



## ***Appendix L***

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### **Commercial Sector Remaining Factors Derivations**

#### **Phone Surveys**

- **Electric Model Remaining Factors (Page L-1)**
  - **Electric Model Saturations (Page L-6)**
- **Non Electric Model Remaining Factors (Page L-9)**
  - **Non Electric Model Saturations (Page L-12)**
    - **Reference Tab (Page L-14)**

#### **Site Surveys**

- **Electric Model Remaining Factors (Page L-64)**
  - **Electric Model Saturations (Page L-69)**
- **Non Electric Model Remaining Factors (Page L-73)**
  - **Non Electric Model Saturations (Page L-76)**
    - **Reference Tab (Page L-79)**

Commercial Electric Model - Remaining Factor Derivation from Phone Surveys

Commercial - Remaining Factors	Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL											
Measure Name												
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
<b>Appliances, Computers &amp; Office Equipment</b>												
Energy Star Compliant Single Door Refrigerator	101										17.2%	24
Energy Star office equipment including computers, monitors, copiers, multi-function machines.	102											
TVs - Energy Star over standard	103											
Energy Efficient "Smart" Power Strip for PC/Monitor/Printer	104											
EZ Save Monitor Power Management Software	105											
<b>Water Heating End Use</b>												
Commercial Dishwasher (Under Counter Hi-Temp, Electric DHW)	151										40.0%	33
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, - Electric DHW)	152										40.0%	33
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, Non-Electric DHW)	153										40.0%	33
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Electric DHW)	154										40.0%	33
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Non-Electric DHW)	155										40.0%	33
Ozone Commercial Laundry System (Electric HW)	156										40.0%	33
Heat Pump Water Heater	157				93.6%					96.9%	95.2%	7
Booster Water Heater	158				97.9%					100.0%	96.6%	5
Point of Use Water Heater	159				83.0%					87.5%	89.0%	16
Solar Water Heating System	160											
High Efficiency Electric Water Heater	161										4.8%	20
Low Flow Pre-Rinse Spray Nozzle (Included in 2006 Federal Standards) (Electric HW)	162											
<b>Pools</b>												
Energy Efficient Pool Pump with controls	201											

## Commercial Electric Model - Remaining Factor Derivation from Phone Surveys

High efficiency spas/hot tubs	202												
Solar Pool Heater	203												
Heat Pump Pool Heater	204												
Temperature Control	205												
Pool Cover	206												
Liquid Pool Cover	207												
<b>Building Envelope</b>													
Integrated Building Design	301												
Energy Efficient Windows	302												
Interior Storm Windows (Low-e or double clear film)	303												
Cool Roofing (White Coatings)	304												
<b>Ventilation</b>													
Dual Enthalpy Economizer - from Fixed Damper	321												
Dual Enthalpy Economizer - from Dry Bulb	322												
Demand-Controlled Ventilation (CO2 vent control)	323												
Heat Recovery	324												
Fan Motor, 40hp, 1800rpm, 94.1%	325												
Fan Motor, 15hp, 1800rpm, 92.4%	326												
Fan Motor, 5hp, 1800rpm, 89.5%	327												
Variable Speed Drive Control, 15 HP	328												
Variable Speed Drive Control, 5 HP	329												
Variable Speed Drive Control, 40 HP	330												
Static Pressure Reset on Fans	331												
Underfloor Air distribution	332												
Cold air distribution (reduce fan HP)	333												
Variable Pitch Fans	334												
Electronically-Commutated Permanent Magnet Motors (ECPMs)	335												
Improved Duct Sealing	336												
<b>Space Cooling - Chillers</b>													
Centrifugal Chiller, 0.51 kW/ton, 300 tons	341												
Centrifugal Chiller, 0.51 kW/ton, 500 tons	342												
Centrifugal Chiller, Optimal Design, 0.4 kW/ton, 500 tons	343												
Chiller Tune Up/Diagnostics - 300 ton	344												
Variable Refrigerant Volume/Flow	345												
Dedicated Outdoor Air System	346												
Chiller Tune Up/Diagnostics - 500 ton	347												
<b>HVAC Controls</b>													
Retrocommissioning	361												

## Commercial Electric Model - Remaining Factor Derivation from Phone Surveys

Programmable Thermostat	362	75.0%	52.2%	53.8%	36.7%	50.0%	50.0%	50.0%	40.0%	51.2%	44.2%	87
EMS install	363											
EMS Optimization	364											
System/Component Diagnostics	365											
LEED Enhanced Commissioning	366											
Hotel Guest Room Occupancy Control System	367											
<b>Space Cooling - Unitary &amp; Split AC</b>												
HVAC Advanced Tune-Up	381											
High Efficiency AC - Unitary and Split Systems (Tier 2)	382											
High Efficiency AC - Unitary & Split AC Systems (Tier 3)	383											
Ductless (mini split)	384											
Comprehensive Track Proper HVAC Sizing	385											
Improved Duct Sealing	386											
Radiant Ceiling Cooling	387											
Dedicated Outdoor Air System	388											
Ground Source Heat Pump - Cooling	389											
<b>Cooking</b>												
HE Steamer	401											
HE Combination Oven	402											
HE Holding Cabinet	403											
HE Fryer - Electric	404											
Demand Ventilation Control	405											
Induction Cooktops	406											
<b>Lighting</b>												
Lamp & Ballast Retrofit (HP T8 Replacing T12)	501											
Lamp & Ballast Retrofit (HP T8 Replacing Standard T8)	502											
High Efficiency Fluorescent Fixtures (HP T8 Troffer Replacing T12)	503											
High Efficiency Fluorescent Fixtures (Low Glare Troffer HPT8/T5 Replacing T12)	504											
High Intensity Fluorescent Fixtures (replacing HID) - Hi & Low Bay	505											
Fluorescent Fixtures with Reflectors	506				22.2%					47.7%	33.1%	107
CFL Fixture	507											
Replace Exterior Quartz Halogen w/PSMH or HPS	508											
Replace Exterior Metal Halide w/PSMH	509											
LED Exit Sign	510				64.2%					81.0%	65.6%	56
LEC Exit Sign	511				80.4%					82.1%	79.7%	29
LED Traffic / Pedestrian Signals	512											

## Commercial Electric Model - Remaining Factor Derivation from Phone Surveys

HID Fixture - Pulse Start Metal Halide (Interior)	513											
Specialty Fixtures - Halogen Infra-Red Bulb	514											
Specialty Fixtures - Integrated Ballast 25W MH	515											
Specialty Fixtures - Induction Fluorescent 23W	516											
Specialty Fixtures - Metal Halide Track	517											
Cold Cathode Screw In	518											
LED Screw In	519											
CFL Screw-in	520	100.0%	52.4%	58.3%	57.4%	16.7%	53.8%	37.5%	60.0%	55.3%	53.8%	73
LED Christmas type - decorative lighting	521											
<b>Lighting Controls</b>												
Controls for HID - Hi/Lo	551											
Controls for HIF- Remote Mount Occupancy Sensor	552											
Remote Mounted Occupancy Sensor - Non HIF	553	75.0%	87.0%	46.2%	83.3%	66.7%	92.9%	70.0%	80.0%	79.5%	77.0%	35
Switch Mounted Occupancy Sensor	554											
Daylight Controlled Dimming Ballast	555	100.0%	100.0%	84.6%	96.4%	100.0%	100.0%	100.0%	80.0%	97.8%	96.6%	29
Daylight Dimming - New Construction	556											
5% More Efficient Lighting Design - Existing Construction	557											
10% More Efficient Lighting Design - Existing Construction	558											
15% More Efficient Design - New Construction	559											
Dimming controls (night glare & roads/areas not used often)	560											
30% More Efficient Design - New Construction	561											
<b>Refrigeration</b>												
Vending Miser for Soft Drink Vending Machines	601											
Vending Miser for Non-Refrigerated Machines	602											
Refrigerated Case Covers	603											
Refrigeration Economizer	604											
Commercial Reach-In Cooler	605											
Commercial Reach-In Freezer	606											
Commercial Ice-makers	607										83.3%	21
Evaporator Fan Motor Controls	608	100.0%	93.3%	92.3%	100.0%	75.0%	100.0%	66.7%	100.0%	95.5%	93.8%	7
H.E. Evaporative Fan Motors	609	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	75.0%	95.5%	98.2%	2

## Commercial Electric Model - Remaining Factor Derivation from Phone Surveys

Zero-Energy Doors - Coolers	610												
Zero-Energy Doors - Freezers	611												
Door Heater Controls	612												
Discuss Compressor	613												
Scroll Compressor	614												
Floating Head Pressure Control	615												
ECM Motors	616												
Air Curtains (replacing electric door heaters)	617												
High efficiency designs for large refrigeration freezer system	618												
LED lighting retrofits in refrigeration end-uses/display cases	619												
<b>Compressed Air</b>													
Compressed Air – Non-Controls	701												
Compressed Air – Controls	702												
<b>Transformers</b>													
Energy Efficient Transformers	716												
<b>Space Heating</b>													
High Efficiency Heat Pump	741	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0
Water Source Heat Pump	742	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0
Ground Source Heat Pump	743	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	97.8%	100.0%	0
<b>Non-HVAC Motors</b>													
Efficient Motors	781											37.5%	5
Variable Frequency Drives (VFD)	782												

## Small Commercial Phone Surveys - Saturation Factor Derivations

Saturation is defined as the percentage of installed appliances that already incorporate the listed measure, <u>not</u> the percentage of facilities that utilize the electric end use. ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL														
Commercial - Saturation														
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Saturation Source (Survey Question)	Total	N	Comment
<b>Appliances, Computers &amp; Office Equipment</b>														
Energy Star Compliant Single Door Refrigerator	101										Q74A_4, Q74B_4	82.8%	24	
Energy Star office equipment including computers, monitors, copiers, multi-function machines.	102													Only information available is whether computers purchased in the last 5 years were specified as energy efficient (Q74A_6, Q74B_6)
TVs - Energy Star over standard	103													
Energy Efficient "Smart" Power Strip for PC/Monitor/Printer	104													
EZ Save Monitor Power Management Software	105													
<b>Water Heating End Use</b>														
Commercial Dishwasher (Under Counter Hi-Temp, Electric DHW)	151											60.0%	33	Saturation based on % of facilities remodeled in past 5 years that used energy efficient appliances. Applies to measures 151-156
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, - Electric DHW)	152											60.0%	33	
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, Non-Electric DHW)	153											60.0%	33	
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Electric DHW)	154											60.0%	33	
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Non-Electric DHW)	155											60.0%	33	
Ozone Commercial Laundry System (Electric HW)	156											60.0%	33	
Heat Pump Water Heater	157				6.4%					3.1%	Q31_1	4.8%	7	
Booster Water Heater	158				2.1%					0.0%	Q31_1	3.4%	5	
Point of Use Water Heater	159				17.0%					12.5%	Q31_1	11.0%	16	
Solar Water Heating System	160													
High Efficiency Electric Water Heater	161										Q74A_3, Q74B_3	95.2%	20	Saturation is based on % of facilities that installed new water heater in past 5 years and specified energy efficient models
Low Flow Pre-Rinse Spray Nozzle (Included in 2006 Federal Standards) (Electric HW)	162													
<b>Pools</b>														
Energy Efficient Pool Pump with controls	201													Of the 200 respondents, only 1 indicated the presence of a heated pool (lodging). Refer to Q50. Unclear how best to represent saturation
High efficiency spas/hot tubs	202													
Solar Pool Heater	203													
Heat Pump Pool Heater	204													
Temperature Control	205													
Pool Cover	206													
Liquid Pool Cover	207													
<b>Building Envelope</b>														
Integrated Building Design	301													
Energy Efficient Windows	302													
Interior Storm Windows (Low-e or double clear film)	303													
Cool Roofing (White Coatings)	304													
<b>Ventilation</b>														
Dual Enthalpy Economizer - from Fixed Damper	321													
Dual Enthalpy Economizer - from Dry Bulb	322													
Demand-Controlled Ventilation (CO2 vent control)	323													
Heat Recovery	324													
Fan Motor, 40hp, 1800rpm, 94.1%	325													
Fan Motor, 15hp, 1800rpm, 92.4%	326													
Fan Motor, 5hp, 1800rpm, 89.5%	327													
Variable Speed Drive Control, 15 HP	328													
Variable Speed Drive Control, 5 HP	329													
Variable Speed Drive Control, 40 HP	330													
Static Pressure Reset on Fans	331													





## Small Commercial Phone Surveys - Saturation Factor Derivations

CFL Screw-in	520	0.0%	47.6%	41.7%	42.6%	83.3%	46.2%	62.5%	40.0%	44.7%	Q59	46.2%	73	
LED Christmas type - decorative lighting	521													
<b>Lighting Controls</b>														
Controls for HID - Hi/Lo	551													
Controls for HIF- Remote Mount Occupancy Sensor	552													
Remote Mounted Occupancy Sensor - Non HIF	553	25.0%	13.0%	53.8%	16.7%	33.3%	7.1%	30.0%	20.0%	20.5%	Q66A	23.0%	35	
Switch Mounted Occupancy Sensor	554													
Daylight Controlled Dimming Ballast	555	0.0%	0.0%	15.4%	3.6%	0.0%	0.0%	0.0%	20.0%	2.2%	Q67E	3.4%	29	
Daylight Dimming - New Construction	556													
5% More Efficient Lighting Design - Existing Construction	557													
10% More Efficient Lighting Design - Existing Construction	558													
15% More Efficient Design - New Construction	559													
Dimming controls (night glare & roads/areas not used often)	560													
30% More Efficient Design - New Construction	561													
<b>Refrigeration</b>														
Vending Miser for Soft Drink Vending Machines	601													
Vending Miser for Non-Refrigerated Machines	602													
Refrigerated Case Covers	603													
Refrigeration Economizer	604													
Commercial Reach-In Cooler	605													
Commercial Reach-In Freezer	606													
Commercial Ice-makers	607	16.7%									Q34_7	16.7%	21	No cross tabulation provided. Saturation is based on facilities reporting use of one or more commercial icemakers
Evaporator Fan Motor Controls	608	0.0%	6.7%	7.7%	0.0%	25.0%	0.0%	33.3%	0.0%	4.5%	Q37_1	6.3%	7	
H.E. Evaporative Fan Motors	609	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	4.5%	Q37_1	1.8%	2	
Zero-Energy Doors - Coolers	610													
Zero-Energy Doors - Freezers	611													
Door Heater Controls	612													
Discuss Compressor	613													
Scroll Compressor	614													
Floating Head Pressure Control	615													
ECM Motors	616													
Air Curtains (replacing electric door heaters)	617													
High efficiency designs for large refrigeration freezer system	618													
LED lighting retrofits in refrigeration end-uses/display cases	619													
<b>Compressed Air</b>														
Compressed Air - Non-Controls	701													
Compressed Air - Controls	702													
<b>Transformers</b>														
Energy Efficient Transformers	716													
<b>Space Heating</b>														
High Efficiency Heat Pump	741	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Q14_1			Survey question only addresses the "primary" mode for heating the space. These saturations do not necessarily indicate the presence of any of these measures in the facilities
Water Source Heat Pump	742	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Q14_1			
Ground Source Heat Pump	743	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	Q14_1, Q15			
<b>Non-HVAC Motors</b>														
Efficient Motors	781	33.3%									Q74A_7, Q74B_7	62.5%	5	Saturation is based upon % of facilities that installed new motor within the past 5 years times the percentage of those facilities that specified energy efficient models
Variable Frequency Drives (VFD)	782													

## Non Electric Model - Remaining Factor Derivation from Phone Surveys

Commercial - Remaining Factors	Remaining Factors are calculated as (1-saturation factor)												
Measure Name													
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N	
<b>Water Heating</b>													
High Efficiency Clothes Washer	100												
Natural gas Clothes Dryer	101												
High Efficiency Water Heater>=62%	102										4.8%	22	
On Demand Water Heater	103										97.2%	109	
Pipe Insulation	104												
Tank Insulation	105												
Low Flow Shower Heads	106												
Low Flow Pre-Rinse Spray Nozzle	107												
Faucet Aerator	108												
Modulate Water Temp	109												
Circulation Pump Time clocks	110												
Mainline Air vent	111												
Thermostatic vents	112												
Indirect Fired Water Heating Systems	113												
Indirect Fired Water Heating Systems MF	114												
Ozone Commercial Laundry System (Electric HW)	115												
Solar Water Heating System	116												
<b>Pools</b>													
High Efficiency Spa/Hot Tub Heater	200												
High Efficiency (95%) Gas Pool Water Heater	201												
Temperature control	202												
Pool Cover	203												
Solar Pool Heater	204												
<b>Building Envelope</b>													
Integrated Building Design (30% > code)	300												
Energy Efficient Windows	301												
Energy Efficient Windows	301_MF												
Interior Storm Windows (Low-e or double clear film)	302												
Loading dock Seals	303												
Air curtains	304												
Exterior Door Insulation (New, Replacement, Retrofit)	305												
Exhaust hood makeup air (expand with direct fired make-up systems)	306												

## Non Electric Model - Remaining Factor Derivation from Phone Surveys

Demand-Controlled Ventilation (CO2 vent control)	307												
Insulated Overhead Doors	308												
Reflective rollout radiant barriers	309												
Integration of Passive Solar heating, cooling & ventilation	310												
Roof Insulation (only when re-roofing)	311												
Wall Insulation	312												
Roof Insulation (only when re-roofing)	311_MF												
Wall Insulation - MF	312_MF												
<b>Space heating</b>													
Efficient Furnace Fan (Non-Electric Furnace)	400											31.8%	45
Gas-Fired Absorption Heat Pump (for hot water & chilled water)	401												
Energy and Heat Recovery Ventilators (ERV/HRV)	402												
ECM or Modulating air handler & HW pump (e.g. www.ecologix.ca)	403												
Infrared Heater	404												
High Efficiency Furnace (AFUE>=92%)	405											31.8%	45
High Efficiency Hot Water Boiler(AFUE>=85%)	406											31.8%	45
High Efficiency Steam Boiler	407											31.8%	45
Condensing Boiler	408												
Boiler- Heating Pipe Insulation	409												
Boiler Tune-Up	410												
Stack Heat Exchanger	411												
Heat Recovery from Air to Air	412												
Boiler Reset Controls	413												
Boiler O2 Trim Controls	414												
Boiler blowdown heat exchanger (steam)	415												
Repair malfunctioning steam traps	416												
Steam trap maintenance	417												
Insulate steam lines/condensate tank	418												
Filter replacement	419												
Destratification Fans	420												
Improved Duct Sealing	421												
CHP	422												
ECM - 92% (packaged with a high efficiency furnace)	423												
HE COMBO w/SHW w/radiant heat, new or retrofit	424												
District energy - HE fossil fuel fired	425												
Hot water temperature reset control	426												
Energy and Heat Recovery Ventilators (ERV/HRV)	427												

## Non Electric Model - Remaining Factor Derivation from Phone Surveys

Liquid Dessicant Air Conditioners	428												
Refrigeration waste heat recovery	429												
<b>Space Cooling</b>													
Gas-fired absorption air conditioner	500												
Micro Channel Heat Exchangers (new units only)	501												
<b>Ventilation</b>													
Linkage less combustion controls	600												
Heat Recovery	601												
Enthalpy/Energy Recovery Heat Exchangers for Ventilation	602												
Improved Duct Sealing (also for heating & cooling)	603												
Dedicated Outdoor Air Systems (DOAS) (reduces	604												
Displacement Ventilation (new construction only)	605												
<b>HVAC Control</b>													
Retrocommissioning	700												
Commissioning	701												
Programmable Thermostat	702					36.7%				51.2%	44.2%	87	
EMS install	703												
EMS Optimization	704												
Adaptive & Fuzzy Logic Control	705												
System/Component Diagnostics	706												
<b>Cooking</b>													
High Efficiency Gas Griddle	800												
High Efficiency Gas Combination Oven													
High Efficiency Gas Convection Oven	801												
High Efficiency Gas Conveyer Oven	802												
High Efficiency Gas Rack Oven													
High Efficiency Gas Broiler													
Infrared Fryer	803												
Power Burner Oven	804												
Power Burner Fryer	805												
DHW Demand management - best practices	806												
Energy Star Fryer	807												
Demand Ventilation Control	808												
High Efficiency Gas Steamer	809												
<b>Process Heat - Other</b>													
Process Heat Recovery	900												
Performance Optimization	901												
Waste Water Heat Recovery	902												
Infrared Ovens	903												
Replace thermo oxidizers	904												

