provided by another utility; **not** Ameren Illinois [**IF S5=1**, **ASK S7**, **S8 AND S9**; **IF S5 NOT=1**, **ASK S9 AND TERMINATE**]
 - 4. Don't know [TERMINATE AFTER S7]
- S7. Who is billed by your gas or electric company for each of the following things used in your home?

	1. Your household	2. Someone else (e.g., landlord, property manager)	3. Not sure	4. Not used in your home
A. Heating all or some of the space in your house / unit	0	0	0	0
B. Air conditioning or cooling all or some of the space in your house / unit (including any fans, dehumidifiers, etc.)	0	0	0	0
C. Water heating	0	0	0	0
D. Lights on the <u>outside</u> of your home or building	0	0	0	0
E. Pump for a swimming pool or hot tub	0	0	0	0
F. Heater for a swimming pool or hot tub	0	0	0	0

[TERMINATE HERE IF DISQUALIFIED OR OVER-QUOTA AND GO TO TERMINATE LANGUAGE; OTHERWISE CONTINUE TO S8]

S8. [ASK ALL:] What is the primary fuel type used for each of the purposes listed below?

	Primary Fuel Type						
	1. Electricity	2. Natural gas (piped gas)	3. Propane	4. Something else [SPECIFY]	5. Not sure	6. Not applicable	
1. Heating all or some of the space in your house / unit	0	0	0	0	0	0	
2. Hot water heating for your home	0	0	0	0	0	0	
3. Cooking	0	0	0	0	0	0	
4. Clothes dryer	0	0	0	0	0	0	

[IF S6=3 ASK S9; OTHERWISE GO TO S10]

- S9. What company provides you with natural gas?
 - 1. Ameren Illinois
 - 2. Nicor
 - 3. Some other company [PLEASE SPECIFY]

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[IF S5 NOT=1 AND S9 NOT=1, TERMINATE; OTHERWISE CONTINUE]

- S10. Which of the following systems/equipment do you use to **cool** your home, even if only once in a while, and / or for part of your home? *Select all that apply*.
 - 1. Central air conditioner
 - 2. One or more room air conditioners mounted in or near a window or on a wall
 - 3. Air-source heat pump
 - 4. Geothermal heat pump
 - 5. Whole-house fan
 - 6. Attic fan
 - 7. One or more portable room air conditioners
 - 8. One or more portable dehumidifiers
 - 9. One or more ceiling fans
 - 10. One or more window or room fans
 - 990. Other [SPECIFY]
 - 996. Not sure [EXCLUSIVE]
 - 998. My home has no cooling systems/equipment [EXCLUSIVE]

[IF >1 ITEM SELECTED IN S10, DISLAY S11; OTHERWISE AUTOCODE S11=S10 AND SKIP TO S12]

- S11. Which one of these cooling systems/equipment do you use to cool **all or most** of your home? [ONLY DISPLAY ITEMS SELECTED IN S10]
 - 1. Central air conditioner
 - 2. One or more room air conditioners mounted in or near a window or on a wall
 - 3. Air-source heat pump
 - 4. Geothermal heat pump
 - 5. Whole-house fan
 - 6. Attic fan
 - 7. One or more portable room air conditioners
 - 8. One or more portable dehumidifiers
 - 9. One or more ceiling fans
 - 10. One or more window or room fans
 - 990. [INSERT S10_990 RESPONSE]
 - 996. Not sure [EXCLUSIVE]
 - 998. home has no cooling systems/equipment that cool all or most of my home [EXCLUSIVE]
- S12. Which of the following systems/equipment do you use to **heat** your home, even if only once in a while, and / or for part of your home? *Select all that apply*.
 - 1. Central warm air furnace with ducts/vents to individual rooms
 - 2. Central boiler with hot water/steam radiators or baseboards in individual rooms
 - 3. Electric baseboard or electric coils radiant heating
 - 4. An air-source heat pump
 - 5. A geothermal heat pump
 - 6. One or more wall furnaces
 - 7. One or more fireplaces
 - 8. One or more wood burning stoves
 - 9. One or more wall-mounted space heaters

- 10. One or more portable space heaters
- 990. Other [SPECIFY]
- 996. Not sure [EXCLUSIVE]
- 998. My home has no heating systems/equipment [EXCLUSIVE]

[IF >1 ITEM SELECTED IN S12, DISLAY S13; OTHERWISE AUTOCODE S13=S12 AND SKIP TO END OF SCREENER]

- S13. Which one of these heating systems/equipment do you use to heat **all or most** of your home? [ONLY DISPLAY ITEMS SELECTED IN S12]
 - 1. Central warm air furnace with ducts/vents to individual rooms
 - 2. Central boiler with hot water/steam radiators or baseboards in individual rooms
 - 3. Electric baseboard or electric coils radiant heating
 - 4. An air-source heat pump
 - 5. A geothermal heat pump
 - 6. One or more wall furnaces
 - 7. One or more fireplaces
 - 8. One or more wood burning stoves
 - 9. One or more wall-mounted space heaters
 - 10. One or more portable space heaters
 - 990. [INSERT S12_990 RESPONSE]
 - 996. Not sure [EXCLUSIVE]
 - 998. My home has no heating system/equipment that heat all of most of my home [EXCLUSIVE]

[TERMINATE IF DISQUALIFIED; OR OVER-QUOTA AND GO TO TERMINATE LANGUAGE; OTHERWISE GO TO INVITATION LANGUAGE]

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TERMINATE LANGUAGE FOR NON-QUALIFYING AFTER QS1.0 OR OVER-QUOTA RESPONDENTS

We truly appreciate your time and effort in responding to our survey invitation and answering these initial questions, which were designed to see if you are eligible to participate.

In order to achieve a representative sample, quotas with specific criteria have been designated. At this point, we have reached the number of respondents we can accept from individuals with your type of experience or background. Again, we would like to thank you for your time and effort.

If you would like information on how your home can save money on your energy bills, please visit us at www.actonenergy.com

Thank you. Have a nice day!

INVITATION LANGUAGE FOR QUALIFYING RESPONDENTS

Thank you for your responses so far! You qualify for the survey. As we indicated earlier, only a limited number of individuals have been invited to participate in this survey, so we appreciate your time in filling out the survey as completely as possible.

The survey should take about 20 - 25 minutes to complete. Once you complete the survey you will be eligible to receive our \$10 thank you payment. Information about how to receive this payment will be provided at the end of the survey.

Your responses are important to us, so please press "Continue" to begin answering the survey questions. All information provided in this survey will be kept strictly confidential, and at no time will you be asked to purchase anything

If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the personalized URL to access your survey again. The survey will automatically take you to the point where you left off.

As you complete the survey, you will **not** be able to use your browser's "back" button. If you mistakenly press your browser's "back" button, you will need to press the "refresh" button to continue the survey.

I – ATTITUDES

[PROGRAMMER NOTE: THROUGHOUT THIS SURVEY, WORDS OR PHRASES WITH BLUE, UNDERLINED FONT WILL HAVE HYPERLINKED DEFINITIONS THAT POP-UP WHEN THE RESPONDENT CLICKS ON THE WORD OR PHRASE. HYPERLINKED DEFINITIONS ARE PROVIDED AT THE END OF THIS DOCUMENT]

Q1. Overall, how familiar would you say you are with Ameren Illinois as your electric, and/ or gas, utility? [RECORD NUMBER; 1=NOT AT ALL FAMILIAR, 10=EXTREMELY FAMILIAR]

Not a	at all iliar							Extre fam	•
1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0

Q2. Using a 10-point scale where '1' means you <u>strongly disagree</u>, and '10' means you <u>strongly agree</u>, please indicate how much your household agrees or disagrees with each of the following statements about Ameren Illinois.

Note: If you don't feel like you are very familiar with Ameren Illinois on any of the following, please just give your best guess.

Ameren Illinois is...

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-5]		ngly gree					Strongly agree			
	1	2	3	4	5	6	7	8	9	10
a leader in energy conservation and energy efficiency	0	0	0	0	0	0	0	0	0	0
2a company that can be trusted	0	0	0	0	0	0	0	0	0	0
3a credible information source for the community on energy efficiency	0	0	0	0	0	0	0	0	0	0
5a company that actively promotes programs to help its customers save money	0	0	0	0	0	0	0	0	0	0

Q3. Overall, how satisfied would you say your household is with the service provided by Ameren Illinois? [RECORD NUMBER; 1=NOT AT ALL SATISFIED, 10=EXTREMELY SATISFIED]

Not a								Extre satis	•
1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0

Q4. Using a 10-point scale, where '1' means it is <u>not at all important</u> and '10' means it is <u>extremely important</u>, please indicate how important it is to your household that Ameren Illinois do the following things, even if that means you would have to pay a little more in order for the company to pursue these types of initiatives.

[RECORD NUMBER; 1=NOT AT ALL IMPORTANT, 10=EXTREMELY IMPORTANT]

[ROTATE 1-4]		at all ortant								Extremely important	
	1	2	3	4	5	6	7	8	9	10	
Actively encourage its customers to participate in energy saving and cost saving programs	0	0	0	0	0	0	0	0	0	0	
Do everything possible to supply renewable, clean energy	0	0	0	0	0	0	0	0	0	0	

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3. Operate its business in a completely					
environmentally friendly manner					

- Q5. Considering the types of initiatives we asked about in the previous question, which would you prefer your electric utility do...? PLEASE SELECT ONE
 - 1. Pursue these and other initiatives even if you would have to pay a little more
 - 2. Do everything possible to keep energy costs as low as possible
 - 3. Both are <u>equally</u> important

Q6. We'd like to understand how your household as a whole thinks about using energy at your home.

Using a 10-point scale where '1' means you <u>strongly disagree</u>, and '10' means you <u>strongly agree</u>, please indicate how much you agree or disagree with each of the following statements.

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[R	[ROTATE 1-9]		ngly gree							Strongly agree	
		1	2	3	4	5	6	7	8	9	10
1.	Comfort is very important to your household – even if it means spending more each month for energy	0	0	0	0	0	0	0	0	0	0
2.	Saving money on energy costs is something you focus on every day	0	0	0	0	0	0	0	0	0	0
3.	Realistically, there isn't much you can do to save money on energy costs	0	0	0	0	0	0	0	0	0	0
4.	You just want to be left alone to use energy however you want in your home	0	0	0	0	0	0	0	0	0	0
5.	You are very concerned about the environmental effects of electric power plants	0	0	0	0	0	0	0	0	0	0
6.	Conserving energy at your home will make no difference to the quality of the environment overall	0	0	0	0	0	0	0	0	0	0
7.	You would do more to make your home more energy efficient, but you don't know where to start	0	0	0	0	0	0	0	0	0	0
8.	The threat from global warming is real, and significant	0	0	0	0	0	0	0	0	0	0
9.	You are an "early adopter" of new home technologies	0	0	0	0	0	0	0	0	0	0

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II – ENERGY EFFICIENCY MEASURES IMPLEMENTED

Q7. Which, if any, of the following items have been purchased for your home in the **last 12 months**? Which, if any, do you plan to purchase for your home in the **next 12 months**? *Select all that apply.*

[ROTATE 1-13]	A. Purchased in last 12 months	B. Plan to purchase in next 12 months
1. Water heater [ASK THIS ROW IF S2=1]		
2. Furnace or boiler[ASK THIS ROW IF S2=1]		
3. Central air conditioner [ASK THIS ROW IF S2=1]	☐ [OFFER IF S10_1 IS SELECTED]	
4. Room air conditioner	☐ [OFFER IF S10_2 IS SELECTED]	
5. Clothes washer or dryer		
6. Refrigerator		
7. Freezer		
8. Dishwasher		
9. TV		
10. Computer		
11. Pump for pool or hot tub	[ASK IF S2=1 AND S7_E NOT=4]	
12. Heater for pool or hot tub	[ASK IF S2=1 AND S7_F NOT=4]	
13. Heat pump	[ASK IF S2=1 OR IF ANY OF S10_3, S10_4, S12_4,S12_5 SELECTED]	
14. Other significant energy-using item [SPECIFY ONE ITEM]		
15. Other significant energy-using item [SPECIFY ONE ITEM]		
16. Other significant energy-using item [SPECIFY ONE ITEM]		
17. Not sure [EXCLUSIVE]		
18. None of the above [EXCLUSIVE]		

[IF ANY Q7_1 THRU Q7_16 SELECTED, ASK Q8; OTHERWISE SKIP TO FILTER BEFORE Q9]

Q8. To the best of your recollection, were any of the items purchased for your household <u>in the last 12</u> <u>months</u> ones that were specifically described as "high energy efficiency," or "highly energy efficient" appliances or devices?

High energy efficiency models are often labeled as "ENERGY STAR" appliances or devices.

[DISPLAY ONLY ITEMS SELECTED AT Q3A]	1. Yes	2. No	3. Not sure
1. Water heater	0	0	0
2. Furnace or boiler	0	0	0
3. Central air conditioner	0	0	0
4. Room air conditioner	0	0	0
5. Clothes washer or dryer	0	0	0
6. Refrigerator	0	0	0
7. Freezer	0	0	0
8. Dishwasher	0	0	0
9. TV	0	0	0
10. Computer	0	0	0
11. Pump for pool or hot tub	0	0	0
12. Heater for pool or hot tub	0	0	0
13. Heat pump	0	0	0
14. [INSERT Q7_14 OTHER SPECIFY]	Ō	0	0
15. [INSERT Q7_15 OTHER SPECIFY]	0	0	0
16. [INSERT Q7_16 OTHER SPECIFY]	Ō	Ō	0

[IF ANY Q8_1 THROUGH Q8_16 SELECTED, ASK Q9; OTHERWISE SKIP TO Q10]

Q9. Of the appliances and equipment that you <u>plan to purchase</u> in the next 12 months, do you plan for any of these to be "high energy efficiency," or "highly energy efficient" models?

High energy efficiency models are often labeled as "ENERGY STAR" appliances or devices.

riigh energy ejjieleney models die ojten labeled	2:0 <u>=:::::::::::::::::::::::::::::::::::</u>	<u>uppliances</u>	
[DISPLAY ONLY ITEMS SELECTED AT Q3B]	1. Yes	2. No	3. Not sure
1. Water heater	0	0	0
2. Furnace or boiler	0	0	0
3. Central air conditioner	0	0	0
4. Room air conditioner	0	0	0
5. Clothes washer or dryer	0	0	0
6. Refrigerator	0	0	0
7. Freezer	0	0	0
8. Dishwasher	0	0	0
9. TV	0	0	0
10. Computer	0	0	0
11. Pump for pool or hot tub	0	0	0
12. Heater for pool or hot tub	0	0	0
13. Heat pump	0	0	0
14. [INSERT Q8_14 OTHER SPECIFY]	0	0	0
15. [INSERT Q8_15 OTHER SPECIFY]	0	0	0
16. [INSERT Q8_16 OTHER SPECIFY]	0	0	0

Q10. Before today, have you ever heard of compact fluorescent light bulbs (CFLs)?

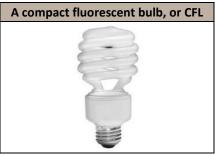
- 1. Yes
- 2. No
- 3. Not sure

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Q12; OTHERWISE SKIP TO Q13]

[IF Q10=2-3, ASK Q11; OTHERWISE SKIP TO Q12)

- Compact fluorescent light bulbs (CFLs) usually do not look like <u>regular incandescent bulbs</u>. The most Q11. common type of CFL is made with a glass tube bent into a spiral, resembling a soft-serve ice cream, and it fits in a regular light bulb socket (see image below). Before today, were you familiar with CFLs?
 - 1. Yes
 - 2. No
 - 3. Not sure



[IF Q10=1 OR Q11=1, ASK

Q12. Approximately

how many compact fluorescent light bulbs (CFLs) are you currently using in your home? Your best estimate is fine.

- 1. None
- 2. 1 to 5
- 3. 6 to 10
- 4. More than 10
- 5. Not sure
- Q13. Have you purchased *any* lighting products within the last 6 months? This includes any <u>incandescent light bulbs</u>, <u>CFLs</u>, <u>halogens</u>, fixtures and other lighting products.
 - 1. Yes
 - 2. No
 - 3. Not sure

[IF Q13=1, ASK Q14; OTHERWISE SKIP TO Q16]

Q14. For your lighting purchases made in the last 6 months, please record for each type below how many were bought for your home. *Your best estimate is fine.*

If a package of bulbs contained multiple units, please count each bulb separately.

A. Light bulb type		Bulbs purchased in the <u>last</u> <u>6 months</u>
[DISPLAY ROW IF Q10=1 OR Q11=1; OTHERWISE AUTOCODE Q14A1=0] 1. Compact fluorescent light bulbs (CFLs)		[RECORD NUM 0-99]
2. <u>Incandescent light bulbs</u>	•	[RECORD NUM 0-99]
3. LED lamps		[RECORD NUM 0-99]
4. <u>Halogen light bulbs</u>		[RECORD NUM 0-99]
5. <u>Tubular fluorescent light bulbs</u>	•	[RECORD NUM 0-99]
6. <u>Low-voltage lamps</u>		[RECORD NUM 0-99]
990. Other light bulbs [SPECIFY]		[RECORD NUM 0-99]
TOT. Total		[CALCULATE TOT]

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		Units purchased in the last 6
B. Lighting <u>fixture</u> type		months
1. Hard-wired incandescent fixtures	b	[RECORD NUM 0-99]
2. Hard-wired halogen fixtures	\$	[RECORD NUM 0-99]
3. Hard-wired fluorescent fixtures	M	[RECORD NUM 0-99]
[DISPLAY ROW IF Q10=1 OR Q11=1; OTHERWISE AUTOCODE Q14B4=0] 4. Hard-wired <u>CFL-specific fixtures</u>		[RECORD NUM 0-99]
5. Plug-in incandescent fixtures		[RECORD NUM 0-99]
6. Plug-in halogen fixtures		[RECORD NUM 0-99]
7. Plug-in fluorescent fixtures		[RECORD NUM 0-99]
[DISPLAY ROW IF Q10=1 OR Q11=1; OTHERWISE AUTOCODE Q14B8=0] 8. Plug-in CFL-specific fixtures	W	[RECORD NUM 0-99]
9. Incandescent torchieres (floor lamps)		[RECORD NUM 0-99]
10. Halogen torchieres (floor lamps)		[RECORD NUM 0-99]
11. Fluorescent torchieres (floor lamps)		[RECORD NUM 0-99]
[DISPLAY ROW IF Q10=1 OR Q11=1; OTHERWISE AUTOCODE 14B12=0] 12. CFL-specific torchieres (floor lamps)		[RECORD NUM 0-99]
990. Other lighting fixtures [SPECIFY]		[RECORD NUM 0-99]
TOT. Total		[CALCULATE TOT]

[IF Q14ATOT>0, ASK Q15; OTHERWISE SKIP TO Q16]

Q15. For the bulbs you said you purchased within the past 6 months, please tell us how many were purchased within the **last 3 months**.

Light bulb type [ONLY DISPLAY ROWS >0 AT Q14]	Bulbs purchased in the <u>last 6 months</u>	Number of those purchased within the past 3 months?
1. Compact fluorescent light bulbs (CFLs)	[Q14A1 RESPONSE]	[RECORD NUM 0-Q14A1]
2. <u>Incandescent light bulbs</u>	[Q14A2 RESPONSE]	[RECORD NUM 0-Q14A2]
3. <u>LED lamps</u>	[Q14A3 RESPONSE]	[RECORD NUM 0-Q14A3]
4. Halogen light bulbs	[Q14A3 RESPONSE]	[RECORD NUM 0-Q14A3]
5. <u>Tubular fluorescent light bulbs</u>	[Q14A4 RESPONSE]	[RECORD NUM 0-Q14A4]
6. [INSERT Q10A990 OTHER SPECIFY]	[Q14A5 RESPONSE]	[RECORD NUM 0-Q14A1]
TOT. Total	[Q14ATOT]	[CALCULATE TOT]

[IF Q14A_1>0, ASK Q16; OTHERWISE SKIP TO Q17]

Q16. You mentioned having purchased **[Q14A1 RESPONSE]** Compact Fluorescent light bulbs CFL(s) for your home within the last 6 months.

[IF Q14A_1=1; DISPLAY At which one of the following did you purchase this CFL?] [IF Q14A_1>1; DISPLAY At which of the following types of stores did you purchase these CFLs? Select all that apply.]

- 1. Discount store (e.g., Dollar Store or Deals)
- 2. Drug store / pharmacy (e.g., CVS, Walgreens)
- 3. Large home improvement store (e.g., Lowe's, Home Depot, Menards)
- 4. Smaller hardware store (e.g., Ace, True Value, Sears Hardware)
- 5. Mass merchandise store (e.g., Wal-Mart, Target, Kmart)
- 6. Online store (e.g., Amazon.com, Ebay, Lowes.com)
- 7. Specialty lighting or electronics store
- 8. Supermarket / grocery store (e.g., Schnucks, Dierbergs, Shop & Save, Aldi, Kroger)
- 9. Warehouse / membership club store (e.g., Costco, Sam's Club)

990.Other [SPECIFY]

Q17. Some utilities offer rebates, low interest loans, or price discounts to encourage people to purchase highly energy efficient products such as appliances, furnaces, heat pumps, water heaters, <u>compact fluorescent</u> light bulbs (CFLs), and home insulation.

To the best of your knowledge, does Ameren Illinois have any such programs that offer you a discount off the purchase price on qualified items?

- 1. Yes
- 2. No
- 3. Not sure

[IF Q17=1, ASK Q18; OTHERWISE SKIP TO Q19]

- Q18. Has your household participated in any loans, price discounts or conservation rebate programs provided by Ameren Illinois either through a contractor or retailer, or directly by Ameren Illinois within the **last 2 years**?
 - 1. Yes
 - 2. No
 - 3. Not sure
- Q19. In addition to the items we've reviewed so far, which, if any, of these <u>other</u> energy efficiency related actions have you [IF S2=2, ", your landlord,"] or any other members of your household taken in your

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home in the last 12 months? Select all that apply.

[ROTATE 1-10]	Other energy efficiency related actions taken in last 12 months
1. Conducted a home energy audit	
2. Installed storm doors	
3. Added weather stripping, caulking, or insulation of windows or doors	
4. Installed enhanced insulation of ducts, ceilings, walls, attics, or foundation	
5. Installed enhanced water pipe insulation	
6. Installed low-flow shower heads or faucet aerators	
7. Had a furnace or heat pump tuned up to operate more efficiently	
8. Participated in a refrigerator/freezer recycling program	
9. Installed a programmable thermostat	
10. Installed one or more "Smart" power strips that automatically turn off devices (such as computers, printers, phone chargers) after a period of time when they are not used	
990. Implemented any other energy efficiency measures [SPECIFY]	
11. None of the above [EXCLUSIVE]	

- Q20. Which of the following actions are you <u>consistently</u> taking in your home today? Select all that apply.

 By "consistently", we mean that you do this every time, or on a regular basis.

 [ROTATE 1-7]
 - 1. Using a power strip to turn off electronic equipment when it is not in use
 - 2. Unplugging battery rechargers (e.g., for laptops, cell phones, MP3 players) when they are not being used
 - 3. [DISPLAY IF ANY S10_1, S10_3, S10_4, OR S12_1, S12_2, S12_4, S12_5 SELECTED] Performing annual maintenance on your HVAC (heating, ventilation, or air conditioning) equipment
 - 4. Using a water heater insulation blanket / jacket
 - 5. Using a lower water heater temperature
 - 6. Turning off lights when no one is in the room
 - 7. Using a clothes dryer that has a sensor that turns the dryer off when the clothes are dry
 - 8. Turning down heating and/or cooling equipment when away from home and/or at night 990. None of the above **[EXCLUSIVE]**
- Q21. Have you noticed any energy or cost savings as a result of <u>any</u> actions you might have taken over the last 12 months to conserve energy?
 - 1. Yes
 - 2. No
 - 3. Not sure

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III – PURCHASING ATTITUDES

Now, we'd like to ask you how important various factors are when you and/or other members of your household shop for energy-related products and services for your home.

Q22. Using a 10 point scale where '1' means it is <u>not at all important</u> to your household and '10' means it is <u>extremely important</u> to your household, please indicate **how important** to your household each of the following factors is when selecting which appliances, electronic devices, or other energy-related products or services to purchase for your home.

[RECORD NUMBER; 1=NOT AT ALL IMPORTANT, 10=EXTREMELY IMPORTANT]

[ROTATE 1-7, but make sure 1-2 always appear next to each other, and make sure	Not at all important						Extremely important					
1-2 rotate]	1	2	3	4	5	6	7	8	9	10		
Any cost savings you might see from using the product / service	0	0	0	0	0	0	0	0	0	0		
Any positive environmental impacts that might result from using the product / service	0	0	0	0	0	0	0	0	0	0		
3. Any rebates or purchase discounts that might be offered for purchasing energy efficient products / services	0	0	0	0	0	0	0	0	0	0		
4. The extent to which the product / service is at the leading edge of new technology	0	0	0	0	0	0	0	0	0	0		
5. Recommendations of friends and family	0	0	0	0	0	0	0	0	0	0		
6. Features and functions included with the product / service	0	0	0	0	0	0	0	0	0	0		
7. The total amount of money the product / service would cost	0	0	0	0	0	0	0	0	0	0		

[IF Q22_1=Q22_2, ASK Q23; OTHERWISE SKIP TO Q24]

Q23. When shopping for energy-related products and services for your home, which **one** of the following factors is **more important** to you?

[ROTATE 1-2]	More important factor when shopping for energy-related products /services
1. Any cost savings you might see from reduced electricity usage	0
2. Any positive effects on the environment that might result	0

Q24. Using a 10 point scale where '1' means you <u>strongly disagree</u> and '10' means you <u>strongly agree</u>, please indicate how much you **agree** or **disagree** with each of the following statements.

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-7]	Strongly disagree						Strongly agree					
	1	2	3	4	5	6	7	8	9	10		
You really look to appliance and other home technologies to save you time and effort	0	0	0	0	0	0	0	0	0	0		
The most important thing about a heating system or air conditioner is how comfortable it makes your home	0	0	0	0	0	0	0	0	0	0		
3. How an appliance functions is always more important than how it looks	0	0	0	0	0	0	0	0	0	0		
4. You enjoy having leading-edge appliances or devices with the most innovative features	0	0	0	0	0	0	0	0	0	0		
5. You prefer appliances that are plain and simple – free of high-tech options	0	0	0	0	0	0	0	0	0	0		
6. It's worth spending more money to get the highest quality product available	0	0	0	0	0	0	0	0	0	0		
7. It's worth spending more for an appliance or electronic device that has been rated as an energy efficient or <u>"ENERGY STAR"</u> product	0	0	0	0	0	0	0	0	0	0		

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IV – INTEREST IN POTENTIAL ENERGY EFFICIENCY PROGRAMS THAT COULD BE OFFERED BY AMEREN ILLINOIS

[PROGRAMMER NOTE: REBATE/INCENTIVE PROGRAM INTRODUCTION SCREEN]

The next section of the survey asks for your reaction to a wide variety of energy efficiency programs that Ameren Illinois may be able to offer to customers like you. For each of the programs you will see, we would like to know how likely you think your household would be to participate in the program.

Q25. With many of these programs, Ameren Illinois would offer your household a rebate or other financial incentive to purchase a more energy efficient version of an item that uses energy in your home. As an example, consider the fact that you can purchase refrigerators that are "standard" efficiency or "higher than standard" efficiency. Higher efficiency refrigerators cost a little bit more, but they use less energy. Often, the energy that you can save by using a more energy efficient appliance can pay for the higher cost of that appliance within a few years.

Ameren Illinois might be able to offer a rebate or other financial incentive to households that opt to purchase a higher efficiency refrigerator or other appliance. Because these rebates would reduce the cost difference between a highly energy efficient unit and a standard unit, it would take less time to save on electricity costs to make up for the higher initial cost of the more efficient unit. And remember that you would continue to save money on electricity costs, even after the energy efficient unit "paid for itself."

[CAN SPLIT HERE ONTO TWO SCREENS]

Please assume for now that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the additional cost of a higher efficiency refrigerator within <u>3 years</u>. If you were going to acquire a new refrigerator, how likely would your household be to buy the <u>higher than standard</u> efficiency refrigerator (and take the rebate), rather than buying an equivalent <u>standard</u> efficiency refrigerator?

Please use a 10 point scale where '1' means you think your household would be <u>not at all likely to do this</u> and '10' means your household would be <u>extremely likely to do this.</u>

 Not At All Likely
 Extremely Likely

 To Do This
 to Do This

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

[ASK IF Q25 =7-10]

Q26. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the additional cost to buy a "higher than standard efficiency" refrigerator in **5 years**. If this were true, and you were going to acquire a new refrigerator, how likely would your household be to buy the higher than standard efficiency refrigerator (and take the rebate), rather than buying an equivalent standard efficiency refrigerator?

 Not At All Likely
 Extremely Likely

 To Do This
 to Do This

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

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[ASK IF Q25 =1-6]

Q27. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the additional cost to buy a "higher than standard efficiency" refrigerator in 1 year. If this were true, and you were going to acquire a new refrigerator, how likely would your household be to buy the higher than standard efficiency refrigerator (and take the rebate), rather than buying an equivalent standard efficiency refrigerator?

Not At All Likely	,							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

Q28. Now, for each of the items described below, let's assume that a rebate from Ameren Illinois would mean that you would save enough on electricity, in <u>3 years</u>, to pay for the additional cost to buy a "higher than standard efficiency" model of that item. If this were true, and you were going to acquire <u>each</u> of these items, how likely would your household be to buy the <u>higher than standard</u> efficiency model (and take the rebate), rather than buying an equivalent <u>standard</u> efficiency model of <u>each</u> item?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all</u> likely to do this and '10' means your household would be extremely likely to do this.

[ROTATE 1-8] 3 Year Payback Period	Not at a likely to do this			Extremelikely do t								
	1	2	3	4	5	6	7	8	9	10		
[DISPLAY IF S7B=1 OR 3 AND S10=1-8, 990,996]												
Purchase a higher than standard efficiency air conditioner	0	0	0	0	0	0	0	0	0	0		
IF S2=1 & S7A=1 OR 3] 2. Purchase a higher than standard efficiency furnace or boiler	0	0	0	0	0	0	0	0	0	0		
[IF S2=1 & S7C=1 OR 3] 3. Purchase a higher than standard	0	0	0	0	0	0	0	0	0	0		

efficiency water heater										
4. Purchase a higher than standard efficiency TV	0	0	0	0	0	0	0	0	0	0
5. Purchase a higher than standard efficiency personal computer	0	0	0	0	0	0	0	0	0	0
[IF S8_3=1-4] 6. Purchase a higher than standard efficiency stovetop or range	0	0	0	0	0	0	0	0	0	0
[IF S8_4=1-4] 7. Purchase a higher than standard efficiency clothes dryer	0	0	0	0	0	0	0	0	0	0
[S7E=1 OR 3] 8. Purchase a higher than standard efficiency swimming pool pump	0	0	0	0	0	0	0	0	0	0

Q29. In addition to offering programs that would help you buy more energy efficient appliances for your home, Ameren Illinois might also be able to offer your household a rebate or other financial incentive to do other things that might make your home more energy efficient. For example, they might provide an incentive to help you replace your exterior windows with more energy efficient models that have greater insulating properties. Once the exterior windows are installed, the energy saved could potentially make up for the associated cost of installing the windows within a few years.

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing the more energy efficient exterior windows within <u>3 years</u>, how likely would you be to install the windows (and take the rebate)?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all likely to do this</u> and '10' means your household would be <u>extremely likely to do this</u>.

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Not At All Like	ely							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q29 =7-10]

Q30. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install more energy efficient exterior windows in <u>5 years</u>. If you were given this option, how likely would you be to replace the exterior windows in your home (and take the rebate)?

Not At All Likely	l Likely							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q29 =1-6]

Q31. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install more energy efficient exterior windows in 1 year. If you were given this option, how likely would you be to replace the exterior windows in your home (and take the rebate)?

Not At All Likely								Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

Q32. Now, for each of the following energy efficiency improvements you could make in your home, let's assume that the impact of the rebate from Ameren Illinois was that you would save enough on electricity, in <u>3 years</u>, to pay for the additional cost to make the energy efficiency improvement. If this were true, how likely would your household be to make <u>each</u> improvement (and take the rebate)?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all likely to do this</u> and '10' means your household would be <u>extremely likely to do this</u>.

[ROTATE SECTIONS A-B] [ROTATE ITEMS WITHIN EACH SECTION]		at ally to	II			Extremely likely to do this					
3 Year Payback Period	1	2	3	4	5	6	7	8	9	1 0	
A. Cooling / Heating System Improvements [DISPLAY THIS SECTION IF S7B=1 OR 3 AND ANY S10_1-S10_996 SELECTED]											
[DISPLAY IF S10 NE 5-6] 1. Install a whole house / attic fan to improve air flow in your home	0	0	0	0	0	0	0	0	0	0	
[DISPLAY IF S12=1- 4 OR S10=1, 3 OR 4]	0	0	0	0	0	0	0	0	0	0	

2. Have your cooling and / or heating system ductwork professionally inspected, repaired, and sealed										
[DISPLAY IF S12=1- 4 OR S10=1, 3 OR 4]										
3. Add insulation to the ductwork that serves your cooling and/or heating or systems.	0	0	0	0	0	0	0	0	0	0
B. Exterior Building Improvements [DISPLAY THIS SECTION IF S2=1]]									
4. Install additional or upgraded home insulation to ceilings, walls, or floors	0	0	0	0	0	0	0	0	0	0
[DISPLAY IF S7D=1 OR 3] 5. Install controls on your outside lights that make sure	0	0	0	0	0	0	0	0	0	0
they are only on at certain times										

Q33. In addition to the options described so far, Ameren Illinois might also be able to offer your household a rebate or other financial incentive to implement some lower cost measures that could still help make your home more energy efficient. For example, they might provide an incentive to help you install a new – or replace an existing standard efficiency -- dehumidifier, with a more energy efficient model. Installing a high efficiency dehumidifier typically reduces air conditioning costs and saves energy overall. Once the dehumidifier is installed, the energy savings could potentially make up for the cost of the unit within a few years.