## Commercial Non Electric Model - Saturation Derivations from Phone Survey

Commercial - Saturation														
Saturation is defined as the percentage of installed appliances that already incorporate the listed measure, <u>not</u> the percentage of facilities that utilize the electric end use. ONLY HIGHLIGHTED CELLS WERE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL														
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Saturation Source (Survey Question)	Total	N	Comment
<b>Water Heating</b>														
High Efficiency Clothes Washer	100													
Natural gas Clothes Dryer	101													
High Efficiency Water Heater>=62%	102										Q74A_3, Q74B_3	95.2%	22	Saturation is based on facilities reporting a new main water heater within the past 5 years times the percentage who specified energy efficient models
On Demand Water Heater	103										Q32	2.8%	109	
Pipe Insulation	104													
Tank Insulation	105													
Low Flow Shower Heads	106													
Low Flow Pre-Rinse Spray Nozzle	107													
Faucet Aerator	108													
Modulate Water Temp	109													
Circulation Pump Time clocks	110													
Mainline Air vent	111													
Thermostatic vents	112													
Indirect Fired Water Heating Systems	113													
Indirect Fired Water Heating Systems MF	114													
Ozone Commercial Laundry System (Electric HW)	115													
Solar Water Heating System	116													
<b>Pools</b>														
High Efficiency Spa/Hot Tub Heater	200													
High Efficiency (95%) Gas Pool Water Heater	201													
Temperature control	202													
Pool Cover	203													
Solar Pool Heater	204													
<b>Building Envelope</b>														
Integrated Building Design (30% > code)	300													
Energy Efficient Windows	301													
Energy Efficient Windows	301_MF													
Interior Storm Windows (Low-e or double clear film)	302													
Loading dock Seals	303													
Air curtains	304													
Exterior Door Insulation (New, Replacement, Retrofit)	305													
Exhaust hood makeup air (expand with direct fired make-up systems)	306													
Demand-Controlled Ventilation (CO2 vent control)	307													
Insulated Overhead Doors	308													
Reflective rollout radiant barriers	309													
Integration of Passive Solar heating, cooling & ventilation	310													
Roof Insulation (only when re-roofing)	311													
Wall Insulation	312													
Roof Insulation (only when re-roofing)	311_MF													
Wall Insulation - MF	312_MF													
<b>Space heating</b>														
Efficient Furnace Fan (Non-Electric Furnace)	400										Q17, Q18	68.2%	45	Saturation is based on facilities reporting heating systems that have been replaced or installed new within the past 10 years, multiplied by the percentage of those facilities who reported specifying energy efficient equipment (applies also to measures 405, 406, 407)
Gas-Fired Absorption Heat Pump (for hot water & chilled water)	401													
Energy and Heat Recovery Ventilators (ERV/HRV)	402													
ECM or Modulating air handler & HW pump (e.g. www.ecologix.ca)	403													
Infrared Heater	404													
High Efficiency Furnace (AFUE>=92%)	405										Q17, Q18	68.2%	45	

## Commercial Non Electric Model - Saturation Derivations from Phone Survey

High Efficiency Hot Water Boiler(AFUE>=85%)	406											Q17, Q18	68.2%	45	
High Efficiency Steam Boiler	407											Q17, Q18	68.2%	45	
Condensing Boiler	408														
Boiler- Heating Pipe Insulation	409														
Boiler Tune-Up	410														
Stack Heat Exchanger	411														
Heat Recovery from Air to Air	412														
Boiler Reset Controls	413														
Boiler O2 Trim Controls	414														
Boiler blowdown heat exchanger (steam)	415														
Repair malfunctioning steam traps	416														
Steam trap maintenance	417														
Insulate steam lines/condensate tank	418														
Filter replacement	419														
Destratification Fans	420														
Improved Duct Sealing	421														
CHP	422														
ECM - 92% (packaged with a high efficiency furnace)	423														
HE COMBO w/SHW w/radiant heat, new or retrofit	424														
District energy - HE fossil fuel fired	425														
Hot water temperature reset control	426														
Energy and Heat Recovery Ventilators (ERV/HRV)	427														
Liquid Desiccant Air Conditioners	428														
Refrigeration waste heat recovery	429														
<b>Space Cooling</b>															
Gas-fired absorption air conditioner	500														
Micro Channel Heat Exchangers (new units only)	501														
<b>Ventilation</b>															
Linkage less combustion controls	600														
Heat Recovery	601														
Enthalpy/Energy Recovery Heat Exchangers for Ventilation	602														
Improved Duct Sealing (also for heating & cooling)	603														
Dedicated Outdoor Air Systems (DOAS) (reduces both AC & htg)	604														
Displacement Ventilation (new construction only)	605														
<b>HVAC Control</b>															
Retrocommissioning	700														
Commissioning	701														
Programmable Thermostat	702														
EMS install	703														
EMS Optimization	704														
Adaptive & Fuzzy Logic Control	705														
System/Component Diagnostics	706														
<b>Cooking</b>															
High Efficiency Gas Griddle	800														
High Efficiency Gas Combination Oven															
High Efficiency Gas Convection Oven	801														
High Efficiency Gas Conveyor Oven	802														
High Efficiency Gas Rack Oven															
High Efficiency Gas Broiler															
Infrared Fryer	803														
Power Burner Oven	804														
Power Burner Fryer	805														
DHW Demand management - best practices	806														
Energy Star Fryer	807														
Demand Ventilation Control	808														
High Efficiency Gas Steamer	809														
<b>Process Heat - Other</b>															
Process Heat Recovery	900														
Performance Optimization	901														
Waste Water Heat Recovery	902														
Infrared Ovens	903														
Replace thermo oxidizers	904														

\*\*\*\*\*READ ME\*\*\*\*\*

\* ALL CASES BY BUILDING TYPE THAT INCLUDES RESTAURANT CATEGORY.  
 \*\* File copied from "by recorded building type2\_original.xls" document on server

**Frequencies**

Building type_recoded2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Warehouse	4	2.0	2.0	2.0
	Retail	23	11.5	11.5	13.5
	Grocery	13	6.5	6.5	20.0
	Office	56	28.0	28.0	48.0
	Lodging	6	3.0	3.0	51.0
	Health	14	7.0	7.0	58.0
	Education	5	2.5	2.5	60.5
	Industrial	23	11.5	11.5	72.0
	Restaurant	10	5.0	5.0	77.0
	Other	46	23.0	23.0	100.0
	Total	200	100.0	100.0	

**Crosstabs**

Case Processing Summary						
	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q01: Are you the owner of this building at or do you lease space in it? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q02: Do you occupy this space, either wholly or in part? * Building type_recoded2	123	61.5%	77	38.5%	200	100.0%

**Q01: Are you the owner of this building at or do you lease space in it? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q01: Are you the owner of this building at or do you lease space in it?	Owner	Count	4	8	7	34	5	8	4	16	3	34	123
		% within Building type_recoded2	100.0%	34.8%	53.8%	60.7%	83.3%	57.1%	80.0%	69.6%	30.0%	73.9%	61.5%
	Lessee/Tenant	Count	0	15	6	22	1	6	1	7	7	12	77
		% within Building type_recoded2	.0%	65.2%	46.2%	39.3%	16.7%	42.9%	20.0%	30.4%	70.0%	26.1%	38.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q02: Do you occupy this space, either wholly or in part? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q02: Do you occupy this space, either wholly or in part?	Yes	Count	4	8	7	34	5	8	4	16	3	34	123
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Total	Count	4	8	7	34	5	8	4	16	3	34	123
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Frequencies**

**Q03: How long have you owned this space?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Refusal	5	2.5	4.1	4.1
	Less than one year	6	3.0	4.9	8.9
	1	1	.5	.8	9.8
	2	6	3.0	4.9	14.6
	3	5	2.5	4.1	18.7
	4	3	1.5	2.4	21.1

5	5	2.5	4.1	25.2
6	11	5.5	8.9	34.1
7	2	1.0	1.6	35.8
8	6	3.0	4.9	40.7
9	1	.5	.8	41.5
10	4	2.0	3.3	44.7
11	2	1.0	1.6	46.3
12	4	2.0	3.3	49.6
13	7	3.5	5.7	55.3
14	1	.5	.8	56.1
15	3	1.5	2.4	58.5
16	1	.5	.8	59.3
17	5	2.5	4.1	63.4
18	4	2.0	3.3	66.7
19	1	.5	.8	67.5
20	3	1.5	2.4	69.9
21	2	1.0	1.6	71.5
22	1	.5	.8	72.4
24	1	.5	.8	73.2
25	4	2.0	3.3	76.4
28	4	2.0	3.3	79.7
29	1	.5	.8	80.5
30	7	3.5	5.7	86.2
38	2	1.0	1.6	87.8
40	3	1.5	2.4	90.2
43	1	.5	.8	91.1
44	1	.5	.8	91.9
46	1	.5	.8	92.7
50	2	1.0	1.6	94.3
55	1	.5	.8	95.1
62	1	.5	.8	95.9
64	1	.5	.8	96.7
67	1	.5	.8	97.6
90	1	.5	.8	98.4
156	1	.5	.8	99.2
250	1	.5	.8	100.0
Total	123	61.5	100.0	
Missing	System	77	38.5	
Total		200	100.0	

### Crosstabs

#### Warnings

The crosstabulation of Q08_4: What other fuels do
The crosstabulation of Q08_5: What other fuels do
The crosstabulation of Q08_6: What other fuels do

#### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q04: When did you begin leasing this space? * Building type_recoded2	77	38.5%	123	61.5%	200	100.0%
Q05: Do you pay for the electricity this space uses? Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q06: Do you purchase natural gas for this space? Natural gas is typically piped and metered, and it is different from propane or bottled gas. * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q07: Do you pay for other types of fuel for this space? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%



Q08_1: What other fuels do you use?[1 * Building type_recoded2]	114	57.0%	86	43.0%	200	100.0%
Q08_2: What other fuels do you use?[2 * Building type_recoded2]	15	7.5%	185	92.5%	200	100.0%
Q08_3: What other fuels do you use?[3 * Building type_recoded2]	1	.5%	199	99.5%	200	100.0%

**Q04: When did you begin leasing this space? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2									
			Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q04: When did you begin leasing this space?	Within this past year	Count	0	2	1	0	0	0	1	0	0	4
		% within Building type_recoded2	.0%	33.3%	4.5%	.0%	.0%	.0%	14.3%	.0%	.0%	5.2%
	Between 1 to 2 years ago	Count	3	2	3	0	0	0	1	2	2	13
		% within Building type_recoded2	20.0%	33.3%	13.6%	.0%	.0%	.0%	14.3%	28.6%	16.7%	16.9%
	Between 2 to 4 years ago	Count	5	1	2	0	0	0	1	1	1	11
		% within Building type_recoded2	33.3%	16.7%	9.1%	.0%	.0%	.0%	14.3%	14.3%	8.3%	14.3%
	Between 4 to 6 years ago	Count	1	1	3	0	2	0	2	1	0	10
		% within Building type_recoded2	6.7%	16.7%	13.6%	.0%	33.3%	.0%	28.6%	14.3%	.0%	13.0%
	Between 6 to 10 years ago	Count	1	0	4	1	4	0	0	0	8	18
		% within Building type_recoded2	6.7%	.0%	18.2%	100.0%	66.7%	.0%	.0%	.0%	66.7%	23.4%
More than 10 years ago	Count	5	0	6	0	0	1	2	3	1	18	
	% within Building type_recoded2	33.3%	.0%	27.3%	.0%	.0%	100.0%	28.6%	42.9%	8.3%	23.4%	
DONT KNOW	Count	0	0	3	0	0	0	0	0	0	3	
	% within Building type_recoded2	.0%	.0%	13.6%	.0%	.0%	.0%	.0%	.0%	.0%	3.9%	
Total	Count	15	6	22	1	6	1	7	7	12	77	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q05: Do you pay for the electricity this space uses? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q05: Do you pay for the electricity this space uses?	Yes	Count	3	22	13	55	6	14	5	23	9	46	196
		% within Building type_recoded2	75.0%	95.7%	100.0%	98.2%	100.0%	100.0%	100.0%	100.0%	90.0%	100.0%	98.0%
	No	Count	1	0	0	1	0	0	0	0	0	1	3
		% within Building type_recoded2	25.0%	.0%	.0%	1.8%	.0%	.0%	.0%	.0%	.0%	10.0%	.0%
	DONT KNOW	Count	0	1	0	0	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	4.3%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q06: Do you purchase natural gas for this space? Natural gas is typically piped and metered, and it is different from propane or bottled gas. \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q06: Do you purchase natural gas for this space? Natural gas is typically piped and metered, and it is different from propane or bottled gas.	Yes	Count	1	10	5	19	0	5	3	5	4	9	61
		% within Building type_recoded2	25.0%	43.5%	38.5%	33.9%	.0%	35.7%	60.0%	21.7%	40.0%	19.6%	30.5%
	No	Count	3	11	8	37	6	8	2	18	6	37	136
		% within Building type_recoded2	75.0%	47.8%	61.5%	66.1%	100.0%	57.1%	40.0%	78.3%	60.0%	80.4%	68.0%
	DONT KNOW	Count	0	2	0	0	0	1	0	0	0	0	3
		% within Building type_recoded2	.0%	8.7%	.0%	.0%	.0%	7.1%	.0%	.0%	.0%	.0%	1.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q07: Do you pay for other types of fuel for this space? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q07: Do you pay for other types of fuel for this space?	Yes	Count	1	8	9	25	6	7	3	17	1	37	114
		% within Building type_recoded2	25.0%	34.8%	69.2%	44.6%	100.0%	50.0%	60.0%	73.9%	10.0%	80.4%	57.0%
	No	Count	3	14	4	30	0	7	2	6	9	9	84

		% within Building type_recoded2	75.0%	60.9%	30.8%	53.6%	.0%	50.0%	40.0%	26.1%	90.0%	19.6%	42.0%
	DONT KNOW	Count	0	1	0	1	0	0	0	0	0	0	2
		% within Building type_recoded2	.0%	4.3%	.0%	1.8%	.0%	.0%	.0%	.0%	.0%	.0%	1.0%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q08\_1: What other fuels do you use?|1 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q08_1: What other fuels do you use? 1	Oil	Count	1	1	6	13	3	7	2	5	0	20	58
		% within Building type_recoded2	100.0%	12.5%	66.7%	52.0%	50.0%	100.0%	66.7%	29.4%	.0%	54.1%	50.9%
	Kerosene	Count	0	0	0	0	0	0	0	1	0	2	3
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	5.9%	.0%	5.4%	2.6%
	Bottled gas or propane	Count	0	6	3	9	3	0	1	10	0	13	45
		% within Building type_recoded2	.0%	75.0%	33.3%	36.0%	50.0%	.0%	33.3%	58.8%	.0%	35.1%	39.5%
	Wood	Count	0	0	0	0	0	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.7%	.9%
	6	Count	0	1	0	2	0	0	0	0	0	0	3
		% within Building type_recoded2	.0%	12.5%	.0%	8.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.6%
	Other (specify)	Count	0	0	0	1	0	0	0	1	0	0	2
		% within Building type_recoded2	.0%	.0%	.0%	4.0%	.0%	.0%	.0%	5.9%	.0%	.0%	1.8%
	DONT KNOW	Count	0	0	0	0	0	0	0	0	1	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	100.0%	2.7%	1.8%
Total	Count	1	8	9	25	6	7	3	17	1	37	114	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q08\_2: What other fuels do you use?|2 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2					
			Grocery	Office	Lodging	Industrial	Other	Total
Q08_2: What other fuels do you use? 2	Oil	Count	0	3	0	2	1	6
		% within Building type_recoded2	.0%	75.0%	.0%	66.7%	20.0%	40.0%
	Bottled gas or propane	Count	1	1	2	0	2	6
		% within Building type_recoded2	100.0%	25.0%	100.0%	.0%	40.0%	40.0%
	Wood	Count	0	0	0	1	1	2
		% within Building type_recoded2	.0%	.0%	.0%	33.3%	20.0%	13.3%
	Other (specify)	Count	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	20.0%	6.7%
	Total	Count	1	4	2	3	5	15
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q08\_3: What other fuels do you use?|3 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2	
			Other	Total
Q08_3: What other fuels do you use? 3	Wood	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
		% within Building type_recoded2	100.0%	100.0%

**Frequencies**

**Q09: Approximately what is the total square footage of this space?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	73	36.5	36.5	36.5
	100	1	.5	.5	37.0
	300	1	.5	.5	37.5
	400	1	.5	.5	38.0

500	1	.5	.5	38.5
600	3	1.5	1.5	40.0
625	1	.5	.5	40.5
720	1	.5	.5	41.0
800	2	1.0	1.0	42.0
850	1	.5	.5	42.5
875	1	.5	.5	43.0
900	4	2.0	2.0	45.0
920	1	.5	.5	45.5
970	1	.5	.5	46.0
1000	1	.5	.5	46.5
1100	4	2.0	2.0	48.5
1152	1	.5	.5	49.0
1200	4	2.0	2.0	51.0
1250	1	.5	.5	51.5
1400	1	.5	.5	52.0
1500	11	5.5	5.5	57.5
1600	3	1.5	1.5	59.0
1800	3	1.5	1.5	60.5
2000	7	3.5	3.5	64.0
2100	1	.5	.5	64.5
2200	3	1.5	1.5	66.0
2300	1	.5	.5	66.5
2400	1	.5	.5	67.0
2500	7	3.5	3.5	70.5
2750	1	.5	.5	71.0
2800	2	1.0	1.0	72.0
3000	4	2.0	2.0	74.0
3500	1	.5	.5	74.5
3600	2	1.0	1.0	75.5
3700	1	.5	.5	76.0
4000	7	3.5	3.5	79.5
4500	2	1.0	1.0	80.5
5000	4	2.0	2.0	82.5
5100	1	.5	.5	83.0
5600	1	.5	.5	83.5
6000	3	1.5	1.5	85.0
7500	1	.5	.5	85.5
7776	1	.5	.5	86.0
8000	3	1.5	1.5	87.5
10000	1	.5	.5	88.0
10500	1	.5	.5	88.5
11000	3	1.5	1.5	90.0
11250	1	.5	.5	90.5
11500	2	1.0	1.0	91.5
12000	1	.5	.5	92.0
14766	1	.5	.5	92.5
16000	1	.5	.5	93.0
20100	1	.5	.5	93.5
25000	2	1.0	1.0	94.5
26658	1	.5	.5	95.0
30000	1	.5	.5	95.5
37050	1	.5	.5	96.0
40000	1	.5	.5	96.5
42000	1	.5	.5	97.0
47000	1	.5	.5	97.5
65000	1	.5	.5	98.0
71000	1	.5	.5	98.5
74000	1	.5	.5	99.0
100000	1	.5	.5	99.5
500000	1	.5	.5	100.0
Total	200	100.0	100.0	