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing the more efficient dehumidifier within <u>3</u> <u>years</u>, how likely would you be to install or replace a dehumidifier (and take the rebate)?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all</u> <u>likely to do this</u> and '10' means your household would be <u>extremely likely to do this</u>.

Not At All Like	ly							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q33 =7-10]

Q34. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install the more energy efficient dehumidifier in **5 years**. If you were given this option, how likely would you be to install or replace a dehumidifier in your home (and take the rebate)?

Not At All Likely	у							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

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[ASK IF Q33 =1-6]

Q35. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install or replace a more energy efficient dehumidifier in 1 year. If you were given this option, how likely would you be to install or replace a dehumidifier in your home (and take the rebate)?

Not At All Likel	У							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

Q36. Now, for each of the following energy efficiency improvements you could make in your home, let's assume that the impact of the rebate from Ameren Illinois was that you would save enough on electricity, in <u>3 years</u>, to pay for the additional cost to make the energy efficiency improvement. If this were true, how likely would your household be to make each improvement (and take the rebate)?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all</u> <u>likely to do this</u> and '10' means your household would be <u>extremely likely to do this</u>.

[ROTATE SECTIONS A-C] [ROTATE ITEMS WITHIN EACH Not at all likely to do this							Extremely likely to do this					
3 Year Payback Period	1	2	3	4	5	6	7	8	9	1 0		
A. Cooling Improvements [DISPLAY THIS SECTION IF S7B=1 OR 3 A	ND AN	NY S1	0_1-S	10_9	96 SE	LECTE	D]					
[DISPLAY IF S10=1- 8, 990,996]												
Have regular maintenance performed on your cooling system by a professional service technician	0	0	0	0	0	0	0	0	0	0		
B. Heating Improvements [DISPLAY THIS SECTION IF S7A=1 OR 3 AND IF S12 NE 9]												
2. Have regular maintenance performed on your heating system by a professional service technician												
[DISPLAY IF S13=1- 4 OR S10=1, 3 OR 4] 3. Install a thermostat on your heating and / or cooling system that would allow you to pre-set different heating or cooling levels for different days and different times of the day	0	0	0	0	0	0	0	0	0	0		
C. Water Heating Improvements												
Install "low flow" showerheads that reduce the amount of hot water used	0	0	0	0	0	0	0	0	0	0		
D. Other In-Home Improvements												
5. Install one or more "Smart" power strips that	0	0	0	0	0	0	0	0	0	0		

automatically turn off devices (such as computers,					
printers, or phone chargers) after a period of time					
when they are not used					

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Q37. So, finally in terms of new energy efficiency options that Ameren Illinois might also be able to offer your household is a rebate to install new light bulbs that are more energy efficient than traditional incandescent bulbs. Light bulbs such as compact fluorescent light bulbs (CFLs) or LED (light emitting diode) bulbs fit into this category. Installing these higher efficiency bulbs saves energy, and could potentially make up for the higher cost of the bulb within a few years.

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing the more efficient bulbs within <u>3 years</u>, how likely would you be to install one or more of the bulbs (and take the rebate)?

Please use a 10 point scale where, '1' means you think your household would be <u>not at all</u> <u>likely to do this</u> and '10' means your household would be <u>extremely likely to do this</u>.

Not At All Like	ely							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q37 =7-10]

Q38. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install the more energy efficient light bulbs in <u>5 years</u>. If you were given this option, how likely would you be to install one or more of these bulbs in your home (and take the rebate)?

Not At All Likel	у							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q37 =1-6]

Q39. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the cost to install the more energy efficient light bulbs in <u>1 year</u>. If you were given this option, how likely would you be to install one or more of these bulbs in your home (and take the rebate)?

Not At All Likely	,							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

Q40. Now, please consider the following list of actions you can take to make your home more energy efficient, which don't have any up-front costs, but may require some tradeoffs in terms of a small amount of comfort or convenience.

Using a 10 point scale where, '1' means you think your household would be <u>not at all likely</u> to do this and '10' means your household would be <u>extremely likely to do this</u>, please indicate how likely you would be to take any of these energy saving actions.

[ROTATE 1-2]	Not at a likely to do this					Extreme likely t do th					
	1	2	3	4	5	6	7	8	9	10	
Reduce the temperature of the hot water that your water heater delivers	0	0	0	0	0	0	0	0	0	0	
Turn down the heating or cooling while sleeping or away from home	0	0	0	0	0	0	0	0	0	0	
3. Get rid of a secondary refrigerator that you may only use sometimes and might be in a garage or basement	0	0	0	0	0	0	0	0	0	0	

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V – PURCHASING ATTITUDES / BEHAVIOR & ENVIRONMENTAL ATTITUDES

Q41. Now we'd like to understand **how your household shops for products and services for your home**.

Using a 10-point scale where '1' means you <u>strongly disagree</u>, and '10' means you <u>strongly agree</u>, please indicate how much you agree or disagree with each of the following statements.

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-6]		ngly gree	•					Strongly agree		
	1	2	3	4	5	6	7	8	9	10
You carefully research product features and reviews to select the best product	0	0	0	0	0	0	0	0	0	0
2. You usually don't buy things unless they're on sale, or you have a coupon or discount	0	0	0	0	0	0	0	0	0	0
3. Someone in your household does a lot of doit-yourself / home-improvement projects	0	0	0	0	0	0	0	0	0	0
4. You usually take the time to shop and explore all of your options before you make a final purchase decisions	0	0	0	0	0	0	0	0	0	0
5. You prefer to shop and make purchases in a store, rather than on the Internet	0	0	0	0	0	0	0	0	0	0
6. To be honest, the environmental impact of your day-to-day purchases is not something you spend a lot of time worrying about	0	0	0	0	0	0	0	0	0	0

VII – ADDITIONAL HOUSEHOLD CHARACTERISTICS / DEMOGRAPHICS

In order to help us classify your responses, the last few questions are on your household's characteristics.

D1. **Including yourself**, how many individuals normally live in your home?

Please do not include anyone who is just visiting, or not currently living with you due to their enrollment in college and/or military service."

[RECORD NUMBER 1-20] individuals

- D2. Are there any individuals in your home that regularly stay at home all or most weekdays?
 - 1. Yes
 - 0. No
- D3. Which of the following best describes your home?
 - 1. Single-family house detached from any other houses
 - 2. Single-family house attached to one or more houses
 - 3. Multi-family house or building with 2-4 apartments/units
 - 4. Multi-family house or building with 5 or more apartments/units
 - 5. Mobile/manufactured home

990. Other [SPECIFY]

D4. For about how many years have you lived in your present home?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

- 1. Less than 1 year
- 2. [RECORD NUMBER 1-100] years
- D5. Is this home your primary place of residence or is it a seasonal/vacation home that is only occupied for part of the year?
 - 1. Primary residence
 - 2. Seasonal / vacation home

990. Other [SPECIFY]

[ASK IF D5=2]

D6. How many months out of the year do you or any other members of your household typically occupy this home? Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER 0-12] months

D7. What is the approximate square footage of your home? Please include only heated living space in your response.

If you are not certain, please give your best estimate.

- 1. Less than 500 sq. ft.
- 2.500 999
- 3. 1,000 1,499
- 4. 1,500 1,999
- 5. 2,000 2,499
- 6. 2,500 2,999
- 7. 3,000 3,499
- 8. 3,500 3,999
- 9. 4,000 sq. ft. or more
- D8. How many bedrooms are in your home?

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- 0. 0 / Studio/Efficiency apartment / SRO
- 1. 1
- 2. 2
- 3. 3
- 4. 4
- 5. 5
- 6. 6 or more
- D9. Which of the following best characterizes the city / town / community in which you live?
 - 1. Urban
 - 2. Suburban
 - 3. Rural
- D10. What is your gender?
 - 1. Male
 - 2. Female

- D11. What is the highest level of education you have completed?
 - 1. Less than a high school degree
 - 2. High school degree
 - 3. Technical/trade school program
 - 4. Associates degree or some college
 - 5. Bachelors degree
 - 6. Graduate / professional degree, e.g., J.D., MBA, MD, etc.
 - 7. Professional certification, e.g., CPA, CNP, etc.
- D12. What is your current employment status?
 - 1. Employed full-time
 - 2. Employed part-time
 - 3. Not currently employed
 - 4. Retired
 - 990. Other [SPECIFY]
- D13. Which of the following categories includes your <u>household's</u> total annual income before taxes in 2008? Please include the income of **all** people living in your home in this figure.
 - 1. Less than \$60,000
 - 2. \$60,000 or more
- D14. Which of the following categories includes your <u>household's</u> total annual income before taxes in 2008? Please include the income of **all** people living in your home in this figure.

[IF D13=1, DISPLAY OPTIONS 1-7 AND 13; IF D13=2, DISPLAY OPTIONS 8-13]

- 1. Less than \$10,000
- 2. \$10,000 \$14,999
- 3. \$15,000 \$19,999
- 4. \$20,000 \$29,999
- 5. \$30,000 \$39,999
- 6. \$40,000 -\$49,999
- 7. \$50,000 \$59,999
- 8. \$60,000 \$74,999
- 9. \$75,000 \$99,999
- 10. \$100,000 \$124,999
- 11. \$125,000 \$149,999
- 12. \$150,000 or more
- 13. Prefer not to say

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- D15. When thinking about your household's current financial situation compared to what it was a year ago, would you say that **overall your current financial situation is**...?
 - 1. Better than it was a year ago
 - 2. The same as it was a year ago
 - 3. Worse than it was a year ago
 - 4. Prefer not to say
- D16. When thinking about your household's current financial situation compared to what you anticipate it will be in a year from now, would you say that **overall your anticipated financial situation in a year from now will be...**?
 - 1. Better than your current financial situation
 - 2. The same as your current financial situation
 - 3. Worse than your current financial situation
 - 4. Prefer not to say
- D17. Which of the following best describes your race or ethnic background?
 - 1. White, Caucasian
 - 2. Black, African American, Caribbean American
 - 3. American Indian (Native American), Alaska Native
 - 4. Asian
 - 6. Hispanic, Latino
 - 5. Native Hawaiian, Pacific Islander
 - 990. Other [SPECIFY]
 - 7. Prefer not to say

VIII - CONCLUSION

[INCENTIVE NAME/ADDRESS COLLECTION SCREEN]

Those are all the questions we have for you today. Thanks for your participation!

Please click 'Continue' to proceed to the payment screen.

- CO. Please indicate which of the following you would prefer:
 - 1. Please email me a \$10 Amazon Gift Card
 - 2. I would prefer to have a \$10 check mailed to me
 - 3. I would like to decline and not receive an incentive

[IF C0=1, ASK C1; IF C0=2, ASK C2; IF C0=3, ASK C0A]

- COA. You have indicated that you do NOT want to receive your \$10 payment. Is that correct?
 - 1. Yes
 - 2. No

[IF YES, GO TO THANK YOU SCREEN; IF NO, RE-ASK CO]

- C1. So that we may mail your incentive to you, please provide your name and address below.
 - A. Full name
 - C. Mailing Address Line #1
 - D. Mailing Address Line #2 (optional)
 - E. City
 - F. State
 - G. ZIP Code
- C1. So that we may email your incentive to you, please provide your email address below.

[RECORD EMAIL ADDRESS -VALIDATE FOR FORMAT]

[INCENTIVE NAME/ADDRESS VERIFICATION SCREEN]

Please review the information you provided and verify that it is complete and correct:

[DISPLAY ALL NAME AND ADDRESS OR EMAIL INFORMATION COLLECTED]

If you would like to edit any of this information, please click the "Back" button to go to the previous screen, where you can make any needed changes.

Otherwise, please click "Continue" to submit your information.

[PROGRAMMER: INCLUDE BACK BUTTON FOR THIS SCREEN DURING LIVE VERSION]

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[IF CHOOSE TO RECEIVE AN INCENTIVE, DISPLAY:]

You have successfully submitted the information we need so we can send you your \$10 thank you gift. Your check or gift card will be issued within 4-6 weeks to the address or email address you provided. Thank you and have a nice day!

If you would like information on how your household can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

[IF CHOOSE NOT TO RECEIVE AN INCENTIVE, DISPLAY:]

Thank you for taking the time to answer our survey questions. Have a nice day!

If you would like information on how your household can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

SURVEY CLOSED MESSAGE – only display for terms or survey closed...do NOT display if respondent finishes survey.

We truly appreciate your time and effort in responding to the survey invitation you received, but the survey sponsored by Ameren Illinois is now closed.

In order to achieve a representative sample for this survey, quotas with specific criteria needed to be designated. Because these quotas have now been filled, we are not accepting any more responses.

If you would like information on how your home can save money on your energy bills, please visit Ameren Illinois at

www.actonenergy.com

DEFINITIONS

[THE DEFINITIONS IN THE TABLE BELOW WILL EACH BE SHOWN IN A POP-UP BOX THAT IS TRIGGERED BY A HYPERLINKED WORD OR PHRASE]

Word / Phrase	Definitions						
Air-source heat pump	A single system that of cooling your home	draws in outside air to use in both heating and					
Attic fan	exhausting hot air. U	A ventilation fan which regulates the heat level of a home's attic by exhausting hot air. Unlike a <u>whole-house fan</u> , which removes heat from the entire home, an attic fan <u>only</u> removes heat <u>from the attic</u> area of the home.					
Compact fluorescent lamp (CFL)		A newer type of light bulb that screws into a light socket, but which is a fluorescent light rather than a traditional incandescent light bulb, and which also often has a non-traditional swirly or curved shape.					
Conventional bulb / Incandescent bulb	T.	A traditional screw-in light bulb that may range from 15 – 100 watts or more					
Electric baseboard or electric coil radiant heating	Devices that use electrom baseboards or u	tricity directly to produce heat for your home under-floor heating.					
ENERGY STAR®	Energy STAR	A label for some new appliances that indicates the appliance meets the standards for high efficiency appliances					
Geothermal heat pump		uses water that circulates through underground h heating and cooling for your home					
Halogen lamp		A type of lamp, which uses filaments like a traditional incandescent bulb, but is also filled with inert gas and a small amount of halogen. Compared to traditional incandescent bulbs, halogen lamps get hotter, give off light of a brighter / whiter quality, and have a longer life span.					
Hard-wired fixture		A fixture that is hard-wired or fixed to the wall in the home. Examples of hard-wired fixtures are recessed lighting, sconces, chandeliers, pendant lights, track lighting, and under-the-cabinet lighting.					
LED lamp		A "light emitting diode" lamp is an electronic form of lighting that does not use filaments like traditional incandescent bulbs, but instead, uses solid state electronics.					
Low Voltage lighting		Low power lights (often used under counters or in other similar situations) that use a much lower wattage than do most traditional incandescent lights					

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Plug-in fixture		A fixture that is portable or free-standing with a cord that plugs into an outlet. Examples of plugin fixtures are table lamps, or task lighting.							
CFL-specific fixture	A fixture that has a CFL-ballast located inside, which is larger and la longer than integrated CFLs (CFLs with a screw-in mechanism so that they can replace incandescent bulbs). CFL-specific fixtures use replaceable bulbs that have a starter in the base of the bulb.								
Tubular fluorescent lamp	•	Traditional fluorescent lights are generally tubes of 3 or more feet in length and are installed in special fixtures made specifically for these tubes							
Wall furnace		"through the wall," meaning that it is a box that m the outside and then warms it before sending ir into a room.							
Whole-house fan	A ventilation fan mounted in the ceiling of a central part of a home that <u>removes heat from the entire home</u> . It does this by first drawir that heat from the living areas of the home into the home's attic, ar then pushing the heat trapped in the attic to the outside through vents. Unlike an <u>attic fan</u> , which only removes heat from a home's attic, a whole-house fan removes heat from the entire home.								

RESIDENTIAL SATURATION SURVEY QUESTIONNAIRE



Ameren Illinois DSM Market Potential – Saturation Questionnaire RESIDENTIAL

QUALIFYING CRITERIA AND QUOTAS

Qualifying Criteria

· The respondent must have primary or shared responsibility for making energy-related decisions

- The respondent must be at least 18 years old
- The respondent must be billed for electricity or natural gas directly by Ameren Illinois

PRELOAD ALL SAMPLE FIELDS.

Hard Quotas

Total: n=700

Soft Quotas

SEE QUOTA GRID: STRATUM_ID – we will track and enforce only if we need to Age (S2)

FOR ENTIRE SURVEY, [ADDRESS]=THE FOLLOWING SAMPLE FIELDS:

CLEAN_ADDRESS1
CLEAN ADDRESS2

RESPONDENT IDENTIFICATION / VERIFICATION

Welcome. This survey is sponsored by Ameren Illinois. [PROGRAMMER: INCLUDE AMEREN ILLINOIS LOGO]

Survey results will be collected and summarized by Definitive Insights, a market research company.

Please enter the 5-digit "Survey ID#" that appears on the survey invitation postcard you received. This ID# should be <u>located just above the mailing address</u> on the front side of your postcard.

Survey	ID#:	:	

[PROGRAMMER: VERIFY VALID CODE AND READ IN ALL VARIABLES FROM SAMPLE FILE]

We at Ameren Illinois and Definitive Insights value your privacy. We will use the information you provide <u>for research purposes only</u> and <u>will NOT share it with third parties for marketing purposes</u>. Information you provide will be stored in a secure database. If you have questions about our privacy practices or would like to get any other information about this study, please contact us via one of the following methods:

e-mail: <u>AmerenHelp@definitiveinsights.com</u>

phone: 1- 855-888-9270

postal mail: Definitive Insights

ATTN: Ameren Illinois Project Director

601 SW Oak Street Portland, Oregon 97205

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INTRODUCTION

Thank you for taking the time to see if you and your household qualify to participate in a new research study about energy. The study is sponsored by Ameren Illinois, and it has a very important purpose. Ameren Illinois is delivering programs to help its customers use energy more efficiently. Your answers to this survey will help the company to improve these programs so that they work best for everyone.

Your household is one of a small number being asked to respond to the survey. To show our appreciation for your time and effort in completing the survey, **you will have the option of choosing a \$10 Amazon Electronic Gift Card or a \$10 check at the end of the survey if you complete all of the questions.** (You may decline to receive payment if desired.) If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the URL and the Survey ID# from your survey invitation to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue</u>, <u>underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> NOT make you navigate away from the survey site.

Please click "CONTINUE" to begin.

RESPONDENT SCREENING

A1. Our records indicate that your address is:

[ADDRESS]

Is this correct?

- 3. Yes
- 4. No

[IF A1=2, TERMINATE AND READ A1 TERMINATE TEXT; OTHERWISE, GO TO S1.]

[A1 TERMINATE TEXT:]

We truly appreciate your time and effort in responding to our survey, but our questions are related to a specific address.

If you would like information on how your home can save money on your energy bills, please visit us at www.actonenergy.com.

Thank you. Have a nice day!

[DO NOT SHOW STANDARD THANK YOU SCREEN.]

S1. What is your role in making energy-related decisions about things such as: adjusting your home's thermostat, choosing to install insulation, selecting new appliances, large electronic devices, and light bulbs that are used in your home?



Any reference to "your home," here and throughout the rest of this survey, refers specifically to the residence at [ADDRESS].

- 1. You are primarily responsible for some or all of these decisions
- 2. Someone else in your household is primarily responsible for these types of decisions [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA R1]
- 3. You share responsibility for these decisions with others in your household, or with a landlord or property manager
- 4. Don't know [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA R1]

[IF S1=1 OR 3, ASK S2; OTHERWISE SHOW R1 AND TERMINATE WITHOUT SHOWING STANDARD TERMINATE LANGUAGE]

[R1 TERMINATE TEXT - NOT A DECISION MAKER]

R1. Thank you for taking the time to see if you are eligible to participate in this survey. At this time we need responses from someone in your household who has specific knowledge about the way your household makes decisions about energy-related issues.

We would appreciate it if you would provide that person with the invitation postcard you received or refer them to the following link so that they may complete this survey with the following ID:

Link: [URL] http://tiny.cc./ameren2

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[PROGRAMMER NOTE: IF A RESPONDENT TERMINATES VIA S2, DELETE DATA COLLECTED AND RESET SURVEY REENTRY POSITION FOR THAT SURVEY ID# BACK TO THE BEGINNING OF THE SURVEY. RECORD THE DATA DELETED FOR THAT SURVEY ID# ELSEWHERE SO WE CAN TRACK THE NUMBER OF TIMES AND REASONS RESPONDENTS DISQUALIFY AT S2 AS WELL AS THE NUMBER OF TIMES THESE PREVIOUSLY USED SURVEY ID#'S ARE REUSED. FOR ALL RESPONDENTS THAT DO NOT TERMINATE VIA S5R, DO NOT ALLOW SURVEY ID# TO BE USED AGAIN.]

{NOTE: THIS WILL ALLOW A RESPONDENT WHO DOES NOT PERSONALLY QUALIFY TO FORWARD THEIR SURVEY ID# TO A CO-WORKER WHO MAY BE BETTER QUALIFIED TO ANSWER THE SURVEY.}

[NEW PROGRAMMER NOTE 7/16 –FOR ALL TERMINATES BEYOND THIS POINT, USE THE GENERAL TERMINATE TEXT ON PG 6]

- S2. Which of the following categories represents your current age?
 - 1. Less than 18 years old [TERMINATE AFTER S7]
 - 2. 18-24
 - 3. 25-34
 - 4. 35-44
 - 5. 45-54
 - 6. 55-64
 - 7. 65 or more years old

[IF S2=2-7, ASK S3; OTHERWISE ASK S3 BUT FLAG AS TERMINATE AND END SCREENER AFTER S7]

- S3. Do you, or does anyone else in your household work for a gas or electric utility company?
 - 1. Yes [TERMINATE AFTER S7]
 - 2. No

[ASK ALL]

- S4. Do you own or rent your home?
 - 1. Own (or in the process of buying it)
 - 2. Rent / lease

[PROGRAMMER NOTE: QS5 AND QS6 SHOULD BE PROGRAMMED EXACTLY LIKE S5 & S6 IN THE RES PROG INTEREST SURVEY]

- S5. How is your household billed for the electricity you use?
 - 1. My household is billed directly by Ameren Illinois [CONTINUE TO S6]
 - 2. My household is NOT billed directly by Ameren Illinois; the cost for our electricity is included in our rent, or is paid by someone else [ASK S6 IF S6 NOT=1, ASK S7 AND TERMINATE]
 - 3. My household's electricity is provided by another utility; **not** Ameren Illinois [ASK S6 IF S6 NOT=1, TERMINATE AFTER S7]
 - 4. Don't know [ASK S6, BUT TERMINATE AFTER S7, REGARDLESS OF S6 RESPONSE]

- S6. How is your household billed for the natural gas you use?
 - 1. My household is billed directly by Ameren Illinois [IF S5 NOT=4, CONTINUE]
 - 2. My household is NOT billed directly by Ameren Illinois; the cost for our natural gas is included in our rent, or is paid by someone else [IF S5=1, ASK S7 & DO NOT TERMINATE; OTHERWISE, ASK S7 AND TERMINATE]
 - 3. My household's natural gas is provided by another utility; **not** Ameren Illinois [**IF S5=1**, **ASK S7**, **S8 AND S9**; **IF S5 NOT=1**, **ASK S9 AND TERMINATE**]
 - 4. Don't know [TERMINATE AFTER S7]
- S7. Which of the following things are included in a gas or electric bill that you pay directly, as opposed to things that might be paid for by a landlord, a property management company, or someone else? *Please select all that apply.*

Things for which you pay directly

- 1. Heating all or some of the space in your house / unit
- 2. Air conditioning
- 3. Water heating
- 4. Lights on the outside of your home or building
- 5. None of the above I am not billed directly for any of these things in my gas or electric bill **[EXCLUSIVE]**

[IF S2=1 OR S3=2, TERMINATE HERE, BUT TERM LABEL SHOULD BE FOR THE ACTUAL TERMINATION REASON...NOT THE LAST QUESTION VIEWED)
[QUOTA CHECK – IF OVER-QUOTA, TERMINATE AND SHOW TERMINATE LANGUAGE BELOW; OTHERWISE GO TO INVITATION LANGUAGE]

GENERAL TERMINATE LANGUAGE ONLY FOR NON-QUALIFYING AFTER QS1.0 OR OVER-QUOTA RESPONDENTS

We truly appreciate your time and effort in responding to our survey invitation and answering these initial questions, which were designed to see if you are eligible to participate.

In order to achieve a representative sample, quotas with specific criteria have been designated. At this point, we have reached the number of respondents we can accept from individuals with your type of experience or background. Again, we would like to thank you for your time and effort.

If you would like information on how your home can save money on your energy bills, please visit us at www.actonenergy.com.

Thank you. Have a nice day!

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INVITATION LANGUAGE FOR QUALIFYING RESPONDENTS

Thank you for your responses so far! You qualify for the survey. As we indicated earlier, only a limited number of individuals will be able to complete this survey, so we appreciate your time in filling out the survey as completely as possible.

The survey should take about 20 minutes to complete. Once you complete the survey you will be eligible to receive our \$10 Visa card thank you payment. Information about how to receive this payment will be provided at the end of the survey.

Your responses are important to us, so please press "CONTINUE" to begin answering the survey questions. All information provided in this survey will be kept strictly confidential, and at no time will you be asked to purchase anything.

If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the personalized URL to access your survey again. The survey will automatically take you to the point where you left off.

As you complete the survey, you will **not** be able to use your browser's "back" button. If you mistakenly press your browser's "back" button, you will need to press the "refresh" button to continue the survey.

I – HOUSEHOLD INFORMATION

[PROGRAMMER NOTE: THROUGHOUT THIS SURVEY, WORDS OR PHRASES WITH BLUE, UNDERLINED FONT WILL HAVE HYPERLINKED DEFINITIONS THAT POP-UP WHEN THE RESPONDENT CLICKS ON THE WORD OR PHRASE. HYPERLINKED DEFINITIONS ARE PROVIDED AT THE END OF THIS DOCUMENT]
7/25 PROGRAMMER NOTES: PLEASE USE SAME PROCESS THAT WE USED IN RES PROG INT TO PREVENT A CLICKED HYPERLINK FROM SELECTING THAT RESPONSE IF THE WORD IS A QUESTION RESPONSE OPTION; REQUIRE WHOLE NUMBERS ONLY – NO DECIMALS]]

Q1. **Including yourself**, how many individuals normally live in your home?

Do not include anyone who is just visiting, those away in the military, or children who are away at college.

[RECORD NUMBER 1-20] individuals

- Q2. Which of the following best describes your home at [ADDRESS]?
 - 1. Single-family house detached from any other houses
 - 2. Single-family house attached to one or more houses
 - 3. Multi-family house or building with 2-4 apartments/units
 - 4. Multi-family house or building with 5 or more apartments/units
 - 5. Mobile/manufactured home
 - 990. Other [SPECIFY]

[PROGRAMMER: DISPLAY DIRECTLY BELOW Q2 ON SCREEN: Note is displayed above Q3 "PLEASE NOTE THAT ALL OF OUR REMAINING QUESTIONS REFER SPECIFICALLY TO THE RESIDENCE AT THE LOCATION CITED ABOVE."]

[IF Q2=990, ASK Q3; OTHERWISE SKIP TO Q4]

Q3. Rather than using one of the residence type descriptions we offered in the last question, you described your home as: "[INSERT Q2=990 RESPONSE]." Which of the following would you say best describes this dwelling?

Note: The term "single-family" does not necessarily mean that the individuals living in the house/building/structure must be family members. Rather, this term indicates individuals voluntarily living together in a single dwelling who share common areas and do not consider each other neighbors or tenants.

1. A <u>single-family fully detached</u> house/building/structure – a house/building/structure that is fully separated from any other house/building/structure (i.e., it has open space on all four sides of its ground-to-roof outer walls)

2. Either...

a <u>single-family semi-detached</u> house/building/structure – a house/building/structure that is not
fully separated from all other houses/buildings/structures (i.e., it shares a wall with at least one
other house/building/structure) and is occupied by a single party of individuals

or...

a <u>multi-family</u> house/building/structure— a single house/building/structure that incorporates several relatively self-contained housing units, each of which are occupied by separate parties of individuals

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(This option includes any condominiums, town houses, row houses, duplexes, triplexes, apartment buildings, etc.)

- Q4. About when was your home built?
 - 1. Before 1940
 - 2. 1940-1949
 - 3. 1950-1959
 - 4. 1960-1969
 - 5. 1970-1979
 - 6. 1980-1989
 - 7. 1990-1999
 - 8. 2000-2009
 - 9. 2010-present
 - 10. Not sure
- Q5. For about how many years have you lived in your present home?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

- 1. Less than 1 year
- 2. [RECORD NUMBER 1-100] years
- Q6. Is this home your primary place of residence or is it a seasonal/vacation home that is only occupied for part of the year?
 - 1. Primary residence
 - 2. Seasonal / vacation home
 - 990. Other [SPECIFY]

[IF Q6=2, ASK Q7; OTHERWISE SKIP TO Q8]

Q7. How many months out of the year do you or any other members of your household typically occupy this home? Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER 0-12]

Q8. What is the approximate square footage of your home? Please include only heated living space in your response.

If you are not certain, please give your best estimate.

- 1. Less than 500 sq. ft.
- 2. 500 999
- 3. 1,000 1,499
- 4. 1,500 1,999
- 5. 2,000 2,499
- 6. 2,500 2,999
- 7. 3,000 3,499

- 8. 3,500 3,999
- 9. 4,000 sq. ft. or more
- Q9. How many stories or levels are there in your [IF Q2=1 OR 5 OR Q3=1, DISPLAY, "home"; IF Q2=2-4 OR Q3=2, DISPLAY "apartment / unit"]? Please do NOT count any basements or attics in your response.
 - 1. 1 story / level
 - 2. 2 stories / levels
 - 3. 3 stories / levels
 - 4. 4 or more stories / levels
- Q10. How many bedrooms are in your home, include any that might be located in the basement or attic?
 - 0. 0 / Studio/Efficiency apartment / SRO
 - 1. 1
 - 2. 2
 - 3. 3
 - 4. 4
 - 5. 5

6. 6 or more

- Q11. How many bathrooms are in your home?

Please consider a bathroom that does not include either a bathtub or shower as a half-bathroom.

- A. Full bathrooms [DROP DOWN WITH 0 4 OR MORE]
- B. Half bathrooms [DROP DOWN WITH 0 4 OR MORE]
- Q12. Does your home have an attic or basement? Select all that apply.

[IF Q2=2-4 OR Q3=2, DISPLAY, "Consider only an attic or basement that is reserved solely for the use of those living in your specific apartment/unit; Do not consider an attic or basement that is available to others living in other apartments/units in your building."]

- 1. My home has an attic
- 2. My home has a basement
- 3. My home has neither an attic nor a basement **[EXCLUSIVE]**

[IF Q12_1=1 OR Q12_2=1, ASK Q13; OTHERWISE SKIP TO Q14]

Q13. How much, if at all, is your [DISPLAY IF Q12_1=1, "attic"] [DISPLAY IF Q12_1=1 AND Q12_2=1, "or"] [DISPLAY IF Q12_2=1, "basement"] finished and/or heated during the winter months?

		Area	How much of this area is finished?	How much of this area is heated during the winter months?
1.	[DISPLAY ROW IF Q12_1=1]	Attic	 All or most of it (75%+) Some of it (25-74%) Little or none of it (<25%) 	 All or most of it (75%+) Some of it (25-74%) Little or none of it (<25%)
2.	[DISPLAY ROW IF Q12_2=1]	Basement	 All or most of it (75%+) Some of it (25-74%) Little or none of it (<25%) 	 All or most of it (75%+) Some of it (25-74%) Little or none of it (<25%)

Q14. Of all the windows in your home, what percentage are <u>single pane windows</u>, and what percentage are <u>double pane windows or better</u>?

Your best estimate is fine, but please enter whole numbers that will add up to 100%.

	Window Type	Percent
1.	Single pane windows (windows with just 1 layer of glass)	[RECORD NUMBER 0-100]%
2.	Double pane windows or better (windows with 2 or more layers of glass)	[RECORD NUMBER 0-100]%
3.	Not sure [EXCLUSIVE]	
TOT.	Total	[CALCULATE TOTAL]%

[PROGRAMMER: Q14TOT MUST EQUAL 100, OR Q14_3 MUST BE SELECTED ("NOT SURE") IN ORDER TO CONTINUE TO NEXT SCREEN]

II – HEATING AND COOLING

Now we'd like to ask you some questions about your home's heating, cooling, and water heating systems.

Q15. During the winter (December through February), how often do you use the following heating equipment in your home? [DEFAULT ANSWER IS 'NEVER' FOR EACH OPTION]

	Heating Equipment	[A] Never (I don't have it or I never use it)	[B] On a few winter days (less than 25% of days)	[C] On some winter days (25-49% of days)	[D] On many winter days (50-74% of days)	[E] On most winter days (75% or more days)
1.	Electric central warm air furnace with ducts/vents to individual rooms [REMOVED HYPERLINK]	0	0	0	0	0
2.	Natural gas central warm air furnace with ducts/vents to individual rooms	0	0	0	0	0
3.	Natural gas central boiler with hot water/steam radiators or baseboards in individual rooms [REMOVED HYPERLINK]	0	0	0	0	0
4.	Electric baseboard or electric coils radiant heating	0	0	0	0	0
5.	Air-source heat pump	0	0	0	0	0
6.	Geothermal heat pump	0	0	0	0	0
7.	Wall furnace(s)	0	0	0	0	0
8.	Fireplace(s) – wood burning	0	0	0	0	0
12.	Fireplace(s) – natural gas burning	0	0	0	0	0
9.	Wood burning stove(s)	0	0	0	0	0
10.	Wall-mounted space heater(s)	0	0	0	0	0
11.	Portable space heater(s)	0	0	0	0	0
990.	Other (please specify)	0	0	0	0	0

Programming note added – respondent cannot select "Never" for all options.

[IF Q4=9 (HOUSE BUILT 2010 TO PRESENT], AUTOCODE AS Q16=8 AND ASK Q17; OTHERWISE CONTINUE]

Q16. When was your heating system ([INSERT Q15 RESPONSE]) purchased or installed? [Repeat for each system selected in Q15]

[IF Q15=7-10, DISPLAY, "If you have more than one heating unit as part of this heating system but all the units were not purchased at the same time, answer for the unit you use most often."]

- 1. Before 1970 [SHOW IF Q4 = 1-4, OR 11]
- 2. 1970-1979 [SHOW IF Q4 = 1-5, OR 11]
- 3. 1980-1989 [SHOW IF Q4 = 1-6, OR 11]
- 4. 1990-1994 [SHOW IF Q4 = 1-7, OR 11]
- 5. 1995-1999 [SHOW IF Q4 = 1-7, OR 11]
- 6. 2000-2004 [SHOW IF Q4 = 1-8, OR 11]
- 7. 2005-2009 [SHOW IF Q4 = 1-8, OR 11]
- 8. 2010-present [SHOW IF Q4 = 1-9, OR 11]
- 9. Not sure [SHOW ALL]

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[IF Q16=7-8 ASK Q17; OTHERWISE SKIP TO Q18]

[IF Q15=1-7 AND Q16=7-8, ASK Q17 FOR EACH MENTION; PIPE IN EACH Q15 RESPONSE GIVEN BETWEEN 1-7]

- Q17. Why did you replace your **[Q15 RESPONSE 1-7]** heating system?
 - 1. My home did not have a heating system so I added it.
 - 2. The existing system broke and I needed to replace it.
 - 3. I wanted to purchase a more energy efficient appliance to replace a still-working system.
 - 4. I wanted to purchase a new unit to replace a still-working system for other reasons.
 - 5. Other (please specify)

Q18. During the summer (June through August), how often do you use the following cooling equipment in your home? [PROGRAMMER: THE A, B, C, ETC;. BELOW IS FOR DATA LABELING – DO NOT SHOW ON SCREEN]

	Cooling Equipment	A. None (I don't have it or I never use it)	B. On a few summer days (less than 25% of days)	C. On some summer days (25- 49% of days)	D. On many summer days (50-74% of days)	E. On most summer days (75% or more days)
1.	Central air conditioner	0	0	0	0	0
2.	One or more room air conditioners mounted in or near a window or on a wall	0	0	0	0	0
3.	Air source heat pump	0	0	0	0	0
4.	Geothermal heat pump	0	0	0	0	0
5.	One or more portable room air conditioners	0	0	0	0	0
6.	One or more portable dehumidifiers	0	0	0	0	0
7.	One or more ceiling, window, or room fans	0	0	0	0	0
8.	Whole-house fan	0	0	0	0	0
9.	Attic fan	0	0	0	0	0
990.	Other (please specify)	0	0	0	0	0

[IF Q15_5 > A. Never AND Q18_3=A. None] OR [If Q15_6 > A. Never AND Q18_4=A. None] ASK Q19; OTHERWISE SKIP TO Q22]

Q19. You indicated that you use a heat pump to heat your home in the winter, but do not use it to cool your home in the summer. For verification purposes, please select your primary heating and cooling system.

	Q19A. Heating Equipment [Show any for which Q15>A. Never]		Q19B. Cooling Equipment [Show any for which Q18>A. None]
1.	Electric central warm air furnace with ducts/vents to individual rooms [REMOVED HYPERLINK]	1.	<u>Central air conditioner</u>
2.	Natural gas central warm air furnace with ducts/vents to individual rooms [REMOVED HYPERLINK]	2.	One or more room air conditioners mounted in or near a window or on a wall
3.	Natural gas central boiler with hot water/steam radiators or baseboards in individual rooms	3.	Air source heat pumps
4.	Electric baseboard or electric coils radiant heating	4.	Geothermal heat pump
5.	Air-source heat pump	5.	One or more portable room air conditioners
6.	Geothermal heat pump	6.	One or more portable dehumidifiers
7.	Wall furnace(s)	7.	One or more ceiling, window, or room fans
8.	Fireplace(s) – wood burning	8.	Whole-house fan
12.	Fireplace(s) – natural gas burning	9.	Attic fan
9.	Wood burning stove(s)	990.	Other (please specify)

990.	Other (please specify)	
11.	Portable space heater(s)	
10.	Wall-mounted space heater(s)	

[IF ANY Q18=1-9,990 >A. None, ASK Q20; OTHERWISE SKIP TO Q23] [IF Q4=9 (HOUSE BUILT 2010 TO PRESENT], AUTOCODE AS Q20=8 AND ASK Q21; OTHERWISE CONTINUE]

Q20. When was this cooling system purchased or installed? [Repeat for each system selected in Q18]

[IF Q18=2,5-7, DISPLAY, "If you have more than one cooling unit as part of this cooling system but all the units were not purchased at the same time, answer for the unit you use most often."]

- 1. Before 1970 [SHOW IF Q4 = 1-4 OR 11]
- 2. 1970-1979 [SHOW IF Q4 = 1-5 OR 11]
- 3. 1980-1989 [SHOW IF Q4 = 1-6 OR 11]
- 4. 1990-1994 [SHOW IF Q4 = 1-7 OR 11]
- 5. 1995-1999 [SHOW IF Q4 = 1-7 OR 11]
- 6. 2000-2004 [SHOW IF Q4 = 1-8 OR 11]
- 7. 2005-2009 [SHOW IF Q4 = 1-8 OR 11]
- 8. 2010-present [SHOW IF Q4 = 1-9 OR 11]
- 9. Not sure [SHOW ALL]

[IF Q20=7-8 ASK Q21; OTHERWISE SKIP TO Q22]

[IF Q18=1-5 > NONE AND Q20=7-8, ASK Q21 FOR EACH MENTION Q18=1-5; PIPE IN EACH Q18 RESPONSE GIVEN BETWEEN 1-5]

- Q21. Why did you replace your [Q18 RESPONSE] cooling system?
 - 1. My home did not have a cooling system so I added it.
 - 2. The existing system broke and I needed to replace it.
 - 3. I wanted to purchase a more energy efficient appliance to replace a still-working system.
 - 4. I wanted to purchase a new unit to replace a still-working system for other reasons.
 - 5. Other (please specify)

[IF (Q18=2,5,6 OR 7 Not Equal to A. NONE), ASK Q22; OTHERWISE SKIP TO Q23]

Q22. How many of the following does your home have?

1.	[DISPLAY IF Q18_2 NE A. None]	Room air conditioners mounted in or near a window or on a wall	[RECORD NUM 0-19]
2.	[DISPLAY IF Q18_5 NE A. None]	Portable room air conditioners	[RECORD NUM 0-19]
3.	[DISPLAY IF Q18_6 NE A. None]	Portable dehumidifiers	[RECORD NUM 0-19]
4.	[DISPLAY IF Q18_7 NE A. None]	Window/room fans	[RECORD NUM 0-19]
5.	[DISPLAY IF Q18_7 NE A. None]	Ceiling fans	[RECORD NUM 0-19]

Programming note added – respondent must answer at least one choice with a numerical value of 1 or greater.

Q23. Does your home use a thermostat to control heating and/or cooling?

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1.	Yes, a programmable thermostat (one that lets you program a schedule and set the temperature up or down at different times of the day and/or different days of the week)	
2.	Yes, a standard/manual thermostat (one that you have to manually adjust and that has only one setting for the internal temperature you want)	
3.	No thermostat	

[IF Q23=1-2, ASK Q24; OTHERWISE SKIP TO FILTER BEFORE Q25]

Q24. At what temperature do you set your thermostat during the following portions of the day?

		A. On days when you are using your HEATING system	B. On days when you are using your COOLING System
1.	Day	 Less than 66°F 66-69°F 70-74°F 75-79°F 80°F or higher Not Applicable 	 Less than 66°F 66-69°F 70-74°F 75-79°F 80°F or higher Not Applicable
2.	Night	 Less than 66°F 66-69°F 70-74°F 75-79°F 80°F or higher Not Applicable 	 Less than 66°F 66-69°F 70-74°F 75-79°F 80°F or higher Not Applicable

[IF S7=3, ASK Q25, OTHERWISE SKIP TO INTRO TEXT BEFORE Q29]

Q25. How many water heaters does your home have?

- 0. None; hot water is provided by the building to residents
- 1. 1
- 2. 2
- 3. 3 or more

IF Q25=1-3; ASK Q26; OTHERWISE SKIP TO TEXT BEFORE Q29]

Q26. **[IF Q25=1, DISPLAY, "**What kind of water heater is this?**" IF Q25=2-3, DISPLAY, "**What kind of water heaters are these?**"**]

[IF Q25=3, DISPLAY, "Please answer for the two water heaters used most often."]

		A. Conventional water heater with storage tank	B. Tankless (instantaneous/on demand) water heater	C. Heat pump water heater	D. Other [SPECIFY]	E. Not sure
1.	Water heater [IF Q25>1, DISPLAY, "Water heater #1"]	0	0	0	0	0
2.	[DISPLAY ROW IF Q25>1] Water heater #2	0	0	0	0	0

Q27. [IF Q25=1, DISPLAY, "What type of fuel does this water heater use? When was it installed?"; IF Q25=2-3, DISPLAY, "What type of fuel do these water heaters use? When were they installed?"] [If Q26_1=conventional water heater with storage tank or If Q26_2= conventional water heater with storage tank, DISPLAY "What size tank is your water heater?"

[IF Q25=3, DISPLAY, "Please answer for the two water heaters used most often."]

		Water Heater Type	Fuel Type	Year Installed	Tank Size [Display if Q26=1]
1.	Water heater [IF Q25>1, DISPLAY, "Water Heater #1"]		1. Natural gas 2. Electricity 3. Fuel oil 4. Propane (bottled gas) 5. Wood 990. Other [SPECIFY] 998. Not sure	1. Before 1970 [SHOW IF Q4 = 1-4] 2. 1970-1979 [SHOW IF Q4 = 1-5] 3. 1980-1989 [SHOW IF Q4 = 1-6] 4. 1990-1994 [SHOW IF Q4 = 1-7] 5. 1995-1999 [SHOW IF Q4 = 1-7] 6. 2000-2004 [SHOW IF Q4 = 1-8] 7. 2005-2009 [SHOW IF Q4 = 1-8] 8. 2010-present [SHOW IF Q4 = 1-9] 998. Not sure	1. Under 55 gallons 2. 55 gallons or more 3. Not sure

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	[DISPLAY ROW IF	[INSERT RESPONSE	1. Natural gas	1. Before 1970	1. Under 55
	Q25>1]	SELECTED AT Q26]	2. Electricity	[SHOW IF Q4 = 1-	gallons
	Water heater #2		3. Fuel oil	4]	2. 55 gallons or
			4. Propane (bottled	2. 1970-1979	more
			gas)	[SHOW IF Q4 = 1-	3. Not sure
			5. Wood	5]	
			990. Other [SPECIFY]	3. 1980-1989	
			998. Not sure	[SHOW IF Q4 = 1-	
				6]	
				4. 1990-1994	
				[SHOW IF Q4 = 1-	
				7]	
2.				5. 1995-1999	
				[SHOW IF Q4 = 1-	
				7]	
				6. 2000-2004	
				[SHOW IF Q4 = 1-	
				8]	
				7. 2005-2009	
				[SHOW IF Q4 = 1-	
				8]	
				8. 2010-present	
				[SHOW IF Q4 = 1-	
				9]	
				998. Not sure	

[IF Q27_1 Yr Installed=7-8 or Q27_2 Yr Installed=7-8 ASK Q28; OTHERWISE SKIP TO Q29]

Q28. Why did you replace your water heating system?

- 1. My home did not have a water heating system so I added it.
- 2. The existing system broke and I needed to replace it.
- 3. I wanted to purchase a more energy efficient appliance to replace a still-working system.
- 4. I wanted to purchase a new unit to replace a still-working system for other reasons.
- 5. Other (please specify)

III - LIGHTING

Thank you for your responses so far! Next we are going to ask you about your home's lighting.

Q29. About how many of the following types of light bulbs/lamps would you say you are currently using <u>inside</u> your home? *Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.*[PROGRAMMER NOTE: DO NOT ACCEPT DECIMALS]

Note: To make it easier for you to account for all the lighting inside your home, we've broken this down by areas that might be included in your home. If the list of areas provided does not account for all the lighted areas <u>inside</u> your home, please include the number of each type of light bulb/lamp in the "Any other areas in your home" row.

		A.	В.	C.	D.	E.	F.	G.	
	Area	Conventional light bulbs /Incandescent lamps	Compact fluorescent lamps (CFLs)	Tubular fluorescent lamps	Halogen light bulbs	LED light bulbs	Low voltage lamps	Other types of lighting [SPECIFY]	Tot
				•					
1.	Bedrooms [DISPLAY ROW IF Q10>0]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
2.	Bathrooms [DISPLAY ROW IF Q11>0]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
3.	Kitchen / dining areas	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
4.	Living area(s) (e.g., Living rooms, great rooms, family rooms)	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
5.	Hallways, entryways/ foyers, stairwells, closets/pantries	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
6.	Utility rooms, garages	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
7.	Any other areas in your home [SPECIFY]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CA TOT
	Total	[CALCULATE TOTAL]	[CALCULATE TOTAL]	[CALCULATE TOTAL]	[CALCULATE TOTAL]	[CALCULATE TOTAL]	[CALCULATE TOTAL]	[CALCULATE TOTAL]	Gra Tot [CA TOT

[PROGRAMMER: GRAND TOTAL MUST BE GREATER THAN 0 FOR RESPONDENT TO MOVE TO NEXT SCREEN]

[IF Q29_C GRANDTOT>0, ASK Q30; OTHERWISE SKIP TO Q31]

Q30. What percentage of all the <u>interior fluorescent lamps / fixtures</u> in your home can be described as each of the following types?

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Your best estimate is fine, but please enter whole numbers that will add up to 100%.

	[SET DEFAULT RESPONSE AT 0]	% of all fluorescent lamps / fixtures used
1.	Standard fluorescent tubes (T12)	[RECORD NUM 0-100]%
2.	High-efficiency fluorescent tubes (T8)	[RECORD NUM 0-100]%
3.	Super high-efficiency fluorescent tubes (T5)	[RECORD NUM 0-100]%
4.	LED	[RECORD NUM 0-100]%
5.	Other	[RECORD NUM 0-100]%
TOT.	Total	[CALCULATE TOTAL]%

[IF Q29GRANDTOT>0, ASK Q31; OTHERWISE SKIP TO Q32] [FOR Q31, SHOW ONLY THOSE RESPONSES THAT MATCH TO WHAT WAS ANSWERED IN Q29]

Q31. Approximately what is the average <u>number of HOURS</u> that each of these types of lighting (used <u>inside</u> your home) is on per day? *Your best estimate is fine, but please use only WHOLE numbers.*

Note: Once again, we've broken this down by areas that might be included in your home. If the list of areas provided does not account for all the lighted areas <u>inside</u> your home, please include the number of hours for each type of light bulb/lamp in the "Any other areas in your home" row.

[PROGRAMMER: DO NOT ACCEPT DECIMALS]

		A.	В.	C.	D.	E.	F.	G.	
	Area	Conventional light bulbs /Incandescent lamps	Compact fluorescent lamps (CFLs)	Tubular fluorescent lamps	Halogen light bulbs	LED light bulbs	Low voltage lamps	Other types of lighting [SPECIFY]	Tot
				·					
1.	Bedrooms [DISPLAY ROW IF Q10>0]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
2.	Bathrooms [DISPLAY ROW IF Q11>0]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
3.	Kitchen / dining areas	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
4.	Living area(s) (e.g., Living rooms, great rooms, family rooms)	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
5.	Hallways, entryways/ foyers, stairwells, closets/pantries	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
6.	Utility rooms,	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CA TOT
7.	. Any other areas in	[RECORD NUM	[RECORD	[RECORD	[RECORD	[RECORD	[RECORD	[RECORD	[CA

your home [DISPLAY ROW IF Q29 7>0] [SPECIFY]	0-24]	NUM 0-24]	NUM 0-24]	NUM 0-24]	NUM 0-24]	NUM 0-24]	NUM 0-24]	тот
Total	[CALCULATE TOTAL]	Gra Tot [CA TOT						

[PROGRAMMER: GRAND TOTAL MUST BE GREATER THAN 0 FOR RESPONDENT TO MOVE TO NEXT SCREEN]

- Q32. Approximately how many of each of the following devices do you have to control lighting <u>inside</u> your home?
 - 1. Timers: [RECORD NUMBER 0-50]
 - 2. Motion detectors or occupancy sensors: [RECORD NUMBER 0-50]

[IF S7=4, ASK Q33; OTHERWISE SKIP TO INTRO BEFORE Q36]

Q33. About how many of the each of the following types of light bulbs/lamps would you say you are currently using on the <u>outside</u> of your home? *Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.*

	1.	2.	3.	4.	5.	
Area	Conventional light bulbs /Incandescent lamps	Compact fluorescent lamps (CFLs)	<u>Halogen</u> <u>light bulbs</u>	<u>LED lamps</u>	Other [SPECIFY]	Total
Outside your home	[RECORD NUM 0-100]	[RECORD NUM 0- 100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[RECORD NUM 0-100]	[CALC TOTAL]

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[IF Q33TOT>0, ASK Q34; OTHERWISE SKIP TO Q35]

Q34. Approximately, how many **HOURS** per day do you use the following lights <u>outside</u> your home, on average? Your best estimate is fine.

			Average number hours on per day
1.	[DISPLAY ROW IF Q33_1>0] Conventional light bulbs / Incandescent lamps		[RECORD NUM 0-24]
2.	[DISPLAY ROW IF Q33_2>0] Compact fluorescent lamps (CFLs)		[RECORD NUM 0-24]
3.	[DISPLAY ROW IF Q33_3>0] Halogen light bulbs		[RECORD NUM 0-24]
4.	[DISPLAY ROW IF Q33_4>0] LED lamps	1	[RECORD NUM 0-24]
5.	[DISPLAY ROW IF Q33_5>0] Other		[RECORD NUM 0-24]

- Q35. Which of the following types of devices do you use to control lighting <u>outside</u> your home? *Select all that apply.*
 - 1. Timers
 - 2. Motion detectors
 - 3. <u>Dusk-to-dawn sensors</u>
 - 4. None of the above [EXCLUSIVE]

IV - MAJOR APPLIANCES

The following questions relate to some common appliances that may be used in your home.

Q36. Which of the following major appliances does your home have? Select all that apply.

[IF Q2=2-4 OR Q3=2, DISPLAY] "Include only appliances that are <u>located within your specific condo / apartment / unit</u>. Do not include appliances that are located in common areas of your apartment-building and available for use by the entire community of residents within your building."]

- 1. Refrigerator and/or freezer
- 2. Stovetop/range and/or oven
- 3. Dishwasher
- 4. Clothes washer
- 5. Clothes dryer
- 6. None of the above [EXCLUSIVE]

[IF Q36_1=1, ASK Q37; OTHERWISE AUTOCODE ALL (Q37_1 thru Q37_3)=0 AND SKIP TO FILTER BEFORE Q39]

Q37. How many refrigerators, freezers, and refrigerator / freezer combos does your home have? [PROGRAMMER: DEFAULT SHOULD BE ZERO]

	Unit Type	Number of Units
1.	Combination refrigerator / freezer units	[RECORD NUM 0-5]
2.	Refrigerator-only units	[RECORD NUM 0-5]
3.	Freezer-only units	[RECORD NUM 0-5]
тот.	Total # of units in your home:	[CALCULATE TOTAL]

[IF Q37TOT>0, ASK Q38; OTHERWISE SKIP TO FILTER BEFORE Q39]

Q38. **[IF Q37TOT=1, DISPLAY, "**When was this refrigerator, freezer, or refrigerator / freezer combo purchased?"**] [IF Q37TOT>1, DISPLAY, "**When were each of these refrigerator, freezer, or refrigerator / freezer combo units purchased?"**]**

[IF Q37_1>2 OR Q37_2>2 OR Q37_3>2, DISPLAY "When your home has more than two units in a category, please answer for the largest two units in that category."]

		Unit Type [DISPLAY COLUMN IF Q37TOT>1]	Year Purchased
1.	[DISPLAY ROW IF Q37_1>=1]	Combination refrigerator / freezer unit [DISPLAY IF Q37_1>1, "#1"]	 Before 1993 1993-2001 2002-2007 2008- present Not sure
2.	[DISPLAY ROW IF Q37_3>=2]	Combination refrigerator / freezer unit #2	 Before 1993 1993-2001 2002-2007 2008- present Not sure
3.	[DISPLAY ROW IF Q37_2>=1]	Refrigerator-only unit [DISPLAY IF Q37_2>1, "#1"]	1. Before 1993 2. 1993-2001 3. 2002-2007 4. 2008- present 5. Not sure
4.	[DISPLAY ROW IF Q37_2>=2]	Refrigerator-only unit #2	1. Before 1993 2. 1993-2001 3. 2002-2007 4. 2008- present 5. Not sure
5.	[DISPLAY ROW IF Q37_3>=1]	Freezer-only unit [DISPLAY IF Q37_3>1, "#1"]	1. Before 1993 2. 1993-2001 3. 2002-2007 4. 2008- present 5. Not sure
6.	[DISPLAY ROW IF Q37_3>=2]	Freezer-only unit #2	 Before 1993 1993-2001 2002-2007 2008- present Not sure

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[IF Q36_2=1, ASK Q396; OTHERWISE SKIP TO FILTER BEFORE Q41]

You mentioned you have a stovetop/range and/or oven.

- Q39. What type of fuel does your stovetop/range use?
 - 1. Natural gas
 - 2. Electricity
 - 3. Propane (bottled gas)

990. Other [SPECIFY]

- 5. Do not have a stovetop/range only have an oven
- Q40. What type of fuel does your oven use?
 - 1. Natural gas
 - 2. Electricity
 - 3. Propane (bottled gas)

990. Other [SPECIFY]

5. Do not have an oven – only have a stovetop/range

[IF Q36_5=1, ASK Q41; OTHERWISE SKIP TO FILTER BEFORE Q42]

Q41. What type of fuel does your clothes dryer use?

- 1. Natural gas
- 2. Electricity
- 3. Propane (bottled gas)
- 990. Other [SPECIFY]
- 5. Not sure

[IF Q36_1=1 OR Q36_3=1 OR Q36_4=1, ASK Q42; OTHERWISE SKIP TO INTRO TEXT BEFORE Q43]

Q42. Which, if any, of the following appliances in your home are **ENERGY STAR** appliances? *Select all that apply.*



[DISPLAY IF Q37_1>2 OR Q37_2>2 OR Q37_3>2, "When your home has more than two units in a category, please answer for the largest two units in that category."]

			NOT SURE
1.	[DISPLAY ROW IF Q37_1>=1]	Combination refrigerator / freezer unit [DISPLAY IF Q37_1>1, "#1"]	
2.	[DISPLAY ROW IF Q37_3>=2]	Combination refrigerator / freezer unit #2	
3.	[DISPLAY ROW IF Q37_2>=1]	Refrigerator-only unit [DISPLAY IF Q37_2>1, "#1"]	
4.	[DISPLAY ROW IF Q37_2>=2]	Refrigerator-only unit #2	
5.	[DISPLAY ROW IF Q37_3>=1]	Freezer-only unit [DISPLAY IF Q37_3>1, "#1"]	
6.	[DISPLAY ROW IF Q37_3>=2]	Freezer-only unit #2	
7.	[DISPLAY ROW IF Q33_3>=1]	Dishwasher	
8.	[DISPLAY ROW IF Q33_4>=1]	Clothes washer	
10.		None of the above [EXCLUSIVE]	

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IV - ELECTRONICS

The next few questions ask about some other electronics that might be used in your home.

Q43. How many of the following types of TV sets are used in your home? **[PROGRAMMER: DO NOT ACCEPT DECIMALS]**

	TV Set Type	Number of sets
1.	Standard Tube TVs	[RECORD NUM 0-5]
2.	LCD TVs	[RECORD NUM 0-5]
3.	LED TVs	[RECORD NUM 0-5]
4.	Plasma TVs	[RECORD NUM 0-5]
5.	Rear projection TVs	[RECORD NUM 0-5]
тот.	Total # of TV sets in your home:	[CALCULATE TOTAL]

[IF Q43TOT>0, ASK Q44; OTHERWISE SKIP TO FILTER BEFORE Q45]

Q44. What is the size of **[IF Q40TOT=1, DISPLAY** "this TV set?"] **[IF Q40TOT>1, DISPLAY** "each of these TV sets?"] *Your best estimate is fine. Also note if you purchased the television since January 1, 2011.*

[IF ANY Q43_1 thru Q43_4 >3, DISPLAY, "When you have more than 3 of any one TV type (standard tube, LCD, plasma, rear projection), answer for the largest 3 of that type."]

		TV Set Type	TV Size	Purchased since January 1, 2011?
1.	[DISPLAY ROW IF Q43_1>0]	Standard Tube TV [DISPLAY IF Q43_1>1, "#1"]	1. 35" or less 2. More than 35"	1. Yes 2. No 3. Not sure
2.	[DISPLAY ROW IF Q43_1>1]	Standard Tube TV #2	1. 35" or less 2. More than 35"	 Yes No Not sure
3.	[DISPLAY ROW IF Q43_1>2]	Standard Tube TV #3	1. 35" or less 2. More than 35"	1. Yes 2. No 3. Not sure
4.	[DISPLAY ROW IF Q43_2>0]	LCD TV [DISPLAY IF Q43_2>1, "#1"]	 Less than 40" 40" to 50" More than 50" 	1. Yes 2. No 3. Not sure
5.	[DISPLAY ROW IF Q43_2>1]	LCD TV #2	 Less than 40" 40" to 50" More than 50" 	1. Yes 2. No 3. Not sure
6.	[DISPLAY ROW IF Q43_2>2]	LCD TV #3	 Less than 40" 40" to 50" More than 50" 	1. Yes 2. No 3. Not sure
7.	[DISPLAY ROW IF Q43_3>0]	LED TV [DISPLAY IF Q43_3>1, "#1"]	 Less than 40" 40" to 50" More than 50" 	1. Yes 2. No 3. Not sure

		-		
8.	[DISPLAY ROW IF Q43_3>1]	LED TV #2	 Less than 40" 40" to 50" More than 50" 	1. Yes 2. No 3. Not sure
9.	[DISPLAY ROW IF Q43_3>2]	LED TV #3	1. Less than 40" 2. 40" to 50" 3. More than 50"	1. Yes 2. No 3. Not sure
10.	[DISPLAY ROW IF Q43_4>0]	Plasma TV [DISPLAY IF Q43_4>1, "#1"]	 Less than 42" 42" to 50" More than 50" 	1. Yes 2. No 3. Not sure
11.	[DISPLAY ROW IF Q43_4>1]	Plasma TV #2	 Less than 42" 42" to 50" More than 50" 	 Yes No Not sure
12.	[DISPLAY ROW IF Q43_4>2]	Plasma TV #3	 Less than 42" 42" to 50" More than 50" 	1. Yes 2. No 3. Not sure
13.	[DISPLAY ROW IF Q43_5>0]	Rear projection TV [DISPLAY IF Q43_5>1, "#1"]	1. 56" or less 2. More than 56"	1. Yes 2. No 3. Not sure
14.	[DISPLAY ROW IF Q43_5>1]	Rear projection TV #2	1. 56" or less 2. More than 56"	1. Yes 2. No 3. Not sure
15.	[DISPLAY ROW IF Q43_5>2]	Rear projection TV #3	1. 56" or less 2. More than 56"	1. Yes 2. No 3. Not sure

[IF Q43TOT>0, ASK Q45; OTHERWISE AUTOPUNCH Q45TOT=0 AND SKIP TO Q47]

Q45. On average, how many hours per day [IF Q43TOT=1, DISPLAY "is this TV set turned on?"] [IF Q43TOT>1, DISPLAY "are each of these TV sets turned on?"]

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

		TV Set Type	TV Size	Number of hrs per day turned on
4	[DISPLAY ROW IF	Standard Tube TV [DISPLAY IF	[INSERT RESPONSE	[RECORD NUM 0-24]
1.	Q43_1>0]	Q43_1>1, "#1"]	SELECTED AT Q44_1]	
	[DISPLAY ROW IF	Standard Tube TV #2	[INSERT RESPONSE	[RECORD NUM 0-24]
2.	Q43_1>1]	Standard rabe 17 //2	SELECTED AT Q44_2]	[RECORD NOW 0 24]
	[DISPLAY ROW IF	Standard TV #2	[INSERT RESPONSE	[DECORD NUM 0 24]
3.	Q43_1>2]	Standard TV #3	SELECTED AT Q44_3]	[RECORD NUM 0-24]
	[DISPLAY ROW IF	LCD TV [DISPLAY IF Q43_2>1,	[INSERT RESPONSE	[DECODE AULAA 0 24]
4.	Q43_2>0]	" #1"]	SELECTED AT Q44_4]	[RECORD NUM 0-24]
	[DISPLAY ROW IF	LCD TV #2	[INSERT RESPONSE	[DECODE AULAA 0 24]
5.	Q43_2>1]	LCD TV #2	SELECTED AT Q44_5]	[RECORD NUM 0-24]
	[DISPLAY ROW IF	LCD TV #3	[INSERT RESPONSE	[DECORD AULINA O 24]
6.	Q43_2>2]	LCD TV #3	SELECTED AT Q44_6]	[RECORD NUM 0-24]
	[DISPLAY ROW IF	LED TV [DISPLAY IF Q43_2>1,	[INSERT RESPONSE	[RECORD NUM 0-24]
7.	Q43_3>0]	" #1 "]	SELECTED AT Q44_7]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	LED TV #2	[INSERT RESPONSE	[DECORD NUMA 0 24]
8.	Q43_3>1]	LED IV #2	SELECTED AT Q44_8]	[RECORD NUM 0-24]
9.	[DISPLAY ROW IF	LED TV #3	[INSERT RESPONSE	[RECORD NUM 0-24]

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	Q43_3>2]		SELECTED AT Q44_9]	
	[DISPLAY ROW IF	Plasma TV [DISPLAY IF	[INSERT RESPONSE	[RECORD NUM 0-24]
10.	Q43_4>0]	Q43_3>1, "#1"]	SELECTED AT Q44_10]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	Plasma TV #2	[INSERT RESPONSE	[RECORD NUM 0-24]
11.	Q43_4>1]	Plasifia IV #2	SELECTED AT Q44_11]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	Plasma TV #3	[INSERT RESPONSE	[RECORD NUM 0-24]
12.	Q43_4>2]	Plasifia IV #5	SELECTED AT Q44_12]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	Rear projection TV [DISPLAY IF	[INSERT RESPONSE	[RECORD NUM 0-24]
13.	Q43_5>0]	Q43_4>1, "#1"]	SELECTED AT Q44_13]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	Rear projection TV #2	[INSERT RESPONSE	[RECORD NUM 0-24]
14.	Q43_5>1]	Real projection IV #2	SELECTED AT Q44_14]	[RECORD NOW 0-24]
	[DISPLAY ROW IF	Poor projection TV #2	[INSERT RESPONSE	[RECORD NUM 0-24]
15.	Q43_5>2]	Rear projection TV #3	SELECTED AT Q44_15]	[RECORD NOW 0-24]
тот.	[DISPLAY ROW IF	Total # of hours per day a TV		[CALCULATE TOTAL]
101.	Q43TOT>1]	is turned on in your home:		[CALCULATE TOTAL]

Q46. **[IF Q43TOT=1, DISPLAY** "Is this TV set an <u>ENERGY STAR</u> TV set?"] **[IF Q43TOT>1, DISPLAY** "Are any of these TV sets <u>ENERGY STAR</u> TV sets?"]



				ENE	ENERGY STA	
		TV Set Type	TV Size	Yes	No	Not sure
1.	[DISPLAY ROW IF Q43_1>0]	Standard Tube TV [DISPLAY IF Q43_1>1, "#1"]	[INSERT RESPONSE SELECTED AT Q44_1]	0	0	0
2.	[DISPLAY ROW IF Q43_1>1]	Standard Tube TV #2	[INSERT RESPONSE SELECTED AT Q44_2]	0	0	0
3.	[DISPLAY ROW IF Q43_1>2]	Standard TV #3	[INSERT RESPONSE SELECTED AT Q44_3]	0	0	0
4.	[DISPLAY ROW IF Q43_2>0]	LCD TV [DISPLAY IF Q43_2>1, "#1"]	[INSERT RESPONSE SELECTED AT Q44_4]	0	0	0
5.	[DISPLAY ROW IF Q43_2>1]	LCD TV #2	[INSERT RESPONSE SELECTED AT Q44_5]	0	0	0
6.	[DISPLAY ROW IF Q43_2>2]	LCD TV #3	[INSERT RESPONSE SELECTED AT Q44_6]	0	0	0
7.	[DISPLAY ROW IF Q43_3>0]	LED TV [DISPLAY IF Q43_3>1, "#1"]	[INSERT RESPONSE SELECTED AT Q44_7]	0	0	0
8.	[DISPLAY ROW IF Q43_3>1]	LED TV #2	[INSERT RESPONSE SELECTED AT Q44_8]	0	0	0
9.	[DISPLAY ROW IF Q43_3>2]	LED TV #3	[INSERT RESPONSE SELECTED AT Q44_9]	0	0	0
10.	[DISPLAY ROW IF Q43_4>0]	Plasma TV [DISPLAY IF Q43_4>1, "#1"]	[INSERT RESPONSE SELECTED AT Q44_10]	0	0	0
11.	[DISPLAY ROW IF Q43_4>1]	Plasma TV #2	[INSERT RESPONSE SELECTED AT Q44_11]	0	0	0
12.	[DISPLAY ROW IF Q43_4>2]	Plasma TV #3	[INSERT RESPONSE SELECTED AT Q44_12]		0	0
13.	[DISPLAY ROW IF Q43_5>0]	Rear projection TV [DISPLAY IF Q43_5>1, "#1"]	[INSERT RESPONSE SELECTED AT Q44_13]	0	0	0

14.	[DISPLAY ROW IF Q43_5>1]	Rear projection TV #2	[INSERT RESPONSE SELECTED AT Q44_14]	0	0	0
15.	[DISPLAY ROW IF Q43_5>2]	Rear projection TV #3	[INSERT RESPONSE SELECTED AT Q44_15]	0	0	0

Q47. How many desktop and laptop computers are regularly used in your home?