Crosstabs

Case Processing Summary

	Cases		
	Valid	Missing	Total

	N	Percent	N	Percent	N	Percent
Q10: About what year was this building constructed? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q11: What principal business activity occurs in this space? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q12: How many employees work in this space during the main shift, that is, when most employees are present? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q10: About what year was this building constructed? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q10: About what year was this building constructed?	Before 1950	Count	0	2	6	15	4	4	2	1	3	12	49
		% within Building type_recoded2	.0%	8.7%	46.2%	26.8%	66.7%	28.6%	40.0%	4.3%	30.0%	26.1%	24.5%
	1950 to 1979	Count	3	5	3	6	0	5	0	10	0	15	47
		% within Building type_recoded2	75.0%	21.7%	23.1%	10.7%	.0%	35.7%	.0%	43.5%	.0%	32.6%	23.5%
	1980 to 1989	Count	1	4	0	7	0	1	1	3	2	4	23
		% within Building type_recoded2	25.0%	17.4%	.0%	12.5%	.0%	7.1%	20.0%	13.0%	20.0%	8.7%	11.5%
	1990 to 1999	Count	0	0	1	6	1	0	0	3	2	7	20
		% within Building type_recoded2	.0%	.0%	7.7%	10.7%	16.7%	.0%	.0%	13.0%	20.0%	15.2%	10.0%
	2000 to 2004	Count	0	2	1	4	0	0	2	2	0	2	13
		% within Building type_recoded2	.0%	8.7%	7.7%	7.1%	.0%	.0%	40.0%	8.7%	.0%	4.3%	6.5%
	2005	Count	0	1	0	3	0	0	0	0	0	2	6
		% within Building type_recoded2	.0%	4.3%	.0%	5.4%	.0%	.0%	.0%	.0%	.0%	4.3%	3.0%
	2006	Count	0	1	0	0	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	4.3%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.5%
	2007	Count	0	0	0	0	0	0	0	0	1	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	10.0%	.0%	.5%
	2008	Count	0	0	0	1	0	1	0	0	0	0	2
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	.0%	1.0%
DONT KNOW	Count	Count	0	8	2	14	1	3	0	4	2	4	38
		% within Building type_recoded2	.0%	34.8%	15.4%	25.0%	16.7%	21.4%	.0%	17.4%	20.0%	8.7%	19.0%
Total	Count	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q11: What principal business activity occurs in this space? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q11: What principal business activity occurs in this space?	Office/Professional (e.g., reliance on computers)	Count	0	0	0	51	0	0	0	0	0	0	51
		% within Building type_recoded2	.0%	.0%	.0%	91.1%	.0%	.0%	.0%	.0%	.0%	.0%	.0%
	Personal services (e.g., beauty salon, etc.)	Count	0	0	0	0	0	0	0	0	0	3	3
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	6.5%
	Medical office building, doctor's office [CODE	Count	0	0	0	0	0	14	0	0	0	0	14
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	100.0%	.0%	.0%	.0%	.0%	7.0%
	Non-food Retail	Count	0	23	0	0	0	0	0	0	0	0	23
		% within Building type_recoded2	.0%	100.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%
	Food Retail (grocery, convenience store,	Count	0	0	13	0	0	0	0	0	0	10	23
		% within Building type_recoded2	.0%	.0%	100.0%	.0%	.0%	.0%	.0%	.0%	.0%	100.0%	.0%
	Lodging	Count	0	0	0	0	6	0	0	0	0	0	6
		% within Building type_recoded2	.0%	.0%	.0%	.0%	100.0%	.0%	.0%	.0%	.0%	.0%	3.0%
	Auto or equipment repair	Count	0	0	0	0	0	0	0	0	0	14	14
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	30.4%
	School, education	Count	0	0	0	0	0	0	5	0	0	0	5
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	100.0%	.0%	.0%	.0%	.0%
Public space,	Count	Count	0	0	0	0	0	0	0	0	0	4	4
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	4.0%

meeting space	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	8.7%	2.0%
Religious	Count	0	0	0	0	0	0	0	0	0	3	3
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	6.5%	1.5%
Warehouse/Storage	Count	4	0	0	0	0	0	0	0	0	0	4
	% within Building type_recoded2	100.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.0%
Industrial metals machining, fabrication	Count	0	0	0	0	0	0	0	7	0	0	7
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	30.4%	.0%	.0%	3.5%
Industrial parts assembly	Count	0	0	0	0	0	0	0	4	0	0	4
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	17.4%	.0%	.0%	2.0%
Industrial other (specify)	Count	0	0	0	0	0	0	0	12	0	0	12
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	52.2%	.0%	.0%	6.0%
Agricultural	Count	0	0	0	0	0	0	0	0	0	7	7
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	15.2%	3.5%
Condo / apartment management	Count	0	0	0	5	0	0	0	0	0	0	5
	% within Building type_recoded2	.0%	.0%	.0%	8.9%	.0%	.0%	.0%	.0%	.0%	.0%	2.5%
Plumbing and Heating	Count	0	0	0	0	0	0	0	0	0	5	5
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	10.9%	2.5%
Electrical	Count	0	0	0	0	0	0	0	0	0	3	3
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	6.5%	1.5%
OTHER (specify)	Count	0	0	0	0	0	0	0	0	0	7	7
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	15.2%	3.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q12: How many employees work in this space during the main shift, that is, when most employees are present? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q12: How many employees work in this space during the main shift, that is, when most employees are present?	None	Count	1	0	0	3	0	0	0	1	1	1	7
		% within Building type_recoded2	25.0%	.0%	.0%	5.4%	.0%	.0%	.0%	4.3%	10.0%	2.2%	3.5%
	1 to 4	Count	1	16	9	23	5	5	0	12	4	30	105
		% within Building type_recoded2	25.0%	69.6%	69.2%	41.1%	83.3%	35.7%	.0%	52.2%	40.0%	65.2%	52.5%
	5 to 9	Count	0	2	2	13	0	4	0	5	2	9	37
		% within Building type_recoded2	.0%	8.7%	15.4%	23.2%	.0%	28.6%	.0%	21.7%	20.0%	19.6%	18.5%
	10 to 19	Count	0	2	1	8	0	2	0	4	1	4	22
		% within Building type_recoded2	.0%	8.7%	7.7%	14.3%	.0%	14.3%	.0%	17.4%	10.0%	8.7%	11.0%
	20 to 49	Count	1	1	1	4	0	1	2	1	2	2	15
		% within Building type_recoded2	25.0%	4.3%	7.7%	7.1%	.0%	7.1%	40.0%	4.3%	20.0%	4.3%	7.5%
	50 to 99	Count	1	1	0	1	1	0	0	0	0	0	4
		% within Building type_recoded2	25.0%	4.3%	.0%	1.8%	16.7%	.0%	.0%	.0%	.0%	.0%	2.0%
	100 to 249	Count	0	0	0	0	0	2	1	0	0	0	3
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	14.3%	20.0%	.0%	.0%	.0%	1.5%
	DONT KNOW	Count	0	1	0	4	0	0	2	0	0	0	7
		% within Building type_recoded2	.0%	4.3%	.0%	7.1%	.0%	.0%	40.0%	.0%	.0%	.0%	3.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

## Frequencies

Q13: How many hours per week is this space normally open-regular business hours?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	8	4.0	4.0	4.0
	10	2	1.0	1.0	5.0
	13	1	.5	.5	5.5
	15	2	1.0	1.0	6.5
	16	1	.5	.5	7.0

20	1	.5	.5	7.5
25	2	1.0	1.0	8.5
30	4	2.0	2.0	10.5
32	3	1.5	1.5	12.0
34	1	.5	.5	12.5
35	6	3.0	3.0	15.5
36	1	.5	.5	16.0
38	2	1.0	1.0	17.0
40	62	31.0	31.0	48.0
42	2	1.0	1.0	49.0
44	1	.5	.5	49.5
45	10	5.0	5.0	54.5
46	1	.5	.5	55.0
48	2	1.0	1.0	56.0
50	18	9.0	9.0	65.0
54	2	1.0	1.0	66.0
55	5	2.5	2.5	68.5
56	3	1.5	1.5	70.0
60	14	7.0	7.0	77.0
63	1	.5	.5	77.5
66	2	1.0	1.0	78.5
69	1	.5	.5	79.0
70	9	4.5	4.5	83.5
72	1	.5	.5	84.0
75	1	.5	.5	84.5
80	2	1.0	1.0	85.5
81	1	.5	.5	86.0
82	2	1.0	1.0	87.0
84	5	2.5	2.5	89.5
85	1	.5	.5	90.0
90	1	.5	.5	90.5
94	1	.5	.5	91.0
98	2	1.0	1.0	92.0
100	3	1.5	1.5	93.5
102	1	.5	.5	94.0
105	2	1.0	1.0	95.0
115	1	.5	.5	95.5
126	2	1.0	1.0	96.5
136	1	.5	.5	97.0
168	6	3.0	3.0	100.0
Total	200	100.0	100.0	

### Crosstabs

#### Warnings

The crosstabulation of Q14_4: Which types of
The crosstabulation of Q14_5: Which types of
The crosstabulation of Q14_6: Which types of
The crosstabulation of Q14_7: Which types of

#### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q14_1: Which types of heating equipment are primarily used to heat this space? 1 * Building type needed?	200	100.0%	0	.0%	200	100.0%
Q14_2: Which types of heating equipment are primarily used to heat this space? 2 * Building type needed?	12	6.0%	188	94.0%	200	100.0%

Q14_3: Which types of heating equipment are primarily used to heat this space? 3 * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q15: Is it an air source heat pump or geothermal heat pump, which also might be referred to as a ground source or water source heat pump? * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q16: What is the main energy source for heating? * Building type_recoded2	188	94.0%	12	6.0%	200	100.0%
Q17: About how old is your main heating system? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q18: So the system is fairly new. Did you specify that the new equipment be energy efficient? * Building type_recoded2	75	37.5%	125	62.5%	200	100.0%

Q14\_1: Which types of heating equipment are primarily used to heat this space?|1 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2												
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q14_1: Which types of heating equipment are primarily used to heat this space? 1	Furnaces that heat air directly, without using steam or	Count	1	7	9	20	1	9	1	10	5	19	82	72
	% within Building type_recoded2		25.0%	30.4%	69.2%	35.7%	16.7%	64.3%	20.0%	43.5%	50.0%	41.3%	41.0%	40.7%
	Boilers inside the building that produce steam or	Count	0	3	1	14	4	5	0	3	0	10	40	37
	% within Building type_recoded2		.0%	13.0%	7.7%	25.0%	66.7%	35.7%	.0%	13.0%	.0%	21.7%	20.0%	20.9%
	Heat pumps	Count	0	0	0	0	0	0	0	0	0	1	1	1
	% within Building type_recoded2		.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.2%	.5%	.6%
	Rooftop or packaged heating units, other than heat pumps (SEE	Count	0	7	3	3	0	0	2	1	1	1	18	17
	% within Building type_recoded2		.0%	30.4%	23.1%	5.4%	.0%	.0%	40.0%	4.3%	10.0%	2.2%	9.0%	9.6%
	Individual space heaters, other than heat pumps	Count	1	0	0	2	0	0	0	3	1	2	9	6
	% within Building type_recoded2		25.0%	.0%	.0%	3.6%	.0%	.0%	.0%	13.0%	10.0%	4.3%	4.5%	3.4%
	District steam or hot water piped in from outside the	Count	0	1	0	1	0	0	1	2	1	3	9	7
	% within Building type_recoded2		.0%	4.3%	.0%	1.8%	.0%	.0%	20.0%	8.7%	10.0%	6.5%	4.5%	4.0%
	Woodstove	Count	0	0	0	0	0	0	0	2	0	0	2	0
	% within Building type_recoded2		.0%	.0%	.0%	.0%	.0%	.0%	.0%	8.7%	.0%	.0%	1.0%	.0%
	No heating	Count	1	0	0	0	0	0	0	0	0	0	1	1
	% within Building type_recoded2		25.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.5%	.6%
	Can identify fuel, but not equipment	Count	0	2	0	2	0	0	0	0	1	6	11	11
	% within Building type_recoded2		.0%	8.7%	.0%	3.6%	.0%	.0%	.0%	.0%	10.0%	13.0%	5.5%	6.2%
	Other heating equipment (specify)	Count	0	0	0	0	1	0	0	1	1	0	3	2
	% within Building type_recoded2		.0%	.0%	.0%	.0%	16.7%	.0%	.0%	4.3%	10.0%	.0%	1.5%	1.1%
DON'T KNOW	Count	1	3	0	14	0	0	1	1	0	4	24	23	
% within Building type_recoded2		25.0%	13.0%	.0%	25.0%	.0%	.0%	20.0%	4.3%	.0%	8.7%	12.0%	13.0%	
Total	Count	4	23	13	56	6	14	5	23	10	46	200	177	
% within Building type_recoded2		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q14\_2: Which types of heating equipment are primarily used to heat this space?|2 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2					
			Office	Industrial	Restaurant	Other	Total
Q14_2: Which types of heating equipment are primarily used to heat this space? 2	Furnaces that heat air directly, without using steam or	Count	0	1	1	2	4
	% within Building type_recoded2		.0%	25.0%	100.0%	33.3%	33.3%
	Boilers inside the building that produce steam or	Count	0	0	0	1	1
	% within Building type_recoded2		.0%	.0%	.0%	16.7%	8.3%
	Rooftop or packaged heating units, other than heat pumps (SEE	Count	0	1	0	0	1
	% within Building type_recoded2		.0%	25.0%	.0%	.0%	8.3%
Individual space	Count	1	0	0	1	2	

heaters, other than heat pumps	% within Building type_recoded2	100.0%	.0%	.0%	16.7%	16.7%
District steam or hot water piped in from outside the	Count	0	1	0	0	1
	% within Building type_recoded2	.0%	25.0%	.0%	.0%	8.3%
Woodstove	Count	0	0	0	2	2
	% within Building type_recoded2	.0%	.0%	.0%	33.3%	16.7%
No heating	Count	0	1	0	0	1
	% within Building type_recoded2	.0%	25.0%	.0%	.0%	8.3%
Total	Count	1	4	1	6	12
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%

Q14\_3: Which types of heating equipment are primarily used to heat this space?|3 \* Building

			Building type_recoded2	
			Other	Total
Q14_3: Which types of heating equipment are primarily used to heat this space? 3	Other heating equipment (specify)	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
	% within Building type_recoded2	100.0%	100.0%	

Q15: Is it an air source heat pump or geothermal heat pump, which also might be referred to as a ground source or water source heat pump? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2	
			Other	Total
Q15: Is it an air source heat pump or geothermal heat pump, which also might be referred to as a ground source or water source heat pump?	Geothermal heat pump	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
	% within Building type_recoded2	100.0%	100.0%	

Q16: What is the main energy source for heating? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q16: What is the main energy source for heating?	Electricity	Count	1	0	1	4	0	1	0	1	4	4	16
		% within Building type_recoded2	25.0%	.0%	7.7%	7.5%	.0%	7.1%	.0%	5.3%	40.0%	9.3%	8.5%
	Natural gas (CONFIRM: IS IT PIPED AND	Count	2	10	2	13	0	4	1	2	1	5	40
		% within Building type_recoded2	50.0%	45.5%	15.4%	24.5%	.0%	28.6%	25.0%	10.5%	10.0%	11.6%	21.3%
	Oil	Count	0	3	8	17	5	8	1	6	0	20	68
		% within Building type_recoded2	.0%	13.6%	61.5%	32.1%	83.3%	57.1%	25.0%	31.6%	.0%	46.5%	36.2%
	Kerosene	Count	0	0	0	0	0	0	0	1	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	5.3%	.0%	.0%	.5%
	Bottled gas or propane (CONFIRM:	Count	0	7	2	11	1	0	1	7	4	8	41
		% within Building type_recoded2	.0%	31.8%	15.4%	20.8%	16.7%	.0%	25.0%	36.8%	40.0%	18.6%	21.8%
	Wood	Count	1	0	0	0	0	0	0	2	0	1	4
		% within Building type_recoded2	25.0%	.0%	.0%	.0%	.0%	.0%	.0%	10.5%	.0%	2.3%	2.1%
	Solar	Count	0	0	0	1	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	1.9%	.0%	.0%	.0%	.0%	.0%	.0%	.5%
	No heating	Count	0	0	0	0	0	0	0	0	1	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	10.0%	2.3%	1.1%
	Don't know	Count	0	2	0	7	0	1	1	0	0	4	15
		% within Building type_recoded2	.0%	9.1%	.0%	13.2%	.0%	7.1%	25.0%	.0%	.0%	9.3%	8.0%
Total	Count	4	22	13	53	6	14	4	19	10	43	188	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q17: About how old is your main heating system? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q17: About how old is your main heating system?	Under 5 years old	Count	1	5	3	11	0	1	1	4	4	13	43
		% within Building type_recoded2	25.0%	21.7%	23.1%	19.6%	.0%	7.1%	20.0%	17.4%	40.0%	28.3%	21.5%



5 to less than 10 years old (installed late 1990s to early	Count	1	2	3	9	3	3	1	3	0	7	32
	% within Building type_recoded2	25.0%	8.7%	23.1%	16.1%	50.0%	21.4%	20.0%	13.0%	.0%	15.2%	16.0%
10 to less than 25 years old (say about 1980 to the	Count	0	3	2	14	2	3	1	11	3	13	52
	% within Building type_recoded2	.0%	13.0%	15.4%	25.0%	33.3%	21.4%	20.0%	47.8%	30.0%	28.3%	26.0%
25 to 40 years old (say about 1965 through 1980)	Count	0	3	3	3	0	0	0	1	0	3	13
	% within Building type_recoded2	.0%	13.0%	23.1%	5.4%	.0%	.0%	.0%	4.3%	.0%	6.5%	6.5%
More than 40 years old (say before 1965)	Count	1	0	0	1	1	0	0	0	0	1	4
	% within Building type_recoded2	25.0%	.0%	.0%	1.8%	16.7%	.0%	.0%	.0%	.0%	2.2%	2.0%
DONT KNOW	Count	1	10	2	18	0	7	2	4	3	9	56
	% within Building type_recoded2	25.0%	43.5%	15.4%	32.1%	.0%	50.0%	40.0%	17.4%	30.0%	19.6%	28.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q18: So the system is fairly new. Did you specify that the new equipment be energy efficient? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q18: So the system is fairly new. Did you specify that the new equipment be energy efficient?	Yes	Count	2	4	4	14	2	3	2	6	3	51
		% within Building type_recoded2	100.0%	57.1%	66.7%	70.0%	66.7%	75.0%	100.0%	85.7%	75.0%	68.0%
	No	Count	0	0	0	0	0	0	0	0	4	4
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	20.0%	5.3%
	Not applicable-someone else installed the	Count	0	3	0	4	1	1	0	0	1	11
		% within Building type_recoded2	.0%	42.9%	.0%	20.0%	33.3%	25.0%	.0%	.0%	25.0%	14.7%
	DONT KNOW	Count	0	0	2	2	0	0	0	1	0	9
	% within Building type_recoded2	.0%	.0%	33.3%	10.0%	.0%	.0%	.0%	14.3%	.0%	12.0%	
Total	Count	2	7	6	20	3	4	2	7	4	75	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Frequencies

Q19: What percentage of this space was heated to at least 50 degrees Fahrenheit in the past 12 months?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	4	2.0	2.0	2.0
	0	7	3.5	3.5	5.5
	10	1	.5	.5	6.0
	25	1	.5	.5	6.5
	33	2	1.0	1.0	7.5
	40	1	.5	.5	8.0
	45	1	.5	.5	8.5
	50	7	3.5	3.5	12.0
	75	6	3.0	3.0	15.0
	80	9	4.5	4.5	19.5
	85	1	.5	.5	20.0
	90	1	.5	.5	20.5
	95	1	.5	.5	21.0
	98	1	.5	.5	21.5
	99	1	.5	.5	22.0
	100	156	78.0	78.0	100.0
	Total	200	100.0	100.0	

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q20: Do you have control over the temperature of the heating? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q21: Do you have a programmable thermostat? * Building type_recoded2	180	90.0%	20	10.0%	200	100.0%
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Q20: Do you have control over the temperature of the heating? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q20: Do you have control over the temperature of the heating?	Yes	Count	2	22	12	50	6	14	4	19	8	43	180
		% within Building type_recoded2	50.0%	95.7%	92.3%	89.3%	100.0%	100.0%	80.0%	82.6%	80.0%	93.5%	90.0%
	No	Count	2	1	1	6	0	0	1	3	2	3	19
		% within Building type_recoded2	50.0%	4.3%	7.7%	10.7%	.0%	.0%	20.0%	13.0%	20.0%	6.5%	9.5%
	DONT KNOW	Count	0	0	0	0	0	0	0	1	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	4.3%	.0%	.0%	.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only

161

91.0%

Q21: Do you have a programmable thermostat? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q21: Do you have a programmable thermostat?	Yes	Count	1	11	6	31	3	7	3	8	5	20	95
		% within Building type_recoded2	50.0%	50.0%	50.0%	62.0%	50.0%	50.0%	75.0%	42.1%	62.5%	46.5%	52.8%
	No	Count	1	10	6	18	3	6	1	11	3	21	80
		% within Building type_recoded2	50.0%	45.5%	50.0%	36.0%	50.0%	42.9%	25.0%	57.9%	37.5%	48.8%	44.4%
	DONT KNOW	Count	0	1	0	1	0	1	0	0	0	2	5
		% within Building type_recoded2	.0%	4.5%	.0%	2.0%	.0%	7.1%	.0%	.0%	.0%	4.7%	2.8%
Total	Count	2	22	12	50	6	14	4	19	8	43	180	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only

87

54.0%

Frequencies

Q22: What percentage of this space was cooled by air conditioning equipment in the past 12 months?

	Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	DONT KNOW	4	2.0	2.0	2.0
	0	46	23.0	23.0	25.0
	5	5	2.5	2.5	27.5
	10	6	3.0	3.0	30.5
	15	2	1.0	1.0	31.5
	20	2	1.0	1.0	32.5
	25	7	3.5	3.5	36.0
	30	1	.5	.5	36.5
	33	1	.5	.5	37.0
	35	1	.5	.5	37.5
	40	3	1.5	1.5	39.0
	45	2	1.0	1.0	40.0
	50	12	6.0	6.0	46.0
	60	3	1.5	1.5	47.5
	65	2	1.0	1.0	48.5
	66	1	.5	.5	49.0
	75	9	4.5	4.5	53.5
	80	7	3.5	3.5	57.0
	82	1	.5	.5	57.5
	90	2	1.0	1.0	58.5
	99	1	.5	.5	59.0
	100	82	41.0	41.0	100.0
Total		200	100.0	100.0	

Crosstabs

Warnings

The crosstabulation of Q31\_2: Do you have any of

The crosstabulation of Q31\_3: Do you have any of  
 The crosstabulation of Q31\_4: Do you have any of

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q24: What type of air conditioning equipment is primarily used? * Building type_recoded2	154	77.0%	46	23.0%	200	100.0%
Q25: What energy source is primarily used for air conditioning? * Building type_recoded2	133	66.5%	67	33.5%	200	100.0%
Q26: Do you have control over the temperature of the cooling? * Building type_recoded2	154	77.0%	46	23.0%	200	100.0%
Q27: Do you have a programmable thermostat? * Building type_recoded2	56	28.0%	144	72.0%	200	100.0%
Q28: Is hot water used in this space? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q29: Does this space engage in any activities or use equipment requiring large amounts of hot water? * Building type_recoded2	165	82.5%	35	17.5%	200	100.0%
Q30: What is the main energy source for heating water? * Building type_recoded2	165	82.5%	35	17.5%	200	100.0%
Q31_1: Do you have any of the following types of water heaters?1 * Building type_recoded2	165	82.5%	35	17.5%	200	100.0%
Q32: What type of system is your main water heater? Would you say it is a: * Building type_recoded2	165	82.5%	35	17.5%	200	100.0%
Q33: Is any refrigeration or freezer equipment used in this space, including vending machines and ice makers? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q24: What type of air conditioning equipment is primarily used? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2											
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q24: What type of air conditioning equipment is primarily used?	Central chillers inside building that chill water for air	Count	0	4	3	12	0	9	1	3	2	6	40	
		% within Building type_recoded2	.0%	18.2%	27.3%	25.0%	.0%	69.2%	20.0%	18.8%	25.0%	26.1%	26.0%	
	Heat pumps for cooling	Count	0	0	0	1	0	0	0	2	0	0	3	
		% within Building type_recoded2	.0%	.0%	.0%	2.1%	.0%	.0%	.0%	12.5%	.0%	.0%	1.9%	
	Rooftop or packaged air conditioning units	Count	1	8	4	6	0	2	2	3	1	2	29	
		% within Building type_recoded2	50.0%	36.4%	36.4%	12.5%	.0%	15.4%	40.0%	18.8%	12.5%	8.7%	18.8%	
	Residential-type central air conditioners, not	Count	1	1	1	6	1	0	0	4	3	2	19	
		% within Building type_recoded2	50.0%	4.5%	9.1%	12.5%	16.7%	.0%	.0%	25.0%	37.5%	8.7%	12.3%	
	Individual room air conditioners, other than heat pumps	Count	0	8	2	12	3	0	1	3	1	6	36	
		% within Building type_recoded2	.0%	36.4%	18.2%	25.0%	50.0%	.0%	20.0%	18.8%	12.5%	26.1%	23.4%	
	District chilled water piped in from outside the	Count	0	0	0	1	1	1	0	1	0	2	6	
		% within Building type_recoded2	.0%	.0%	.0%	2.1%	16.7%	7.7%	.0%	6.3%	.0%	8.7%	3.9%	
	DONT KNOW	Count	0	1	1	10	1	1	1	0	1	1	5	21
		% within Building type_recoded2	.0%	4.5%	9.1%	20.8%	16.7%	7.7%	20.0%	.0%	12.5%	21.7%	13.6%	
Total	Count	2	22	11	48	6	13	5	16	8	23	154		

	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
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**Q25: What energy source is primarily used for air conditioning? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q25: What energy source is primarily used for air conditioning?	Electricity	Count	2	17	9	30	5	6	3	13	6	107
		% within Building type_recoded2	100.0%	81.0%	90.0%	78.9%	100.0%	50.0%	75.0%	81.3%	85.7%	80.5%
	Natural gas	Count	0	2	0	5	0	2	0	3	0	12
		% within Building type_recoded2	.0%	9.5%	.0%	13.2%	.0%	16.7%	.0%	18.8%	.0%	9.0%
	District chilled water	Count	0	0	0	0	0	1	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	8.3%	.0%	.0%	.0%	.8%
	Other (specify)	Count	0	0	1	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	10.0%	.0%	.0%	.0%	.0%	.0%	.0%	.8%
DONT KNOW	Count	0	2	0	3	0	3	1	0	1	2	12
	% within Building type_recoded2	.0%	9.5%	.0%	7.9%	.0%	25.0%	25.0%	.0%	14.3%	11.1%	9.0%
Total	Count	2	21	10	38	5	12	4	16	7	18	133
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q26: Do you have control over the temperature of the cooling? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q26: Do you have control over the temperature of the cooling?	Yes	Count	2	21	11	46	6	13	4	16	8	21	148
		% within Building type_recoded2	100.0%	95.5%	100.0%	95.8%	100.0%	100.0%	80.0%	100.0%	100.0%	91.3%	96.1%
	No	Count	0	1	0	2	0	0	1	0	0	2	6
		% within Building type_recoded2	.0%	4.5%	.0%	4.2%	.0%	.0%	20.0%	.0%	.0%	8.7%	3.9%
	Total	Count	2	22	11	48	6	13	5	16	8	23	154
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q27: Do you have a programmable thermostat? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Industrial	Restaurant	Other	Total	
Q27: Do you have a programmable thermostat?	Yes	Count	0	0	1	1	0	0	3	0	1	6
		% within Building type_recoded2	.0%	.0%	20.0%	6.7%	.0%	.0%	33.3%	.0%	16.7%	10.7%
	No	Count	1	9	4	12	3	6	6	2	4	47
		% within Building type_recoded2	100.0%	100.0%	80.0%	80.0%	100.0%	100.0%	66.7%	100.0%	66.7%	83.9%
	DONT KNOW	Count	0	0	0	2	0	0	0	0	1	3
		% within Building type_recoded2	.0%	.0%	.0%	13.3%	.0%	.0%	.0%	.0%	16.7%	5.4%
Total	Count	1	9	5	15	3	6	9	2	6	56	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q28: Is hot water used in this space? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q28: Is hot water used in this space?	Yes	Count	2	20	12	47	6	14	5	19	8	32	165
		% within Building type_recoded2	50.0%	87.0%	92.3%	83.9%	100.0%	100.0%	100.0%	82.6%	80.0%	69.6%	82.5%
	No	Count	2	3	1	9	0	0	0	4	2	14	35
		% within Building type_recoded2	50.0%	13.0%	7.7%	16.1%	.0%	.0%	.0%	17.4%	20.0%	30.4%	17.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

commercial only

146
82.5%
31
17.5%
177

**Q29: Does this space engage in any activities or use equipment requiring large amounts of hot water? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q29: Does this space engage in any activities or use equipment requiring large amounts of hot water?	Yes	Count	0	2	3	4	4	3	2	0	6	1	25
		% within Building type_recoded2	.0%	10.0%	25.0%	8.5%	66.7%	21.4%	40.0%	.0%	75.0%	3.1%	15.2%
	No	Count	2	18	9	43	2	11	3	19	2	31	140
		% within Building type_recoded2	100.0%	90.0%	75.0%	91.5%	33.3%	78.6%	60.0%	100.0%	25.0%	96.9%	84.8%

commercial only

25
17.1%
121
82.9%

Total	Count	2	20	12	47	6	14	5	19	8	32	165
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

146

Q30: What is the main energy source for heating water? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q30: What is the main energy source for heating water?	Electricity	Count	2	13	4	17	3	7	1	11	2	80	
		% within Building type_recoded2	100.0%	65.0%	33.3%	36.2%	50.0%	50.0%	20.0%	57.9%	25.0%	62.5%	48.5%
	Natural gas (CONFIRM: IS IT PIPED AND	Count	0	1	2	5	0	2	2	2	2	18	
		% within Building type_recoded2	.0%	5.0%	16.7%	10.6%	.0%	14.3%	40.0%	10.5%	25.0%	6.3%	10.9%
	Oil	Count	0	1	3	8	0	4	0	1	0	23	
		% within Building type_recoded2	.0%	5.0%	25.0%	17.0%	.0%	28.6%	.0%	5.3%	.0%	18.8%	13.9%
	Bottled gas or propane (CONFIRM: DONT KNOW	Count	0	2	2	5	3	0	0	4	4	2	22
	% within Building type_recoded2	.0%	10.0%	16.7%	10.6%	50.0%	.0%	.0%	21.1%	50.0%	6.3%	13.3%	
Total	Count	2	20	12	47	6	14	5	19	8	32	165	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q31\_1: Do you have any of the following types of water heaters?|1 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q31_1: Do you have any of the following types of water heaters? 1	Heat pump water heater	Count	0	0	0	3	0	1	1	2	1	9	
		% within Building type_recoded2	.0%	.0%	.0%	6.4%	.0%	7.1%	20.0%	10.5%	12.5%	3.1%	5.5%
	Booster water heater	Count	0	0	0	1	2	0	1	0	1	5	
		% within Building type_recoded2	.0%	.0%	.0%	2.1%	33.3%	.0%	20.0%	.0%	12.5%	.0%	3.0%
	Point of use water heater	Count	0	1	2	8	0	0	0	3	1	19	
		% within Building type_recoded2	.0%	5.0%	16.7%	17.0%	.0%	.0%	.0%	15.8%	12.5%	12.5%	11.5%
	DONT KNOW	Count	2	19	10	35	4	13	3	14	5	132	
	% within Building type_recoded2	100.0%	95.0%	83.3%	74.5%	66.7%	92.9%	60.0%	73.7%	62.5%	84.4%	80.0%	
Total	Count	2	20	12	47	6	14	5	19	8	32	165	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only

- 7
- 4.8%
- 5
- 3.4%
- 16
- 11.0%
- 118
- 80.8%

Q32: What type of system is your main water heater? Would you say it is a: \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q32: What type of system is your main water heater? Would you say it is a:	Traditional water heater tank	Count	2	13	10	20	5	8	4	14	5	97	
		% within Building type_recoded2	100.0%	65.0%	83.3%	42.6%	83.3%	57.1%	80.0%	73.7%	62.5%	58.8%	
	Whole building tankless system running off boiler	Count	0	0	1	3	0	2	0	0	0	10	
		% within Building type_recoded2	.0%	.0%	8.3%	6.4%	.0%	14.3%	.0%	.0%	.0%	6.1%	
	Whole building on-demand system, where water is heated centrally as	Count	0	0	0	0	0	0	1	1	1	4	
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	20.0%	5.3%	12.5%	3.1%	2.4%
	Point-of-use, where the water is heated at tap as	Count	0	1	0	7	0	0	0	1	0	5	14
		% within Building type_recoded2	.0%	5.0%	.0%	14.9%	.0%	.0%	.0%	5.3%	.0%	15.6%	8.5%
	DONT KNOW	Count	0	5	1	17	1	4	0	2	2	38	
		% within Building type_recoded2	.0%	25.0%	8.3%	36.2%	16.7%	28.6%	.0%	10.5%	25.0%	18.8%	23.0%
REFUSED	Count	0	1	0	0	0	0	0	1	0	2		
	% within Building type_recoded2	.0%	5.0%	.0%	.0%	.0%	.0%	.0%	5.3%	.0%	.0%	1.2%	
Total	Count	2	20	12	47	6	14	5	19	8	32	165	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only

- 83
- 56.8%
- 10
- 6.8%
- 3
- 2.1%
- 13
- 8.9%
- 36
- 24.7%
- 1
- .7%
- 146
- 100.0%

Q33: Is any refrigeration or freezer equipment used in this space, including vending machines and ice makers? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q33: Is any refrigeration or	Yes	Count	2	15	13	33	4	10	4	16	9	128

112

freezer equipment used in this space, including vending machines and ice makers?	No	% within Building type_recoded2	50.0%	65.2%	100.0%	58.9%	66.7%	71.4%	80.0%	69.6%	90.0%	47.8%	64.0%
		Count	2	8	0	23	2	4	1	7	1	24	72
	Total	% within Building type_recoded2	50.0%	34.8%	.0%	41.1%	33.3%	28.6%	20.0%	30.4%	10.0%	52.2%	36.0%
		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

63.3%
65
36.7%

**Frequencies**

**Frequency Table**

**Q34\_1: Can you tell me how many of the following types of equipment this space has?|Walk-in refrigeration units**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	107	53.5	83.6	83.6
	1	14	7.0	10.9	94.5
	2	5	2.5	3.9	98.4
	3	1	.5	.8	99.2
	4	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

**Q34\_2: Can you tell me how many of the following types of equipment this space has?|Walk-in freezer units**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	118	59.0	92.2	92.2
	1	9	4.5	7.0	99.2
	2	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

**Q34\_3: Can you tell me how many of the following types of equipment this space has?|Residential-type refrigerators**

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	21	10.5	16.4	16.4	
	1	78	39.0	60.9	77.3	
	2	14	7.0	10.9	88.3	
	3	4	2.0	3.1	91.4	
	4	4	2.0	3.1	94.5	
	5	2	1.0	1.6	96.1	
	6	1	.5	.8	96.9	
	8	1	.5	.8	97.7	
	10	1	.5	.8	98.4	
	17	1	.5	.8	99.2	
	80	1	.5	.8	100.0	
	Total	128	64.0	100.0		
	Missing	System	72	36.0		
	Total		200	100.0		

**Q34\_4: Can you tell me how many of the following types of equipment this space has?|Open refrigerated cases or cabinets**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	121	60.5	94.5	94.5
	1	3	1.5	2.3	96.9
	2	1	.5	.8	97.7
	3	1	.5	.8	98.4
	4	1	.5	.8	99.2
	5	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

Q34\_5: Can you tell me how many of the following types of equipment this space has?  
Closed refrigerated cases or cabinets

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-9	1	.5	.8	.8
	0	102	51.0	79.7	80.5
	1	6	3.0	4.7	85.2
	2	7	3.5	5.5	90.6
	3	3	1.5	2.3	93.0
	4	6	3.0	4.7	97.7
	8	2	1.0	1.6	99.2
	11	1	.5	.8	100.0
	Total	128	64.0	100.0	
	Missing	System	72	36.0	
Total		200	100.0		

Q34\_6: Can you tell me how many of the following types of equipment this space has?  
Closed freezer cases or cabinets

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-9	1	.5	.8	.8
	0	99	49.5	77.3	78.1
	1	17	8.5	13.3	91.4
	2	9	4.5	7.0	98.4
	3	1	.5	.8	99.2
	4	1	.5	.8	100.0
	Total	128	64.0	100.0	
	Missing	System	72	36.0	
Total		200	100.0		

Q34\_7: Can you tell me how many of the following types of equipment this space has?  
Commercial ice maker

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	107	53.5	83.6	83.6
	1	13	6.5	10.2	93.8
	2	6	3.0	4.7	98.4
	3	1	.5	.8	99.2
	6	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

Q34\_8: Can you tell me how many of the following types of equipment this space has?  
Refrigerated vending machines

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	105	52.5	82.0	82.0
	1	13	6.5	10.2	92.2
	2	5	2.5	3.9	96.1
	3	2	1.0	1.6	97.7
	4	1	.5	.8	98.4
	5	1	.5	.8	99.2
	6	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

Q34\_9: Can you tell me how many of the following types of equipment this space has?  
Other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	126	63.0	98.4	98.4
	1	1	.5	.8	99.2
	100	1	.5	.8	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

Crosstabs

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q35: Are the open refrigerated cases completely uncovered, or do they have the plastic strips that form a reach-through cover? * Building	7	3.5%	193	96.5%	200	100.0%

**Q35: Are the open refrigerated cases completely uncovered, or do they have the plastic strips that form a reach-through cover? \* Building**

			Building type_recoded2				Total
			Grocery	Office	Education	Other	
Q35: Are the open refrigerated cases completely uncovered, or do they have the plastic strips that form a reach-through cover?	Uncovered	Count	2	0	0	0	2
		% within Building type_recoded2	66.7%	.0%	.0%	.0%	28.6%
	Reach through strips	Count	1	1	0	0	2
		% within Building type_recoded2	33.3%	50.0%	.0%	.0%	28.6%
	DON'T KNOW	Count	0	1	1	1	3
		% within Building type_recoded2	.0%	50.0%	100.0%	100.0%	42.9%
	Total	Count	3	2	1	1	7
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%

**Frequencies**

**Frequency Table**

**Q36\_1: Approximately what percent of your refrigerator and freezer equipment is within the following ages:Up to 5 years old**

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	64	32.0	53.8	53.8	
	3	1	.5	.8	54.6	
	10	1	.5	.8	55.5	
	25	1	.5	.8	56.3	
	30	2	1.0	1.7	58.0	
	50	4	2.0	3.4	61.3	
	60	1	.5	.8	62.2	
	75	1	.5	.8	63.0	
	85	1	.5	.8	63.9	
	100	43	21.5	36.1	100.0	
	Total		119	59.5	100.0	
	Missing	System	81	40.5		
	Total		200	100.0		

**Q36\_2: Approximately what percent of your refrigerator and freezer equipment is within the following ages:5 to 10 years old**

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0	68	34.0	57.1	57.1	
	15	2	1.0	1.7	58.8	
	20	1	.5	.8	59.7	
	25	2	1.0	1.7	61.3	
	50	6	3.0	5.0	66.4	
	70	1	.5	.8	67.2	
	90	1	.5	.8	68.1	
	97	1	.5	.8	68.9	
	100	37	18.5	31.1	100.0	
	Total		119	59.5	100.0	
	Missing	System	81	40.5		
	Total		200	100.0		