	Computer Type	Number of Computers
1.	Desktops	[RECORD NUM 0-5]
2.	Laptops	[RECORD NUM 0-5]
3.	Tablets	[RECORD NUM 0-5]
тот.	Total # of computers regularly used in your home:	[CALCULATE TOTAL]

[IF Q47_1>0, ASK Q48; OTHERWISE SKIP TO FILTER BEFORE Q49]

Q48. **[IF Q47_1=1, DISPLAY** "What kind of monitor does your desktop computer have?"] **[IF Q47_1>1, DISPLAY** "What kind of monitors do your desktop computers have?"]

[IF Q47_1>3, DISPLAY, "When you have more than 3 desktop computers, please answer for the 3 desktop computers that are used most often."]

			l	Monitor Type			
			Flat panel (e.g., LCD or LED)	Non-flat panel / standard tube	Not sure		
		[DISPLAY COLUMN IF Q47TOT>1]					
1.	[DISPLAY ROW IF Q47_1>0]	Desktop [DISPLAY IF Q47_1>1, "#1"]	0	0	0		
2.	[DISPLAY ROW IF Q47_1>1]	Desktop #2	0	0	0		
3.	[DISPLAY ROW IF Q47_1>2]	Desktop #3	0	0	0		

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[IF Q47TOT>0, ASK Q49; OTHERWISE AUTOPUNCH Q49ATOT=0 AND Q49BTOT=0 AND THEN SKIP TO Q50]

Q49. On average, how many hours per day [IF Q47TOT=1, DISPLAY "is this desktop turned on or is the laptop computer or tablet plugged in?"] [IF Q47TOT>1, DISPLAY "are each of these desktops turned on or are the laptop computers or tablets plugged in?"] Be sure to include time in which this/these computer(s) are asleep or in stand-by mode.

[IF ANY Q47_1 thru Q43_3 >3, DISPLAY, "When you have more than 3 of any one computer type (desktop, laptop), answer for the 3 of that type that are used most often."]

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

				s per day turned and	
		Computer Type [DISPLAY COLUMN IF Q47TOT>1]	A. In use	B. NOT in use (in standby / sleep mode)	Total
1.	[DISPLAY ROW IF Q47_1>0]	Desktop [DISPLAY IF Q47_1>1, "#1"]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
2.	[DISPLAY ROW IF Q47_1>1]	Desktop #2	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
3.	[DISPLAY ROW IF Q47_1>2]	Desktop #3	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
4.	[DISPLAY ROW IF Q47_2>0]	Laptop [DISPLAY IF Q47_2>1, "#1"]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
5.	[DISPLAY ROW IF Q47_2>1]	Laptop #2	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
6.	[DISPLAY ROW IF Q47_2>2]	Laptop #3	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
7.	[DISPLAY ROW IF Q47_3>0]	Tablet [DISPLAY IF Q47_3>1, "#1"]	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
8.	[DISPLAY ROW IF Q47_3>1]	Tablet #2	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
9.	[DISPLAY ROW IF Q47_3>2]	Tablet #3	[RECORD NUM 0-24]	[RECORD NUM 0-24]	[CALCULATE TOTAL 0-24]
тот.	[DISPLAY ROW IF Q47TOT>1]	Total # of hours per day a computer is turned on in your home:	[CALCULATE TOTAL]	[CALCULATE TOTAL]	Grand Total: [CALCULATE TOTAL]

Q50. **[IF Q47TOT=1, DISPLAY** "Is this desktop or laptop computer an <u>ENERGY STAR</u> computer?"] **[IF Q47TOT>1, DISPLAY** "Are any of these desktop or laptop computers <u>ENERGY STAR</u> computers?"]



			EN	ERGY STA	ıR?
		Computer Type [DISPLAY COLUMN IF Q47TOT>1]	Yes	No	Not sure
1.	[DISPLAY ROW IF Q47_1>0]	Desktop [DISPLAY IF Q47_1>1, "#1"]	0	0	0
2.	[DISPLAY ROW IF Q47_1>1]	Desktop #2	0	0	0
3.	[DISPLAY ROW IF Q47_1>2]	Desktop #3	0	0	0
4.	[DISPLAY ROW IF Q47_2>0]	Laptop [DISPLAY IF Q47_2>1, "#1"]	0	0	0
5.	[DISPLAY ROW IF Q47_2>1]	Laptop #2	0	0	0
6.	[DISPLAY ROW IF Q47_2>2]	Laptop #3	0	0	0

Q51. How many of the following items are used in your home?

[PROGRAMMER: DEFAULT IS ZERO]

	[ROTATE LIST]	Number
	Cable set-top box / satellite set-top box / analog-to-digital TV converter set-top	[RECORD NUM 0-9]
1.	box	[KECOND NOW 0-9]
2.	Digital video recorder (TIVO, DVR)	[RECORD NUM 0-9]
	Stand-alone speakers and subwoofers that are part of a home theater system	[RECORD NUM 0-
3.	(not embedded in other devices like TVs or CD players)	49]
4.	Gaming consoles (Xbox360, Wii, etc.)	[RECORD NUM 0-9]
5.	Medical equipment that is plugged into an electrical outlet	[RECORD NUM 0-9]
6.	Heated waterbeds	[RECORD NUM 0-9]
7.	Heated aquariums	[RECORD NUM 0-9]
8.	Air Purifier/Cleaner	[RECORD NUM 0-9]
9.	Dehumidifier	[RECORD NUM 0-9]

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[IF Q51_8>0 or If Q51_9>0, ASK Q52, OTHERWISE SKIP TO Q53.]

Q52. **[IF Q51_8>0, DISPLAY** "Is this air purifier/air cleaner an <u>ENERGY STAR</u> appliance?"] **[IF Q51_9>0, DISPLAY** "Is this dehumidifier an <u>ENERGY STAR</u> appliance?"]

			ENERGY STAR?		
		Appliance	Yes	No	Not sure
1.	[DISPLAY ROW IF Q51_8>0]	Air Purifier/ Air Cleaner	0	0	0
2.	[DISPLAY ROW IF Q51_9>0]	Dehumidifier	0	0	0

Q53. Does your home have any of the following? *Select all that apply.*

[IF Q2=2-4 OR Q3=2, DISPLAY, Please consider only those that are exclusively reserved for use by you, by others who live in your specific apartment, or by any guests to whom you choose to allow access. DO NOT consider common-access pools/spas/tubs which that can be used by any other residents within your building/community."]

- 1. A swimming pool that includes a heater, filtration system, and/or pump
- 2. A spa / hot tub that includes a heater, filtration system, and/or jet pump
- 3. None of the above [EXCLUSIVE]

[IF Q53_1 OR Q53_2 SELECTED, ASK Q54; OTHERWISE SKIP TO INTRO TEXT BEFORE Q55]

Q54. You mentioned your home has [IF Q53=1, DISPLAY, "a pool"] [IF Q53=1 AND 2, DISPLAY, "and"] [IF Q53=2, DISPLAY, "a spa/hot tub"] that includes a heater, filtration system, and/or pump/jet pump. What type of fuel does [IF Q53=1 OR 2 (BUT NOT BOTH 1 AND 2), DISPLAY, "does this heater"] [IF Q53=1 AND 2, DISPLAY, "do each of the heaters"] use?

		Natural gas	Electricity	Propane (bottled gas)	Other	Not sure	My home does not have this
	[DISPLAY IF Q53_1=1] Swimming pool heater	0	0	0	0	0	0
2.	[DISPLAY IF Q53_2=1] Spa/hot tub heater	0	0	0	0	0	0

V – ENERGY-RELATED ACTIONS

The next few questions ask you about some actions you might have taken which may affect the amount of energy your home uses.

Q55. Which, if any, of the following home improvement / remodeling efforts have you or a previous [IF S4=2, DISPLAY, "or current"] owner made in the last 5 years? Select all that apply.

[IF Q2=2-4 OR Q3=2, DISPLAY, "Please answer only for your particular apartment / unit."]

1.	Enhanced insulation of ducts	
2.	Enhanced insulation of ceiling	
3.	Enhanced insulation of walls	
4.	Enhanced insulation of attic	
5.	Enhanced insulation of the foundation	
6.	Enhanced water pipe insulation	
7.	Installed low-flow showerheads	
8.	Installed low-flow faucet aerators	
9.	Installed a furnace with a brushless permanent magnet (BPM) furnace blower motor	
10.	Installed a high efficiency bathroom exhaust fan	
11.	Weather stripped/caulked windows and/or doors	
12.	Installed storm doors	
13.	None of the above [EXCLUSIVE]	

NEWQ56A. Which, if any, of the following actions are you currently taking in your home?

NEWQ56B. [ASK ONLY FOR ITEMS NOT SELECTED IN Q56A] You indicated that you are not currently doing the following. Please tell us if it would physically be possible for you to do the item. For example, if you do not have a clothes dryer, you could NOT use a dryer that has a sensor that turns the dryer off when the clothes are dry.

	[ROTATE 1-7]	[A] Currently doing this	[B] Could do this
1.	Use a "Smart strip" power strip to turn off electronic equipment when it's not in use		
2.	Unplug battery rechargers (e.g., for laptops, cell phones, MP3 players) when they are not being used		
3.	Perform annual maintenance on your HVAC (heating, ventilation, or air conditioning) equipment		
4.	Use a water heater insulation blanket/jacket		
5.	Lower the water heater temperature to 125 degrees F		
6.	Use a clothes dryer that has a sensor that turns the dryer off when the clothes are dry		
7.	Regularly turn out the lights when leaving a room		
8.	None of the above [EXCLUSIVE – DO NOT CARRY TO B SCREEN]		

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VI – UTILITY PROGRAMS

Q57. Some utilities offer rebate, low interest loan or price discount programs to encourage people to purchase highly energy efficient products such as appliances, furnaces, heat pumps, water heaters, compact fluorescent light bulbs (CFLs), and home insulation.

To the best of your knowledge, does Ameren Illinois offer any such programs that offer customers like you a discount off the purchase price on qualified items?

- 1. Yes
- 2. No
- 3. Not sure

[IF Q57=1 ASK Q58, OTHERWISE SKIP TO Q59]

Q58. Are you aware of any of the following programs offered by Ameren Illinois? Has your household participated in any of the following programs in the past 3 years?

	Energy Efficiency Program	A. Aware of	B. Participated in the
	[RANDOMIZE]	program	last 3 years
1.	Appliance Recycling – Room Air Conditioner		
2.	Appliance Recycling – Refrigerator		
3.	Appliance Recycling – Freezer		
4.	Home Energy Performance (HEP)		
5.	HVAC New Cooling Equipment		
6.	Lighting discounts online or through a retailer		
7.	ENERGY STAR New Homes Construction		
8.	Appliance Rebate – Air Purifier		
9.	Appliance Rebate – Dehumidifier		
10.	Appliance Rebate – Room Air Conditioner		
11.	Appliance Rebate – Heat Pump Water Heater		
12.	Appliance Rebate – Smart Strip		
13.	Appliance Rebate – Thermostat		
14.	Appliance Rebate – Setback Thermostat		
15.	Appliance Rebate – High Efficiency Gas Water Heater		
990.	Other program(s) [SPECIFY]		
998.	NONE [EXCLUSIVE]		

[IF 58B SELECTED, AUTOFILL 58A AS SELECTED]

[NOTE: CANNOT RANDOMIZE THIS ONE WITHOUT SPLITTING OUT INTO TWO SCREENS]

VII – ADDITIONAL HOUSEHOLD DEMOGRAPHICS

In order to help us classify your responses, the last few questions are on your household's characteristics.

- Q59. Does anyone in your household regularly telecommute or work from home during the day on weekdays?
 - 1. Yes
 - 0. No

[IF Q59=1, ASK Q60; OTHERWISE SKIP TO Q61]

Q60. On average, how many weekdays does anyone in your household work from home each week?

- 1. 1 weekday
- 2. 2 weekdays
- 3. 3 weekdays
- 4. 4 weekdays
- 5. 5 weekdays
- Q61. **[IF Q59=1, DISPLAY,** "Other than those that work from home or telecommute, are"] **[IF Q59=0, DISPLAY,** "Are'] there any individuals in your home that regularly stay at home all or most **weekdays**?
 - 1. Yes
 - 0. No

[IF Q1>1, ASK Q62; OTHERWISE AUTOCODE Q62_5=1 AND SKIP TO Q63]

- Q62. Of the **[INSERT (Q1 RESPONSE MINUS 1)]** individuals that currently live in your household besides yourself, how many are children younger than 18 years old? *Select all that apply.*
 - 1. Birth to 2 years old [RECORD NUMBER 0-10]
 - 2. 3 to 6 years old [RECORD NUMBER 0-10]
 - 3. 7 to 12 years old [RECORD NUMBER 0-10]
 - 4. 13 to 17 years old [RECORD NUMBER 0-10]
 - 5. There are no children younger than 18 years old in my household. **[EXCLUSIVE]**

[TOTAL OF Q62_1 through Q62_4 MUST BE LESS THAN (Q1 RESPONSE MINUS 1)]

- Q63. Which of the following best characterizes the city / town / community in which you live?
 - 1. Urban
 - 2. Suburban
 - 3. Rural
- Q64. What is your gender?
 - 1. Male
 - 2. Female
- Q65. What is the highest level of education you have completed?

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- 1. Less than a high school degree
- 2. High school degree
- 3. Technical/trade school program
- 4. Associates degree or some college
- 5. Bachelors degree
- 6. Graduate / professional degree, e.g., J.D., MBA, MD, etc.
- 7. Professional certification, e.g., CPA, CNP, etc.
- Q66. What is your current work status?
 - 1. Employed full-time
 - 2. Employed part-time
 - 3. Not currently employed
 - 4. Retired
 - 990. Other [SPECIFY]
- Q67. Which of the following categories includes your <u>household's</u> total annual income before taxes in 2011? Please include the income of **all** people living in your home in this figure.
 - 1. Less than \$60,000
 - 2. \$60,000 or more
- Q68. Which of the following categories includes your <u>household's</u> total annual income before taxes in 2011? Please include the income of **all** people living in your home in this figure.

[IF Q67=1, DISPLAY OPTIONS 1-7 AND 13; IF Q67=2, DISPLAY OPTIONS 8-13]

- 1. Less than \$10,000
- 2. \$10,000 \$14,999
- 3. \$15,000 \$19,999
- 4. \$20,000 \$29,999
- 5. \$30,000 \$39,999
- 6. \$40,000 -\$49,999
- 7. \$50,000 \$59,999
- 8. \$60,000 \$74,999
- 9. \$75,000 \$99,999
- 10. \$100,000 \$124,999
- 11. \$125,000 \$149,999
- 12. \$150,000 or more
- 13. Prefer not to say

- Q69. How many vehicles are used in your household? By 'vehicles' we mean cars, trucks and SUV's.
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four or more
 - 0. None

[If Q69=1-4, ASK Q70, OTHERWISE SKIP to Q72]

Q70. What type of vehicle do you drive?

		Conventional gasoline	Natural gas		HEV - A hybrid using gas & an electric battery as fuel (Prius, etc.)	PHEV - Hybrid using gas and a plug-in rechargeable battery (Chevy Volt, etc.)	BEV - All electric (Tesla, Leaf, etc.)	Other
1.	[DISPLAY IF Q69=1-4] Car #1	0	0	0	0	0	0	0
	[DISPLAY IF Q69=2-4] Car #2	0	0	0	0	0	0	0
3.	[DISPLAY IF Q69=3-4] Car #3	0	0	0	0	0	0	0
4.	[DISPLAY IF Q69=4-4] Car #4	0	0	0	0	0	0	0

- Q71. What type of car are you considering for your next purchase? *Select the one you are most likely going to purchase*.
 - 1. Conventional gasoline
 - 2. Diesel
 - 3. Natural gas
 - 4. Gas/electric hybrid, such as a Prius
 - 5. Plug-in electric, such as a Volt
 - 6. All electric vehicle, such as the Leaf or Tesla
 - 7. Other (please specify)
 - 8. Not sure / Not considering a purchase at this time

Q72. Which of the following best describes your race or ethnic background?

- 1. White, Caucasian
- 2. Black, African American, Caribbean American
- 3. American Indian (Native American), Alaska Native
- 4. Asian
- 6. Hispanic, Latino
- 5. Native Hawaiian, Pacific Islander

990. Other [SPECIFY]

7. Prefer not to say

VIII - CONCLUSION

[INCENTIVE NAME/ADDRESS COLLECTION SCREEN]

Those are all the questions we have for you today. Thanks for your participation!

Please click 'Continue' to proceed to the payment screen.

- CO. Please indicate which of the following you would prefer:
 - 4. Please email me a \$10 Amazon Gift Card
 - 5. I would prefer to have a \$10 check mailed to me
 - 6. I would like to decline and not receive an incentive

[IF C0=1, ASK C1; IF C0=2, ASK C2; IF C0=3, ASK C0A]

- COA. You have indicated that you do NOT want to receive your \$10 payment. Is that correct?
 - 3. Yes
 - 4. No

[IF YES, GO TO THANK YOU SCREEN; IF NO, RE-ASK CO]

- C1. So that we may mail your incentive to you, please provide your name and address below.
 - A. Full name
 - C. Mailing Address Line #1
 - D. Mailing Address Line #2 (optional)
 - E. City
 - F. State
 - G. ZIP Code
- C1. So that we may email your incentive to you, please provide your email address below.

[RECORD EMAIL ADDRESS -VALIDATE FOR FORMAT]

[INCENTIVE NAME/ADDRESS VERIFICATION SCREEN]

Please review the information you provided and verify that it is complete and correct:

[DISPLAY ALL NAME AND ADDRESS OR EMAIL INFORMATION COLLECTED]

If you would like to edit any of this information, please click the "Back" button to go to the previous screen, where you can make any needed changes.

Otherwise, please click "Continue" to submit your information.

[PROGRAMMER: INCLUDE BACK BUTTON FOR THIS SCREEN DURING LIVE VERSION]

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[IF CHOOSE TO RECEIVE AN INCENTIVE, DISPLAY:]

You have successfully submitted the information we need so we can send you your \$10 thank you gift. Your check or gift card will be issued within 4-6 weeks to the address or email address you provided. Thank you and have a nice day!

If you would like information on how your household can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

[IF CHOOSE NOT TO RECEIVE AN INCENTIVE, DISPLAY:]

Thank you for taking the time to answer our survey questions. Have a nice day!

If you would like information on how your household can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

SURVEY CLOSED MESSAGE

We truly appreciate your time and effort in responding to the survey invitation you received, but the survey sponsored by Ameren Illinois is now closed.

In order to achieve a representative sample for this survey, quotas with specific criteria needed to be designated. Because these quotas have now been filled, we are not accepting any more responses.

If you would like information on how your home can save money on your energy bills, please visit us at http://www.actonenergy.com/.

Thank you. Have a nice day!

DEFINITIONS

[THE DEFINITIONS IN THE TABLE BELOW WILL EACH BE SHOWN IN A POP-UP BOX THAT IS TRIGGERED BY A HYPERLINKED WORD OR PHRASE]

Definitions			
A single system that draws in outside air to use in both heating and cooling your home			
A ventilation fan which regulates the heat level of a home's attic by exhausting hot air. Unlike a whole-house fan, which removes heat from the entire home, an attic fan only removes heat from the attic area of the home.			
A furnace that sends either hot water or steam to individual room radiators or baseboards to heat your home			
Units that contain I	both a refrig	gerator and a freezer.	
This kind of unit co	mes in mult	iple configurations, such as:	
Unit Typ	e	Description	
Side-by-side freezer refrigerator		The freezer and refrigerator sections are adjacent to one another, allowing portions of both sections to appear at eye-level.	
Top-mount freezer refrigerator		The freezer section of the unit appears at eye level, mounted above the refrigerator section.	
Traditional bottom-mount freezer refrigerator		The freezer section of the unit is mounted below the refrigerator section of the unit, allowing the refrigerator section to be at eye-level. Sometimes the freezer consists of one or more pull-out freezer drawers.	
French door bottom-mount freezer refrigerator		The refrigerator section of the unit has dual / twin doors. The freezer section of the unit is mounted below the refrigerator section of the unit, allowing the refrigerator section to be more at eye-level. The freezer consists of one or more pull-out freezer drawers.	
	A single system that your home A ventilation fan we exhausting hot air. entire home, an att A furnace that send or baseboards to he Units that contain the transfer of tr	A single system that draws in conjugate your home A ventilation fan which regulate exhausting hot air. Unlike a whentire home, an attic fan only in the first of	

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Compact fluorescent lamp (CFL)	fluorescent light i	_	s into a light socket, but which is a onal incandescent light bulb, and which e for a light bulb	
Conventional bulb / Incandescent lamp	A traditional scre	w-in light bulb that ı	may range from 15 – 100 watts or more	
Standard fluorescent tubes (T12)	Traditional fluore	scent tube lights wit	th standard efficiency (T12) tubes	
Higher than standard efficiency fluorescent tubes (T10)		-	nore light output than a T12. The T10 the T12 lights have a larger diameter of	
High-efficiency fluorescent tubes (T8)		nt tubes (T8s) that fit efficient (lower wat	t into traditional fixtures, but which ttage) tube	
Super high-efficiency fluorescent tubes (T5)		-	ent tubes. T5 lamps further increase by reducing the lamp diameter to 5/8".	
Conventional water heater with storage tank			a tank of hot water, and keeps that anks range from 30-80 gallons in size.	
Dimming switches	Light switches that on and off	at can work to dim li	ghts, rather than simply turning them	
Double pane windows or better	1		ore layers of glass with an insulating ween the glass layers	
Dusk-to-dawn sensors		s that use a light sen dusk and turn them (sor (photocell) to automatically turn on off at dawn	
Electric baseboard or electric coil radiant heating		electricity directly to der-floor heating.	produce heat for your home from	
ENERGY STAR	A label for some new appliances that indicate that the appliance meets the standards for high efficiency appliances			
		Units that function only as freezers (i.e., do NOT function as refrigerators). This kind of unit comes in multiple configurations, such as:		
	Uni	t Type	Description	
Franco on housite	Chest freezer		A freezer unit that opens from the top and often contains storage baskets.	
Freezer-only units	Upright freezer		A freezer unit that <u>opens from the</u> <u>front</u> and contains shelf storage.	
Geothermal heat pump	A single system that uses water or fluid that circulates through underground			
Halogen lamp	piping to provide both heating and cooling for your home A type of lamp which uses filaments like a traditional incandescent bulb, but is also filled with inert gas and a small amount of halogen. Compared to traditional incandescent bulbs, halogen lamps get hotter, give off light of a brighter / whiter quality, and have a longer life span.			
Heat pump water heater	A system that use	es a retrigeration cyc	cle in reverse to draw heat out of the	

	surrounding air to	o provide hot water in	a traditional water heater storage	
H.I.D. lamp (mercury vapor, metal halide, sodium vapor)	High power outside lights with special bulbs that are typically only used for outside lighting			
LED lamp			tronic form of lighting that does not ent bulbs, but instead, uses solid	
Low voltage lighting			unters or in other similar situations) o most <u>traditional incandescent lights</u>	
Motion detectors	someone is movi	ng in a room, the ligh	trol lights in a room so that when ts are on, but when there is no s, the lights are turned off	
Occupancy sensors	someone is prese		trol lights in a room so that when ut where there is no one in the room ed off	
Units that have only a refrigerator function (i.e. function). They are much less common than free This kind of unit, which is sometimes called a free in multiple configurations, such as:			than <u>freezer-only units</u> .	
	Ur	nit Type	Description	
Refrigerator-only units	Chest refrigerator	E E	An all-refrigerator unit that opens from the top and often contains storage baskets.	
	Upright refrigerator		An all-refrigerator unit that opens from the front and contains shelf storage.	
			opens from the front and	
Single pane windows	refrigerator Traditional windo	f air, or anything else i ows may have reflecti	opens from the front and	
Single pane windows Smart strip	Traditional windous insulating layer of the single layer of the si	f air, or anything else ows may have reflection f glass. Strips (or Smart Stripe automatically disconthe power draw of a "e, if a desktop comput o disconnect an association association for a graph of the power draw of of	opens from the front and contains shelf storage. Ingle pane of glass, without any inserted inside the glass. Note that we film or other additions applied to s) which are multi-plug power strips nect specific connected loads control" load, also plugged into the ter is the control load, when it shuts tiated monitor, printer, and scanner,	
	Traditional windo insulating layer or single pane windo the single layer or with the ability to depending upon strip. For example down it might als thereby reducing television control are also provided	f air, or anything else ows may have reflections may have reflection f glass. Testrips (or Smart Stripe of automatically disconthe power draw of a "e, if a desktop comput of disconnect an associating a DVD, DVR, and alling a DVD, DVR, and all all all all all all all all all al	opens from the front and contains shelf storage. ingle pane of glass, without any inserted inside the glass. Note that we film or other additions applied to as) which are multi-plug power strips nect specific connected loads control" load, also plugged into the ter is the control load, when it shuts stated monitor, printer, and scanner, and scanner, and system. Uncontrolled outlets not affected by the control device and	
	Traditional windon insulating layer of single pane windon the single layer of the single layer of the single pane with the ability to depending upon strip. For example down it might also thereby reducing television control are also provided so are always producing the water heater the strip in the single panel in the single	f air, or anything else ows may have reflections may have reflection f glass. The Strips (or Smart Strips of automatically disconthe power draw of a "e, if a desktop comput of disconnect an associated by power loads. Illing a DVD, DVR, and all on the strip that are positions power to any donatt only heats water for	opens from the front and contains shelf storage. ingle pane of glass, without any inserted inside the glass. Note that we film or other additions applied to as) which are multi-plug power strips nect specific connected loads control" load, also plugged into the ter is the control load, when it shuts stated monitor, printer, and scanner, and scanner, and system. Uncontrolled outlets not affected by the control device and	

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	times of the day
Tubular fluorescent lamp	Traditional fluorescent lights are generally tubes of 3 or more feet in length and are installed in special fixtures made specifically for these tubes
Wall furnace	A furnace that works "through the wall," meaning that it is a box that draws air directly from the outside and then warms it before sending the resulting warm air into a room.
Whole-house fan	A ventilation fan mounted in the ceiling of a central part of a home that removes heat from the <i>entire</i> home. It does this by first drawing that heat from the living areas of the home into the home's attic, and then pushing the heat trapped in the attic to the outside through vents. Unlike an attic fan, which only removes heat from a home's attic, a whole-house fan removes heat from the entire home.

BUSINESS PROGRAM INTEREST SURVEY QUESTIONNAIRE



Ameren Illinois DSM Market Potential – Program Interest Questionnaire SMB FINAL 7/26/2012

QUALIFYING CRITERIA AND QUOTAS

Qualifying Criteria

•	The respondent must be knowledgeable about decision-making about energy issues for the business at the
	specified location
•	Utility bills must be paid for that location

Hard	Quotas					
	Total: r	n=700				

Additional sample groups to monitor during fielding

• MAIN QUOTA VARIABLE IS 'Usage-Segment-Stratum'

RESPONDENT IDENTIFICATION / VERIFICATION

Welcome. This survey is sponsored by Ameren Illinois. [PROGRAMMER: INCLUDE AMEREN ILLINOIS LOGO]

Please enter the "Survey ID#" that appears on the survey invitation postcard you received. This Survey ID# should be located just above the mailing address on the front side of your postcard.

ID#:	
	ID# :

We at Ameren Illinois and Definitive Insights value your privacy. We will use the information you provide <u>for research purposes only</u> and <u>will NOT share it with third parties for marketing purposes</u>. Information you provide will be stored in a secure database. If you have questions about our privacy practices or would like to get any other information about this study, please contact us via one of the following methods:

e-mail: <u>AmerenSurveyHelp@definitiveinsights.com</u>

phone: 1-888-742-4511postal mail: Definitive Insights

ATTN: Ameren Illinois Project Director

601 SW Oak Street Portland, Oregon 97205

[PROGRAMMER: VERIFY VALID CODE AND READ IN ALL VARIABLES FROM SAMPLE FILE]

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INTRODUCTION

Thank you for taking time to see if you and your business qualify to participate in a new research study about energy. The study is sponsored by Ameren Illinois, and it has a very important purpose. Ameren Illinois is delivering programs to help its customers use energy more efficiently. Your answers to this survey will help the company to improve these programs so that they work best for everyone.

Your business is one of a small number being asked to respond to the survey. To show our appreciation for your time and effort, we will send you \$25 upon submitting your answers. (Note: Payment may be declined if required by your company's policies.)

You will first be asked a few questions to make sure your business qualifies for participation. If you do qualify, you will then be invited to complete the full survey.

Note: If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the URL and the Survey ID# from your survey invitation to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue</u>, <u>underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> <u>NOT</u> make you navigate away from the survey site.

Please click "CONTINUE" to begin.

RESPONDENT SCREENING

A1. Our records indicate that we have reached you at the following address:

[ADDRESS]

Is this correct?

- 5. Yes
- 6. No
- A2. Please let us know if this address is for a business or a residence:
 - 1. This is a business address
 - 2. This is a residential address, but a home-operated business is located here
 - 3. This is a residential address it is not associated with a business

[IF A1=2 OR IF A2=3, TERMINATE AND READ A1-A2 TERMINATE TEXT; OTHERWISE, GO TO S1.]

[A1-A2 TERMINATE TEXT:]

We truly appreciate your time and effort in responding to our survey, but our questions are related to the energy-related aspects for a specific business address.

If you would like information on how you or your business can save money on your energy bills, please visit us at www.actonenergy.com.

Thank you. Have a nice day!

- S1. Which of the following describes how knowledgeable you are about the way your organization makes decisions about energy-related issues?
 - 1. You are **very knowledgeable** about **all** of the issues your organization takes into account as it makes decisions about changing out equipment, or about other energy-related issues
 - 2. You are **knowledgeable** about **most** of the factors that your organization takes into account as it makes decisions about changing out equipment, or about other energy-related issues
 - You are <u>not</u> that knowledgeable about how and why your organization makes the decisions it does about energy related issues [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA S21
 - 4. Don't know [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA S2]

[IF S1=1-2, SKIP TO S3; OTHERWISE GO TO S2 TERMINATE TEXT]

S2. Thank you for taking the time to see if you are eligible to participate in this survey. At this time we need responses from someone in your organization who has specific knowledge about the way your organization makes decisions about energy-related issues.

We would appreciate it if you would provide that person with the invitation postcard you received or refer them to the following link so that they may complete this survey with the following ID:

Link: [http://tiny.cc/ameren3]
ID: [xxxxx]

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[PROGRAMMER NOTE: IF A RESPONDENT TERMINATES VIA S2, DELETE DATA COLLECTED AND RESET SURVEY REENTRY POSITION FOR THAT SURVEY ID# BACK TO THE BEGINNING OF THE SURVEY. RECORD THE DATA DELETED FOR THAT SURVEY ID# ELSEWHERE SO WE CAN TRACK THE NUMBER OF TIMES AND REASONS RESPONDENTS DISQUALIFY AT S2 AS WELL AS THE NUMBER OF TIMES THESE PREVIOUSLY USED SURVEY ID#'S ARE REUSED. FOR ALL RESPONDENTS THAT DO NOT TERMINATE VIA S2, DO NOT ALLOW SURVEY ID# TO BE USED AGAIN.]

{NOTE: THIS WILL ALLOW A RESPONDENT WHO DOES NOT PERSONALLY QUALIFY TO FORWARD THEIR SURVEY ID# TO A CO-WORKER WHO MAY BE BETTER QUALIFIED TO ANSWER THE SURVEY.} TK NOTE 7/11 – PLEASE WRITE A NEW VARIABLE TO BE RETAINED (IN THE SAMPLE FILE?) SO THAT I CAN RUN A REPORT TO KNOW HOW MANY RECORDS WERE USED BUT BY THE WRONG PERSON. NEED TO TEST

[NEW PROGRAMMER NOTE 7/16 –FOR ALL TERMINATES BEYOND THIS POINT, USE THE GENERAL TERMINATE TEXT ON PG 11]

- S3. Which of the following best describes how your business is billed for electricity at **[READ IN ADDRESS FROM SAMPLE]**?
 - 1. We are **billed directly by Ameren Illinois** for the electricity we use
 - 2. We are <u>NOT billed directly by Ameren Illinois</u> for the electricity we use; our electric **bill is handled** by another part of our company or by a third party service provider, but ultimately, our company is responsible for the cost for our electricity
 - 3. We are **NOT billed directly by Ameren Illinois** for the electricity we use; the cost for our electricity is **included in our rent/lease**
 - 4. We are served by another utility; not Ameren Illinois
 - 5. Don't know [TERMINATE]
- S4. Which of the following best describes how your business is billed for natural gas at **[READ IN ADDRESS FROM SAMPLE]**?
 - 1. We are **billed directly by Ameren Illinois** for the natural gas we use
 - 2. We are <u>NOT billed directly by Ameren Illinois</u> for the natural gas we use; our natural gas bill is handled by another part of our company or by a third party service provider, but ultimately, our company is responsible for the cost for our natural gas
 - 3. We are **NOT billed directly by Ameren Illinois** for the natural gas we use; the cost for our natural gas is **included in our rent/lease**
 - 4. We are served by another utility; not Ameren Illinois
 - 5. Don't know [TERMINATE]

[IF S3=1-2 OR S4=1-2, CONTINUE TO TRACKING VARIABLE AND S5; OTHERWISE TERMINATE]

[PROGRAMMER: DISPLAY DIRECTLY ABOVE S5 ON SCREEN: PLEASE NOTE THAT ALL OF OUR <u>REMAINING QUESTIONS REFER SPECIFICALLY TO THE FACILITY AT [ADDRESS]</u>

[CREATE TRACKING VARIABLE:

(S3=1-3 AND S4=4 OR 5) = ELECTRIC ONLY (S4=1-3 AND S3=4 OR 5) = GAS ONLY]

[PROGRAMMER: DISPLAY DIRECTLY BELOW S3 ON SCREEN: "PLEASE NOTE THAT ALL OF OUR <u>REMAINING</u> <u>QUESTIONS REFER SPECIFICALLY TO THE FACILITY AT THE LOCATION CITED ABOVE"</u>]

S5. Does your business own or lease the building space at this location?

If you both lease some space, and own some space at this location, which accounts for the majority of the space?

- 1. Own (or in the process of buying it)
- 2. Lease / rent
- S6. Does your operation at this location occupy any enclosed space, or is it an outdoor structure or operation, such as a billboard, a parking lot, a communications tower, or the like?

 Our location... [SELECT ONE]
 - 1. Is ONLY an enclosed space
 - 2. Is ONLY an outdoor structure or facility [TERMINATE AFTER S7 SHOW GENERAL TERMINATE TEXT]
 - 3. Includes both an enclosed space AND an outdoor structure or operation

[IF S6=2, ASK S7 AND THEN TERMINATE; IF S6=3, ASK S7 AND CONTINUE; OTHERWISE SKIP TO S8]

- S7. What type of outdoor structure does your organization operate at this site?
 - 1. Billboard
 - 2. Communications / telecommunications tower or other facility
 - 3. Pump
 - 4. Parking lot
 - 5. Traffic light or other type of outdoor lighting
 - 990. Other [SPECIFY]
- S8. Which of the following best describes the type of facility your organization occupies?
 - 1. Office (finance, insurance, real estate, law, etc.)
 - 2. Retail (department stores, services, boutiques, etc.)
 - 3. Grocery (supermarkets, convenience store, market, etc.)
 - 4. Restaurant (sit-down, fast food, coffee shop, etc.)
 - 5. Warehouse
 - 6. School (day care, pre-school, elementary, secondary)
 - 7. College, university or trade school
 - 8. Health Care (health practitioner office, hospital, urgent care center, etc.)
 - 9. Nursing home / assisted living facility / residential treatment facility
 - 10. Lodging / housing facility (hotel, motel, bed and breakfast, apartment building, etc.)
 - 11. Not-for profit housing facility (shelter, prison, jail, etc.)
 - 12. Entertainment / recreation facility (movie theater, bowling alley, health club/gym, library, museum, etc.)
 - 13. Public assembly facility (convention / conference center, etc.)
 - 14. Worship (church, temple, etc.)
 - 15. Multi-use or shopping mall (i.e., mixed use of space for offices, restaurants, stores, service, apartments, etc.)
 - 16. Manufacturing, production, or processing facility (including for-profit businesses and governmental facilities)

990. Other [SPECIFY]

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S9. Which of the following best describes the activity in which your business is engaged at this location? *Please select the one option that best describes the activity.*

{NOTE TO TEAM: IF THE RESPONDENT SELECTS RESPONSE "15" ABOVE ("MIXED USE"), THEY ARE SHOWN ALL POSSIBLE OPTIONS FOR BUSINESS ACTIVITY EXCEPT HOSPITAL (80,82), WAREHOUSE (30-33), AND MANUFACTURING / PROCESSING (67-79)}

Traditional Office-Based Business [IF S8=1 OR 15 OR 990, DISPLAY CODES 1-7]	
1. Finance	0
2. Insurance	0
4. Real estate / construction	0
5. Government	0
6. Other not-for-profit	0
7. Other office [SPECIFY]	0
Retail [IF S8=2 OR 15 OR 990, DISPLAY CODES 8-19]	Ů
8. Major retail store	0
9. Department store	0
10. Small retail (boutique, store in strip mall)	0
11. Convenience store	0
12. Supermarket	0
13. Market	0
14. Laundry	0
15. Dry cleaning	0
16. Copy center	0
17. Barber / salon	0
18. Gas station / auto shop	0
19. Other retail [SPECIFY]	0
Grocery [IF S8=3 OR 15 OR 990, DISPLAY CODES 20-23]	O
20. Supermarket	0
21. Convenience store	0
22. Market	0
23. Other grocery [SPECIFY]	0
Restaurant / Food Service [IF S8=4 OR 15 OR 990, DISPLAY CODES 24-29]	<u> </u>
24. Sit-down restaurant	0
25. Casual restaurant, diner, etc.	
26. Fast food	0
27. Bakery	0
28. Coffee shop	0
29. Other restaurant/food service [SPECIFY]	0
Warehouse [IF S8=5 OR 990, DISPLAY CODES 30-33] [DO NOT DISPLAY FOR S8=15 FOLLOWUP]	Ü
30. Refrigerated warehouse	0
31. Non-refrigerated warehouse	0
32. Combination of refrigerated and non-refrigerated space	0
33. Other warehouse [SPECIFY]	0
School [IF S8=6 OR 15 OR 990, DISPLAY CODES 34-37]	
34. Preschool / daycare	0
35. Elementary school	0
36. Secondary school	0
37. Other pre-college [SPECIFY]	0
College, University or Trade School [IF S8=7 OR 15 OR 990, DISPLAY CODES 38-41]	
38. College	0
39. University	0
40. Trade school	0
40. Hade school	J

41. Other post-secondary [SPECIFY]	0
Health Care [IF S8=8 OR 15 OR 990, DISPLAY CODES 81-86]	
85. Medical / dental office or office for other health practitioners	0
80. General medical or surgical hospital [DO NOT DISPLAY FOR S8=15 FOLLOWUP]	0
81. Veterinary hospital	0
82. Other hospital [SPECIFY] [DO NOT DISPLAY FOR S8=15 FOLLOWUP]	0
83. Urgent care center	0
84. Other health care facility [SPECIFY]	0
Nursing Home / Assisted Living [IF S8=9 OR 15 OR 990, DISPLAY CODES 42-45]	
42. Nursing home	0
43. Assisted living facility	0
44. Residential treatment facility	0
45. Other care facility [SPECIFY]	0
Lodging / Housing [IF S8=10 OR 15 OR 990, DISPLAY CODES 46-49]	
46. Hotel	0
47. Motel	0
48. Bed & Breakfast	0
87. Apartment building / condominium association	0
49. Other lodging / housing [SPECIFY]	0
Not-For-Profit Housing [IF S8=11 OR 15 OR 990, DISPLAY CODES 50-52]	
50. Shelter	0
51. Prison / jail	0
52. Other not-for-profit housing [SPECIFY]	0
Entertainment / Recreation [IF S8=12 OR 15 OR 990, DISPLAY CODES 53-59]	
53. Health club / gym	0
54. Movie theater	0
55. Theater	0
56. Library	0
57. Museum	0
58. Bowling alley	0
59. Other entertainment / recreation [SPECIFY]	0
Public Assembly [IF S8=13 OR 15 OR 990, DISPLAY CODES 60-62]	
60. Conference / convention center	0
·	0
61. Community center	0
62. Other public assembly [SPECIFY] Worship [IF S8=14 OR 15 OR 990, DISPLAY CODES 63-66]	0
63. Church	0
64. Temple	0
65. Synagogue	0
86. Mosque	0
66. Other worship [SPECIFY]	0
Manufacturing / Production / Processing [IF S8=16 OR 990, DISPLAY CODES 67-79] [DO NOT	
DISPLAY FOR S8=15 FOLLOWUP]	
67. Agricultural production or farming	0
68. Chemical processing	0
69. Electronics / technology	0
70. Food / beverage production or processing	0
71. General / light assembly or manufacturing	0
72. Glass production or processing	0
73. Metals production or processing or fabricated metal work	0
74. Machinery / appliance / equipment manufacturing	0
75. Paper products processing, printing or manufacturing76. Textiles / apparel production or processing	0
	0

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77. Water / wastewater treatment	0
78. Wood products manufacturing	0
79. Other manufacturing / processing [SPECIFY]	0
Something else [IF S8=15 OR 990, DISPLAY CODE 80]	
80. Something else [SPECIFY]	0

- S10. Approximately how many employees work at this location?
 - 1. Less than 5 employees
 - 2.5 9
 - 3.10 19
 - 4.20 49
 - 5.50 99
 - 6. 100 199
 - 7. 200 299
 - 8. 300 399
 - 9. 400 499
 - 10. 500 999
 - 10. 300 333
 - 11. 1,000 2,499
 - 12. 2,500 4,999
 - 13. 5,000 9,999
 - 14. 10,000 24,999
 - 15. 25,000 or more employees
- S11. What is the approximate square footage of all of the **enclosed floorspace** at your business's location, including all buildings and any enclosed parking?

Please give your best estimate, including only indoor or enclosed space. If your business shares the space with other companies / organizations, only list the space your business uses. If your business occupies several floors or buildings, add the square footage together.

Please enter a whole number rather than a range of numbers.

- 1. [RECORD NUMBER] square feet
- 2. Not sure

[IF S11_1>0, ASK S12 IN ORDER TO VALIDATE S11_1 RESPONSE; OTHERWISE SKIP TO S13]

S12. You said the approximate total square footage of all of the **enclosed floorspace** at your business's location is **[INSERT S11_1 RESPONSE, USING COMMAS] square feet**.

Is this what you intended?

- 1. Yes
- 0. No, I would like to edit my response

[IF S12=1, CONTINUE TO FILTER BEFORE S13; IF S12=0 SKIP BACK TO S11]

[IF S11=2, ASK S13; OTHERWISE SKIP TO S14]

S13. We understand you aren't sure, so using the ranges listed below, please just choose the best estimate of the total square footage of all of the **enclosed floorspace** at this location, <u>including all buildings and any enclosed parking?</u>

Please give your best estimate, including only indoor or enclosed space. If your business shares the space with other companies / organizations, only list the space your business uses. If your business occupies several floors or buildings, add the square footage together.

- 1. Less than 1,000 sq. ft.
- 2.1,000 4,999
- 3.5,000 9,999
- 4. 10,000 14,999
- 5. 15,000 24,999
- 6. 25,000 49,999
- 7. 50,000 99,999
- 8. 100,000 499,999
- 9. 500,000 1 million
- 10. 1 million sq. ft. or more
- S14. Which of the following uses of **electricity** and **natural gas** do you pay for at this location? In other words, does your electric and/or gas bill include the cost of...? *Select all that apply.*
 - 1. Heating some or all of your space
 - 2. Cooling some or all of your space
 - 3. Providing hot water for your use
 - 4. Interior lighting
 - 5. Exterior lighting

{NOTE TO TEAM: THESE RESPONSES WILL BE USED TO SCREEN RESPONDENTS OUT OF THE RELEVANT END USE SECTIONS BELOW; I.E., IF THEY SAY THEIR ENERGY BILL DOES NOT COVER SPACE HEATING, THEY WILL BE SKIPPED OUT OF THE SPACE HEATING SECTION}

[IF NOT OVER-QUOTA, GO TO INVITATION LANGUAGE; OTHERWISE TERMINATE]

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ALL TERMINATES AND OQ EXCEPT FOR TERMS AT A1 AND REFERRALS AT S2 SHOULD GET THIS TERM TEXT:

TERMINATE LANGUAGE FOR NON-QUALIFYING AFTER QS2.0 OR OVER-QUOTA RESPONDENTS

We appreciate the time and effort you have spent in responding to our survey invitation and answering these initial questions, which were designed to see if you are eligible to participate in this research study.

In order to achieve a representative sample, quotas with specific criteria have been designated. At this point, we have reached the number of respondents we can accept from individuals with your type of experience or background. Again, we would like to thank you for your time and effort.

If you would like information on how your business can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

[ONLY ASKED IF RESPONDENT TERMINATES OR IS OVER QUOTA]

R1. Additionally, if you would like someone from the Ameren Illinois's energy efficiency implementation team to contact you about further energy efficiency opportunities, please provide the appropriate contact information below:

(NOTE: All other information you have provided in this survey will continue to remain anonymous, even if you choose to be contacted. None of your prior responses will be communicated to the Ameren Illinois energy efficiency implementation team.)

1. Yes, we would like to be contacted by someone from Ameren Illinois's energy efficiency implementation team. *Please supply the appropriate contact information below.*

[PROGRAMMER NOTE: RESPONDENT SHOULD NOT BE FORCED TO ENTER ANY INFO IF IT'S NOT FOR THEIR PREFERRED CONTACT METHOD]

Contact Name:_			
Business Name:			
Preferred conta	ct method(s) – .	Select all that apply:	
□ phone	\square e-mail	\square postal mail	
Daytime phone			[ALLOW UP TO 20 CHARACTERS –
E-mail address:			
Postal address:_			

2. No, we would NOT like to be contacted

[IF R1=1, GO TO FOLLOW-UP REQUEST VERIFICATION SCREEN]

Please review the contact information you provided and verify that it is complete and correct:

IF R1=2, SHOW:

Thank you and have a nice day!

INVITATION LANGUAGE FOR QUALIFYING RESPONDENTS

Thank you for your responses so far. You and your business have qualified to complete this survey. As we indicated earlier, only a limited number of individuals have been invited to participate in this survey, so we appreciate your time in filling out the survey as completely as possible.

The survey should take about 20 – 25 minutes to complete. Once you complete the survey you will be eligible to receive our \$25 thank you payment. Information about how to receive this payment will be provided at the end of the survey.

Your responses are important to us, so please press "CONTINUE" to begin answering the survey questions. All information provided in this survey will be kept strictly confidential, and at no time will you be asked to purchase anything.

If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the personalized URL to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue, underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> <u>NOT</u> make you navigate away from the survey site.

As you complete the survey, you will **not** be able to use your browser's "back" button. If you mistakenly press your browser's "back" button, you will need to press the "refresh" button to continue the survey.

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I – CUSTOMER ENERGY NEEDS

[PROGRAMMER NOTE: THROUGHOUT THIS SURVEY, WORDS OR PHRASES WITH BLUE, UNDERLINED FONT WILL HAVE HYPERLINKED DEFINITIONS THAT POP-UP WHEN THE RESPONDENT CLICKS ON THE WORD OR PHRASE. HYPERLINKED DEFINITIONS ARE PROVIDED AT THE END OF THIS DOCUMENT]

Now, let's turn specifically to your organization's thoughts about Ameren Illinois.

Q1. Overall, how familiar would you say your organization is with Ameren Illinois?

[RECORD NUMBER; 1=NOT AT ALL FAMILIAR, 10=EXTREMELY FAMILIAR]

Not at all familiar								remely familiar	
1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0

Q2. Using the scale below, please indicate how much your organization agrees or disagrees with each of the following statements about Ameren Illinois.

Note: If you don't feel like your organization is very familiar with Ameren Illinois on any of the following, please just give your best guess.

Ameren Illinois is...

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-4]		gly ree				Strongly agree				
	1	2	3	4	5	6	7	8	9	10
1a leader in energy conservation and green energy	0	0	0	0	0	0	0	0	0	0
2a company that can be trusted	0	0	0	0	0	0	0	0	0	0
3a credible information source on the kinds of things you can do to save energy	0	0	0	0	0	0	0	0	0	0
4a company that actively promotes programs to help its business customers save money	0	0	0	0	0	0	0	0	0	0

Q3. Overall, how satisfied would you say your organization is with Ameren Illinois as your electric utility?

[RECORD NUMBER; 1=NOT AT ALL SATISFIED, 10=EXTREMELY SATISFIED]

Not at satisfie					Extremel satisfie					
1	2	3	4	5	6	7	8	9	10	
0	0	0	0	0	0	0	0	0	0	

Q4. Using the scale below, please indicate how important it is to your organization that your electric utility company do the following things, even if that means that your organization would have to pay a little more in order for your utility to pursue these types of initiatives?

[RECORD NUMBER; 1=NOT AT ALL IMPORTANT, 10=EXTREMELY IMPORTANT]

[ROTATE 1-3]		t all rtant				Extremely important				
	1	2	3	4	5	6	7	8	9	10
1. Actively encourage its customers to participate in energy saving and cost saving programs	0	0	0	0	0	0	0	0	0	0
2. Do everything possible to supply renewable, clean energy	0	0	0	0	0	0	0	0	0	0
3. Operate its business in a completely environmentally friendly manner	0	0	0	0	0	0	0	0	0	0

- Q5. Considering the types of initiatives we asked about in the previous question, which would you prefer your electric utility do...? [SELECT ONE]
 - 1. Pursue these and other initiatives even if your organization had to pay a little more
 - 2. Do everything possible to keep energy costs as low as possible
 - 3. Both are equally important

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II - BASIC ENERGY USAGE

[PROGRAMMER NOTE: THROUGHOUT THIS SURVEY, WORDS OR PHRASES WITH BLUE, UNDERLINED FONT WILL HAVE HYPERLINKED DEFINITIONS THAT POP-UP WHEN THE RESPONDENT CLICKS ON THE WORD OR PHRASE. HYPERLINKED DEFINITIONS ARE PROVIDED AT THE END OF THIS DOCUMENT]

Our next few questions are about the equipment you have at this facility.

- Q6. Approximately what percentage of the space your business occupies, or uses, at this location is <u>heated</u>?
 - 1. None
 - 2. Less than 10%
 - 3. 10-20%
 - 4. 21-30%
 - 5. 31-40%
 - 6. 41-50%
 - 7. 51-60%
 - 8. 61-70%
 - 9. 71-80%
 - 10. 81-90%
 - 11. More than 90%

[IF Q6=2-11, ASK Q7; OTHERWISE SKIP TO Q8]

Q7. What type of space heating system is used as a means of heating your space? *Please select one in each column.*

[PROGRAMMER: ONLY ONE TYPE CAN BE SELECTED IN EACH COLUMN]

	Heating Equipment	A. Primary	B. Secondary
1.	Natural gas warm air furnace with ducts/vents to individual rooms		
2.	Electric warm air furnace with ducts/vents to individual rooms		
3.	Natural gas boiler with hot water/steam radiators or baseboards in individual rooms		
4.	Electric boiler with hot water/steam radiators or baseboards in individual rooms		
5.	Electric baseboard or electric coils radiant heating (no supply ducts or water/steam pipes)		
6.	Air-source heat pump		
7.	Geothermal heat pump		
8.	Natural gas unit heater or wall furnace		

9.	Electric unit heater or wall furnace	
10.	None	
999.	Not sure [EXCLUSIVE]	
990.	Other (please specify)	

Q8. What type of cooling system is your <u>primary</u> means to cool your space?

By "primary", we mean the cooling system that you use for the largest amount of your space.

- 1. Air cooled chiller
- 2. Water cooled chiller
- 3. Central air conditioner
- 4. Packaged air conditioner units
- 5. Floor-by-floor packaged water cooled DX (Direct Expansion) units
- 6. Wall or window air conditioner units
- 7. Air-source heat pump
- 8. Geothermal heat pump
- 9. Other [SPECIFY]
- 10. Not sure
- Q9. What type of water heater does your business use?
 - 1. None
 - 2. Hot water either purchased or provided by building to tenants
 - 3. Self-contained or stand-alone storage water heaters/boilers
 - 4. Central boiler
 - 5. Tankless (instantaneous) water heater
 - 6. Heat pump water heater
 - 7. Heat recovery water heater
 - 8. Other [SPECIFY]
 - 9. Not sure
- Q10. What size kitchen, if any, is used for food preparation in your facility, including any kitchens used for employees' personal use?
 - 1. None
 - 2. Small kitchenette
 - 3. Residential-scale kitchen
 - 4. Commercial-scale kitchen
 - 5. Institution-scale kitchen (in larger hospitals, universities)

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Q11. **[IF Q10=2-5, DISPLAY, "**How many of the following units can be found in your kitchen / food preparation / food storage and/or sales area(s)?"**] [IF Q10=1, DISPLAY, "**Even though you mentioned you don't have any kitchens, do you have any refrigerator and/or freezer units? Please indicate how many you have at your location."**]**

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

1. Refrigerator, units	[RECORD NUMBER 0-99]
2. Freezer, units	[RECORD NUMBER 0-99]
3. Refrigerator, walk-in	[RECORD NUMBER 0-99]
4. Freezer, walk-in	[RECORD NUMBER 0-99]

[IF S8 NE 5, ASK Q12; OTHERWISE SKIP TO Q13]

- Q12. Is there any warehouse or large storage space at your location?
 - 1. No
 - 2. Yes, unrefrigerated
 - 3. Yes, refrigerated
 - 4. Yes, both unrefrigerated and refrigerated
- Q13. Do you have any swimming pools, hot tubs, spas, or other similar items at your location?
 - 1. No
 - 2. Yes, unheated
 - 3. Yes, heated using electricity as a heat source
 - 4. Yes, heated using natural gas as a heat source
 - 5. Yes, heated using another heat source

III – ATTITUDES

We'd like to understand how your organization as a whole thinks about using energy at this facility.

Q14. At an organizational level, to what extent does your firm agree or disagree with each of the following statements? Please use a 10-point scale where '1' means you strongly disagree, and '10' means you strongly agree.

We are interested in your firm's attitudes, regardless of whether or not it has acted on these beliefs.

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-8]	Stror disag		Strongly agree							
	1	2	3	4	5	6	7	8	9	10
1. We care about the cost of the energy we use, but realistically, other issues take up much more of our management time	0	0	0	0	0	0	0	0	0	0
2. It is a top priority for our organization to find ways to control our energy costs	0	0	0	0	0	0	0	0	0	0
3. There is really very little our organization can do to save money on our energy bills	0	0	0	0	0	0	0	0	0	0
4. Our organization believes that it is socially responsible to limit our use of electricity	0	0	0	0	0	0	0	0	0	0
5. We would do more to make our facility more energy efficient, but we don't really know where to start, or what to do next	0	0	0	0	0	0	0	0	0	0
6. Our organization has made a <u>public</u> commitment to be a "greener" organization	0	0	0	0	0	0	0	0	0	0
7. Our organization believes that the long- term threat from global warming and climate change is real, and potentially devastating	0	0	0	0	0	0	0	0	0	0
8. We believe that investing in energy efficiency almost always a good business decision	0	0	0	0	0	0	0	0	0	0

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IV – EE MEASURES ALREADY TAKEN

Q15. Which, if any, of the following types of gas or electric appliances, equipment (e.g., HVAC equipment, motors), large electronic devices, or other significant energy-using items has your organization purchased for this facility in the **last 12 months**? *Select all that apply*.

[ROTATE 1-7]	Purchased in last 12 months
1. Heating equipment used to heat space in your facility	
2. Air conditioning equipment used to cool space in your facility	
3. Water heating equipment	
4. Refrigeration equipment	
5. Motors / drives	
6. Office equipment (computers, printers, copiers)	
7. Ventilation equipment	
8. Other significant energy-using item [SPECIFY ONE ITEM]	
9. Other significant energy-using item [SPECIFY ONE ITEM]	
10. Other significant energy-using item [SPECIFY ONE ITEM]	
11. Not sure [EXCLUSIVE]	
12. None of the above [EXCLUSIVE]	

[IF ANY Q15_1 THRU Q15_10 SELECTED, ASK Q16; OTHERWISE SKIP TO Q17]

Q16. To the best of your recollection, were any of the items purchased for your facility in the last 12 months ones that were specifically described as "ENERGY STAR", "high energy efficiency" or "highly energy efficient"?

High energy efficiency models are often labeled as "ENERGY STAR" appliances or devices.

[DISPLAY ONLY ITEMS SELECTED AT Q10] [ROTATE 1-7]	1. Yes	2. No	3. Not sure
1. Space heating equipment	0	0	0
2. Space cooling equipment	0	0	0
3. Water heating equipment	0	0	0
4. Refrigeration equipment	0	0	0
5. Motors / drives	0	0	0
6. Office equipment (computers, printers, copiers)	0	0	0
7. Ventilation equipment	0	0	0
8. [INSERT Q15_8 SPECIFY]	0	0	0
9. [INSERT Q15_9 OTHER SPECIFY]	0	0	0
10. [INSERT Q15_10 OTHER SPECIFY]	0	0	0

- Q17. In the last 12 months, has your organization replaced any of the interior lighting at this facility with high efficiency lighting, including any <u>compact fluorescent light bulbs</u> (or CFLs), <u>CFL-only light fixtures</u>, or <u>T-8 or Super T-8</u> lamps or fixtures?
 - 1. Yes
 - 2. No
 - 3. Not sure

[IF Q17=1; ASK Q18; OTHERWISE SKIP TO Q19]

Q18. Approximately how many high efficiency bulbs and/or ballasts has your organization installed in this facility within the last 12 months? *Your best estimate is fine.*

	Number installed within the last 12 months
1. High efficiency bulbs / lamps	[RECORD NUMBER 0-999]
2. High efficiency fixtures / ballasts	[RECORD NUMBER 0-999]

[Q13TOT (not displayed) MUST BE >0 IN ORDER TO MOVE TO NEXT SCREEN]

Q19. Some utilities offer rebates, low interest loans, or price discounts to encourage people to purchase highly energy efficient products, including HVAC equipment, refrigeration equipment, motors, water heaters, lighting, and other items.

To the best of your knowledge, does Ameren Illinois have any such programs that offer organizations like yours a discount off the purchase price on qualified items?

- 1. Yes
- 2. No
- 3. Not sure

[IF Q19=1, ASK Q20; OTHERWISE SKIP TO Q21]

- Q20. Has your organization participated in any loans, price discounts, or conservation rebate programs sponsored by Ameren Illinois within the last 2 years?
 - 1. Yes
 - 2. No
 - 3. Not sure
- Q21. Which of the following statements best describes your organization's approach to implementing energy efficiency actions **at this facility**? *Please select the one answer that best fits this facility*.
 - 1. We don't really pay much attention to energy efficiency
 - We try and watch our energy use, and attempt to remind people about how they use lights and equipment, but we haven't actually done much in terms of changing out equipment for higher efficiency models
 - 3. We have done some things to become more energy efficient (e.g., watch our energy use and have replaced some equipment), but I wouldn't say we have done everything we can
 - 4. We make consistent and aggressive efforts to make our facility as energy efficient as possible

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- Q22. Has your organization noticed any energy or cost savings as a result of <u>any</u> of the actions your organization might have taken over the last few years to conserve energy or be more energy efficient at this facility?
 - 1. Yes the energy efficiency actions taken have had a large impact on energy or cost savings
 - 2. Yes the energy efficiency actions taken have had a **small or moderate impact** on energy or cost savings
 - 3. No the energy efficiency actions taken have had **no impact** on energy or cost savings
 - 4. Not sure
 - 5. Not applicable We have not taken any actions to conserve energy or be more energy efficient at this facility over the last few years

V – PURCHASING ATTITUDES / BEHAVIOR & ENVIRONMENTAL ATTITUDES

Now, we'd like to find out about your organization's priorities when evaluating energy-related products and services for your facility.

Q23. Using the scale below, please indicate <u>how important</u> each of the following factors is to your organization when selecting which pieces of equipment, electronic devices, or other energy-related products or services to purchase for this facility.

[RECORD NUMBER; 1=NOT AT ALL IMPORTANT, 10=EXTREMELY IMPORTANT]

[ROTATE 1-7, but make sure 1-2 always appear next to each other]		Not at all important						Extremely important				
next to each other)	1	2	3	4	5	6	7	8	9	10		
Any long-term cost savings your organization might see from using the product / service	0	0	0	0	0	0	0	0	0	0		
2. Any positive effects on the environment resulting from using the product / service	0	0	0	0	0	0	0	0	0	0		
3. Any rebates or purchase discounts that may be offered for the products / services	0	0	0	0	0	0	0	0	0	0		
4. The extent to which the product / service is at the leading edge of new technology	0	0	0	0	0	0	0	0	0	0		
5. Any potential positive impact on productivity or sales potential	0	0	0	0	0	0	0	0	0	0		
6. Features and functions included with the product / service	0	0	0	0	0	0	0	0	0	0		
7. The total up-front cost of the product / service	0	0	0	0	0	0	0	0	0	0		

[IF Q23_1=Q23_2, ASK Q24; OTHERWISE SKIP TO Q25]

Q24. When evaluating energy-related products and services for your facility, which **one** of the following factors is **more important** to your organization?

[ROTATE 1-2]	More important factor when shopping for energy-related products / services
1. Any cost savings your organization might see	0
2. Any positive effects on the environment that might	result

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Q25. Using the scale below, please indicate how much you agree or disagree with each of the statements below that have to do with how your organization selects new energy-using equipment.

[RECORD NUMBER; 1=STRONGLY DISAGREE, 10=STRONGLY AGREE]

[ROTATE 1-11]	Stror					Strongly agree					
•	1	2	3	4	5	6	7	8	9	10	
We manage our operations very tightly; we constantly look at how things are running and for ways to reduce costs	0	0	0	0	0	0	0	0	0	0	
2. These days, we have to take a very short term view when thinking about operational investments	0	0	0	0	0	0	0	0	0	0	
3. When we consider replacing energy-using equipment, we typically rely on advice from outside consultants or contractors about what would be best for our situation	0	0	0	0	0	0	0	0	0	0	
4. We continue to take a long-term view of equipment costs – purchase price matters, but we take life-cycle costs into account when evaluating options	0	0	0	0	0	0	0	0	0	0	
5. We are far more concerned with what new energy-using equipment can do for us — what benefits we get from using it — than we are concerned about the cost of the energy to run the equipment	0	0	0	0	0	0	0	0	0	0	
6. The reality is that the most energy-efficient equipment is also almost always the best equipment on the market	0	0	0	0	0	0	0	0	0	0	
7. Unless there's a bona fide reason not to, we typically install the most energy-efficient equipment possible	0	0	0	0	0	0	0	0	0	0	
8. We sometimes replace equipment earlier than we absolutely have to, just because we know there are more energy efficient options available	0	0	0	0	0	0	0	0	0	0	
9. We generally research product features and review all of the relevant options carefully before selecting a new piece of equipment to install	0	0	0	0	0	0	0	0	0	0	
10. To be honest, the environmental impact of our day-to-day purchases is not something we spend time worrying about	0	0	0	0	0	0	0	0	0	0	
11. Since energy costs make up such a small portion of our total operating costs, energy issues just don't get a lot of attention	0	0	0	0	0	0	0	0	0	0	

VI – INTEREST IN POTENTIAL ENERGY EFFICIENCY MEASURES OFFERED BY AMEREN ILLINOIS

[PROGRAMMER NOTE: REBATE/INCENTIVE PROGRAM INTRODUCTION SCREEN]

Thank you for your responses so far!

The next section of the survey asks for your reaction to a wide variety of energy efficiency programs that Ameren Illinois may be able to offer to businesses like yours. For each of the programs you will see, we would like to understand how likely your business would be to participate in the program.

Q26. With many of these programs, Ameren Illinois would offer your business a rebate or other financial incentive to do something to become more energy efficient. As an example, consider the fact that you can purchase cooling systems (air conditioners, heat pumps, chillers, and the like) that are "standard" efficiency or "higher than standard" efficiency. Higher efficiency air conditioners cost more, but they use less energy. Often, the energy saved by using a more energy efficient piece of equipment can pay for the higher cost of that equipment within a few years.

Ameren Illinois might be able to offer a rebate or other financial incentive to businesses that opt to purchase a higher efficiency cooling system, or other, related appliance or piece of equipment. Because these rebates would reduce the cost difference between a highly energy efficient unit and a standard unit, it would take less time to save on electricity costs to make up for the higher initial cost of the more efficient unit. And remember that you would continue to save money on electricity costs, even after the energy efficient unit "paid for itself."

[CAN SPLIT HERE ONTO TWO SCREENS]

Please assume for now that Ameren Illinois could provide a rebate that meant your business would save enough on electricity costs to pay for the additional cost of the more efficient cooling system within **3 years**. If you were going to acquire a new cooling system, how likely would your business be to buy the higher than standard efficiency cooling system (and take the rebate), rather than buying an equivalent standard efficiency cooling system?

Please use a 10 point scale where, '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be extremely likely to do this.

Not At All Likely	1							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q26=7 TO 10]

Q27. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the additional cost to buy a "higher than standard efficiency" cooling system in <u>5 years</u>. If this were true, and you were going to acquire a new cooling system, how likely would your business be to buy the <u>higher than standard</u> efficiency cooling system (and take the rebate), rather than buying an equivalent <u>standard</u> efficiency cooling system?

Not At All Likely	,							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q26 =1-6]

Q28. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity to pay for the additional cost to buy a "higher than standard efficiency" cooling system in **1 year**. If this were true, and you were going to acquire a new cooling system, how likely would your business

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be to buy the <u>higher than standard</u> efficiency air conditioner (and take the rebate), rather than buying an equivalent <u>standard</u> efficiency cooling system?

Not At All Likely	1							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

Q29. Now, for each of the items described below, let's assume that a rebate from Ameren Illinois would mean that you would save enough on electricity in <u>3 years</u> to pay for the additional cost to buy a "higher than standard efficiency" model of that item. If this were true, and you were going to acquire <u>each</u> of these items, how likely would your business be to buy the <u>higher than standard</u> efficiency model (and take the rebate), rather than buying an equivalent <u>standard</u> efficiency model of <u>each</u> item?

Please use a 10 point scale where '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

How likely would your business be to...?