**Q36\_3: Approximately what percent of your refrigerator and freezer equipment is within the following ages:|10-20 years old**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	97	48.5	81.5	81.5
	15	1	.5	.8	82.4
	20	1	.5	.8	83.2
	50	3	1.5	2.5	85.7
	100	17	8.5	14.3	100.0
	Total	119	59.5	100.0	
Missing	System	81	40.5		
Total		200	100.0		

**Q36\_4: Approximately what percent of your refrigerator and freezer equipment is within the following ages:|More than 20 years old**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	109	54.5	91.6	91.6
	40	1	.5	.8	92.4
	50	2	1.0	1.7	94.1
	100	7	3.5	5.9	100.0
	Total	119	59.5	100.0	
Missing	System	81	40.5		
Total		200	100.0		

**Q36\_5: Approximately what percent of your refrigerator and freezer equipment is within the following ages:|Don't know**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	119	59.5	93.0	93.0
	50	2	1.0	1.6	94.5
	100	7	3.5	5.5	100.0
	Total	128	64.0	100.0	
Missing	System	72	36.0		
Total		200	100.0		

**Crosstabs**

**Warnings**

The crosstabulation of Q37\_4: Does the

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q37_1: Does the refrigeration or freezer systems in this space have any of the following? 1 * Building type_recoded2	128	64.0%	72	36.0%	200	100.0%
Q37_2: Does the refrigeration or freezer systems in this space have any of the following? 2 * Building type_recoded2	5	2.5%	195	97.5%	200	100.0%
Q37_3: Does the refrigeration or freezer systems in this space have any of the following? 3 * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q38: Does the refrigeration or freezer systems have any energy efficiency features that we haven't discussed? * Building type_recoded2	128	64.0%	72	36.0%	200	100.0%

Q39: What efficiency features? * Building type_recoded2	10	5.0%	190	95.0%	200	100.0%
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**Q37\_1: Does the refrigeration or freezer systems in this space have any of the following?|1 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q37_1: Does the refrigeration or freezer systems in this space have any of the following? 1	Evaporative fan motor controls	Count	0	1	1	0	1	0	0	2	3	1	9
		% within Building type_recoded2	.0%	6.7%	7.7%	.0%	25.0%	.0%	.0%	12.5%	33.3%	4.5%	7.0%
	High efficiency evaporative fan motor	Count	0	0	0	0	0	0	1	0	0	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	25.0%	.0%	.0%	4.5%	1.6%
	High efficiency compressor	Count	0	0	6	0	0	2	0	1	3	0	12
		% within Building type_recoded2	.0%	.0%	46.2%	.0%	.0%	20.0%	.0%	6.3%	33.3%	.0%	9.4%
	4	Count	0	2	0	1	0	0	0	0	0	0	3
		% within Building type_recoded2	.0%	13.3%	.0%	3.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.3%
	DONT KNOW/NO RESPONSE	Count	2	12	6	32	3	8	3	13	3	20	102
		% within Building type_recoded2	100.0%	80.0%	46.2%	97.0%	75.0%	80.0%	75.0%	81.3%	33.3%	90.9%	79.7%
Total	Count	2	15	13	33	4	10	4	16	9	22	128	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

7
6.3%
2
1.8%
11
9.8%
3
2.7%
89
79.5%
112
100.0%

**Q37\_2: Does the refrigeration or freezer systems in this space have any of the following?|2 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2		
			Grocery	Restaurant	Total
Q37_2: Does the refrigeration or freezer systems in this space have any of the following? 2	High efficiency evaporative fan motor	Count	2	1	3
		% within Building type_recoded2	66.7%	50.0%	60.0%
	High efficiency compressor	Count	1	1	2
		% within Building type_recoded2	33.3%	50.0%	40.0%
Total	Count	3	2	5	
	% within Building type_recoded2	100.0%	100.0%	100.0%	

**Q37\_3: Does the refrigeration or freezer systems in this space have any of the following?|3 \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2	
			Restaurant	Total
Q37_3: Does the refrigeration or freezer systems in this space have any of the following? 3	High efficiency compressor	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
	% within Building type_recoded2	100.0%	100.0%	

**Q38: Does the refrigeration or freezer systems have any energy efficiency features that we haven't discussed? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q38: Does the refrigeration or freezer systems have any energy efficiency features that we haven't discussed?	Yes	Count	0	3	1	1	0	1	0	1	1	2	10
		% within Building type_recoded2	.0%	20.0%	7.7%	3.0%	.0%	10.0%	.0%	6.3%	11.1%	9.1%	7.8%
	No	Count	2	10	5	20	3	6	3	13	7	17	86
		% within Building type_recoded2	100.0%	66.7%	38.5%	60.6%	75.0%	60.0%	75.0%	81.3%	77.8%	77.3%	67.2%
	DONT KNOW	Count	0	2	7	12	1	3	1	2	1	3	32
		% within Building type_recoded2	.0%	13.3%	53.8%	36.4%	25.0%	30.0%	25.0%	12.5%	11.1%	13.6%	25.0%
	Total	Count	2	15	13	33	4	10	4	16	9	22	128
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q39: What efficiency features? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2							
			Retail	Grocery	Office	Health	Industrial	Restaurant	Other	Total
Q39: What efficiency features?	Not sure-says energy efficient	Count	0	0	1	0	1	1	0	3
		% within Building type_recoded2	.0%	.0%	100.0%	.0%	100.0%	100.0%	.0%	30.0%
	Has Energy Star	Count	3	1	0	1	0	0	2	7

	logo	% within Building type_recoded2	100.0%	100.0%	.0%	100.0%	.0%	.0%	100.0%	70.0%
	Total	Count	3	1	1	1	1	1	2	10
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Frequencies**

**Frequency Table**

**Q40: How many computers are used in this space?**

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	DONT KNOW	3	1.5	1.5	1.5	
	0	26	13.0	13.0	14.5	
	1	40	20.0	20.0	34.5	
	2	26	13.0	13.0	47.5	
	3	13	6.5	6.5	54.0	
	4	15	7.5	7.5	61.5	
	5	8	4.0	4.0	65.5	
	6	16	8.0	8.0	73.5	
	7	10	5.0	5.0	78.5	
	8	6	3.0	3.0	81.5	
	9	2	1.0	1.0	82.5	
	10	11	5.5	5.5	88.0	
	12	4	2.0	2.0	90.0	
	15	2	1.0	1.0	91.0	
	16	1	.5	.5	91.5	
	20	4	2.0	2.0	93.5	
	25	3	1.5	1.5	95.0	
	27	2	1.0	1.0	96.0	
	30	1	.5	.5	96.5	
	40	2	1.0	1.0	97.5	
	50	1	.5	.5	98.0	
	60	1	.5	.5	98.5	
	70	1	.5	.5	99.0	
	100	1	.5	.5	99.5	
	200	1	.5	.5	100.0	
		Total	200	100.0	100.0	

85.5 % facilities utilize one or more computers

**Q42: What percentage of the computers have flat screen monitors?**

		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	DONT KNOW	5	2.5	2.9	2.9	
	0	26	13.0	15.2	18.1	
	1	19	9.5	11.1	29.2	
	2	4	2.0	2.3	31.6	
	3	3	1.5	1.8	33.3	
	4	1	.5	.6	33.9	
	5	3	1.5	1.8	35.7	
	10	3	1.5	1.8	37.4	
	20	3	1.5	1.8	39.2	
	25	5	2.5	2.9	42.1	
	30	1	.5	.6	42.7	
	33	3	1.5	1.8	44.4	
	35	1	.5	.6	45.0	
	40	2	1.0	1.2	46.2	
	50	13	6.5	7.6	53.8	
	60	2	1.0	1.2	55.0	
	66	2	1.0	1.2	56.1	
	75	5	2.5	2.9	59.1	
	84	1	.5	.6	59.6	
	85	1	.5	.6	60.2	
	90	4	2.0	2.3	62.6	
	99	4	2.0	2.3	64.9	
	100	60	30.0	35.1	100.0	
		Total	171	85.5	100.0	
	Missing	System	29	14.5		

Total	200	100.0	
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Q43: How many computers do you have plugged in on a typical day?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	1	.5	.6	.6
	0	1	.5	.6	1.2
	1	43	21.5	25.1	26.3
	2	25	12.5	14.6	40.9
	3	15	7.5	8.8	49.7
	4	13	6.5	7.6	57.3
	5	8	4.0	4.7	62.0
	6	16	8.0	9.4	71.3
	7	9	4.5	5.3	76.6
	8	5	2.5	2.9	79.5
	9	2	1.0	1.2	80.7
	10	10	5.0	5.8	86.5
	12	4	2.0	2.3	88.9
	15	1	.5	.6	89.5
	16	1	.5	.6	90.1
	20	4	2.0	2.3	92.4
	25	3	1.5	1.8	94.2
	27	2	1.0	1.2	95.3
	30	1	.5	.6	95.9
	40	2	1.0	1.2	97.1
	50	1	.5	.6	97.7
	60	1	.5	.6	98.2
	70	1	.5	.6	98.8
	100	1	.5	.6	99.4
200	1	.5	.6	100.0	
Total		171	85.5	100.0	
Missing	System	29	14.5		
Total		200	100.0		

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q44_1: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;1 * Building type_recoded2	171	85.5%	29	14.5%	200	100.0%
Q44_2: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;2 * Building type_recoded2	29	14.5%	171	85.5%	200	100.0%
Q44_3: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;3 * Building type_recoded2	2	1.0%	198	99.0%	200	100.0%
Q44_4: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;4 * Building type_recoded2	1	.5%	199	99.5%	200	100.0%

Q44_5: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;5 * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q45: Does this space use any machine or shop equipment such as woodworking tools, metalworking tools, arc welders, or any other types of permanently installed power tools? * Building	200	100.0%	0	.0%	200	100.0%

Q44\_1: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;1 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q44_1: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;1	Leave it on so it will be ready the next time they want	Count	1	5	5	10	2	0	1	4	2	0	30
		% within Building type_recoded2	50.0%	23.8%	50.0%	18.2%	33.3%	.0%	33.3%	21.1%	22.2%	.0%	17.5%
	Put it in sleep mode	Count	1	1	1	11	1	3	0	2	3	6	29
		% within Building type_recoded2	50.0%	4.8%	10.0%	20.0%	16.7%	23.1%	.0%	10.5%	33.3%	18.2%	17.0%
	Power down the computer	Count	0	3	3	23	3	8	0	8	2	14	64
		% within Building type_recoded2	.0%	14.3%	30.0%	41.8%	50.0%	61.5%	.0%	42.1%	22.2%	42.4%	37.4%
	Turn off the monitor of a personal computer	Count	0	11	1	8	0	1	2	4	1	10	38
		% within Building type_recoded2	.0%	52.4%	10.0%	14.5%	.0%	7.7%	66.7%	21.1%	11.1%	30.3%	22.2%
	Plug in if a laptop	Count	0	1	0	0	0	1	0	0	0	0	2
		% within Building type_recoded2	.0%	4.8%	.0%	.0%	.0%	7.7%	.0%	.0%	.0%	.0%	1.2%
	DONT KNOW	Count	0	0	0	3	0	0	0	1	1	3	8
		% within Building type_recoded2	.0%	.0%	.0%	5.5%	.0%	.0%	.0%	5.3%	11.1%	9.1%	4.7%
Total	Count	2	21	10	55	6	13	3	19	9	33	171	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q44\_2: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;2 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Health	Education	Industrial	Restaurant	Other	Total	
Q44_2: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;2	Leave it on so it will be ready the next time they want	Count	0	0	1	2	0	0	1	1	3	8	
		% within Building type_recoded2	.0%	.0%	50.0%	14.3%	.0%	.0%	50.0%	100.0%	75.0%	27.6%	
	Put it in sleep mode	Count	1	0	1	3	0	0	0	0	0	5	
		% within Building type_recoded2	100.0%	.0%	50.0%	21.4%	.0%	.0%	.0%	.0%	.0%	17.2%	
	Power down the computer	Count	0	0	0	3	0	1	0	0	0	5	
		% within Building type_recoded2	.0%	.0%	.0%	21.4%	.0%	100.0%	.0%	.0%	.0%	25.0%	17.2%
	Turn off the monitor of a personal computer	Count	0	2	0	6	2	0	1	0	0	11	
		% within Building type_recoded2	.0%	100.0%	.0%	42.9%	100.0%	.0%	50.0%	.0%	.0%	37.9%	
	Total	Count	1	2	2	14	2	1	2	1	4	29	
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q44\_3: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;3 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2	
			Office	Total
Q44_3: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;3	Leave it on so it will be ready the next time they want	Count	1	1
		% within Building type_recoded2	50.0%	50.0%
	Power down the computer	Count	1	1
		% within Building type_recoded2	50.0%	50.0%
	Total	Count	2	2
		% within Building type_recoded2	100.0%	100.0%

Q44\_4: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;4 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2

		Office		Total
Q44_4: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;4	Turn off the monitor of a personal computer	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
		% within Building type_recoded2	100.0%	100.0%

Q44\_5: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;5 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2		Total
		Office		
Q44_5: Which of the following describe what usually happens when your company employees are done using a computer. Do they usually;5	Plug in if a laptop	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
		% within Building type_recoded2	100.0%	100.0%

Q45: Does this space use any machine or shop equipment such as woodworking tools, metalworking tools, arc welders, or any other types of permanently installed power tools? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q45: Does this space use any machine or shop equipment such as woodworking tools, metalworking tools, arc welders, or any other types of permanently installed power tools?	Yes	Count	3	8	0	5	0	0	1	11	0	17	45
		% within Building type_recoded2	75.0%	34.8%	.0%	8.9%	.0%	.0%	20.0%	47.8%	.0%	37.0%	22.5%
	No	Count	1	15	13	51	6	14	4	12	10	29	155
		% within Building type_recoded2	25.0%	65.2%	100.0%	91.1%	100.0%	100.0%	80.0%	52.2%	100.0%	63.0%	77.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

## Frequencies

### Frequency Table

Q46: How many electric motors are used in this space to drive equipment? Please exclude motors that are part of

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	20	10.0	10.0	10.0
	0	104	52.0	52.0	62.0
	1	13	6.5	6.5	68.5
	2	14	7.0	7.0	75.5
	3	18	9.0	9.0	84.5
	4	6	3.0	3.0	87.5
	5	4	2.0	2.0	89.5
	6	5	2.5	2.5	92.0
	7	1	.5	.5	92.5
	8	1	.5	.5	93.0
	10	4	2.0	2.0	95.0
	11	1	.5	.5	95.5
	12	4	2.0	2.0	97.5
	14	1	.5	.5	98.0
	20	2	1.0	1.0	99.0
	26	1	.5	.5	99.5
	30	1	.5	.5	100.0
Total		200	100.0	100.0	

Q47: How many air compressors are used in this space?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	10	5.0	5.0	5.0
	0	120	60.0	60.0	65.0
	1	57	28.5	28.5	93.5
	2	8	4.0	4.0	97.5
	3	3	1.5	1.5	99.0
	4	2	1.0	1.0	100.0
	Total		200	100.0	100.0

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q48: Does this space use any specialized equipment such as medical applications or clean rooms? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q50: Do you have a heated pool? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q51: What fuel do you use to heat the pool? * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q52: Does this space have an emergency backup generator or on-site generation or co-generation of power? * Building type_recoded2	176	88.0%	24	12.0%	200	100.0%
Q53: Is it: * Building type_recoded2	23	11.5%	177	88.5%	200	100.0%
Q54: What fuel does it use? * Building type_recoded2	23	11.5%	177	88.5%	200	100.0%
Q55: Is it small, medium, or large in size? * Building type_recoded2	23	11.5%	177	88.5%	200	100.0%

Q48: Does this space use any specialized equipment such as medical applications or clean rooms? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q48: Does this space use any specialized equipment such as medical applications or clean rooms?	Yes	Count	0	1	0	1	0	4	0	0	0	0	6
		% within Building type_recoded2	.0%	4.3%	.0%	1.8%	.0%	28.6%	.0%	.0%	.0%	.0%	3.0%
	No	Count	4	22	13	55	6	9	5	23	10	45	192
		% within Building type_recoded2	100.0%	95.7%	100.0%	98.2%	100.0%	64.3%	100.0%	100.0%	100.0%	97.8%	96.0%
	DONT KNOW	Count	0	0	0	0	0	1	0	0	0	1	2
% within Building type_recoded2		.0%	.0%	.0%	.0%	.0%	7.1%	.0%	.0%	.0%	2.2%	1.0%	
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q50: Do you have a heated pool? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q50: Do you have a heated pool?	Yes	Count	0	0	0	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	16.7%	.0%	.0%	.0%	.0%	.0%	.5%
	No	Count	4	23	13	56	5	14	5	23	10	46	199
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	83.3%	100.0%	100.0%	100.0%	100.0%	100.0%	99.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
% within Building type_recoded2		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q51: What fuel do you use to heat the pool? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2	
			Lodging	Total
Q51: What fuel do you use to heat the pool?	Bottled gas or propane	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
	% within Building type_recoded2	100.0%	100.0%	

Q52: Does this space have an emergency backup generator or on-site generation or co-generation of power? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q52: Does this space have	Yes	Count	1	2	0	10	0	2	2	1	0	5	23

An emergency backup generator or on-site generation or co-generation of power?	No	% within Building type_recoded2	33.3%	9.5%	.0%	20.0%	.0%	16.7%	50.0%	5.0%	.0%	12.8%	13.1%
		Count	2	19	12	38	6	10	2	19	9	34	151
	DONT KNOW	% within Building type_recoded2	66.7%	90.5%	100.0%	76.0%	100.0%	83.3%	50.0%	95.0%	100.0%	87.2%	85.8%
		Count	0	0	0	2	0	0	0	0	0	0	2
	Total	% within Building type_recoded2	.0%	.0%	.0%	4.0%	.0%	.0%	.0%	.0%	.0%	.0%	1.1%
		Count	3	21	12	50	6	12	4	20	9	39	176
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q53: Is it: \* Building type\_recoded2 Crosstabulation

		Building type_recoded2								
		Warehouse	Retail	Office	Health	Education	Industrial	Other	Total	
Q53: Is it:	An emergency backup generator	Count	1	1	6	2	2	1	4	17
		% within Building type_recoded2	100.0%	50.0%	60.0%	100.0%	100.0%	100.0%	80.0%	73.9%
	An on-site electric generation	Count	0	0	1	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	10.0%	.0%	.0%	.0%	.0%	4.3%
	OTHER (specify)	Count	0	0	1	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	10.0%	.0%	.0%	.0%	.0%	4.3%
	DONT KNOW	Count	0	1	2	0	0	0	1	4
		% within Building type_recoded2	.0%	50.0%	20.0%	.0%	.0%	.0%	20.0%	17.4%
	Total	Count	1	2	10	2	2	1	5	23
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q54: What fuel does it use? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2								
		Warehouse	Retail	Office	Health	Education	Industrial	Other	Total	
Q54: What fuel does it use?	Electricity	Count	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	50.0%	.0%	.0%	.0%	.0%	.0%	4.3%
	Oil	Count	0	0	0	1	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	50.0%	.0%	.0%	.0%	4.3%
	Kerosene	Count	0	0	0	0	1	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	50.0%	.0%	.0%	4.3%
	Bottled gas or propane (CONFIRM)	Count	0	1	6	1	0	1	4	13
		% within Building type_recoded2	.0%	50.0%	60.0%	50.0%	.0%	100.0%	80.0%	56.5%
	OTHER (specify)	Count	0	0	1	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	10.0%	.0%	.0%	.0%	.0%	4.3%
	DONT KNOW	Count	1	0	3	0	1	0	1	6
		% within Building type_recoded2	100.0%	.0%	30.0%	.0%	50.0%	.0%	20.0%	26.1%
	Total	Count	1	2	10	2	2	1	5	23
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q55: Is it small, medium, or large in size? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2								
		Warehouse	Retail	Office	Health	Education	Industrial	Other	Total	
Q55: Is it small, medium, or large in size?	Small	Count	0	1	3	0	0	0	3	7
		% within Building type_recoded2	.0%	50.0%	30.0%	.0%	.0%	.0%	60.0%	30.4%
	Medium	Count	0	0	3	2	1	1	1	8
		% within Building type_recoded2	.0%	.0%	30.0%	100.0%	50.0%	100.0%	20.0%	34.8%
	Large	Count	1	0	3	0	0	0	0	4
		% within Building type_recoded2	100.0%	.0%	30.0%	.0%	.0%	.0%	.0%	17.4%
	DONT KNOW	Count	0	1	1	0	1	0	1	4
		% within Building type_recoded2	.0%	50.0%	10.0%	.0%	50.0%	.0%	20.0%	17.4%
	Total	Count	1	2	10	2	2	1	5	23
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Frequencies



Q56: What percentage of this space's interior lights are on during 'off hours', that is, hours when this space is not normally open?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	9	4.5	4.5
	0	98	49.0	53.5
	1	16	8.0	61.5
	2	6	3.0	64.5
	3	4	2.0	66.5
	5	20	10.0	76.5
	10	19	9.5	86.0
	15	1	.5	86.5
	20	5	2.5	89.0
	25	5	2.5	91.5
	30	2	1.0	92.5
	45	1	.5	93.0
	50	2	1.0	94.0
	70	1	.5	94.5
	98	1	.5	95.0
	99	3	1.5	96.5
	100	7	3.5	100.0
Total	200	100.0	100.0	

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q57: Are you familiar with a compact fluorescent light bulb, sometimes referred to as a CFL bulb? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q58: Well, CFL bulbs are small fluorescent bulbs that fit into regular light bulb sockets? * Building type_recoded2	29	14.5%	171	85.5%	200	100.0%
Q59: Do you currently have any of these types of bulbs installed? * Building type_recoded2	187	93.5%	13	6.5%	200	100.0%

Q57: Are you familiar with a compact fluorescent light bulb, sometimes referred to as a CFL bulb? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q57: Are you familiar with a compact fluorescent light bulb, sometimes referred to as a CFL bulb?	Yes	Count	4	17	10	52	6	13	5	21	7	36	171
		% within Building type_recoded2	100.0%	73.9%	76.9%	92.9%	100.0%	92.9%	100.0%	91.3%	70.0%	78.3%	85.5%
	No	Count	0	6	3	4	0	1	0	2	3	10	29
		% within Building type_recoded2	.0%	26.1%	23.1%	7.1%	.0%	7.1%	.0%	8.7%	30.0%	21.7%	14.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q58: Well, CFL bulbs are small fluorescent bulbs that fit into regular light bulb sockets? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2								
		Retail	Grocery	Office	Health	Industrial	Restaurant	Other	Total	
Q58: Well, CFL bulbs are small fluorescent bulbs that fit into regular light bulb sockets?	Yes	Count	4	2	3	0	1	1	5	16
		% within Building type_recoded2	66.7%	66.7%	75.0%	.0%	50.0%	33.3%	50.0%	55.2%
	No	Count	2	1	1	1	1	2	4	12
		% within Building type_recoded2	33.3%	33.3%	25.0%	100.0%	50.0%	66.7%	40.0%	41.4%
DON'T KNOW	Count	0	0	0	0	0	0	1	1	
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	10.0%	3.4%	
Total	Count	6	3	4	1	2	3	10	29	
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q59: Do you currently have any of these types of bulbs installed? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q59: Do you currently have any of these types of bulbs installed?	Yes	Count	0	10	5	23	5	6	2	7	5	17	80
		% within Building type_recoded2	.0%	47.6%	41.7%	41.8%	83.3%	46.2%	40.0%	31.8%	62.5%	41.5%	42.8%
	No	Count	4	11	7	31	1	6	2	14	3	21	100
		% within Building type_recoded2	100.0%	52.4%	58.3%	56.4%	16.7%	46.2%	40.0%	63.6%	37.5%	51.2%	53.5%
	DONT KNOW	Count	0	0	0	1	0	1	1	1	0	3	7
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.7%	20.0%	4.5%	.0%	7.3%	3.7%
Total	Count	4	21	12	55	6	13	5	22	8	41	187	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

73  
44.2%

Frequencies

Frequency Table

Q60: Approximately how many of these types of bulbs are currently installed in this space?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	DONT KNOW	12	6.0	15.0	15.0
	1	6	3.0	7.5	22.5
	2	5	2.5	6.3	28.8
	3	3	1.5	3.8	32.5
	4	5	2.5	6.3	38.8
	5	8	4.0	10.0	48.8
	6	2	1.0	2.5	51.3
	8	1	.5	1.3	52.5
	10	6	3.0	7.5	60.0
	11	1	.5	1.3	61.3
	12	3	1.5	3.8	65.0
	14	2	1.0	2.5	67.5
	15	2	1.0	2.5	70.0
	17	1	.5	1.3	71.3
	20	6	3.0	7.5	78.8
	22	1	.5	1.3	80.0
	25	1	.5	1.3	81.3
	30	1	.5	1.3	82.5
	34	1	.5	1.3	83.8
	35	1	.5	1.3	85.0
	40	1	.5	1.3	86.3
	42	1	.5	1.3	87.5
	48	1	.5	1.3	88.8
	60	1	.5	1.3	90.0
	66	1	.5	1.3	91.3
	80	1	.5	1.3	92.5
	100	4	2.0	5.0	97.5
400	1	.5	1.3	98.8	
800	1	.5	1.3	100.0	
Total		80	40.0	100.0	
Missing	System	120	60.0		
Total		200	100.0		

Q61\_1: What is the approximate percentage of your floor space that is lit by compact fluorescent light bulbs

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	121	60.5	65.1	65.1
	1	5	2.5	2.7	67.7
	2	2	1.0	1.1	68.8
	5	5	2.5	2.7	71.5
	10	6	3.0	3.2	74.7
	15	1	.5	.5	75.3
	20	4	2.0	2.2	77.4
	25	5	2.5	2.7	80.1
	30	3	1.5	1.6	81.7
	33	1	.5	.5	82.3

34	1	.5	.5	82.8
40	1	.5	.5	83.3
50	5	2.5	2.7	86.0
70	2	1.0	1.1	87.1
75	1	.5	.5	87.6
80	2	1.0	1.1	88.7
90	3	1.5	1.6	90.3
95	1	.5	.5	90.9
100	17	8.5	9.1	100.0
Total	186	93.0	100.0	
Missing	System	14	7.0	
Total		200	100.0	

**Q61\_2: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|Fluorescent lighting other than CFLs**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	44	22.0	23.7	23.7
	1	1	.5	.5	24.2
	2	1	.5	.5	24.7
	5	3	1.5	1.6	26.3
	10	4	2.0	2.2	28.5
	20	3	1.5	1.6	30.1
	25	3	1.5	1.6	31.7
	30	3	1.5	1.6	33.3
	34	1	.5	.5	33.9
	40	3	1.5	1.6	35.5
	50	4	2.0	2.2	37.6
	60	2	1.0	1.1	38.7
	66	1	.5	.5	39.2
	70	2	1.0	1.1	40.3
	75	3	1.5	1.6	41.9
	80	3	1.5	1.6	43.5
	85	1	.5	.5	44.1
	90	11	5.5	5.9	50.0
	95	9	4.5	4.8	54.8
	98	1	.5	.5	55.4
	99	1	.5	.5	55.9
	100	82	41.0	44.1	100.0
Total		186	93.0	100.0	
Missing	System	14	7.0		
Total		200	100.0		

**Q61\_3: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|Halogen bulbs**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	169	84.5	90.9	90.9
	3	1	.5	.5	91.4
	4	1	.5	.5	91.9
	5	1	.5	.5	92.5
	10	5	2.5	2.7	95.2
	25	2	1.0	1.1	96.2
	30	2	1.0	1.1	97.3
	33	1	.5	.5	97.8
	75	1	.5	.5	98.4
	80	1	.5	.5	98.9
	95	1	.5	.5	99.5
	100	1	.5	.5	100.0
Total		186	93.0	100.0	
Missing	System	14	7.0		
Total		200	100.0		

**Q61\_4: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|Incandescent light bulbs, other than halogen bulbs**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	139	69.5	74.7	74.7
	1	1	.5	.5	75.3

2	1	.5	.5	75.8
4	1	.5	.5	76.3
5	3	1.5	1.6	78.0
9	1	.5	.5	78.5
10	6	3.0	3.2	81.7
20	2	1.0	1.1	82.8
30	3	1.5	1.6	84.4
45	1	.5	.5	84.9
50	7	3.5	3.8	88.7
65	2	1.0	1.1	89.8
68	1	.5	.5	90.3
69	1	.5	.5	90.9
75	2	1.0	1.1	91.9
85	2	1.0	1.1	93.0
89	1	.5	.5	93.5
90	3	1.5	1.6	95.2
98	1	.5	.5	95.7
99	1	.5	.5	96.2
100	7	3.5	3.8	100.0
Total	186	93.0	100.0	
Missing	System	14	7.0	
Total		200	100.0	

**Q61\_5: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|High intensity discharge**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	181	90.5	97.3	97.3
	10	1	.5	.5	97.8
	50	2	1.0	1.1	98.9
	60	1	.5	.5	99.5
	75	1	.5	.5	100.0
	Total	186	93.0	100.0	
	Missing	System	14	7.0	
Total		200	100.0		

**Q61\_6: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|Other type of lighting**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	181	90.5	97.3	97.3
	15	1	.5	.5	97.8
	80	1	.5	.5	98.4
	90	1	.5	.5	98.9
	100	2	1.0	1.1	100.0
	Total	186	93.0	100.0	
	Missing	System	14	7.0	
Total		200	100.0		

**Q61\_7: What is the approximate percentage of your floor space that is lit by each of the following types of lighting?|Don't know**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	186	93.0	93.0	93.0
	10	1	.5	.5	93.5
	20	1	.5	.5	94.0
	40	1	.5	.5	94.5
	50	1	.5	.5	95.0
	60	1	.5	.5	95.5
	100	9	4.5	4.5	100.0
	Total	200	100.0	100.0	

**less than 3 yrs old**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	80	40.0	69.0	69.0
	1	1	.5	.9	69.8
	5	2	1.0	1.7	71.6
	10	1	.5	.9	72.4
	20	1	.5	.9	73.3

25	1	.5	.9	74.1
40	1	.5	.9	75.0
50	5	2.5	4.3	79.3
75	1	.5	.9	80.2
80	1	.5	.9	81.0
100	22	11.0	19.0	100.0
Total	116	58.0	100.0	
Missing	System	84	42.0	
Total		200	100.0	

3-5 yrs old

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	84	42.0	72.4
	20	2	1.0	1.7
	50	5	2.5	4.3
	70	1	.5	.9
	75	1	.5	.9
	80	1	.5	.9
	90	1	.5	.9
	100	21	10.5	18.1
Total	116	58.0	100.0	
Missing	System	84	42.0	
Total		200	100.0	

more than 5 yrs old

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	51	25.5	44.0
	25	1	.5	.9
	30	1	.5	.9
	50	2	1.0	1.7
	60	1	.5	.9
	80	1	.5	.9
	95	2	1.0	1.7
	99	1	.5	.9
	100	56	28.0	48.3
Total	116	58.0	100.0	
Missing	System	84	42.0	
Total		200	100.0	

Q62\_4: Just thinking of the fluorescent lighting other than CFLs, approximately what percent of this lighting is within the following ages:|DON'T KNOW how old

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	116	58.0	78.9
	10	1	.5	.7
	100	30	15.0	20.4
Total	147	73.5	100.0	
Missing	System	53	26.5	
Total		200	100.0	

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q63: Did you receive an incentive from your electric utility to install efficient lighting? * Building type_recoded2	61	30.5%	139	69.5%	200	100.0%

Q63: Did you receive an incentive from your electric utility to install efficient lighting? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q63: Did you receive an	Yes	Count	1	1	0	4	1	1	0	2	1	3	14

Incentive from your electric utility to install efficient lighting?	No	% within Building type_recoded2	50.0%	25.0%	.0%	20.0%	100.0%	33.3%	.0%	20.0%	50.0%	23.1%	23.0%
		Count	1	0	5	11	0	0	1	5	0	6	29
	Not applicable	% within Building type_recoded2	50.0%	.0%	100.0%	55.0%	.0%	.0%	100.0%	50.0%	.0%	46.2%	47.5%
		Count	0	1	0	0	0	0	0	0	1	1	3
	DONT KNOW	% within Building type_recoded2	.0%	25.0%	.0%	.0%	.0%	.0%	.0%	.0%	50.0%	7.7%	4.9%
		Count	0	2	0	5	0	2	0	3	0	3	15
	Total	% within Building type_recoded2	.0%	50.0%	.0%	25.0%	.0%	66.7%	.0%	30.0%	.0%	23.1%	24.6%
		Count	2	4	5	20	1	3	1	10	2	13	61
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		Count											

**Frequencies**

Q65: Just thinking of the HIGH CEILING lighting, approximately what percentage of this lighting uses 4-foot fluorescent tubes?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3	1.5	60.0
	50	1	.5	80.0
	100	1	.5	100.0
	Total	5	2.5	100.0
Missing	System	195	97.5	
Total		200	100.0	

**Crosstabs**

**Warnings**

The crosstabulation of Q76_3: What did you
The crosstabulation of Q76_4: What did you
The crosstabulation of Q76_5: What did you
The crosstabulation of Q76_6: What did you
The crosstabulation of Q76_7: What did you
The crosstabulation of Q76_8: What did you
The crosstabulation of Q76_9: What did you
The crosstabulation of Q76_10: What did you
The crosstabulation of Q76_11: What did you
The crosstabulation of Q76_12: What did you
The crosstabulation of Q76_13: What did you
The crosstabulation of Q76_14: What did you
The crosstabulation of Q76_15: What did you
The crosstabulation of Q76_16: What did you

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q66A: Does this space have any of the following? Feel free to answer 'don't know' if that's the case. Occupancy sensors? *	200	100.0%	0	.0%	200	100.0%
Q66B: Light switches that can turn the lights to a low level as well as a high level? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q66C: Electronic ballasts? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q66D: LED exit signs? *	200	100.0%	0	.0%	200	100.0%
Q66E: Electro-luminescent exit signs? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q66F: Exterior high intensity discharge (HID) lights? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q66G: Controls for high intensity discharge (HID) lighting? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q66H: Reflectors designed specifically to increase the amount of light directed to the work area? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q67A: Does this space have any of the following conservation features? Feel free to answer 'don't know' if that's the case. Tinted window glass? *	200	100.0%	0	.0%	200	100.0%
Q67B: Reflective window glass? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q67C: External window overhangs or awnings? *	200	100.0%	0	.0%	200	100.0%
Q67D: Skylights or atriums designed to provide light? *	200	100.0%	0	.0%	200	100.0%
Q67E: Automatic controls and sensors that increase or reduce lighting in response to the level of natural light? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q67F: Double pane windows? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q68: Have you remodeled or renovated any portion of this space in the last five years? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q69: Did you specifically consider or include energy efficient features? * Building type_recoded2	69	34.5%	131	65.5%	200	100.0%
Q70: Do you plan on remodeling or renovating any portion of this space in the next 12 months? *	200	100.0%	0	.0%	200	100.0%
Q71: Do you specifically plan to include energy efficient features when remodeling? * Building type_recoded2	17	8.5%	183	91.5%	200	100.0%
Q72: How much attention would you say your company pays to controlling energy costs through general energy efficiency operational practices? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q73: Are you familiar with the Energy Star logo? *	200	100.0%	0	.0%	200	100.0%
Q74A_1: First, have you purchased 'main heating equipment' in the last 5 years? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q74B_1: Did you specify an energy efficient model? * Building type_recoded2	41	20.5%	159	79.5%	200	100.0%

Q74A_2: Have you purchased 'main cooling equipment' in the last 5 years? * Building type_recoded2	150	75.0%	50	25.0%	200	100.0%
Q74B_2: Did you specify an energy efficient model? * Building type_recoded2	42	21.0%	158	79.0%	200	100.0%
Q74A_3: Have you purchased 'main water heater' in the last 5 years? * Building type_recoded2	165	82.5%	35	17.5%	200	100.0%
Q74B_3: Did you specify an energy efficient model? * Building type_recoded2	26	13.0%	174	87.0%	200	100.0%
Q74A_4: Have you purchased a 'refrigerator' in the last 5 years? * Building type_recoded2	128	64.0%	72	36.0%	200	100.0%
Q74B_4: Did you specify an energy efficient model? * Building type_recoded2	46	23.0%	154	77.0%	200	100.0%
Q74A_5: Have you purchased a 'Freezer' in the last 5 years? * Building type_recoded2	128	64.0%	72	36.0%	200	100.0%
Q74B_5: Did you specify an energy efficient model? * Building type_recoded2	11	5.5%	189	94.5%	200	100.0%
Q74A_6: Have you purchased a 'computer' in the last 5 years? * Building type_recoded2	171	85.5%	29	14.5%	200	100.0%
Q74B_6: Did you specify an energy efficient model? * Building type_recoded2	133	66.5%	67	33.5%	200	100.0%
Q74A_7: Have you purchased a 'Motor' in the last 5 years? * Building type_recoded2	76	38.0%	124	62.0%	200	100.0%
Q74B_7: Did you specify an energy efficient model? * Building type_recoded2	12	6.0%	188	94.0%	200	100.0%
Q74A_8: Have you purchased an 'air compressor' in the last 5 years? * Building type_recoded2	70	35.0%	130	65.0%	200	100.0%
Q74B_8: Did you specify an energy efficient model? * Building type_recoded2	15	7.5%	185	92.5%	200	100.0%
Q75: Have you purchased any other equipment that you directly specified to be energy efficient? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q76_1: What did you purchase that you directly specified to be energy efficient?1 * Building type_recoded2	24	12.0%	176	88.0%	200	100.0%
Q76_2: What did you purchase that you directly specified to be energy efficient?2 * Building type_recoded2	2	1.0%	198	99.0%	200	100.0%