[KEEP COOLING SECTION FIRST AND DO NOT RANDOMIZE WITHIN; FOLLOWING SECTIONS SHOULD BE RANDOMIZED, BUT NOT ITEMS WITHIN]		at all ly to this	l						lil	remely kely to do this	Not our decision (i.e., Someone else decides)	Not applicable / Don't have	Already have / do this
3 Year Payback Period	1	2	3	4	5	6	7	8	9	10			
Cooling System Equipment													
[ASK IF Q8=2-5,7] 1. Purchase a higher than standard efficiency central / packaged air conditioner or chiller unit	0	0	0	0	0	0	0	0	0	0	0	0	0
[ASK IF Q8=1] 2. Install higher than standard efficiency fans on chiller units	0	0	0	0	0	0	0	0	0	0	0	0	0
[ASK IF Q8=1] 3. Install an Economizer	0	0	0	0	0	0	0	0	0	0	0	0	0
[ASK IF Q8=1] 4. Install variable speed drives on chiller pumps	0	0	0	0	0	0	0	0	0	0	0	0	0
Heating System Equipment													
[ASK IF S14_1] 5. Purchase a higher than standard efficiency primary heating system	0	0	0	0	0	0	0	0	0	0	0	0	0
Refrigeration Equipment													
[ASK IF ANY Q11_1 THROUGH Q11_4>0] 6. Purchase a higher than standard efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0

refrigeration unit													
7. Install a variable speed													
compressor on one or	0	0	0	0	0	0	0	0	0	0	0	0	\circ
more of your refrigeration)		0	0	0	O	Ü
units													
Cooking Equipment													
[ASK IF Q10=2-5]													
8. Install higher than													
standard efficiency cooking	0	0	0	0	0	\circ	\circ	0	0	0	0	0	\circ
equipment (Ovens, Fryers,													
Cooktops, Fryers, etc.)													
Pumps and Motors													
9. Purchase higher than													
standard efficiency motors	0	0	0	0	0	0	0	0	0	0	0	0	0
or pumps for your non-)))))	O	O	0
HVAC equipment													
8. Install Variable Speed													
Drives on one or more of	0	0	0	0	0	0	0	0	0	0	\circ	0	0
your non-HVAC pumps or))))	0	O	0
motors													
10. Purchase higher than													
standard efficiency pumps	0	0	0	0	0	0	0	0	0	0	\circ	0	\circ
or motors that are part of))	0	O	0
your HVAC system													
11. Install Variable Speed													
Drives on one or more of													
your pumps and motors	0	0	0	\circ	0	0	0	0	0	\circ	0	0	0
that are part of your HVAC													
system													

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Q30. In addition to offering programs that would help your business buy more energy efficient equipment, Ameren Illinois might also be able to offer your business a rebate or other financial incentives to install a variety of control systems that could optimize the operational efficiency of your *existing* equipment. For example, they might provide a rebate to help you install or upgrade an <u>advanced programmable</u>, <u>clock-based thermostat</u> on your HVAC system to provide basic automation for this system. Once this thermostat is installed, the energy saved could potentially make up for the associated cost of installing it within a few years.

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing the <u>advanced programmable</u>, <u>clock-based thermostat</u> within <u>3 years</u>, how likely would you be to install this device (and take the rebate)?

Please use a 10 point scale where, '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

Not At All Likely	1							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q30=7 TO 10]

Q31. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in <u>5 years</u> to pay for the cost of installing an <u>advanced programmable</u>, <u>clock-based thermostat</u>. In this case, how likely would your business be to install the thermostat, and take the rebate?

Not At All Likel	у							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q30 =1-6]

Q32. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in 1 year to pay for the cost of installing an advanced programmable, clock-based thermostat. In this case, how likely would your business be to install the thermostat and take the rebate?

No	t At All Like	ely							Extremely Likely
	To Do This	;							to Do This
1	2	3	4	5	6	7	8	9	10

Q33. Now, for each of the energy control system improvements below, let's assume that the impact of the rebate from Ameren Illinois was that your business would save enough on electricity in <u>3 years</u> to pay for the cost associated with <u>each</u> control system improvement. If this were true, how likely would your organization be to make <u>each</u> improvement?

Please use a 10 point scale where '1' means you think your business would <u>not be at all likely to do this</u> and '10' means your business would be extremely likely to do this.

How likely would your organization be to ...?

[RANDOMIZE SECTIONS AND ITEMS WITHIN EACH SECTION]		at all ly to :his					I decision (1 e						Already have / do this
3 Year Payback Period	1	2	3	4	5	6	7	8	9	10			
Building Level													
1. Install an Energy Management System that is designed to optimize the performance of all your													
energy using systems													
HVAC Equipment		1	l	l					l	l	I		
2. Add controls to your ventilation system to enable variable – rather than constant – air volumes	0	0	0	0	0	0	0	0	0	0	0	0	0
Lighting Equipment													
4. Install occupancy / motion sensors to turn lights off when rooms are not in use	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Install daylighting sensors or time clocks / timers to turn interior lights off at specified times when not in use	0	0	0	0	0	0	0	0	0	0	0	0	0
Swimming Pool Equipment	[DISP	LAY T	HIS S	ECTIC	N IF	Q13=	2-5]						
6. Install a timer on the swimming pool pump to control the number of hours it operates	0	0	0	0	0	0	0	0	0	0	0	0	0
Building Exterior													
7. Install controls on your outside lights that make sure they are only on at certain times	0	0	0	0	0	0	0	0	0	0	0	0	0

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Q34. In addition to the options we have discussed already, Ameren Illinois might also be able to offer your business a rebate to install a variety of lower cost equipment, or to implement a variety of services, that could optimize the operational efficiency of your equipment. For example, they might provide a rebate to help you install or upgrade higher energy efficiency <u>personal computer</u>. The more efficient PC could potentially make up for the higher purchase price within a few years.

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing the <u>higher efficiency PC</u> within <u>3 years</u>, how likely would you be to install this device (and take the rebate)?

Please use a 10 point scale where, '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

Not At All Likely	,							emely Likely	
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q34=7 TO 10]

Q35. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in <u>5 years</u> to pay for the cost of installing the <u>more energy efficient PC</u>. In this case, how likely would your business be to install the PC, and take the rebate?

Not At All Likel	У							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q34 =1-6]

Q36. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in <u>1 year</u> to pay for the cost of installing the <u>more energy efficient PC</u>. In this case, how likely would your business be to install the PC and take the rebate?

No	t At All Like	ely							Extremely Likely
	To Do This	;							to Do This
1	2	3	4	5	6	7	8	9	10

Q37. Now, for each of the improvements below, let's assume that the impact of the rebate from Ameren Illinois was that your business would save enough on electricity in <u>3 years</u> to pay for the cost associated with <u>each</u> improvement. If this were true, how likely would your organization be to make <u>each</u> improvement?

Please use a 10 point scale where '1' means you think your business would <u>not be at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

How likely would your organization be to ...?

•											1	1	
[RANDOMIZE SECTIONS]	Not at all likely to do this					Extremel likely to do thi			cely to	Someone	Not applicable / Don't have	Already have / do this	
3 Year Payback Period	1	2	3	4	5	6	7	8	9	10			
Office Equipment													
1. Purchase a higher than													
standard efficiency copier	0	0	0	0	\circ	0	\circ	\circ	0	0	0	0	0
/ printer													
2. Purchase a higher than	0	0	0	0	0	0	0	0	0	0	0	0	0
standard efficiency server				_)	0		O	O	O
Water Heating Equipment [DISPL	AY TH	IIS SE	CTIO	N IF C	19=2-	8]						
3. Install "low flow"													
nozzles or faucet aerators	0	0	0	0	0	0	0	0	0	0	0	0	0
that reduce the amount of					0	0	0	0			0		O
hot water used													
4. Install a pre-rinse spray													
valve on any dishwashers,													
which would reduce hot													
water use													
HVAC System [DISPLAY THIS	S SEC	TION	IF Q8	NE 9]								
[ASK IF Q8=2-5,7]													
5. Perform regular,													
professional maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0
on your <u>cooling system</u> in											0		
order to optimize its													
performance													
[ASK IF Q8=1,3-4]													
6. Perform regular,													
professional maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0
on your <u>heating system</u> in											O	U	
order to improve its													
performance													
7. Implement a full													
professional "re-													
commissioning" of your													
HVAC system which													
evaluates and optimizes													
each element of the													
system's performance													
Building Exterior													
8. Install reflective film on	0	0	0	0	0	0	0	0	0	0	\circ	0	0
exterior windows					_		_					_	-
Lighting System													
9. Upgrade portions of your lighting system including fixtures, lamps and/or ballasts	0	0	0	0	0	0	0	0	0	0	0	0	0

Q38. Finally, Ameren Illinois might also be able to offer your business a rebate to purchase and install **higher than standard efficiency light bulbs** (higher than standard efficiency light bulbs could include <u>compact fluorescents</u>,

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<u>T-5</u>, <u>T-8 or Super T-8 fluorescents</u>). The energy saved from installing these higher efficiency lamps could potentially make up for the associated cost of installing them within a few years

Assuming that Ameren Illinois could provide a rebate that meant you would save enough on your electricity costs to pay for the cost of installing higher efficiency light bulbs within <u>3 years</u>, how likely would you be to install one or more of these bulbs (and take the rebate)?

Please use a 10 point scale where, '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

Not At All Likely	/							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q38=7 TO 10]

Q39. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in <u>5 years</u> to pay for the cost of installing the higher efficiency light bulbs. In this case, how likely would your business be to install the one or more of these bulbs, and take the rebate?

Not At All Likel	У							Extr	emely Likely
To Do This								t	o Do This
1	2	3	4	5	6	7	8	9	10

[ASK IF Q38=1-6]

Q40. Now, please think about a situation in which the impact of the rebate from Ameren Illinois was that you would save enough on electricity in <u>1 year</u> to pay for the cost of installing the higher efficiency light bulbs. In this case, how likely would your business be to install one or more of the bulbs, and take the rebate?

Not	At All Lik	ely							Extremely Likely	,
Т	o Do Thi	s							to Do This	
1	2	3	4	5	6	7	8	9	10	

Q41. Finally, we'd like to ask how likely your business is to undertake energy conservation measures such as reducing the temperature of your thermostat, hot water heaters. These actions have no up-front cost, and would reduce your electricity bill. However, they may have some tradeoffs in terms of comfort or convenience.

Please rate the likelihood that your business would take the following actions, using a 10 point scale where '1' means you think your business would be <u>not at all likely to do this</u> and '10' means your business would be <u>extremely likely to do this</u>.

[RECORD NUMBER; 1=NOT AT ALL LIKELY, 10=EXTREMELY LIKELY]

[ROTATE RESPONSES]		Not at all likely to do this				Extremely likely to do this				
		2	3	4	5	6	7	8	9	10
1. Reduce the temperature of the water that your water heater delivers	0	0	0	0	0	0	0	0	0	0
2. Reduce your thermostat setting (making it cooler) during the winter	0	0	0	0	0	0	0	0	0	0
3. Raise your thermostat setting (making it warmer) during the summer	0	0	0	0	0	0	0	0	0	0

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VII - CONCLUSION

[END / COLLECT INFORMATION NECESSARY TO DISTRIBUTE INCENTIVES]

Those are all the questions we have for you today. Thank you for your participation!

- C1. The \$25 thank you payment you earned by completing our survey will be sent as a check. Please provide your name and address below.
 - A. Full name
 - B. Business name
 - C. Mailing Address Line #1
 - D. Mailing Address Line #2 (optional)
 - E. Mailing Address Line #3 (optional)
 - F. City
 - G. State
 - H. ZIP Code
- C1I. I would prefer not to receive the \$25 thank you payment.

[IF C1=I, ASK C1J; OTHERWISE, CONTINUE TO ADDRESS VERIFICATION SCREEN]

- C1J. You indicated that you do NOT wish to receive the \$25 thank you check. Is that correct?
 - 1. Yes [CONTINUE TO
 - 2. No [RETURN TO C1 TO RECORD NAME AND ADDRESS]

[IF EITHER NAME/MAILING ADDRESS ENTERED, SHOW INCENTIVE NAME/ADDRESS/EMAIL ADDRESS VERIFICATION SCREEN; OTHERWISE SKIP TO INCENTIVE CONFIRMATION / GOODBYE SCREEN]

[INCENTIVE NAME/ADDRESS/EMAIL ADDRESS VERIFICATION SCREEN]

Please review the information you provided and verify that it is complete and correct:

[DISPLAY NAME/ADDRESS/EMAIL ADDRESS COLLECTED ON PREVIOUS SCREEN]

If you would like to edit any of this information, please click the "Back" button to go to the previous screen, where you can make any needed changes.

Otherwise, please click "CONTINUE" to submit your information.

[PROGRAMMER: INCLUDE BACK BUTTON FOR THIS SCREEN DURING LIVE VERSION]

[INCENTIVE CONFIRMATION / FOLLOW-UP REQUEST SCREEN]

[IF NAME/MAILING ADDRESS ENTERED, DISPLAY, "You have successfully submitted the information we need so we can send you your \$25 thank you payment. This payment will be issued to the name you provided and will be mailed within 3-4 weeks to the address you provided."]

[PROGRAMMER: DISPLAY ON SAME SCREEN AS ABOVE LANGUAGE]

C2. If you would like information on how your business can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

Additionally, if you would like someone from Ameren Illinois's energy efficiency implementation team to contact you about further energy efficiency opportunities, please provide the appropriate contact information below:

(NOTE: All other information you have provided in this survey will continue to remain anonymous, even if you choose to be contacted. None of your prior responses will be communicated to the Ameren Illinois energy efficiency implementation team.)

1.	Yes, we would like to be contacted by someone frimplementation team. <i>Please supply appropriate i</i>	
	Contact Name:	
	Business Name:	_
	Preferred contact method(s) – Select all that apply	<i>y</i> :
	☐ phone ☐ e-mail ☐ postal mail	
	Daytime phone number :	[ALLOW 20 CHARACTERS]
	E-mail address:	_
	Postal address:	
2.	No, we would NOT like to be contacted	
۷.	No, we would NOT like to be contacted	
_	D FOLLOW-UP REQUEST VERIFICATION SCREEN; IF C N / COMMENT SCREEN]	2=2, SKIP TO FOLLOW-UP REQUEST
	EQUEST VERIFICATION SCREEN] he contact information you provided and verify that	it is complete and correct:
[DISPLAY PROV	(IDED INFORMATION]	
-	e to edit any of this information, please click the "Ba iny needed changes.	ck" button to go to the previous screen, where
Otherwise, plea	ase click "Next" to submit your information.	
[PROGRAMME	R NOTE: INCLUDE 'BACK' BUTTON ON THIS SCREEN	WHEN SURVEY IS LIVE]
[IF C2=1, DISPL	EQUEST CONFIRMATION / COMMENT SCREEN] AY, "You have successfully submitted your contact ir from the Ameren Illinois energy efficiency implemen	
If, at this time.	you'd like to make any general comments or provide	feedback to Ameren Illinois, please use the

If, at this following text box:

[RECORD TEXT; ALLOW A HIGH MAX NUMBER OF CHARACTERS FOR LONG COMMENTS]

(Note: Any comments you submit here will <u>not</u> be linked to your previous survey responses or to any other identifying information when communicated to Ameren Illinois.)

E-34 www.enernoc.com Please click "Next" to submit your comment or to proceed without leaving a comment.

[GOODBYE SCREEN]

[IF STATUS=C, DISPLAY, "Thank you very much for your help with our research. It is greatly appreciated! Have a nice day!"]

[IF STATUS=T OR O, DISPLAY, "Thank you. Have a nice day!"] [INCLUDE "Close window" BUTTON]

SURVEY CLOSED MESSAGE – DISPLAY ONLY IF RESPONDENT REACHES SITE AFTER WE HAVE CLOSED THE SURVEY

We appreciate your time and effort in responding to the survey invitation you received, but the survey sponsored by Ameren Illinois is now closed.

If you would like information on how your business can save money on energy bills, please visit Ameren Illinois at www.actonenergy.com

Thank you. Have a nice day!

DEFINITIONS

[THE DEFINITIONS IN THE TABLE BELOW WILL EACH BE SHOWN IN A POP-UP BOX THAT IS TRIGGERED BY A HYPERLINKED WORD OR PHRASE]

Term / Phrase	Definition					
CFL-specific fixture	A fixture that has a CFL-ballast located inside, which is larger and lasts longer than integrated CFLs (CFLs with a screw-in mechanism so that they can replace incandescent bulbs). CFL-specific fixtures use replaceable bulbs that have a starter in the base of the bulb.					
Compact fluorescent (CFL)	A newer type of light bulb that screws into a light socket, but which is a fluorescent light rather than a traditional incandescent light bulb, and which also often has a non-traditional swirly or curved shape.					
Daylighting sensors	Electronic devices that are used to control lights in a room, so that when there is sufficient daylight / sunlight present, then room lights are turned off					
District steam with chiller	A district steam system works by having a central steam plant that typically serves multiple clients, or in larger cities, even multiple city blocks or other areas; district steam with chiller systems use district steam to drive a local chiller system					
Floor-by-floor packaged water-cooled DX units	Separate air conditioning units that serve each floor individually; these units are typically water-cooled, rather than air-cooled					
Air-source heat pump	An air-source heat pump uses the difference between outdoor and indoor air temperatures to cool and heat the space.					
Geo-thermal heat pump	Geothermal heat pumps are similar to ordinary heat pumps, but use the ground instead of outside air to provide heating, air conditioning and, in most cases, hot water.					
Central chilled water plant (chiller)	A central chiller plant creates chilled water for distribution throughout the facility. Because of the wide variety of system types and sizes, savings and cost values for efficiency improvements represent an average over screw, reciprocating, and centrifugal technologies.					
Economizer (air-side or water-side)	A heat exchanger that uses either cold outdoor air or water cooled by a wet cooling tower to meet the cooling needs of occupied spaces whenever possible.					
Electric resistance	Sometimes called electric "baseboard" heat, electric resistance heaters generate hot air to warm an interior space by heating up coils that are located in each individual room or space that is heated					
Energy Management System	An electronic system that can be programmed to automatically turn or / off (or to otherwise operate) HVAC, lighting, and / or other building systems according to a schedule that a building operator has established ahead of time					
ENERGY STAR®	A label for some new appliances that indicates the appliance meets the standards for high efficiency appliances					
Floor-by-floor packaged water-cooled DX units	Separate air conditioning units that serve each floor individually; these units are typically water-cooled, rather than air-cooled					
Forced air furnace	A furnace that operates by heating air which is then forced through ductwork to different outlets throughout a building or facility					
Heat recovery water heater A water heater that uses heat "recovered" from another application (for example, by recovering "waste heat" from a process that he						

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	another material) to heat water for different purposes			
High-efficiency fluorescent tubes (T8)	Newer fluorescent tubes (T8s) that fit into traditional fixtures, but			
riigii-eriiciericy fluorescent tubes (18)	which represent a more efficient (lower wattage) tube			
	An occupancy sensor is a motion detector that is integrated with a			
Occupancy sensors	timing device. It senses when motion has stopped for a specified time			
	period in order to trigger a light extinguishing signal.			
	A thermostat that lets you program a schedule and set the			
Programmable thermostat	temperature up or down at different times of the day and/or different			
	days of the week			
T-5	Super high-efficiency fluorescent tubes			
	A water heater that only heats water for delivery to your application			
Tankless (instantaneous) water heater	when you ask for it by using hot water. These systems do not keep a			
	tank of water hot at all times.			
Variable air volumes	Controls air from a single supply duct and varies the airflow to each			
	zone or room based upon the temperature in the room			
Variable speed drive	A more sophisticated control that allows these units to run at many			
	different speeds, rather than simply "on" or "off"			

BUSINESS SATURATION SURVEY QUESTIONNAIRE



Ameren Illinois DSM Market Potential – Saturation Questionnaire SMALL TO MEDIUM BUSINESS

DRAFT May 30th, 2012

QUALIFYING CRITERIA AND QUOTAS

Qualifying Criteria

- The respondent must be familiar with the energy-related aspects of their business's operations at that location
- Utility bills must be paid for that location

Hard Quotas

- Total: n=xxx
- Other hard quotas TBD

Soft Quotas

• TBD

Tracking Variables

- Electric Only (S3=1-3 AND S3B=5 OR 6)
- Gas Only (S3B=1-3 AND S3=4 OR 5)

RESPONDENT IDENTIFICATION / VERIFICATION

Welcome. This survey is sponsored by Ameren Illinois. [PROGRAMMER: INCLUDE AMEREN ILLINOIS LOGO]

Survey results will be collected and summarized by Definitive Insights, a market research company.

Please enter the "Survey ID#" that appears on the survey invitation postcard you received. This Survey ID# should be located just above the mailing address on the front side of your postcard.

Survey ID#: ______

We at Ameren Illinois and Definitive Insights value your privacy. We will use the information you provide for

We at Ameren Illinois and Definitive Insights value your privacy. We will use the information you provide <u>for research purposes only</u> and <u>will NOT share it with third parties for marketing purposes</u>. Information you provide will be stored in a secure database. If you have questions about our privacy practices or would like to get any other information about this study, please contact us via one of the following methods:

e-mail: <u>AmerenIllinoissurveyhelp@definitiveinsights.com</u>

phone: 1-888-742-4511

postal mail: Definitive Insights

ATTN: Ameren Illinois Project Director

601 SW Oak Street Portland, Oregon 97205

[PROGRAMMER: VERIFY VALID CODE AND READ IN ALL VARIABLES FROM SAMPLE FILE]

INTRODUCTION

Thank you for taking time to see if you and your business qualify to participate in a new research study about energy. The study is sponsored by Ameren Illinois, and it has a very important purpose. Ameren Illinois is delivering programs to help its customers use energy more efficiently. Your answers to this survey will help the company to improve these programs so that they work best for everyone.

Your business represents one of a small number of businesses that are being asked to respond to the survey. To show our appreciation for the time and effort you place into completing the survey, we will offer you a \$25 Visa card upon submitting your answers. (Note: Payment may be declined if required by your company's policies.) You will first be asked a few questions to make sure your business qualifies for participation. If you do qualify, you will then be invited to complete the full survey.

If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the URL and the Survey ID# from your survey invitation to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue, underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> <u>NOT</u> make you navigate away from the survey site.

Please click "Next" to begin.

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RESPONDENT SCREENING

- S1. Which of the following best describes your familiarity with the energy-related aspects of your business operations at **[READ IN ADDRESS FROM SAMPLE]**?
 - 1. You are very familiar with the energy-related aspects of your operations at this location
 - 2. You are **fairly familiar** with the energy-related aspects of your operations at this location
 - 3. You are <u>not very familiar</u> with the energy-related aspects of your operations at this location [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA S2]
 - 4. Don't know [REQUEST REFERRAL TO DECISION MAKER AND THEN TERMINATE VIA S2]

[IF S1=1-2, SKIP TO S3; OTHERWISE SHOW S2 AND TERMINATE WITHOUT SHOWING STANDARD TERMINATE LANGUAGE]

S2. Thank you for taking the time to see if you are eligible to participate in this survey. At this time we need responses from someone in your organization who is more familiar with the energy-related aspects of your business operations at this location.

We would appreciate it if you would provide that person with the invitation postcard you received or refer them to the following link so that they may complete this survey:

Link: [INSERT URL THAT INCLUDES SURVEY ID#]

[PROGRAMMER NOTE: IF A RESPONDENT TERMINATES VIA S2. DELETE DATA COLLECTED AND RESET SURVEY REENTRY POSITION FOR THAT SURVEY ID# BACK TO THE BEGINNING OF THE SURVEY. RECORD THE DATA DELETED FOR THAT SURVEY ID# ELSEWHERE SO WE CAN TRACK THE NUMBER OF TIMES AND REASONS RESPONDENTS DISQUALIFY AT S2 AS WELL AS THE NUMBER OF TIMES THESE PREVIOUSLY USED SURVEY ID#'S ARE REUSED. FOR ALL RESPONDENTS THAT DO NOT TERMINATE VIA S5R, DO NOT ALLOW SURVEY ID# TO BE USED AGAIN.]

{NOTE: THIS WILL ALLOW A RESPONDENT WHO DOES NOT PERSONALLY QUALIFY TO FORWARD THEIR SURVEY ID# TO A CO-WORKER WHO MAY BE BETTER QUALIFIED TO ANSWER THE SURVEY.}

- S3. Which of the following best describes how your business is billed for electricity at **[READ IN ADDRESS FROM SAMPLE]**?
 - 1. We are billed directly by Ameren Illinois for the electricity we use
 - We are <u>NOT billed directly by Ameren Illinois</u> for the electricity we use; our electric bill is handled by another part of our company or by a third party service provider (e.g., City and Village Tax Office, etc.), but ultimately, our company is responsible for the cost for our electricity
 - We are **NOT billed directly by Ameren Illinois** for the electricity we use; the cost for our electricity is **included in our rent/lease**
 - 4. We are served by another utility; not Ameren Illinois
 - Don't know
- S3b. Which of the following best describes how your business is billed for natural gas at [READ IN ADDRESS FROM SAMPLE]?
 - 1. We do not use natural gas
 - 2. We are **billed directly by Ameren Illinois** for the natural gas we use
 - 3. We are <u>NOT billed directly by Ameren Illinois</u> for the natural gas we use; our electric bill is handled by another part of our company or by a third party service provider (e.g., City and Village Tax Office), but ultimately, our company is responsible for the cost for our natural gas
 - 4. We are **NOT billed directly by Ameren Illinois** for the natural gas we use; the cost for our natural gas is **included in our rent/lease**

- 5. We are served by another utility; not Ameren Illinois
- 6. Don't know

[TERMINATE IF S3=4 or 5 AND S3B=5 or 6]

[PROGRAMMER: DISPLAY DIRECTLY BELOW S3 ON SCREEN: "PLEASE NOTE THAT ALL OF OUR <u>REMAINING</u> <u>QUESTIONS REFER SPECIFICALLY TO THE FACILITY AT THE LOCATION CITED ABOVE</u>"]

[CREATE TRACKING VARIABLE:

(S3=1-3 AND S3B=5 OR 6) = ELECTRIC ONLY (S3B=1-3 AND S3=4 OR 5) = GAS ONLY]

[IF S3=1,2 OR S3B=1,2, ASK S4; OTHERWISE TERMINATE]

S4. Does your business own or lease the building space at this location?

If you both lease some space, and own some space at this location, which accounts for the majority of the space?

- 1. Own (or in the process of buying it)
- 2. Lease / rent
- S5. Does your operation at this location occupy any enclosed space, or is it an outdoor structure or operation, such as a billboard, a parking lot, a communications tower, or the like?
 - 1. Occupies enclosed space
 - 2. Is an outdoor structure or facility [TERMINATE AFTER S6]

[IF S5=2, ASK S6 AND THEN TERMINATE; OTHERWISE SKIP TO S7]

- S6. What type of outdoor structure does your organization operate at this site?
 - 1. Billboard
 - 2. Communications / telecommunications tower or other facility
 - 3. Pump
 - 4. Parking lot
 - 5. Traffic light or other type of outdoor lighting
 - 990. Other [SPECIFY]

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- S7. Which of the following best describes the type of facility your organization occupies?
 - 1. Office (finance, insurance, real estate, law, etc.)
 - 2. Retail (department stores, services, boutiques, etc.)
 - 3. Grocery (supermarkets, convenience store, market, etc.)
 - 4. Restaurant (sit-down, fast food, coffee shop, etc.)
 - 5. Warehouse
 - 6. School (day care, pre-school, elementary, secondary)
 - 7. College, university or trade school
 - 8. Health Care (health practitioner office, hospital, urgent care center, etc.)
 - 9. Nursing home / assisted living facility / residential treatment facility
 - 10. Lodging facility (hotel, motel, bed and breakfast, etc.)
 - 11. Not-for profit housing facility (shelter, prison, jail, etc.)
 - 12. Entertainment / recreation facility (movie theater, bowling alley, health club/gym, library, museum, etc.)
 - 13. Public assembly facility (convention / conference center, etc.)
 - 14. Worship (church, temple, etc.)
 - 15. Multi-use or shopping mall (i.e., mixed use of space for offices, restaurants, stores, service, apartments, etc.)
 - 16. Manufacturing, production, or processing facility (including for-profit businesses and governmental facilities)
 - 990. Other [SPECIFY]
- S8. Which of the following best describes the activity in which your business is engaged at this location? *Please select the one option that best describes the activity.*

{NOTE TO TEAM: IF THE RESPONDENT SELECTS RESPONSE "15" ABOVE ("MIXED USE"), THEY ARE SHOWN ALL POSSIBLE OPTIONS FOR BUSINESS ACTIVITY EXCEPT HOSPITAL, WAREHOUSE, AND MANUFACTURING / PROCESSING}

<u>Traditional Office-Based Business</u> [IF S7=1 OR 15 OR 990, DISPLAY CODES 1-7]	
1. Finance	0
2. Insurance	0
4. Real estate / construction	0
5. Government	0
6. Other not-for-profit	0
7. Other office [SPECIFY]	0
<u>Retail</u> [IF S7=2 OR 15 OR 990, DISPLAY CODES 8-19]	
8. Major retail store	0
9. Department store	0
10. Small retail (boutique, store in strip mall)	0
11. Convenience store	0
12. Supermarket	0
13. Market	0
14. Laundry	0
15. Dry cleaning	0
16. Copy center	0
17. Barber / salon	0
18. Gas station / auto shop	0
19. Other retail [SPECIFY]	0
<u>Grocery</u> [IF S7=3 OR 15 OR 990, DISPLAY CODES 20-23]	
20. Supermarket	0
21. Convenience store	0

22. Market	0
23. Other grocery [SPECIFY]	0
Restaurant / Food Service [IF S7=4 OR 15 OR 990, DISPLAY CODES 24-28]	
24. Sit-down restaurant	0
25. Fast food diner	0
26. Bakery	0
27. Coffee shop	0
28. Other restaurant [SPECIFY]	0
<u>Warehouse</u> [IF S7=5 OR 990, DISPLAY CODES 29-32] 29. Refrigerated warehouse	0
	0
30. Non-refrigerated warehouse	0
31. Combination of refrigerated and non-refrigerated space	0
32. Other warehouse [SPECIFY]	
School [IF S7=6 OR 15 OR 990, DISPLAY CODES 33-36]	
33. Preschool / daycare	0
34. Elementary school	0
35. Secondary school	
36. Other pre-college [SPECIFY]	0
College, University or Trade School [IF S7=7 OR 15 OR 990, DISPLAY CODES 37-40]	
37. College	0
38. University	0
39. Trade school	0
40. Other post-secondary [SPECIFY]	0
Health Care [IF S7=8 OR 15 OR 990, DISPLAY CODES 80-84]	
85. Medical / dental office or office for other health practitioners	0
80. General medical or surgical hospital	0
81. Veterinary hospital	0
82. Other hospital [SPECIFY]	0
83. Urgent care center	0
84. Other health care facility [SPECIFY]	0
Nursing Home / Assisted Living [IF S7=9 OR 15 OR 990, DISPLAY CODES 41-44]	
41. Nursing home	0
42. Assisted living facility	0
43. Residential treatment facility	0
44. Other care facility [SPECIFY]	0
Lodging [IF S7=10 OR 15 OR 990, DISPLAY CODES 41-44]	
45. Hotel	0
46. Motel	0
47. Bed & Breakfast	0
48. Other lodging [SPECIFY]	0
Not-For-Profit Housing [IF S7=11 OR 15 OR 990, DISPLAY CODES 45-47]	
49. Shelter	0
50. Prison / jail	0
51. Other not-for-profit housing [SPECIFY]	0
Entertainment / Recreation [IF S7=12 OR 15 OR 990, DISPLAY CODES 48-54]	
52. Health club / gym	0
53. Movie theater	0
54. Theater	0
55. Library	0
56. Museum	0
57. Bowling alley	0
58. Other entertainment / recreation [SPECIFY]	0
Public Assembly [IF S7=13 OR 15 OR 990, DISPLAY CODES 55-57]	

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59. Conference / convention center	0
60. Community center	0
61. Other public assembly [SPECIFY]	0
Worship [IF S7=14 OR 15 OR 990, DISPLAY CODES 58-61]	
62. Church	0
63. Temple	0
64. Synagogue	0
65. Other worship [SPECIFY]	0
Manufacturing / Production / Processing [IF S7=16 OR 990, DISPLAY CODES 62-74]	
66. Agricultural production or farming	0
67. Chemical processing	0
68. Electronics / technology	0
69. Food / beverage production or processing	0
70. General / light assembly or manufacturing	0
71. Glass production or processing	0
72. Metals production or processing or fabricated metal work	0
73. Machinery / appliance / equipment manufacturing	0
74. Paper products processing, printing or manufacturing	0
75. Textiles / apparel production or processing	0
76. Water / wastewater treatment	0
77. Wood products manufacturing	0
78. Other manufacturing / processing [SPECIFY]	0
Something else [IF S7=15 OR 990, DISPLAY CODE 79]	
79. Something else [SPECIFY]	0

- S9. Approximately how many people are employed full-time at this location?
 - 1. Less than 5 employees
 - 2. 5 9
 - 3. 10 19
 - 4.20 49
 - 5.50 99
 - 6. 100 199
 - 7.200 299
 - 8.300 399
 - 9. 400 499
 - 10. 500 999
 - 11. 1,000 2,499
 - 12. 2,500 4,999

 - 13. 5,000 9,999
 - 14. 10,000 24,999
 - 15. 25,000 or more employees
- S10. Which of the following uses of electricity and natural gas do you pay for at this location? In other words, does your electric and/or gas bill include the cost to...? Select all that apply.
 - 1. Heat some or all of your space
 - 2. Cool some or all of your space
 - 3. Provide hot water for your use
 - 4. Provide interior lighting
 - 5. Provide exterior lighting

{NOTE TO TEAM: THESE RESPONSES WILL BE USED TO SCREEN RESPONDENTS OUT OF THE RELEVANT END USE SECTIONS BELOW; I.E., IF THEY SAY THEIR ENERGY BILL DOES NOT COVER SPACE HEATING, THEY WILL BE SKIPPED OUT OF THE SPACE HEATING SECTION}

- S11. Which of the following are present at this location? Select all that apply.
 - 1. Natural gas service
 - 2. Propane service
 - 3. Purchased steam or hot water
 - 4. Fuel oil for one or more end uses
 - 5. Electric Vehicle charging stations
 - 6. None of the above **[EXCLUSIVE]**

[IF NOT OVER-QUOTA, GO TO INVITATION LANGUAGE; OTHERWISE TERMINATE]

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TERMINATE LANGUAGE FOR NON-QUALIFYING OR OVER-QUOTA RESPONDENTS

We appreciate the time and effort you have spent in responding to our survey invitation and answering these initial questions, which were designed to see if you are eligible to participate in this research study.