Q66A: Does this space have any of the following? Feel free to answer 'don't know' if that's the case. Occupancy sensors? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q66A: Does this space have any of the following? Feel free to answer 'don't know' if that's the case. Occupancy sensors?	Yes	Count	1	3	7	8	2	1	1	4	3	9	39
	% within Building type_recoded2	25.0%	13.0%	53.8%	14.3%	33.3%	7.1%	20.0%	17.4%	30.0%	19.6%	19.5%	
No	Count	2	14	5	40	4	9	4	17	6	35	136	
	% within Building type_recoded2	50.0%	60.9%	38.5%	71.4%	66.7%	64.3%	80.0%	73.9%	60.0%	76.1%	68.0%	
DON'T KNOW	Count	1	6	1	8	0	4	0	2	1	2	25	

commercial only

35

19.8%



		% within Building type_recoded2	25.0%	26.1%	7.7%	14.3%	.0%	28.6%	.0%	8.7%	10.0%	4.3%	12.5%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q66B: Light switches that can turn the lights to a low level as well as a high level? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66B: Light switches that can turn the lights to a low level as well as a high level?	Yes	Count	0	2	1	13	4	3	2	1	3	7	36
		% within Building type_recoded2	.0%	8.7%	7.7%	23.2%	66.7%	21.4%	40.0%	4.3%	30.0%	15.2%	18.0%
	No	Count	4	21	12	43	2	10	3	22	7	38	162
		% within Building type_recoded2	100.0%	91.3%	92.3%	76.8%	33.3%	71.4%	60.0%	95.7%	70.0%	82.6%	81.0%
	DONT KNOW	Count	0	0	0	0	0	1	0	0	0	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	7.1%	.0%	.0%	.0%	2.2%	1.0%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q66C: Electronic ballasts? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66C: Electronic ballasts?	Yes	Count	3	10	8	27	3	5	2	15	5	20	98
		% within Building type_recoded2	75.0%	43.5%	61.5%	48.2%	50.0%	35.7%	40.0%	65.2%	50.0%	43.5%	49.0%
	No	Count	1	7	4	23	2	6	3	6	4	17	73
		% within Building type_recoded2	25.0%	30.4%	30.8%	41.1%	33.3%	42.9%	60.0%	26.1%	40.0%	37.0%	36.5%
	DONT KNOW	Count	0	6	1	6	1	3	0	2	1	9	29
		% within Building type_recoded2	.0%	26.1%	7.7%	10.7%	16.7%	21.4%	.0%	8.7%	10.0%	19.6%	14.5%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q66D: LED exit signs? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66D: LED exit signs?	Yes	Count	1	9	5	19	2	5	3	5	4	8	61
		% within Building type_recoded2	25.0%	39.1%	38.5%	33.9%	33.3%	35.7%	60.0%	21.7%	40.0%	17.4%	30.5%
	No	Count	3	13	7	34	3	6	2	17	6	34	125
		% within Building type_recoded2	75.0%	56.5%	53.8%	60.7%	50.0%	42.9%	40.0%	73.9%	60.0%	73.9%	62.5%
	DONT KNOW	Count	0	1	1	3	1	3	0	1	0	4	14
		% within Building type_recoded2	.0%	4.3%	7.7%	5.4%	16.7%	21.4%	.0%	4.3%	.0%	8.7%	7.0%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

commercial only  
56  
31.6%

**Q66E: Electro-luminescent exit signs? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66E: Electro-luminescent exit signs?	Yes	Count	0	5	0	9	0	3	2	5	3	7	34
		% within Building type_recoded2	.0%	21.7%	.0%	16.1%	.0%	21.4%	40.0%	21.7%	30.0%	15.2%	17.0%
	No	Count	4	13	10	37	4	9	2	16	5	32	132
		% within Building type_recoded2	100.0%	56.5%	76.9%	66.1%	66.7%	64.3%	40.0%	69.6%	50.0%	69.6%	66.0%
	DONT KNOW	Count	0	5	3	10	2	2	1	2	2	7	34
		% within Building type_recoded2	.0%	21.7%	23.1%	17.9%	33.3%	14.3%	20.0%	8.7%	20.0%	15.2%	17.0%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

commercial only  
29  
16.4%

**Q66F: Exterior high intensity discharge (HID) lights? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66F: Exterior high intensity discharge (HID) lights?	Yes	Count	1	6	5	13	3	2	4	10	2	17	63
		% within Building type_recoded2	25.0%	26.1%	38.5%	23.2%	50.0%	14.3%	80.0%	43.5%	20.0%	37.0%	31.5%

No	Count	3	16	7	34	2	10	1	13	6	25	117
	% within Building type_recoded2	75.0%	69.6%	53.8%	60.7%	33.3%	71.4%	20.0%	56.5%	60.0%	54.3%	58.5%
DONT KNOW	Count	0	1	1	9	1	2	0	0	2	4	20
	% within Building type_recoded2	.0%	4.3%	7.7%	16.1%	16.7%	14.3%	.0%	.0%	20.0%	8.7%	10.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q66G: Controls for high intensity discharge (HID) lighting? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q66G: Controls for high intensity discharge (HID) lighting?	Yes	Count	0	0	0	0	0	0	0	0	1	1	
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	2.2%	.5%
	No	Count	4	23	13	56	6	14	4	23	10	44	197
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	80.0%	100.0%	100.0%	95.7%	98.5%
	DONT KNOW	Count	0	0	0	0	0	0	1	0	0	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	20.0%	.0%	.0%	2.2%	1.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q67A: Does this space have any of the following conservation features? Feel free to answer 'don't know' if that's the case. Tinted window glass? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q67A: Does this space have any of the following conservation features? Feel free to answer 'don't know' if that's the case. Tinted window glass?	Yes	Count	0	1	2	11	3	4	0	2	1	6	30
		% within Building type_recoded2	.0%	4.3%	15.4%	19.6%	50.0%	28.6%	.0%	8.7%	10.0%	13.0%	15.0%
	No	Count	4	22	10	41	3	9	5	21	9	40	164
		% within Building type_recoded2	100.0%	95.7%	76.9%	73.2%	50.0%	64.3%	100.0%	91.3%	90.0%	87.0%	82.0%
	DONT KNOW	Count	0	0	1	4	0	1	0	0	0	0	6
		% within Building type_recoded2	.0%	.0%	7.7%	7.1%	.0%	7.1%	.0%	.0%	.0%	.0%	3.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q67B: Reflective window glass? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q67B: Reflective window glass?	Yes	Count	0	0	1	2	0	0	0	1	1	4	9
		% within Building type_recoded2	.0%	.0%	7.7%	3.6%	.0%	.0%	.0%	4.3%	10.0%	8.7%	4.5%
	No	Count	4	23	12	48	6	13	5	22	8	42	183
		% within Building type_recoded2	100.0%	100.0%	92.3%	85.7%	100.0%	92.9%	100.0%	95.7%	80.0%	91.3%	91.5%
	DONT KNOW	Count	0	0	0	6	0	1	0	0	1	0	8
		% within Building type_recoded2	.0%	.0%	.0%	10.7%	.0%	7.1%	.0%	.0%	10.0%	.0%	4.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q67C: External window overhangs or awnings? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q67C: External window overhangs or awnings?	Yes	Count	0	6	4	10	1	6	1	6	5	5	44
		% within Building type_recoded2	.0%	26.1%	30.8%	17.9%	16.7%	42.9%	20.0%	26.1%	50.0%	10.9%	22.0%
	No	Count	4	17	9	46	5	8	3	17	5	41	155
		% within Building type_recoded2	100.0%	73.9%	69.2%	82.1%	83.3%	57.1%	60.0%	73.9%	50.0%	89.1%	77.5%
	DONT KNOW	Count	0	0	0	0	0	0	1	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	20.0%	.0%	.0%	.0%	.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q67D: Skylights or atriums designed to provide light? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2										
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			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q67D: Skylights or atriums designed to provide light?	Yes	Count	0	0	1	8	0	7	1	3	2	4	26
		% within Building type_recoded2	.0%	.0%	7.7%	14.3%	.0%	50.0%	20.0%	13.0%	20.0%	8.7%	13.0%
	No	Count	4	23	12	48	6	7	4	20	8	42	174
		% within Building type_recoded2	100.0%	100.0%	92.3%	85.7%	100.0%	50.0%	80.0%	87.0%	80.0%	91.3%	87.0%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q67E: Automatic controls and sensors that increase or reduce lighting in response to the level of natural light? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q67E: Automatic controls and sensors that increase or reduce lighting in response to the level of natural light?	Yes	Count	0	0	2	2	0	0	1	0	0	1	6
		% within Building type_recoded2	.0%	.0%	15.4%	3.6%	.0%	.0%	20.0%	.0%	.0%	2.2%	3.0%
	No	Count	4	22	11	54	6	14	4	23	10	45	193
		% within Building type_recoded2	100.0%	95.7%	84.6%	96.4%	100.0%	100.0%	80.0%	100.0%	100.0%	97.8%	96.5%
	DONT KNOW	Count	0	1	0	0	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	4.3%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q66H: Reflectors designed specifically to increase the amount of light directed to the work area? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q66H: Reflectors designed specifically to increase the amount of light directed to the work area?	Yes	Count	1	14	10	35	3	12	4	13	5	23	120
		% within Building type_recoded2	25.0%	60.9%	76.9%	62.5%	50.0%	85.7%	80.0%	56.5%	50.0%	50.0%	60.0%
	No	Count	3	8	2	10	2	2	1	10	4	21	63
		% within Building type_recoded2	75.0%	34.8%	15.4%	17.9%	33.3%	14.3%	20.0%	43.5%	40.0%	45.7%	31.5%
	DONT KNOW	Count	0	1	1	11	1	0	0	0	1	2	17
		% within Building type_recoded2	.0%	4.3%	7.7%	19.6%	16.7%	.0%	.0%	.0%	10.0%	4.3%	8.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only  
107  
60.5%

**Q68: Have you remodeled or renovated any portion of this space in the last five years? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q68: Have you remodeled or renovated any portion of this space in the last five years?	Yes	Count	0	7	4	22	4	2	3	6	7	14	69
		% within Building type_recoded2	.0%	30.4%	30.8%	39.3%	66.7%	14.3%	60.0%	26.1%	70.0%	30.4%	34.5%
	No	Count	4	16	9	32	2	12	2	16	3	32	128
		% within Building type_recoded2	100.0%	69.6%	69.2%	57.1%	33.3%	85.7%	40.0%	69.6%	30.0%	69.6%	64.0%
	DONT KNOW	Count	0	0	0	2	0	0	0	1	0	0	3
		% within Building type_recoded2	.0%	.0%	.0%	3.6%	.0%	.0%	.0%	4.3%	.0%	.0%	1.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only  
63  
35.6%  
112  
63.3%  
2  
1.1%  
177  
100.0%

**Q69: Did you specifically consider or include energy efficient features? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2									
			Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q69: Did you specifically consider or include energy efficient features?	Yes	Count	2	2	14	2	2	2	2	4	5	35
		% within Building type_recoded2	28.6%	50.0%	63.6%	50.0%	100.0%	66.7%	33.3%	57.1%	35.7%	50.7%
	No	Count	5	2	5	1	0	1	4	1	7	26
		% within Building type_recoded2	71.4%	50.0%	22.7%	25.0%	.0%	33.3%	66.7%	14.3%	50.0%	37.7%
	DONT KNOW	Count	0	0	3	1	0	0	0	2	2	8
		% within Building type_recoded2	.0%	.0%	13.6%	25.0%	.0%	.0%	.0%	28.6%	14.3%	11.6%
Total	Count	7	4	22	4	2	3	6	7	14	69	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only  
33  
52.4%  
22  
34.9%  
8  
12.7%  
63  
100.0%

**Q70: Do you plan on remodeling or renovating any portion of this space in the next 12 months? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q70: Do you plan on remodeling or renovating any portion of this space in the next 12 months?	Yes	Count	0	1	3	5	1	0	1	1	1	4	17
		% within Building type_recoded2	.0%	4.3%	23.1%	8.9%	16.7%	.0%	20.0%	4.3%	10.0%	8.7%	8.5%
	No	Count	4	22	10	46	5	13	4	20	8	42	174
		% within Building type_recoded2	100.0%	95.7%	76.9%	82.1%	83.3%	92.9%	80.0%	87.0%	80.0%	91.3%	87.0%
	DONT KNOW	Count	0	0	0	5	0	1	0	2	1	0	9
		% within Building type_recoded2	.0%	.0%	.0%	8.9%	.0%	7.1%	.0%	8.7%	10.0%	.0%	4.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q71: Do you specifically plan to include energy efficient features when remodeling? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2								Total
			Retail	Grocery	Office	Lodging	Education	Industrial	Restaurant	Other	Total
Q71: Do you specifically plan to include energy efficient features when remodeling?	Yes	Count	0	2	5	1	1	1	1	2	13
		% within Building type_recoded2	.0%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	50.0%
	No	Count	0	0	0	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	25.0%	5.9%
	DONT KNOW	Count	1	1	0	0	0	0	0	1	3
		% within Building type_recoded2	100.0%	33.3%	.0%	.0%	.0%	.0%	.0%	25.0%	17.6%
Total	Count	1	3	5	1	1	1	1	4	17	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q72: How much attention would you say your company pays to controlling energy costs through general energy efficiency operational practices? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q72: How much attention would you say your company pays to controlling energy costs through general energy efficiency operational practices?	Substantial attention to these matters	Count	1	8	2	24	2	7	2	10	4	24	84
		% within Building type_recoded2	25.0%	34.8%	15.4%	42.9%	33.3%	50.0%	40.0%	43.5%	40.0%	52.2%	42.0%
	Some attention	Count	1	14	8	27	4	5	2	9	3	14	87
		% within Building type_recoded2	25.0%	60.9%	61.5%	48.2%	66.7%	35.7%	40.0%	39.1%	30.0%	30.4%	43.5%
	Very little attention	Count	0	1	2	2	0	1	1	3	2	5	17
		% within Building type_recoded2	.0%	4.3%	15.4%	3.6%	.0%	7.1%	20.0%	13.0%	20.0%	10.9%	8.5%
	No attention at all	Count	2	0	1	2	0	0	0	1	1	2	9
		% within Building type_recoded2	50.0%	.0%	7.7%	3.6%	.0%	.0%	.0%	4.3%	10.0%	4.3%	4.5%
	DONT KNOW	Count	0	0	0	1	0	1	0	0	0	1	3
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	2.2%	1.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q73: Are you familiar with the Energy Star logo? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q73: Are you familiar with the Energy Star logo?	Yes	Count	4	19	9	52	4	12	3	21	10	36	170
		% within Building type_recoded2	100.0%	82.6%	69.2%	92.9%	66.7%	85.7%	60.0%	91.3%	100.0%	78.3%	85.0%
	No	Count	0	4	4	4	2	2	2	2	0	10	30
		% within Building type_recoded2	.0%	17.4%	30.8%	7.1%	33.3%	14.3%	40.0%	8.7%	.0%	21.7%	15.0%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q74A\_1: First, have you purchased 'main heating equipment' in the last 5 years? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q74A_1: First, have you purchased 'main heating equipment' in the last 5 years?	Yes	Count	1	3	4	13	2	1	2	3	2	10	41
		% within Building type_recoded2	25.0%	13.0%	30.8%	23.2%	33.3%	7.1%	40.0%	13.0%	20.0%	21.7%	20.5%
	No	Count	3	20	9	41	4	13	3	20	7	36	156
		% within Building type_recoded2	75.0%	87.0%	69.2%	73.2%	66.7%	92.9%	60.0%	87.0%	70.0%	78.3%	78.0%
	DONT KNOW	Count	0	0	0	2	0	0	0	0	0	1	3
		% within Building type_recoded2	.0%	.0%	.0%	3.6%	.0%	.0%	.0%	.0%	.0%	2.2%	1.5%

		% within Building type_recoded2	.0%	.0%	.0%	3.6%	.0%	.0%	.0%	.0%	10.0%	.0%	1.5%
Total		Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q74B\_1: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2											
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74B_1: Did you specify an energy efficient model?	Yes	Count	1	3	3	10	2	1	2	2	2	3	29	
		% within Building type_recoded2	100.0%	100.0%	75.0%	76.9%	100.0%	100.0%	100.0%	66.7%	100.0%	30.0%	70.7%	
	No	Count	0	0	1	1	0	0	0	1	0	0	5	8
		% within Building type_recoded2	.0%	.0%	25.0%	7.7%	.0%	.0%	.0%	33.3%	.0%	50.0%	19.5%	
	DONT KNOW	Count	0	0	0	2	0	0	0	0	0	0	2	4
		% within Building type_recoded2	.0%	.0%	.0%	15.4%	.0%	.0%	.0%	.0%	.0%	20.0%	9.8%	
Total	Count	1	3	4	13	2	1	2	3	2	10	41		
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

**Q74A\_2: Have you purchased 'main cooling equipment' in the last 5 years? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q74A_2: Have you purchased 'main cooling equipment' in the last 5 years?	Yes	Count	1	4	3	15	3	3	0	5	2	6	42
		% within Building type_recoded2	50.0%	19.0%	27.3%	31.3%	50.0%	25.0%	.0%	31.3%	25.0%	28.6%	28.0%
	No	Count	1	17	7	33	3	9	5	11	4	14	104
		% within Building type_recoded2	50.0%	81.0%	63.6%	68.8%	50.0%	75.0%	100.0%	68.8%	50.0%	66.7%	69.3%
	DONT KNOW	Count	0	0	1	0	0	0	0	0	2	1	4
		% within Building type_recoded2	.0%	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	25.0%	4.8%	2.7%
Total	Count	2	21	11	48	6	12	5	16	8	21	150	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q74B\_2: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Industrial	Restaurant	Other	Total	
Q74B_2: Did you specify an energy efficient model?	Yes	Count	1	4	2	10	2	3	4	2	4	32	
		% within Building type_recoded2	100.0%	100.0%	66.7%	66.7%	66.7%	100.0%	80.0%	100.0%	66.7%	76.2%	
	No	Count	0	0	1	2	1	0	1	0	0	5	
		% within Building type_recoded2	.0%	.0%	33.3%	13.3%	33.3%	.0%	20.0%	.0%	.0%	11.9%	
	DONT KNOW	Count	0	0	0	3	0	0	0	0	2	5	
		% within Building type_recoded2	.0%	.0%	.0%	20.0%	.0%	.0%	.0%	.0%	33.3%	11.9%	
Total	Count	1	4	3	15	3	3	5	2	6	42		
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

**Q74A\_3: Have you purchased 'main water heater' in the last 5 years? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q74A_3: Have you purchased 'main water heater' in the last 5 years?	Yes	Count	0	0	2	11	2	1	0	4	1	5	26
		% within Building type_recoded2	.0%	.0%	16.7%	23.4%	33.3%	7.1%	.0%	21.1%	12.5%	15.6%	15.8%
	No	Count	2	20	8	35	4	13	4	15	6	27	134
		% within Building type_recoded2	100.0%	100.0%	66.7%	74.5%	66.7%	92.9%	80.0%	78.9%	75.0%	84.4%	81.2%
	DONT KNOW	Count	0	0	2	1	0	0	1	0	1	0	5
		% within Building type_recoded2	.0%	.0%	16.7%	2.1%	.0%	.0%	20.0%	.0%	12.5%	.0%	3.0%
Total	Count	2	20	12	47	6	14	5	19	8	32	165	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only

22
15.1%
119
81.5%
5
3.4%
146
100.0%

**Q74B\_3: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation**

			Building type_recoded2							
			Grocery	Office	Lodging	Health	Industrial	Restaurant	Other	Total
Q74B_3: Did you specify an energy efficient model?	Yes	Count	2	10	2	1	3	0	5	23
		% within Building type_recoded2	100.0%	90.9%	100.0%	100.0%	75.0%	.0%	100.0%	88.5%

commercial only

20
90.9%

No	Count	0	0	0	0	1	1	0	2
	% within Building type_recoded2	.0%	.0%	.0%	.0%	25.0%	100.0%	.0%	7.7%
DONT KNOW	Count	0	1	0	0	0	0	0	1
	% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	3.8%
Total	Count	2	11	2	1	4	1	5	26
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

1
4.5%
1
4.5%
22
100.0%

**Q74A\_4: Have you purchased a 'refrigerator' in the last 5 years? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74A_4: Have you purchased a 'refrigerator' in the last 5 years?	Yes	Count	1	7	4	12	3	4	1	5	5	4	46
		% within Building type_recoded2	50.0%	46.7%	30.8%	36.4%	75.0%	40.0%	25.0%	31.3%	55.6%	18.2%	35.9%
	No	Count	1	8	8	20	1	6	3	11	4	18	80
		% within Building type_recoded2	50.0%	53.3%	61.5%	60.6%	25.0%	60.0%	75.0%	68.8%	44.4%	81.8%	62.5%
	DONT KNOW	Count	0	0	1	1	0	0	0	0	0	0	2
		% within Building type_recoded2	.0%	.0%	7.7%	3.0%	.0%	.0%	.0%	.0%	.0%	.0%	1.6%
Total	Count	2	15	13	33	4	10	4	16	9	22	128	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only
41
41.1%