In order to achieve a representative sample, quotas with specific criteria have been designated. At this point, we have reached the number of respondents we can accept from individuals with your type of experience or background. Again, we would like to thank you for your time and effort.

If you would like information on how your business can save money on energy bills, please visit us at www.actonenergy.com.

Q76. Additionally, if you would like someone from Ameren Illinois energy efficiency implementation team to contact you about further energy efficiency opportunities, please provide the appropriate contact information below:

(NOTE: All other information you have provided in this survey will continue to remain anonymous, even if you choose to be contacted. None of your prior responses will be communicated to the Ameren Illinois energy efficiency implementation team.)

1. Yes, we would like to be contacted by someone from Ameren Illinois energy efficiency implementation team. *Please supply the appropriate contact information below.*

Contact Name:_		
Business Name:		
Preferred contac	t method(s) -	- Select all that apply:
□ phone	□ e-mail	\square postal mail
Daytime phone i	number :	
E-mail address:_		
Postal address:_		

2. No, we would NOT like to be contacted

[IF Q76=1, GO TO CONTACT INFORMATION FOR AMEREN ILLINOIS VERIFICATION SCREEN; IF Q76=2, SKIP TO GOOD-BYE SCREEN]

INVITATION LANGUAGE FOR QUALIFYING RESPONDENTS

Thank you for your responses so far. You and your business have qualified to complete this survey. As we indicated earlier, only a limited number of individuals will be able to complete this survey, so we appreciate your time in filling out the survey as completely as possible.

The survey should take about 20 minutes to complete. Once you complete the survey you will be eligible to receive our \$25 thank you payment. Information about how to receive the payment will be provided at the end of the survey.

Your responses are important to us, so please press "Next" to begin answering the survey questions. All information provided in this survey will be kept strictly confidential, and at no time will you be asked to purchase anything.

If you need to pause the survey at any time, you can come back later and begin again where you left off. Simply save the personalized URL to access your survey again. The survey will automatically take you to the point where you left off.

Please note: any word or phrase that appears in <u>blue</u>, <u>underlined font</u> will have a hyperlinked definition that popsup in a separate browser window when you click on that word or phrase. Clicking on any of these hyperlinks <u>will</u> NOT make you navigate away from the survey site.

As you complete the survey, you will **not** be able to use your browser's "back" button. If you mistakenly press your browser's "back" button, you will need to press the "refresh" button to continue the survey.

BUILDING TYPE – BUSINESS-USE AREA

[PROGRAMMER NOTE: THROUGHOUT THIS SURVEY, WORDS OR PHRASES WITH BLUE, UNDERLINED FONT WILL HAVE HYPERLINKED DEFINITIONS THAT POP-UP WHEN THE RESPONDENT CLICKS ON THE WORD OR PHRASE. HYPERLINKED DEFINITIONS ARE PROVIDED AT THE END OF THIS DOCUMENT.]

The first several questions are about the building areas, your company uses or occupies at **[READ IN ADDRESS FROM SAMPLE]**.

Q1. Approximately when was the facility your business uses at this location constructed?

If your business is located in several buildings across a campus/complex, please estimate the average year across all buildings.

- 1. Before 1900
- 2. 1900-1919
- 3. 1920-1929
- 4. 1930-1939
- 5. 1940-1949
- 6. 1950-1959
- 7. 1960-1969
- 8. 1970-1979
- 9. 1980-1989
- 10. 1990-1999
- 11. 2000-200912. 2010-present
- 13. Not sure
- Q2. How many years has your business occupied this facility?

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- 1. Less than 1 year
- 2. 1-2 years
- 3. 3-4 years
- 4. 5-9 years
- 5. 10-19 years
- 6. 20 years or more
- Q3. Has this facility been renovated or undergone tenant improvements in the last 5 years?
 - 1. Yes
 - 2. No
 - 3. Not sure

[IF Q3=1, ASK Q4; OTHERWISE SKIP TO Q5]

- Q4. When did these improvements take place?
 - 1. 2007
 - 2. 2008
 - 3. 2009
 - 4. 2010
 - 5. 2011
 - 6. 2012
- Q5. Does your business operate at this location continuously all year, or is it shut down for a portion of the year?
 - 1. Operate continuously all year long
 - 2. Shut down for part of the year

[IF Q5=2, ASK Q6; OTHERWISE SKIP TO Q7]

Q6. During which months of the year is your operation at this location SHUT DOWN? Select all that apply.

		Months when operation is SHUT DOWN
1.	January	
2.	February	
3.	March	
4.	April	
5.	May	
6.	June	
7.	July	
8.	August	
9.	September	
10.	October	
11.	November	
12.	December	

Q6A. During what percentage of each of these months is your operation at this location SHUT DOWN?

For example, if you're open for half of July, enter 50%.

Your best estimate is fine.

[DISPLAY ONLY ITEMS SELECTED AT Q6;	% of month during which	
AUTOCODE NON-SELECTED ITEMS AS 0%]	operation is SHUT DOWN	
1. January	[RECORD NUMBER 1-100]%	
2. February	[RECORD NUMBER 1-100]%	
3. March	[RECORD NUMBER 1-100]%	
4. April	[RECORD NUMBER 1-100]%	
5. May	[RECORD NUMBER 1-100]%	
6. June	[RECORD NUMBER 1-100]%	
7. July	[RECORD NUMBER 1-100]%	
8. August	[RECORD NUMBER 1-100]%	
9. September	[RECORD NUMBER 1-100]%	
10. October	[RECORD NUMBER 1-100]%	
11. November	[RECORD NUMBER 1-100]%	
12. December	[RECORD NUMBER 1-100]%	

[AT LEAST ONE MUST BE <100% TO MOVE TO NEXT SCREEN]

Q7. During the times of year that this building is in use, which <u>days of the week</u> is it OPEN? *Select all that apply.*

By "open," we are referring to times when any employees are present / working.

	•
	Days OPEN
1. Monday	
2. Tuesday	
3. Wednesday	
4. Thursday	
5. Friday	
6. Saturday	
7. Sunday	
	[CALCULATE TOTAL
TOT. Total number of days open per week	ASSUMING THAT EACH
	SELECTION EQUALS 1]

[IF Q7TOT<5, ASK Q7A; OTHERWISE SKIP TO FILTER BEFORE Q8]

Q7A. You indicated that this building is open for fewer than 5 days per week. Is this what you intended?

- 1. Yes, this building is open for fewer than 5 days per week
- 2. No, this is not what I intended

[IF Q7A=2, SKIP BACK TO Q7]

[IF Q7TOT>=5 OR Q7A=1, ASK Q8; OTHERWISE SKIP BACK TO Q7]

Q8. During which hours does your facility operate on each day it is open?

[SHOW THE FOLLOWING OPTIONS IN THE DROP DOWN MENUS USED IN THE TABLE BELOW: N/A – open 24 hours; Midnight; 1 a.m.; 2 a.m.; 3 a.m.; 4 a.m.; 5 a.m.; 6 a.m.;

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7 a.m.; 8 a.m.; 9 a.m.; 10 a.m.; 11 a.m.; Noon; 1 p.m.; 2 p.m.; 3 p.m.; 4 p.m.; 5 p.m.; 6 p.m.; 7 p.m.; 8 p.m.; 9 p.m.; 10 p.m.; 11 p.m.]

	A. Opening Hour	B. Closing Hour
[IF Q7_1=1]	[DISPLAY DROP	[IF Q8A_1="N/A - open 24 hours",
1. Monday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
☐ Check this box i	f your Tuesday – Friday h	ours are the same as Monday.
[IF CHECKED, AUT	OFILL TUESDAY-FRIDAY W	VITH THE RESPONSES FROM Q8_1A
AND Q8_1B]		
[IF Q7_2=1]	[DISPLAY DROP	[IF Q8A_2="N/A – open 24 hours",
2. Tuesday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
[IF Q7_3=1]	[DISPLAY DROP	[IF Q8A_3="N/A – open 24 hours",
3. Wednesday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
[IF Q7_4=1]	[DISPLAY DROP	[IF Q8A_4="N/A – open 24 hours",
4. Thursday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
[IF Q7_5=1]	[DISPLAY DROP	[IF Q8A_5="N/A – open 24 hours",
5. Friday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
[IF Q7_6=1]	[DISPLAY DROP	[IF Q8A_6="N/A - open 24 hours",
6. Saturday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]
[IF Q7_7=1]	[DISPLAY DROP	[IF Q8A_7="N/A - open 24 hours",
7. Sunday	DOWN MENU]	DO NOT DISPLAY DROP DOWN
		MENU]

[IF THERE ARE ANY Q8 ROWS IN WHICH COLUMN A EQUALS COLUMN B, ASK Q8AA; OTHERWISE SKIP TO Q9]

Q8AA. For one or more days you are open, you selected a closing hour that is earlier than an opening hour (e.g., Opening Hour = 11a.m., Closing Hour = 2 a.m.)

To make sure this is what you intended, please answer the following questions.

	Yes	No
[DISPLAY IF Q8_1B <q8_1a]< td=""><td></td><td></td></q8_1a]<>		
1. Is it correct that you are open from Monday at [INSERT Q8_1A	0	0
RESPONSE] to <u>Tuesday</u> at [INSERT Q8_1B RESPONSE]?		
[DISPLAY IF Q8_2B <q8_2a]< td=""><td></td><td></td></q8_2a]<>		
2. Is it correct that you are open from Tuesday at [INSERT Q8_2A	0	0
RESPONSE] to Wednesday at [INSERT Q8_2B RESPONSE]?		
[DISPLAY IF Q8_3B <q8_3a]< td=""><td></td><td></td></q8_3a]<>		
3. Is it correct that you are open from Wednesday at [INSERT Q8_3A	0	0
RESPONSE] to Thursday at [INSERT Q8_3B RESPONSE]?		
[DISPLAY IF Q8_4B <q8_4a]< td=""><td></td><td></td></q8_4a]<>		
4. Is it correct that you are open from Thursday at [INSERT Q8_4A	0	0
RESPONSE] to Friday at [INSERT Q8_4B RESPONSE]?		
[DISPLAY IF Q8_5B <q8_5a]< td=""><td></td><td></td></q8_5a]<>		
5. Is it correct that you are open from Friday at [INSERT Q8_5A	0	0
RESPONSE] to Saturday at [INSERT Q8_5B RESPONSE]?		
[DISPLAY IF Q8_6B <q8_6a]< td=""><td>0</td><td>0</td></q8_6a]<>	0	0

6. Is it correct that you are open from Saturday at [INSERT Q8_6A		
RESPONSE] to Sunday at [INSERT Q8_6B RESPONSE]?		
[DISPLAY IF Q8_7B <q8_7a]< th=""><th></th><th></th></q8_7a]<>		
7. Is it correct that you are open from Sunday at [INSERT Q8_7A	0	0
RESPONSE] to Monday at [INSERT Q8_7B RESPONSE]?		

[IF ANY Q8AA_1 THROUGH Q8AA_7 = "NO", SKIP BACK TO Q8]

Q9. What is the approximate total square footage that your business occupies at this location?

Please give your best estimate, including only indoor or enclosed space. If your business shares the space with other companies / organizations, only list the space your business uses. If your business occupies several floors or buildings, add the square footage together.

Please enter a whole number rather than a range of numbers.

- 1. [RECORD NUMBER] square feet
- 2. Not sure

[IF Q9_1=0+, ASK Q9A IN ORDER TO VALIDATE Q9_1 RESPONSE; OTHERWISE SKIP TO Q10]

Q9A. You said the approximate total square footage that your business occupies at this location is...

[INSERT Q9_1 RESPONSE, USING COMMAS] square feet

Is this what you intended?

- 1. Yes
- 0. No, I would like to edit my response

[IF Q9A=1, CONTINUE TO NEXT FILTER; OTHERWISE SKIP BACK TO Q9]

[IF Q9_2=1, ASK Q10; OTHERWISE SKIP TO Q11]

Q10. We understand you aren't sure, so using the ranges listed below, please just choose the best estimate of the total square footage of your business at this location.

Please give your best estimate, including only indoor or enclosed space. If your business shares the space with other companies / organizations, only list the space your business uses. If your business occupies several floors or buildings, add the square footage together.

- 1. Less than 1,000 sq. ft.
- 2. 1,000 4,999
- 3.5,000 9,999
- 4. 10,000 14,999
- 5. 15,000 24,999
- 6. 25,000 49,999
- 7. 50,000 99,999
- 8. 100,000 499,999
- 9. 500,000 999,999
- 10. 1 million sq. ft. or more

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Q11. What percentage of the total enclosed floorspace your business occupies in at this location can be characterized by each of the following area descriptions?

Your best estimate is fine, but please enter whole numbers that will add up to 100%.

Area description	% of total enclosed
[SET DEFAULT RESPONSE AT O]	floorspace
1. Office	[RECORD NUM 0-100]%
2. Data center / computer room	[RECORD NUM 0-100]%
3. Food preparation, food service or food sales (e.g.,	
kitchen, cafeteria, restaurant, coffee shop, convenience store, supermarket, market, etc.)	[RECORD NUM 0-100]%
4. Retail (e.g., mall, department store, small retail/boutique etc.)	[RECORD NUM 0-100]%
5. Common areas (e.g., lobby, hallway, meeting room, auditorium, library, bathroom, workout area, worship area, etc.)	[RECORD NUM 0-100]%
6. Lodging (e.g., sleeping quarters, hotel room, bedroom in nursing home, etc.)	[RECORD NUM 0-100]%
7. Laboratory	[RECORD NUM 0-100]%
8. Warehouse/storage area	[RECORD NUM 0-100]%
9. Laundry facilities	[RECORD NUM 0-100]%
10. Health services (e.g., hospital, doctor's office, etc.)	[RECORD NUM 0-100]%
11. Manufacturing / processing / production	[RECORD NUM 0-100]%
990. Other [SPECIFY ONE AREA]	[RECORD NUM 0-100]%
991. Other [SPECIFY ONE AREA]	[RECORD NUM 0-100]%
992. Other [SPECIFY ONE AREA]	[RECORD NUM 0-100]%
TOT. Total	[CALCULATE TOTAL]%

[PROGRAMMER: Q11TOT MUST EQUAL 100 IN ORDER TO CONTINUE TO NEXT SCREEN]

I – BUILDING TYPE – ENTIRE BUILDING AREA

The following questions refer to the **total** building that your organization occupies, or uses, at this location, even if you only occupy a portion of the building.

Q12. How many floors are in the entire building? Your best estimate is fine, but please enter a whole number rather than a range of numbers.

If your business is located in several buildings across a campus/complex, enter the total number of floors across all the buildings.

[RECORD NUMBER 1-100] floors

Q13. What percent of the total space in the building does your organization occupy?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER 1-100]%

[IF Q13<100, ASK Q13A; OTHERWISE SKIP TO Q14]

Q13A. Approximately what percentage of the remaining space in the building is used for the following types of other business activities? *If you are not sure, please provide your best estimate.*

Please enter whole numbers that will add up to 100%

Business Activity	Percentage of space
1. Office space	[RECORD NUMBER 0-100]%
2. Restaurant(s)	[RECORD NUMBER 0-100]%
3. Retail	[RECORD NUMBER 0-100]%
4. Service	[RECORD NUMBER 0-100]%
5. Manufacturing	[RECORD NUMBER 0-100]%
6. Entertainment	[RECORD NUMBER 0-100]%
7. Lodging	[RECORD NUMBER 0-100]%
8. Health	[RECORD NUMBER 0-100]%
9. Education	[RECORD NUMBER 0-100]%
10. Warehouse	[RECORD NUMBER 0-100]%
11. Other [SPECIFY]	[RECORD NUMBER 0-100]%
TOT. Total	[CALCULATE TOTAL]%

[PROGRAMMER: Q13ATOT MUST EQUAL 100 IN ORDER TO CONTINUE TO NEXT SCREEN]

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Q14. Approximately what percentage of the entire building exterior wall area is covered in glass and/or "windowed"?

If your business is located in several buildings across a campus/complex, please approximate the total percentage across all buildings.

Your best estimate is fine.

% of entire building exterior wall area covered in glass and/or "windowed"	Example images	
1. Less than 10%		0
2. 11-25%		0
3. 26-50%		0
4. 51-75%		0
5. More than 75%		0

Q15. Of all the windows located on the exterior walls of your building, about what percentage are <u>single pane</u> <u>windows</u>, and what percentage are <u>double pane windows or better</u>?

Your best estimate is fine, but please enter whole numbers that will add up to 100%.

Note: Click on hyperlinked text to view a definition of a term or phrase that pops up in a separate window. Clicking on these hyperlinked terms or phrases will NOT make you navigate away from the survey site.

Window Type	% of all exterior windows
1. Single pane windows (windows with just 1 layer of glass)	[RECORD NUMBER 0-100]%
Double pane windows or better (windows with 2 or more layers of glass)	[RECORD NUMBER 0-100]%
3. Not sure [EXCLUSIVE]	
TOT. Total	[CALCULATE Q15_1 + Q15_2]%

[PROGRAMMER: Q15TOT MUST EQUAL 100, OR Q15_3 MUST BE SELECTED ("DON'T KNOW") IN ORDER TO CONTINUE TO NEXT SCREEN]

Q16. What percentage of these windows is tinted? Your best estimate is fine.

If your business is located in several buildings across a campus/complex, please approximate the total percentage across all buildings.

- 1. Less than 10%
- 2. 11-25%
- 3. 26-50%
- 4. 51-75%
- 5. More than 75%
- Q16a. Other than windows, what type of surface covers the exterior walls of the building?

If more than one type of surface covers the exterior of the building(s), please select the surface type that covers the largest portion of your exterior walls.

- 1. Brick
- 2. Concrete
- 3. Stucco
- 4. Masonry
- 5. Glass curtain / spandrel
- 6. Wood
- 7. Metal
- 8. Other [PLEASE SPECIFY]

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Q16b. How would you characterize the insulation level of the exterior walls of the building(s)?

If the level of insulation varies within or between the buildings at your business's location, please answer for the building that has the largest amount of occupied floorspace.

- 1. High level of insulation
- 2. **Medium** level of insulation
- 3. **Low** level of insulation
- 4. No insulation
- 5. Not sure

Q17. Which of the following best describes the building roof?

If more than one description applies, please select the option that accounts for the majority of the roof(s).

- 1. Steep
- 2. Moderately slanted
- 3. Flat
- 4. Not sure

Q18. Which of the following best describes the color of the building roof?

If more than one description applies, please select the option that accounts for the majority of the roof(s).

- 1. Dark
- 2. Medium-dark
- 3. White or light
- 4. "Green roof" (partially or completely covered with vegetation and soil)
- 5. Not sure

HEATING AND COOLING

The next group of questions focuses on the way that your space at this location is heated and/or cooled.

[IF S10=1, ASK Q19; OTHERWISE SKIP TO FILTER BEFORE Q26]

Q19. Approximately what percentage of the space your business occupies, or uses, at this location is <u>heated</u>?

- 1. None
- 2. Less than 10%
- 3. 10-20%
- 4. 21-30%
- 5. 31-40%
- 6. 41-50%
- 7. 51-60%
- 8. 61-70%
- 9. 71-80%
- 10. 81-90%
- 11. More than 90%

[IF Q19=2-11, ASK Q21; OTHERWISE SKIP TO FILTER BEFORE Q26]

Q21. What type of space heating system is used as a means of heating your space? [ONLY ONE TYPE CAN BE SELECTED IN EACH COLUMN]

	Heating Equipment	Primary	Secondary
1.	Natural gas warm air furnace with ducts/vents to individual rooms	тм	тм
2.	Electric warm air furnace with ducts/vents to individual rooms	тм	тм
3.	Natural gas boiler with hot water/steam radiators or baseboards in individual rooms	тм	тм
4.	Electric boiler with hot water/steam radiators or baseboards in individual rooms	тм	тм
5.	Electric baseboard or electric coils radiant heating (no supply ducts or water/steam pipes)	тм	тм
6.	Air-source heat pump	тм	тм
7.	Geothermal heat pump	тм	тм
8.	Natural gas unit heater or wall furnace	тм	тм
9.	Electric unit heater or wall furnace	тм	тм

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10.	None	тм	TM
999.	Not sure	тм	TM
990.	Other (please specify)	тм	TM

[IF Q21 PRIMARY AND Q21 SECONDARY BOTH EQUAL 11 OR 999, SKIP TO FILTER BEFORE Q26, OTHERWISE ASK Q22]

Q22. When was your primary space heating equipment installed?

Your best estimate is fine.

- 1. Before 1960
- 2. 1961-1970
- 3. 1971-1980
- 4. 1981-1990
- 5. 1991-1995
- 6. 1996-2000
- 7. 2001-2003
- 8. 2004-2006
- 9. 2007-2009
- 10. 2010-present
- Q22b. Which of the following best describes how your system is maintained?
 - 1. Regularly each month
 - 2. Regularly each season / quarter
 - 3. Regularly each year
 - 4. As needed
 - 5. Not sure

[ASK IF ANY 1-10 OR 990 AT Q21=SECONDARY, IF 11-999 AT Q21=SECONDARY, SKIP TO Q26]

- Q23. What percentage of your total business space is heated with a supplemental heating system?
 - 1. None
 - 2. Less than 10%
 - 3. 11-25%
 - 4. 26-50%
 - 5. 51-75%
 - 6. More than 75%
- Q25. When was your supplemental heating system installed? Your best estimate is fine.
- 1. Before 1990
- 2. 1990-1995
- 3. 1996-2000
- 4. 2001-2003
- 5. 2004-2006
- 6. 2007-2009
- 7. 2010- present

[IF S10=2, ASK Q26; OTHERWISE SKIP TO FILTER BEFORE Q33]

- Q26. Approximately what percentage of the space your business occupies, or uses, at this location is cooled?
 - 1. None
 - 2. Less than 10%
 - 3. 10-20%
 - 4. 21-30%
 - 5. 31-40%
 - 6. 41-50%
 - 7. 51-60%
 - 8. 61-70%
 - 9. 71-80%
 - 10. 81-90%
 - 11. More than 90%

[IF Q26=2-11, ASK Q27; OTHERWISE SKIP TO FILTER BEFORE Q33]

Q27. What type of cooling system is your primary means to cool your space? [ONLY ONE TYPE CAN BE SELECTED IN EACH COLUMN]

	Cooling Equipment	Primary	Secondary
1.	Air cooled chiller	0	0
2.	Water cooled chiller	0	0
3.	Central air conditioner	0	0
4.	Packaged rooftop air conditioner units	0	0
5.	Floor-by-floor packaged water cooled DX (Direct Expansion) units		
6.	Wall or window air conditioner units	0	0
7.	Air-source heat pump	0	0
8.	Geothermal heat pump	0	0
9.	None	0	0
999.	Not sure	0	0
990.	Other (please specify)	0	0

[IF Q27=1 OR 2, ASK Q28; OTHERWISE SKIP TO Q29]

- Q28. What type of chiller does your facility use?
 - 1. Centrifugal
 - 2. Reciprocating
 - 3. Rotary
 - 4. Scroll
 - 5. <u>Screw</u>
 - 6. Absorption, hot water
 - 7. Absorption, steam
 - 8. Absorption, natural gas
 - 9. Chiller, steam-driven turbine
 - 10. Other [SPECIFY]
 - 11. Not sure

[IF Q21_7 = Primary and Q27_7 NE Primary or Secondary] or [If Q21_8 = Primary and Q21_8 NE Primary or Secondary] ASK Q29; OTHERWISE SKIP TO Q21]

Q29. You indicated that you use a heat pump to heat your space in the winter, but do not use it to cool your space in the summer. For verification purposes, please select your primary heating and cooling system.

Q29A. Heating Equipment [Show any for which Q21=Primary or Secondary]	Q29B. Cooling Equipment [Show any for which Q27=Primary or Secondary]	
Electric packaged unit(s)/ Roof-top unit(s)	Air cooled chiller	
Electric central warm air furnace with ducts/vents to individual rooms	Water cooled chiller	
Natural gas central warm air furnace with ducts/vents to individual rooms	Central air conditioner	
Electric central boiler with hot water/steam radiators or baseboards in individual rooms	Packaged air conditioner units	
Natural gas central boiler	Floor-by-floor packaged water cooled DX (Direct Expansion) units	
Electric baseboard or electric coils radiant heating	Wall or window air conditioner units	
Air-source heat pump	Air-source heat pump	
Geothermal heat pump	Geothermal heat pump	
Wall furnace(s)	None	
Unit heater(s)	Not sure	
None	Other	
Not sure		
Other		

- Q30. When was your primary cooling system installed? Your best estimate is fine.
 - 1. Before 1980
 - 2. 1980-1989
 - 3. 1990-1994
 - 4. 1995-2000
 - 5. 2001-2003
 - 6. 2004-2006
 - 7. 2007-2009
 - 8. 2010-present
- Q30a. Which of the following best describes how your system is maintained?
 - 1. Regularly each month
 - 2. Regularly each season / quarter
 - 3. Regularly each year
 - 4. As needed
 - 5. Not sure

[ASK IF ANY 1-8 OR 990 AT Q27=SECONDARY, IF 9-999 AT Q27=SECONDARY, SKIP TO Q33]

- Q31. What percentage of your total business space is cooled with a supplemental cooling system?
 - 1. None
 - 2. Less than 10%
 - 3. 11-25%
 - 4. 26-50%

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- 5. 51-75%
- 6. More than 75%
- Q32. When was the supplemental cooling system installed? Your best estimate is fine.
 - 1. Before 1980
 - 2. 1980-1989
 - 3. 1990-1994
 - 4. 1995-2000
 - 5. 2001-2003
 - 6. 2004-2006
 - 7. 2007-2009
 - 8. 2010-present

[IF Q19=2-11 OR Q26=2-11, ASK Q33; OTHERWISE SKIP TO FILTER BEFORE Q36]

- Q33. What type of temperature control is <u>primarily</u> used in your heating and/or cooling system(s)?
 - 1. Manual thermostat
 - 2. Programmable thermostat
 - 3. Energy management system
 - 4. Always on
 - 5. Manual on/off
 - 6. Time clock
 - 7. None of the above

[IF Q26=2-11 AND Q33=1-6, ASK Q34; OTHERWISE SKIP TO FILTER BEFORE Q35]

Q34. For each of the times listed below, what is the typical <u>cooling</u> temperature for the thermostat in **summer** (June through August)?

Please select a range from each drop down menu.

[PROGRAMMER: PLACE DROP DOWN MENU TO INCLUDE THE FOLLOWING OPTIONS: 1=Less than 60°F; 2=60-64°F; 3=65-69°F; 4=70-74°F; 5=75-78°F; and 6=79°F or higher]

1.	Day	[DROP DOWN MENU]
2.	Night	[DROP DOWN MENU]

[IF Q19=2-11 AND Q33=1-6, ASK Q35; OTHERWISE SKIP TO FILTER BEFORE Q36]

Q35. For each of the times listed below, what is the typical <u>heating</u> temperature for the thermostat in **winter** (December through February)?

Please select a range from each drop down menu.

[PROGRAMMER: PLACE DROP DOWN MENU TO INCLUDE THE FOLLOWING OPTIONS: 1=Less than 60°F; 2=60-64°F; 3=65-69°F; 4=70-74°F; 5=75-78°F; and 6=79°F or higher]

1.	Day	[DROP DOWN MENU]
2.	Night	[DROP DOWN MENU]

[IF S10=3, ASK Q36; OTHERWISE SKIP TO FILTER BEFORE Q41]

The next few questions focus on any water heating used by your business.

Q36. What type of water heater does your business use? If more than one type of water heater, indicate the one that is used most often.

- 1. None
- 2. Hot water either purchased or provided by building to tenants
- 3. Self-contained or stand-alone storage water heater/boiler
- 4. Central boiler
- 5. Tankless (instantaneous) water heater
- 6. Heat pump water heater
- 7. Heat recovery water heater
- 8. Domestic-type water heater
- 9. Other [SPECIFY]
- 10. Not sure

[IF Q36=2-9, ASK Q37; OTHERWISE SKIP TO FILTER BEFORE Q41]

Q37. How many water heater units do you have?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER 1-100]

[IF Q36=2-4 OR 6-9, ASK Q38; OTHERWISE SKIP TO Q39]

Q38. What is the [IF Q37>1, DISPLAY, "average"] tank size of these water heater unit(s)? Your best estimate is fine.

- 1. Less than 30 gallons
- 2. 30-54 gallons
- 3. 55-69 gallons
- 4. 70-89 gallons
- 5. 90-119 gallons
- 6. 120-150 gallons
- 7. More than 150 gallons
- 8. Not sure

Q39. What type of fuel is used by the water heater(s)?

- 1. Natural gas
- 2. Electricity
- 3. Steam
- 4. Other [SPECIFY]
- 5. Not sure
- Q40. On average, when were the water heaters installed? Your best estimate is fine.
 - 1. Before 1980
 - 2. 1980-1989
 - 3. 1990-1994
 - 4. 1995-2000
 - 5. 2001-2003
 - 6. 2004-2006
 - 7. 2007-2009
 - 8. 2010-present
 - 9. Not sure

LIGHTING

[DISPLAY IF S10=4 OR 5; OTHERWISE SKIP TO "Office and Other Equipment" INTRO TEXT]

The next few questions focus on the lighting used in your business's building(s).

[IF S10=4, ASK Q41; OTHERWISE SKIP TO FILTER BEFORE Q44]

Q41. How many of each of the following types of lamps / fixtures are used in the <u>interior</u> of the building(s) at your business, considering only the areas your business occupies?

Your best estimate is fine, but please enter a whole number for <u>each</u> type of lamp / fixture.

Lamp/fixture type	Example Images	Number of <u>interior</u> lamps / fixtures
1. Fluorescent (circuline type, U-type, etc.)		[RECORD NUM 0-9999]
2. <u>Incandescent</u>		[RECORD NUM 0-9999]
3. Compact fluorescent		[RECORD NUM 0-9999]
4. <u>LFD</u>		[RECORD NUM 0-9999]
5. Mercury vapor		[RECORD NUM 0-9999]
6. Metal halide – standard		[RECORD NUM 0-9999]

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7. Metal halide – Pulse start		[RECORD NUM 0-9999]
8. High pressure sodium		[RECORD NUM 0-9999]
9. Low pressure sodium	Commence of the second	[RECORD NUM 0-9999]
10. <u>Neon</u>	OPEN	[RECORD NUM 0-9999]
11. Self / battery powered exit signs	EXIT	[RECORD NUM 0-9999]
12. Quartz / halogen		[RECORD NUM 0-9999]
13. Induction		[RECORD NUM 0-9999]
14. Other [SPECIFY]		[RECORD NUM 0-9999]
TOT. Total number of lamps / fixtures		[CALCULATE TOTAL]

Q41a/b. Of the <u>interior</u> lamps/fixtures that you have, what percentage are on during business and non-business hours?

[ONLY DISPLAY RESPONSE OPTIONS >0 AT Q41A]

[ONLY DISPLAY RESPONSE OPTIONS >0	Number that you	Q41a. % on during	Q41b. % on during
Lamp/fixture type	have	business hours	non-business
			hours
1. Fluorescent (standard type,	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
circuline type, U-type, etc.)	RESPONSE]	100]%	100]%
2. <u>Incandescent</u>	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
3. Compact fluorescent	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
4. Mercury vapor	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
5. Metal halide – standard	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
6. Metal halide – Pulse start	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
7. High pressure sodium	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
8. <u>Low pressure sodium</u>	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
9. Neon	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
10. <u>LED</u>	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
11. Self / battery powered exit signs	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
12. Quartz / halogen	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
13. <u>Induction</u>	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%
14. Other [SPECIFY]	[DISPLAY Q41A	[RECORD % 0-	[RECORD % 0-
	RESPONSE]	100]%	100]%

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[IF Q41a_1 > 0, ASK Q42a; OTHERWISE SKIP TO Q43]

Q42a. What percentage of all the <u>interior</u> fluorescent lamps your business uses can be described as each of the following types?

Your best estimate is fine, but please enter whole numbers that will add up to 100%.

	[SET DEFAULT RESPONSE AT 0]	% of all <u>fluorescent</u> lamps / fixtures used
1.	<u>T-12</u>	[RECORD NUM 0-100]%
2.	<u>T-8</u>	[RECORD NUM 0-100]%
3.	Super T-8	[RECORD NUM 0-100]%
4.	<u>T-5</u>	[RECORD NUM 0-100]%
5.	<u>LED</u>	[RECORD NUM 0-100]%
6.	Other [SPECIFY]	[RECORD NUM 0-100]%
TOT.	Total	[CALCULATE TOTAL]%

[PROGRAMMER: Q42ATOT MUST EQUAL 100 IN ORDER TO CONTINUE TO NEXT SCREEN] [IF Q42A_1> 0, ASK Q42B. OTHERWISE SKIP TO Q43]

Q42B. Approximately how many T-12 lamps do you still have in inventory? *Your best estimate is fine*. **[RECORD NUMBER 1-10,000]** T-12 lamps

- Q43. Which of the following types of lighting controls are primarily used to control your <u>interior</u> lighting? *Select all that apply.*
 - 1. Manual circuit breaker
 - 2. Manual single switch
 - 3. Manual bi-level (dual) switch
 - 4. Occupancy sensor
 - 5. Timers / Time clock
 - 6. Photocell
 - 8. <u>Daylighting sensor</u>
 - 9. Energy management system
 - 990. Other [SPECIFY]
 - 998. Not sure

[IF S10=5, ASK Q44; OTHERWISE SKIP TO INTRO TEXT BEFORE Q47]

Q44. Thinking about the exterior lighting that you pay for in your electric bill, how many of each of the following types of lamps / fixtures are used on the **exterior** of your business's building(s)?

Your best estimate is fine, but please enter a whole number for <u>each</u> type of lamp / fixture.

Lamp/fixture type	Example Images	Number of exterior lamps / fixtures	Q44a. % on during business hours	Q44b. % on during non- business hours
1. Fluorescent (standard type, circuline type, U-type, etc.)		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
2. <u>Incandescent</u>		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
3. Compact fluorescent		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
4. Mercury vapor		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
5. Metal halide – standard		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
6. Metal halide – Pulse start		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
7. High pressure sodium		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
8. Low pressure sodium	(C.)	[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%

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9. Neon	OPEN	[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
10. <u>LED</u>		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
11. Self / battery powered exit signs	EXIT.	[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
12. Quartz / halogen		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
13. <u>Induction</u>		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
14. Other [SPECIFY]		[RECORD NUM 0-9999]	[RECORD % 0- 100]%	[RECORD % 0- 100]%
TOT. Total number of lamps / fixtures		[CALCULATE TOTAL]		

Q45. DELETED

Q46. Which of the following types of lighting controls is primarily used to control your <u>exterior</u> lighting?

- 1. Manual circuit breaker
- 2. Manual single switch
- 3. Manual bi-level (dual) switch
- 4. Occupancy sensor
- 5. Timers / Time clock
- 6. Photocell
- 8. <u>Daylighting sensor</u>
- 9. <u>Energy management system</u>
- 990. Other [SPECIFY]
- 998. Not sure

OFFICE AND OTHER EQUIPMENT

Now we would like to ask you some questions about some facilities and equipment your business may operate.

Q47. How many units of the following computing or office equipment can be found within your business space?

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

Office Equipment type	Number
1. Server	[RECORD NUMBER 0-500]
2. Personal computer	[RECORD NUMBER 0-500]
3. Laptop/Netbook computer	[RECORD NUMBER 0-500]
4. Tablet computer	[RECORD NUMBER 0-500]
5. Monitor	[RECORD NUMBER 0-500]
6. Printer/Copier	[RECORD NUMBER 0-500]
7. Scanner	[RECORD NUMBER 0-500]
8. Fax machine	[RECORD NUMBER 0-500]
9. All-in-one fax/copy/scanner machine	[RECORD NUMBER 0-500]
10. Point of sale terminals (POS)	[RECORD NUMBER 0-500]
11. Projector	[RECORD NUMBER 0-500]

[IF Q11_3>0, ASK Q48; OTHERWISE SKIP TO FILTER BEFORE Q52]

The following questions focus on your kitchen, food preparation, and/or food storage or sales facilities.

Q48. What size kitchen, if any, is used for food preparation in your facility?

- 1. None
- 2. Small kitchenette
- 3. Residential-scale kitchen
- 4. Commercial-scale kitchen
- 5. Institution-scale kitchen (in larger hospitals, universities)

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[IF Q48=2-5, ASK Q49; OTHERWISE SKIP TO FILTER BEFORE Q52]

Q49. How many of the following units can be found in your kitchen / food preparation / food storage and/or sales area(s)?

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

Kitchen Equipment type	Number
1. Broiler, electric	[RECORD NUMBER 0-100]
2. Broiler, gas	[RECORD NUMBER 0-100]
3. Infrared broiler, electric	[RECORD NUMBER 0-100]
4. Infrared broiler, gas	[RECORD NUMBER 0-100]
5. Fryer, electric	[RECORD NUMBER 0-100]
6. Fryer, gas	[RECORD NUMBER 0-100]
7. Griddle/grill, electric	[RECORD NUMBER 0-100]
8. Griddle/grill, gas	[RECORD NUMBER 0-100]
9. General oven, electric	[RECORD NUMBER 0-100]
10. General oven, gas	[RECORD NUMBER 0-100]
11. Baking oven, electric	[RECORD NUMBER 0-100]
12. Baking oven, gas	[RECORD NUMBER 0-100]
13. Combination oven, electric	[RECORD NUMBER 0-100]
14. Combination oven, gas	[RECORD NUMBER 0-100]
15. Convection oven, electric	[RECORD NUMBER 0-100]
16. Convection oven, gas	[RECORD NUMBER 0-100]
17. Conveyor oven, electric	[RECORD NUMBER 0-100]
18. Conveyor, gas	[RECORD NUMBER 0-100]
19. Pasta cooker, electric	[RECORD NUMBER 0-100]
20. Pasta cooker, gas	[RECORD NUMBER 0-100]
21. Infrared rotisserie oven, electric	[RECORD NUMBER 0-100]
22. Infrared rotisserie oven, gas	[RECORD NUMBER 0-100]
23. Infrared salamander broiler, electric	[RECORD NUMBER 0-100]
24. Infrared salamander broiler,	[RECORD NUMBER 0-100]
gas	[NECOND NOMBER O 100]
25. Range top, electric	[RECORD NUMBER 0-100]
26. Range top, gas	[RECORD NUMBER 0-100]
27. Dishwasher, electric	[RECORD NUMBER 0-100]
28. Dishwasher, gas	[RECORD NUMBER 0-100]
29. Refrigerator, units	[RECORD NUMBER 0-100]
30. Freezer, units	[RECORD NUMBER 0-100]
31. Refrigerator, walk-in	[RECORD NUMBER 0-100]
32. Freezer, walk-in	[RECORD NUMBER 0-100]

[IF Q49_19>0, ASK Q50; OTHERWISE SKIP TO FILTER BEFORE Q51]

Q50. How large is your **walk-in refrigerator space**? Please enter the approximate total square footage of all walk-in refrigerators.

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER, MIN 1] square feet

[IF Q49_20>0, ASK Q51; OTHERWISE SKIP TO FILTER BEFORE Q52]

Q51. How large is your **walk-in freezer space**? Please enter the approximate total square footage of all walk-in freezers.

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER, MIN 1] square feet

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[IF Q11_8>0, ASK Q52; OTHERWISE SKIP TO FILTER BEFORE INTRO TEXT ABOVE Q55]

- Q52. Do you have any warehouse space, or large storage space, within the area your business uses at this location?
 - 1. No
 - 2. Yes, unrefrigerated
 - 3. Yes, refrigerated
 - 4. Yes, both unrefrigerated and refrigerated

[IF Q52=2 OR 4, ASK Q53; OTHERWISE SKIP TO FILTER BEFORE Q54]

Q53. What is the approximate square footage of your unrefrigerated warehouse space?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER, MIN 1] square feet

[IF Q52=3-4, ASK Q54; OTHERWISE SKIP TO FILTER BEFORE INTRO TEXT ABOVE Q55]

Q54. What is the approximate square footage of your refrigerated warehouse space?

Your best estimate is fine, but please enter a whole number rather than a range of numbers.

[RECORD NUMBER, MIN 1] square feet

[IF Q11_9>0, ASK Q55; OTHERWISE SKIP TO FILTER ABOVE Q60B]

The following questions focus on your laundry facilities

Q55. DELETED

Q56. How many of the following units are there in your laundry facility?

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

Laundry Equipment type	Number
1. Standard, top loading washer	[RECORD NUMBER 0-100]
2. Standard, front loading washer	[RECORD NUMBER 0-100]
3. Super capacity washer	[RECORD NUMBER 0-100]
4. Clothes dryer, gas	[RECORD NUMBER 0-100]
5. Clothes dryer, electric	[RECORD NUMBER 0-100]

[IF ANY Q56_1 THROUGH Q56_3>0, ASK Q57; OTHERWISE SKIP TO FILTER BEFORE Q59]

Q57. On average, when was the typical washer installed? Your best estimate is fine.

- 1. Before 1970
- 2. 1970-1979
- 3. 1980-1989
- 4. 1990-1994
- 5. 1995-1999
- 6. 2000-2004
- 7. 2005-present

998. Not sure

Q58. On average, how many loads does each washer handle per week? Your best estimate is fine.

- 1. 1-5
- 2. 6-10
- 3. 11-20
- 4. 21-30
- 5. More than 30
- 6. Not sure

[IF Q56_4>0 OR Q56_5>0, ASK Q59; OTHERWISE SKIP TO FILTER BEFORE Q60]

Q59. On average, when was the typical dryer installed? Your best estimate is fine.

- 1. Before 1970
- 2. 1970-1979
- 3. 1980-1989
- 4. 1990-1994
- 5. 1995-1999
- 6. 2000-2004
- 7. 2005-present
- 998. Not sure

[IF ANY Q56_1 THROUGH Q56_5>0; ASK Q60; OTHERWISE SKIP TO FILTER BEFORE Q60B]

Q60. In general, how would you characterize the energy efficiency of your laundry equipment?

- 1. Mostly standard efficiency
- 2. Mostly high efficiency (ENERGY STAR, Supersaver)
- 3. Mix of standard and high-efficiency

[IF S7=6, 7, 10, 12, 13 OR 15 OR 990, ASK Q60B. OTHERWISE SKIP TO FILTER BEFORE Q61]

Q60b. Do you have a pool and/or spa at this location? Select all that apply.

- 1. Pool
- 2. Spa
- 3. None of the above

[IF Q60b=1, ASK Q60c. OTHERWISE SKIP TO FILTER BEFORE Q60d]

Q60c. Is your pool pump controlled by a timer?

- 1. Yes
- 2. No
- 3. Not sure

[IF Q60b=1 OR 2, ASK Q60d. OTHERWISE SKIP TO FILTER BEFORE Q61]

Q60d. Do you heat your pool or spa?

- 1. No
- 2. Yes, year-round

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3. Yes, summer only

Q60e. What type of fuel is used to generate heat for all / most of these water heaters?

- 1. Natural gas
- 2. Electricity
- 3. Solar
- 4. Other [SPECIFY]
- 5. Not sure

MANUFACTURING / PROCESSING OPERATIONS

[IF Q11_11>1, ASK Q61; OTHERWISE SKIP TO FILTER ABOVE INTRO TEXT ABOVE Q66a]

Now we would like to ask you some questions about your manufacturing / processing operations.

- Q61. Which of the following types of motors are used at your business's location? Select all that apply.
 - 1. Motors that drive the different **pumps** that are used at this facility
 - 2. Motors that drive <u>other machines or uses</u> at this facility (e.g., mills, assembly lines, air compressors, etc.)
 - 3. None of the above [EXCLUSIVE]

[IF Q61=1, ASK Q61a; OTHERWISE SKIP TO FILTER ABOVE Q64]

Q61a. How many motors are there in each of the following categories that drive the different <u>pumps</u> that are used at this facility? [IF Q61=2, DISPLAY, "(Please consider only pumps in your response. Other motor uses are covered in later questions.)"]

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

	# of motors
1. Less than 5 HP	[RECORD NUM 0-999]
2. 5–24 HP	[RECORD NUM 0-999]
3. 25–99 HP	[RECORD NUM 0-999]
4. 100–249 HP	[RECORD NUM 0-999]
5. 250–499 HP	[RECORD NUM 0-999]
6. 500 or more HP	[RECORD NUM 0-999]
TOT. Total	[CALCULATE TOTAL]

[TOTAL MUST BE >=1; ALLOW BLANK CELLS TO BE AUTOCODED AS 0's]

- Q62. Do these pumps tend to operate continuously, or for extended periods of time, while this facility is operating, or only for short periods of time?
 - 1. Continuously / long periods of time
 - 2. Short periods of time
 - 3. Varies / some of both
- Q63. Do these pumps generally have high efficiency motors, and/or variable speed drives, or not?
 - 1. Most are high efficiency and/or high variable speed drives
 - 2. Split 50/50 some are high efficiency and/or high variable speed drives, some are not
 - 3. Few or none are high efficiency and/or high variable speed drives

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[IF Q61=2, ASK Q64; OTHERWISE SKIP TO FILTER ABOVE INTRO TEXT ABOVE Q66a]

Q64. How many **motors** are there in each of the following categories that drive **other machines or uses** at this facility (e.g., mills, assembly lines, air compressors, etc.)?

Your best estimate is fine, but please enter whole numbers rather than ranges of numbers.

	# of motors
1. Less than 5 HP	[RECORD NUM 0-999]
2. 5–24 HP	[RECORD NUM 0-999]
3. 25–99 HP	[RECORD NUM 0-999]
4. 100–249 HP	[RECORD NUM 0-999]
5. 250–499 HP	[RECORD NUM 0-999]
6. 500 or more HP	[RECORD NUM 0-999]
TOT. Total	[CALCULATE TOTAL]

[TOTAL MUST BE >=1; ALLOW BLANK CELLS TO BE AUTOCODED AS 0's]

- Q65. Do these motors tend to operate continuously, or for extended periods of time, while this facility is operating, or only for short periods of time?
 - 1. Continuously / long periods of time
 - 2. Short periods of time
 - 3. Varies / some of both
- Q66. Do these motors generally have high efficiency motors, and/or variable speed drives, or not?
 - 1. Most are high efficiency and/or high variable speed drives
 - 2. Split 50/50 some are high efficiency and/or high variable speed drives, some are not
 - 3. Few or none are high efficiency and/or high variable speed drives

[IFS11=5 ASK Q67, OTHERWISE SKIP TO Q69]

- Q67. How many <u>charging stations</u> are at this location? [RECORD NUM 0-999] charging stations
- Q67b. Who pays for the charging stations?
 - 1. Our company
 - 2. The building management
 - 3. Other (specify)
 - 4. Not sure
- Q68. Does your company use electric vehicles for business purposes? If so, how many electric vehicles are used at this location?
 - 1. None
 - 2. Number of Electric Vehicles [RECORD NUM 0-999]

ENERGY EFFICIENCY MEASURES

Finally, we'd like to ask you about some **energy efficiency measures** you may have implemented at this location in the recent past, as well as some that you may be planning on implementing in the near future.

Q68. Which of the following **energy efficiency measures** related to **lighting** have been implemented at this location **within the last three years**?

Select all that apply for each time period. Select "NONE" in the appropriate column if you have not implemented / do not plan to implement any of the measures within that time period.

	Energy Efficiency Measures: Interior and Exterior Lighting	Have implemented in last 3 years
1.	Upgrading or renovating fluorescent lighting system(s)	
2.	Eliminating some fluorescent fixtures and adding reflectors to others to reduce the total number of lighting fixtures or lamps without reducing the total light available (this is sometimes called "delamping")	
3.	Replacing traditional <u>incandescent</u> lights with <u>CFLs</u> or higher efficiency light bulbs in lighting fixtures	
4.	Replacing general overhead lighting with specific task lighting	
5.	Installing occupancy/motion sensors to turn lights off when rooms are not in use	
6.	Installing <u>daylighting sensors</u> to turn interior lights off when sufficient daylight is available	
990.	Other energy efficiency lighting measure(s) [SPECIFY]	
998.	NONE / No energy efficiency lighting measures implemented / planned / possible [EXCLUSIVE]	

Q69. Which of the following **energy efficiency measures** related to **heating / cooling** have been implemented at this location **within the last three years**?

Which of these measures does your business plan to implement at this location within the next two years?

Select all that apply for each time period. Select "NONE" in the appropriate column if you have not implemented / do not plan to implement any of the measures within that time period.

	Energy Efficiency Measures: Heating / Cooling (HVAC)	Have implemented in last 3 years	Plan to implement in next 2 years
1.	Purchasing a more energy efficient air conditioner, chiller, furnace or boiler when needing to replace a unit		
3.	Installing solar panels on your roof that would provide power for some portion of your heating, cooling or water heating needs		
4.	Installing a heat recovery system that would capture waste heat from chillers or refrigeration systems to use for heating		
5.	Adding insulation to the ductwork that serves your heating and/or cooling systems		
6.	Conducting a "retrocommissioning" of your HVAC systems –		

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	essentially reviewing all elements of system performance and		
	flow to ensure your operating procedures optimize system		
	performance		
	Installing variable speed drives on fan motors that are part of		
7.	your HVAC system – to allow the motors to run at many different		
	speeds, rather than "on" or "off"		
8.	Adding an economizer (air-side or water-side)		
9.	Adding an energy management/control system		
990.	Other energy efficiency heating measure(s) [SPECIFY]		
991.	Other energy efficiency cooling measure(s) [SPECIFY]		
998.	NONE / No energy efficiency heating / cooling (HVAC) measures	П	
998.	implemented / planned / possible [EXCLUSIVE]		Ш

Q70. Which of the following **energy efficiency measures** related to **water heating** have been implemented at this location **within the last three years**?

Which of these measures does your business plan to implement at this location within the next two years?

Select all that apply for each time period. Select "NONE" in the appropriate column if you have not implemented / do not plan to implement any of the measures within that time period.

	Energy Efficiency Measures: Water Heating	Have implemented in last 3 years	Plan to implement in next 2 years
1.	Purchasing a more energy efficient water heater when needing to replace a unit		
2.	Insulating, or improving the insulation, for the pipes that carry hot water throughout your facility		
3.	Reducing the temperature of the hot water that your water heater(s) delivers		
4.	Installing 'low flow' nozzles that reduce the amount of hot water used		
5.	Installing faucet aerators that introduce air into the flow of hot water, reducing the total amount of water used		
990.	Other energy efficiency water heating measure(s) [SPECIFY]		
998.	NONE / No energy efficiency water heating measures implemented / planned / possible [EXCLUSIVE]		

Q71. Which of the following **energy efficiency measures** related to **building structure** have been implemented at this location **within the last three years**?

Select all that apply for each time period. Select "NONE" if you have not implemented

	Energy Efficiency Measures: Building Structure	Have implemented in last 3 years
1.	Replacing windows with windows designated as "low-e" glass	
	and/or have a gas core that increases their energy efficiency	_
2.	Adding or upgrading insulation on exterior doors, walls, ceilings,	П
۷.	or roofs	
	Adding window shades, external shades, reflective film on	
3.	windows, or trees that would reduce that amount of direct	
	sunlight that enters your buildings	
4.	Installing a "cool" or white-colored roof	
990.	Other high efficiency building structure measure(s)	
000	NONE / No energy efficiency building structure measures	
998.	implemented / planned / possible [EXCLUSIVE]	

Q72. Which of these <u>other</u> energy efficiency measures have been implemented at this location within the last three years?

Select all that apply for each time period. Select "NONE" if you have not implemented

	Energy Efficiency Measures: Other	Have implemented in last 3 years
1.	Purchasing a more energy efficient refrigeration unit when needing to replace a unit	
2.	Purchasing a higher than standard efficiency swimming pool pump or swimming pool heater when needing to replace this unit	
3.	Purchasing higher than standard efficiency computer, printer/copier or other office equipment when needing to replace a unit	
4.	Purchasing higher than standard efficiency dishwasher, stove or other kitchen equipment when needing to replace a unit	
990.	Other energy efficiency measure(s) [SPECIFY]	
998.	NONE / No other energy efficiency measures implemented / planned / possible [EXCLUSIVE]	

Q73. Some utilities offer rebate, low interest loan or price discount programs to encourage businesses to purchase highly energy efficient heating, cooling, lighting, or other equipment or appliances.

To the best of your knowledge, does Ameren Illinois offer any such programs that offer customers like you a discount off the purchase price on qualified items?

- 1. Yes
- 2. No
- 3. Not sure

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[IF Q73=1, ASK Q73B; OTHERWISE SKIP TO Q74B]

Q73B. Are you aware of any of the following programs being offered by Ameren Illinois? Have you participated in any of the following programs in the past 3 years?

,	in any of the following programs in the past 3 years?			
	Energy Efficiency Program	Aware of	Participated in	
	Energy Emelency Frogram	program	the last 3 years	
1.	Standard Lighting			
2.	Standard HVAC/Water Heater			
3.	Standard VFD (Variable Frequency Drive)			
4.	Standard Commercial Kitchen			
5.	Standard Lodging			
6.	Standard Grocery			
7.	Standard Agriculture			
8.	Standard Steam Trap			
9.	Standard Leak Survey and Repair			
10.	Competitive Large Project Incentive (CLPI)			
11.	Staffing Grant			
12.	New Construction			
13.	Feasibility Study			
14.	Retro-commissioning Compressed Air			
15.	Retro-commissioning Commercial Building			
16.	Retro-commissioning Healthcare			
17.	Custom Program			
18.	Online store			
19.	Multi-Family Properties			
990.	Other program(s) [SPECIFY]			
998.	NONE [EXCLUSIVE]			

Q74A. If we have any questions regarding your responses to the survey, may we contact you via email?

- 1. Yes
- 0. No

[IF Q74A=1, ASK Q74B; OTHERWISE SKIP TO Q75]

Q74B. Please provide your email address. It will only be used to contact you about this survey.

[RECORD EMAIL ADDRESS]

CONCLUSION

[INCENTIVE NAME/ADDRESS COLLECTION SCREEN]

Those are all the questions we have for you today. Thank you for your participation!

- Q75. To receive the \$25 Visa Card thank you payment you earned by completing our survey, please provide your name and address below.
 - A. Full name
 - B. Business name (optional)
 - C. Mailing Address Line #1
 - D. Mailing Address Line #2 (optional)
 - E. Mailing Address Line #3 (optional)
 - F. City
 - G. State
 - H. ZIP Code

[PROGRAMMER: INCLUDE OPTIONS FOR "I would prefer not to receive the \$25 Visa Card thank you payment" AND "I would prefer not to receive this special report"]

[IF EITHER NAME/MAILING ADDRESS ENTERED, SHOW INCENTIVE NAME/ADDRESS/EMAIL ADDRESS VERIFICATION SCREEN; OTHERWISE SKIP TO INCENTIVE CONFIRMATION / GOODBYE SCREEN]

[INCENTIVE NAME/ADDRESS/EMAIL ADDRESS VERIFICATION SCREEN]

Please review the information you provided and verify that it is complete and correct:

[DISPLAY NAME/ADDRESS/EMAIL ADDRESS COLLECTED ON PREVIOUS SCREEN]

If you would like to edit any of this information, please click the "Back" button to go to the previous screen, where you can make any needed changes.

Otherwise, please click "Next" to submit your information.

[PROGRAMMER: INCLUDE BACK BUTTON FOR THIS SCREEN DURING LIVE VERSION]

[INCENTIVE CONFIRMATION / FOLLOW-UP REQUEST SCREEN]

[IF NAME/MAILING ADDRESS ENTERED, DISPLAY, "You have successfully submitted the information we need so we can send you your \$25 Visa card thank you payment. This payment will be issued to the name you provided and will be mailed within 3-4 weeks to the address you provided."]

[PROGRAMMER: DISPLAY ON SAME SCREEN AS ABOVE LANGUAGE]

Q76. If you would like information on how your business can save money on energy bills, please visit us at www.actonenergy.com.

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Additionally, if you would like someone from the Ameren Illinois energy efficiency implementation team to contact you about further energy efficiency opportunities, please provide the appropriate contact information below:

(NOTE: All other information you have provided in this survey will continue to remain anonymous, even if you choose to be contacted. None of your prior responses will be communicated to the Ameren Illinois energy efficiency implementation team.)

1. Yes, we would like to be contacted by someone from the Ameren Illinois energy efficiency implementation team. *Please supply appropriate information*.

Contact Name:	:		
Business Name	e:		
Preferred cont	act method(s) –	Select all that apply:	
□ phone	\square e-mail	\square postal mail	
Daytime phone	e number :	[ALLOW UP TO 20 CHARACTER	lS]
E-mail address	:		
Postal address	:		
_			
_			

2. No, we would NOT like to be contacted

[IF Q76=1, GO TO FOLLOW-UP REQUEST VERIFICATION SCREEN; IF Q76=2, SKIP TO FOLLOW-UP REQUEST CONFIRMATION / COMMENT SCREEN]

[FOLLOW-UP REQUEST VERIFICATION SCREEN]

Please review the contact information you provided and verify that it is complete and correct:

[DISPLAY PROVIDED INFORMATION]

If you would like to edit any of this information, please click the "Back" button to go to the previous screen, where you can make any needed changes.

Otherwise, please click "Next" to submit your information.

[PROGRAMMER NOTE: INCLUDE 'BACK' BUTTON ON THIS SCREEN WHEN SURVEY IS LIVE]

[FOLLOW-UP REQUEST CONFIRMATION / COMMENT SCREEN]

[IF Q76=1, DISPLAY, "You have successfully submitted your contact information! You will be contacted by a representative from the Ameren Illinois energy efficiency implementation team within 10 business days."]

If, at this time, you'd like to make any general comments or provide feedback to Ameren Illinois, please use the following text box:

[RECORD TEXT; ALLOW A HIGH MAX NUMBER OF CHARACTERS FOR LONG COMMENTS]

(Note: Any comments you submit here **will <u>not</u>** be linked to your previous survey responses or to any other identifying information when communicated to Ameren Illinois.)

Please click "Next" to submit your comment or to proceed without leaving a comment.

[GOODBYE SCREEN]

[IF STATUS=C, DISPLAY, "Thank you very much for your help with our research. It is greatly appreciated! Have a nice day!"]

[IF STATUS=T OR O, DISPLAY, "Thank you. Have a nice day!"] [INCLUDE "Close window" BUTTON]

SURVEY CLOSED MESSAGE

We appreciate your time and effort in responding to the survey invitation you received, but the survey sponsored by Ameren Illinois is now closed.

In order to achieve a representative sample for this survey, quotas with specific criteria needed to be designated. Because these quotas have now been filled, we are not accepting any more responses.

If you would like information on how your business can save money on energy bills, please visit us at http://www.actonenergy.com

Thank you. Have a nice day!

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DEFINITIONS

[THE DEFINITIONS IN THE TABLE BELOW WILL EACH BE SHOWN IN A POP-UP BOX THAT IS TRIGGERED BY A HYPERLINKED WORD OR PHRASE]

Heating systems	
Air-source heat pump	An air-source heat pump uses the difference between outdoor and indoor air temperatures to cool and heat the home.
Geo-thermal heat pump	Geothermal heat pumps are similar to ordinary heat pumps, but use the ground instead of outside air to provide heating, air conditioning and, in most cases, hot water.
Cooling systems/chillers	most cases) not water.
District steam with chiller	A district steam system works by having a central steam plant that typically serves multiple clients, or in larger cities, even multiple city blocks or other areas; district steam with chiller systems use district steam to drive a local chiller system
Floor-by-floor packaged water- cooled DX units	Separate air conditioning units that serve each floor individually; these units are typically water-cooled, rather than air-cooled
Centrifugal	Compressor that uses centrifugal force to compress gas by feeding it into a wheel with radial vanes. The wheel is then sealed inside of a cylinder and spun. When the wheel rotates, the gas is thrown away from the wheel center. The outward spinning motion compresses the gas.
Reciprocating	Compressor that increases the pressure of a process gas by positive displacement, employing linear movement of the drive shaft
Rotary	The machine used to impart rotational power to the drill stem while permitting vertical movement of the pipe for rotary drilling
Scroll	Uses advanced engineering and flow dynamics to efficiently and smoothly compress gas refrigerant
Screw	A propeller with several angled blades that rotates to push against water or air
Absorption, hot water	Thermally driven chiller utilizing hot water
Absorption, steam	Indirect-fired chiller utilizing steam
Absorption, natural gas	Direct-fired chiller
Chiller, steam-driven turbine	Mechanical pump-driven refrigeration process powered by a steam turbine
Lighting	
Standard fluorescent tubes (T12)	Traditional fluorescent tube lights with standard efficiency (T12) tubes
Higher than standard efficiency fluorescent tubes (T10)	Fluorescent tube lights that provide more light output than a T12. The T10 lights have a 1 ¼ inch diameter while the T12 lights have a larger diameter of 1 ½ inches.
High-efficiency fluorescent tubes (T8)	Newer fluorescent tubes (T8s) that fit into traditional fixtures, but which represent a more efficient (lower wattage) tube
Super high-efficiency fluorescent tubes (T5)	Fluorescent, super high efficiency (T5) tube lights
Compact fluorescent (CFL)	A newer type of light bulb that screws into a light socket, but which is a fluorescent light rather than a <u>traditional incandescent light bulb</u> , and which also often has a non-traditional, "swirly" shape for a light bulb
Incandescent	Traditional screw in light bulbs that typically range from around 25 watts to around 120 watts
Neon	Tube shaped lights that contain neon or other inert gases at low pressure. Applying a high voltage, makes the gas glow brightly. Typically used in commercial advertising or signage.
LED lamp	A "light emitting diode" lamp is an electronic form of lighting that does not use filaments like <u>traditional incandescent bulbs</u> , but instead, uses solid state

	electronics.
	Electrodeless lamps that can last up to 20 years before burning out. Typically
Induction	used in exterior lighting.
High/Low pressure sodium	A sodium vapor lamp is a gas discharge lamp which uses sodium in an excited state to produce light. They are used in generating yellow light for lighting streets and highways. The low-pressure sodium lamp has remarkably high luminous efficiency, or efficacy, producing as much as 200 lumens per watt of input power. High pressure sodium (HPS) lamps are smaller and contain additional elements such as mercury, and produce a dark pink glow when first struck, and a pinkish orange light when warmed.
Photocell	A light sensing device used to control luminaires and dimmers in response to detected light levels. Also known as photosensor lights. These are typically used in outdoor lighting so that lights are turned off during daylight.
Metal halide – standard	A discharge lamp in which metal halide salts are added to the contents of a discharge tube in which there is a high-pressure arc in mercury vapor; the added metals generate different wavelengths, to give substantially white light at an efficiency approximating that of high-pressure sodium lamps
Metal halide – pulse start	Pulse start metal halide lamps do not require a starting electrode, and instead use a special starting circuit referred to as an igniter to generate a high-voltage pulse to the operating electrodes. Pulse start metal halide offers better efficiency than standard.
Mercury vapor	Pressurized gas inside an arc tube ionized by current flowing between electrodes, resulting in light being emitted. Contains mercury and small amounts of argon, neon and krypton gas.
Induction	Electrodeless lamps that can last up to 20 years before burning out. Typically used in exterior lighting.
Quartz halogen	An incandescent light bulb in which the envelope is made of quartz instead of glass, and the filament is surrounded by an atmosphere of a halogen gas, usually iodine.
Occupancy sensors	An occupancy sensor is a motion detector that is integrated with a timing device. It senses when motion has stopped for a specified time period in order to trigger a light extinguishing signal.
Daylighting sensors	Electronic devices that are used to control lights in a room, so that when there is sufficient daylight / sunlight present, then room lights are turned off
Manual – single switch	One switch controls one or more light fixtures
Manual – dual switch	Sometimes referred to as a "three-way switch"; two or more switches control one or more light fixtures. It is commonly used in locations with two different entrances/exits, such as at the top and bottom of a stairwell or in a classroom with doors in opposite corners.
Water Heater	
Tankless (instantaneous)	A water heater that only heats water for delivery to your application when you ask for it by using hot water. These systems do not keep a tank of water hot at all times.
Heat recovery	A water heater that uses heat "recovered" from another application (for example, by recovering "waste heat" from a process that heats another material) to heat water for different purposes
Domestic - type	A tank water heater similar to what you would find in a residential home.
Thermostat	
Standard	A traditional thermostat that you have to manually adjust and that has only one setting for the internal temperature you want
Programmable	A thermostat that lets you program a schedule and set the temperature up or down at different times of the day and/or different days of the week
Energy management system	An electronic system that can be programmed to automatically turn on / off (or to otherwise operate) HVAC, lighting, and / or other building systems

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	according to a schedule that a building operator has established ahead of time
Structural	
Glass curtain/spandrel	A non- load-bearing wall of glass, attached to a building's exterior structural frame.
Energy Efficiency Measures	
Delamping	Removing light bulbs (or fluorescent tubes) from a facility so that there is still sufficient light, but not more than is necessary
Economizers (air-side or water-side)	Heat exchanger used to pre-heat water before it enters boiler
Energy management / control system	An electronic system that can be programmed to automatically turn on / off (or to otherwise operate) HVAC, lighting, and / or other building systems according to a schedule that a building operator has established ahead of time

About EnerNOC Utility Solutions Consulting

EnerNOC Utility Solutions Consulting is part of EnerNOC Utility Solutions group, which provides a comprehensive suite of demand-side management (DSM) services to utilities and grid operators worldwide. Hundreds of utilities have leveraged our technology, our people, and our proven processes to make their energy efficiency (EE) and demand response (DR) initiatives a success. Utilities trust EnerNOC to work with them at every stage of the DSM program lifecycle – assessing market potential, designing effective programs, implementing those programs, and measuring program results.

EnerNOC Utility Solutions delivers value to our utility clients through two separate practice areas – Program Implementation and EnerNOC Utility Solutions Consulting.

- Our Program Implementation team leverages EnerNOC's deep "behind-the-meter expertise" and world-class technology platform to help utilities create and manage DR and EE programs that deliver reliable and cost-effective energy savings. We focus exclusively on the commercial and industrial (C&I) customer segments, with a track record of successful partnerships that spans more than a decade. Through a focus on high quality, measurable savings, EnerNOC has successfully delivered hundreds of thousands of MWh of energy efficiency for our utility clients, and we have thousands of MW of demand response capacity under management.
- The EnerNOC Utility Solutions Consulting team provides expertise and analysis
 to support a broad range of utility DSM activities, including: potential
 assessments; end-use forecasts; integrated resource planning; EE, DR, and
 smart grid pilot and program design and administration; load research;
 technology assessments and demonstrations; evaluation, measurement and
 verification; and regulatory support.

The EnerNOC Utility Solutions Consulting team has decades of combined experience in the utility DSM industry. The staff is comprised of professional electrical, mechanical, chemical, civil, industrial, and environmental engineers as well as economists, business planners, project managers, market researchers, load research professionals, and statisticians. Utilities view our experts as trusted advisors, and we work together collaboratively to make any DSM initiative a success.