**Q74B\_4: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74B_4: Did you specify an energy efficient model?	Yes	Count	0	4	2	7	1	3	1	2	4	2	26
		% within Building type_recoded2	.0%	57.1%	50.0%	58.3%	33.3%	75.0%	100.0%	40.0%	80.0%	50.0%	56.5%
	No	Count	1	2	1	1	0	1	0	1	0	1	8
		% within Building type_recoded2	100.0%	28.6%	25.0%	8.3%	.0%	25.0%	.0%	20.0%	.0%	25.0%	17.4%
	DONT KNOW	Count	0	1	1	4	2	0	0	2	1	1	12
		% within Building type_recoded2	.0%	14.3%	25.0%	33.3%	66.7%	.0%	.0%	40.0%	20.0%	25.0%	26.1%
Total	Count	1	7	4	12	3	4	1	5	5	4	46	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

commercial only
24
63.4%

**Q74A\_5: Have you purchased a 'Freezer' in the last 5 years? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74A_5: Have you purchased a 'Freezer' in the last 5 years?	Yes	Count	0	0	4	2	1	0	0	0	2	2	11
		% within Building type_recoded2	.0%	.0%	30.8%	6.1%	25.0%	.0%	.0%	.0%	22.2%	9.1%	8.6%
	No	Count	2	15	8	31	3	10	4	16	7	20	116
		% within Building type_recoded2	100.0%	100.0%	61.5%	93.9%	75.0%	100.0%	100.0%	100.0%	77.8%	90.9%	90.6%
	DONT KNOW	Count	0	0	1	0	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	7.7%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.8%
Total	Count	2	15	13	33	4	10	4	16	9	22	128	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q74B\_5: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2						
		Grocery	Office	Lodging	Restaurant	Other	Total	
Q74B_5: Did you specify an energy efficient model?	Yes	Count	2	0	1	1	0	4
		% within Building type_recoded2	50.0%	.0%	100.0%	50.0%	.0%	36.4%
	No	Count	2	2	0	1	2	7
		% within Building type_recoded2	50.0%	100.0%	.0%	50.0%	100.0%	63.6%
	Total	Count	4	2	1	2	2	11
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q74A\_6: Have you purchased a 'computer' in the last 5 years? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74A_6: Have you	Yes	Count	2	12	5	48	5	10	3	16	7	25	133

purchased a 'computer' in the last 5 years?	No	% within Building type_recoded2	100.0%	57.1%	50.0%	87.3%	83.3%	76.9%	100.0%	84.2%	77.8%	75.8%	77.8%
		Count	0	9	5	6	1	2	0	3	2	8	36
	DONT KNOW	% within Building type_recoded2	.0%	42.9%	50.0%	10.9%	16.7%	15.4%	.0%	15.8%	22.2%	24.2%	21.1%
		Count	0	0	0	1	0	1	0	0	0	0	2
	Total	% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.7%	.0%	.0%	.0%	.0%	1.2%
		Count	2	21	10	55	6	13	3	19	9	33	171
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q74B\_6: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q74B_6: Did you specify an energy efficient model?	Yes	Count	1	5	2	18	4	3	1	8	3	11	56
		% within Building type_recoded2	50.0%	41.7%	40.0%	37.5%	80.0%	30.0%	33.3%	50.0%	42.9%	44.0%	42.1%
	No	Count	1	3	2	15	1	3	1	5	1	9	41
		% within Building type_recoded2	50.0%	25.0%	40.0%	31.3%	20.0%	30.0%	33.3%	31.3%	14.3%	36.0%	30.8%
	DONT KNOW	Count	0	4	1	15	0	4	1	3	3	5	36
		% within Building type_recoded2	.0%	33.3%	20.0%	31.3%	.0%	40.0%	33.3%	18.8%	42.9%	20.0%	27.1%
Total	Count	2	12	5	48	5	10	3	16	7	25	133	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q74A\_7: Have you purchased a 'Motor' in the last 5 years? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Industrial	Restaurant	Other	Total	
Q74A_7: Have you purchased a 'Motor' in the last 5 years?	Yes	Count	1	2	0	3	0	0	4	1	1	12
		% within Building type_recoded2	33.3%	20.0%	.0%	30.0%	.0%	.0%	25.0%	25.0%	4.0%	15.8%
	No	Count	2	8	2	7	2	4	11	1	24	61
		% within Building type_recoded2	66.7%	80.0%	100.0%	70.0%	100.0%	100.0%	68.8%	25.0%	96.0%	80.3%
	DONT KNOW	Count	0	0	0	0	0	0	1	2	0	3
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	6.3%	50.0%	.0%	3.9%
Total	Count	3	10	2	10	2	4	16	4	25	76	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

8  
13.3%

Q74B\_7: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2							
		Warehouse	Retail	Office	Industrial	Restaurant	Other	Total	
Q74B_7: Did you specify an energy efficient model?	Yes	Count	1	0	3	3	1	0	8
		% within Building type_recoded2	100.0%	.0%	100.0%	75.0%	100.0%	.0%	66.7%
	No	Count	0	2	0	1	0	1	4
		% within Building type_recoded2	.0%	100.0%	.0%	25.0%	.0%	100.0%	33.3%
	Total	Count	1	2	3	4	1	1	12
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

5  
62.5%

Q74A\_8: Have you purchased an 'air compressor' in the last 5 years? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2										
		Warehouse	Retail	Grocery	Office	Lodging	Health	Industrial	Restaurant	Other	Total	
Q74A_8: Have you purchased an 'air compressor' in the last 5 years?	Yes	Count	0	2	1	3	1	0	4	0	4	15
		% within Building type_recoded2	.0%	25.0%	50.0%	37.5%	50.0%	.0%	25.0%	.0%	17.4%	21.4%
	No	Count	3	6	1	5	1	5	12	3	19	55
		% within Building type_recoded2	100.0%	75.0%	50.0%	62.5%	50.0%	100.0%	75.0%	100.0%	82.6%	78.6%
	Total	Count	3	8	2	8	2	5	16	3	23	70
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q74B\_8: Did you specify an energy efficient model? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2							
		Retail	Grocery	Office	Lodging	Industrial	Other	Total	
Q74B_8: Did you specify an energy efficient model?	Yes	Count	0	0	2	0	1	1	4
		% within Building type_recoded2	.0%	.0%	66.7%	.0%	25.0%	25.0%	26.7%

No	Count	1	1	1	1	3	3	10
	% within Building type_recoded2	50.0%	100.0%	33.3%	100.0%	75.0%	75.0%	66.7%
DONT KNOW	Count	1	0	0	0	0	0	1
	% within Building type_recoded2	50.0%	.0%	.0%	.0%	.0%	.0%	6.7%
Total	Count	2	1	3	1	4	4	15
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q75: Have you purchased any other equipment that you directly specified to be energy efficient? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q75: Have you purchased any other equipment that you directly specified to be energy efficient?	Yes	Count	0	1	0	11	2	2	0	2	2	4	24
		% within Building type_recoded2	.0%	4.3%	.0%	19.6%	33.3%	14.3%	.0%	8.7%	20.0%	8.7%	12.0%
	No	Count	4	22	13	42	4	12	5	21	6	42	171
		% within Building type_recoded2	100.0%	95.7%	100.0%	75.0%	66.7%	85.7%	100.0%	91.3%	60.0%	91.3%	85.5%
	DONT KNOW	Count	0	0	0	3	0	0	0	0	2	0	5
		% within Building type_recoded2	.0%	.0%	.0%	5.4%	.0%	.0%	.0%	.0%	20.0%	.0%	2.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q76\_1: What did you purchase that you directly specified to be energy efficient?|1 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2								Total
		Retail	Office	Lodging	Health	Industrial	Restaurant	Other		
Q76_1: What did you purchase that you directly specified to be energy efficient? 1	Air compressor	Count	0	0	1	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	50.0%	.0%	.0%	.0%	.0%	4.2%
	Computer	Count	0	4	1	1	1	0	0	7
		% within Building type_recoded2	.0%	36.4%	50.0%	50.0%	50.0%	.0%	.0%	29.2%
	Lighting	Count	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	4.2%
	Lighting controls (e.g. motion sensor, timer, etc.)	Count	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	4.2%
	Refrigerator/Freezer	Count	0	1	0	1	0	1	1	4
		% within Building type_recoded2	.0%	9.1%	.0%	50.0%	.0%	50.0%	25.0%	16.7%
	Windows	Count	0	1	0	0	1	0	1	3
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	50.0%	.0%	25.0%	12.5%
	Dishwasher	Count	0	1	0	0	0	0	2	3
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	50.0%	12.5%
	Stove	Count	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	4.2%
	Washer/Dryer	Count	1	1	0	0	0	0	0	2
		% within Building type_recoded2	100.0%	9.1%	.0%	.0%	.0%	.0%	.0%	8.3%
Other (specify)	Count	0	0	0	0	0	1	0	1	
	% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	50.0%	.0%	4.2%	
Total	Count	1	11	2	2	2	2	4	24	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q76\_2: What did you purchase that you directly specified to be energy efficient?|2 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2			
		Lodging	Industrial	Total	
Q76_2: What did you purchase that you directly specified to be energy efficient? 2	Washer/Dryer	Count	1	0	1
		% within Building type_recoded2	100.0%	.0%	50.0%
	Other (specify)	Count	0	1	1
		% within Building type_recoded2	.0%	100.0%	50.0%
Total	Count	1	1	2	
	% within Building type_recoded2	100.0%	100.0%	100.0%	

Crosstabs



**Warnings**

The crosstabulation of Q82_2: Why do you say
The crosstabulation of Q82_3: Why do you say
The crosstabulation of Q82_4: Why do you say
The crosstabulation of Q84_6: I am going to read a list of possible reasons for
The crosstabulation of Q84_7: I am going to read a list of possible reasons for
The crosstabulation of Q84_8: I am going to read a list of possible reasons for
The crosstabulation of Q84_9: I am going to read a list of possible reasons for

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Q77A: Likelihood of purchasing energy efficient equipment instead of standard equipment if Your monthly energy bill would be less than it would be with the standard equipment? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q77B: Likelihood of purchasing energy efficient equipment instead of standard equipment if It increased the level of occupant comfort more than standard equipment would? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q77C: Likelihood of purchasing energy efficient equipment instead of standard equipment if You felt you were helping to protect the environment? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q77D: Likelihood of purchasing energy efficient equipment instead of standard equipment if You felt you were improving the image or value of your business more than standard equipment would? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q77E: Likelihood of purchasing energy efficient equipment instead of standard equipment if You received a rebate for the energy efficient equipment? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q77F: Likelihood of purchasing energy efficient equipment instead of standard equipment if Your sales person, contractor, or consultant recommended it? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q78: In general, what do you see as the primary reasons you might not purchase energy efficient equipment or make energy efficiency improvements to this space? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%
Q79: Are you aware that your utility has energy efficiency programs or products that offer incentives or rebates? *	200	100.0%	0	.0%	200	100.0%
Q80: Have you participated in any of the utilities' energy efficiency program or purchased any of the promoted products? * Building type_recoded2	115	57.5%	85	42.5%	200	100.0%
Q81: Would you participate in the program again should you have the opportunity? * Building type_recoded2	32	16.0%	168	84.0%	200	100.0%
Q82_1: Why do you say that? 1 * Building type_recoded2	2	1.0%	198	99.0%	200	100.0%
Q84_1: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 1 * Building type_recoded2	83	41.5%	117	58.5%	200	100.0%
Q84_2: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 2 * Building type_recoded2	16	8.0%	184	92.0%	200	100.0%
Q84_3: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 3 * Building type_recoded2	5	2.5%	195	97.5%	200	100.0%
Q84_4: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 4 * Building type_recoded2	2	1.0%	198	99.0%	200	100.0%
Q84_5: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 5 * Building type_recoded2	1	.5%	199	99.5%	200	100.0%
Q85: Please describe the conditions that may be sufficient for your business to participate in a utility sponsored energy efficiency program * Building type_recoded2	9	4.5%	191	95.5%	200	100.0%
GR: Gender of respondent? * Building type_recoded2	200	100.0%	0	.0%	200	100.0%

Q77A: Likelihood of purchasing energy efficient equipment instead of standard equipment if Your monthly energy bill would be less than it would be with the standard equipment? \* Building type\_recoded2 Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q77A: Likelihood of purchasing energy efficient equipment instead of	Not at All Likely	Count	1	2	0	3	0	0	0	1	0	5	12
		% within Building type_recoded2	25.0%	8.7%	.0%	5.4%	.0%	.0%	.0%	4.3%	.0%	10.9%	6.0%

standard equipment if>Your monthly energy bill would be less than it would be with the standard equipment?	2	Count	0	0	1	0	0	1	0	0	0	0	2
		% within Building type_recoded2	.0%	.0%	7.7%	.0%	.0%	7.1%	.0%	.0%	.0%	.0%	1.0%
	3	Count	0	2	1	5	0	0	1	0	1	6	16
		% within Building type_recoded2	.0%	8.7%	7.7%	8.9%	.0%	.0%	20.0%	.0%	10.0%	13.0%	8.0%
	4	Count	1	4	4	13	1	4	0	3	1	8	39
		% within Building type_recoded2	25.0%	17.4%	30.8%	23.2%	16.7%	28.6%	.0%	13.0%	10.0%	17.4%	19.5%
	Extremely Likely	Count	2	15	7	34	5	8	4	19	8	27	129
		% within Building type_recoded2	50.0%	65.2%	53.8%	60.7%	83.3%	57.1%	80.0%	82.6%	80.0%	58.7%	64.5%
	No answer	Count	0	0	0	1	0	1	0	0	0	0	2
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	.0%	1.0%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q77B: Likelihood of purchasing energy efficient equipment instead of standard equipment ifIt increased the level of occupant comfort more than standard equipment would? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q77B: Likelihood of purchasing energy efficient equipment instead of standard equipment ifIt increased the level of occupant comfort more than standard equipment would?	Not at All Likely	Count	1	2	0	4	0	2	0	1	0	9	19
		% within Building type_recoded2	25.0%	8.7%	.0%	7.1%	.0%	14.3%	.0%	4.3%	.0%	19.6%	9.5%
	2	Count	0	0	0	0	0	1	0	1	1	2	5
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	7.1%	.0%	4.3%	10.0%	4.3%	2.5%
	3	Count	0	4	5	11	1	4	1	1	3	8	38
		% within Building type_recoded2	.0%	17.4%	38.5%	19.6%	16.7%	28.6%	20.0%	4.3%	30.0%	17.4%	19.0%
	4	Count	1	4	1	10	1	3	2	7	2	9	40
		% within Building type_recoded2	25.0%	17.4%	7.7%	17.9%	16.7%	21.4%	40.0%	30.4%	20.0%	19.6%	20.0%
	Extremely Likely	Count	2	13	7	30	4	4	2	13	4	18	97
		% within Building type_recoded2	50.0%	56.5%	53.8%	53.6%	66.7%	28.6%	40.0%	56.5%	40.0%	39.1%	48.5%
	No answer	Count	0	0	0	1	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	.0%	.0%	.0%	.0%	.0%	.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q77C: Likelihood of purchasing energy efficient equipment instead of standard equipment ifYou felt you were helping to protect the environment? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q77C: Likelihood of purchasing energy efficient equipment instead of standard equipment ifYou felt you were helping to protect the environment?	Not at All Likely	Count	1	1	1	3	0	0	1	1	0	6	14
		% within Building type_recoded2	25.0%	4.3%	7.7%	5.4%	.0%	.0%	20.0%	4.3%	.0%	13.0%	7.0%
	2	Count	0	0	1	0	0	0	0	0	0	2	3
		% within Building type_recoded2	.0%	.0%	7.7%	.0%	.0%	.0%	.0%	.0%	.0%	4.3%	1.5%
	3	Count	0	7	2	11	1	3	0	2	3	6	35
		% within Building type_recoded2	.0%	30.4%	15.4%	19.6%	16.7%	21.4%	.0%	8.7%	30.0%	13.0%	17.5%
	4	Count	1	2	1	11	0	3	1	7	0	15	41
		% within Building type_recoded2	25.0%	8.7%	7.7%	19.6%	.0%	21.4%	20.0%	30.4%	.0%	32.6%	20.5%
	Extremely Likely	Count	2	12	8	30	5	7	3	13	7	17	104
		% within Building type_recoded2	50.0%	52.2%	61.5%	53.6%	83.3%	50.0%	60.0%	56.5%	70.0%	37.0%	52.0%
	No answer	Count	0	1	0	1	0	1	0	0	0	0	3
		% within Building type_recoded2	.0%	4.3%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	.0%	1.5%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Q77D: Likelihood of purchasing energy efficient equipment instead of standard equipment ifYou felt you were improving the image or value of your business more than standard equipment would? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q77D: Likelihood of purchasing energy efficient equipment instead of standard equipment ifYou	2	Count	1	3	0	5	0	0	1	1	0	10	21
		% within Building type_recoded2	25.0%	13.0%	.0%	8.9%	.0%	.0%	20.0%	4.3%	.0%	21.7%	10.5%
	Count	0	1	0	1	0	1	0	0	0	1	4	

felt you were improving the image or value of your business more than standard equipment would?	3	% within Building type_recoded2	.0%	4.3%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	2.2%	2.0%
		Count	0	4	2	9	1	3	1	3	1	5	29
	4	% within Building type_recoded2	.0%	17.4%	15.4%	16.1%	16.7%	21.4%	20.0%	13.0%	10.0%	10.9%	14.5%
		Count	1	3	3	16	0	3	1	8	1	13	49
	Extremely Likely	% within Building type_recoded2	25.0%	13.0%	23.1%	28.6%	.0%	21.4%	20.0%	34.8%	10.0%	28.3%	24.5%
		Count	2	11	8	24	5	6	2	11	8	17	94
	No answer	% within Building type_recoded2	50.0%	47.8%	61.5%	42.9%	83.3%	42.9%	40.0%	47.8%	80.0%	37.0%	47.0%
		Count	0	1	0	1	0	1	0	0	0	0	3
	Total	% within Building type_recoded2	.0%	4.3%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	.0%	1.5%
		Count	4	23	13	56	6	14	5	23	10	46	200
			% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Q77E: Likelihood of purchasing energy efficient equipment instead of standard equipment if You received a rebate for the energy efficient equipment? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q77E: Likelihood of purchasing energy efficient equipment instead of standard equipment if You received a rebate for the energy efficient equipment?	Not at All Likely	Count	1	3	0	2	0	0	0	1	1	9	17
		% within Building type_recoded2	25.0%	13.0%	.0%	3.6%	.0%	.0%	.0%	4.3%	10.0%	19.6%	8.5%
	2	Count	0	0	0	0	0	1	0	0	0	1	2
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	7.1%	.0%	.0%	.0%	2.2%	1.0%
	3	Count	0	3	2	8	0	2	0	1	1	3	20
		% within Building type_recoded2	.0%	13.0%	15.4%	14.3%	.0%	14.3%	.0%	4.3%	10.0%	6.5%	10.0%
	4	Count	1	3	3	10	1	2	1	4	1	5	31
		% within Building type_recoded2	25.0%	13.0%	23.1%	17.9%	16.7%	14.3%	20.0%	17.4%	10.0%	10.9%	15.5%
	Extremely Likely	Count	2	14	8	35	5	8	4	17	7	28	128
		% within Building type_recoded2	50.0%	60.9%	61.5%	62.5%	83.3%	57.1%	80.0%	73.9%	70.0%	60.9%	64.0%
	No answer	Count	0	0	0	1	0	1	0	0	0	0	2
		% within Building type_recoded2	.0%	.0%	.0%	1.8%	.0%	7.1%	.0%	.0%	.0%	.0%	1.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q77F: Likelihood of purchasing energy efficient equipment instead of standard equipment if Your sales person, contractor, or consultant recommended it? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q77F: Likelihood of purchasing energy efficient equipment instead of standard equipment if Your sales person, contractor, or consultant recommended it?	Not at All Likely	Count	1	2	0	4	0	1	1	1	0	13	23
		% within Building type_recoded2	25.0%	8.7%	.0%	7.1%	.0%	7.1%	20.0%	4.3%	.0%	28.3%	11.5%
	2	Count	1	1	1	3	2	0	0	1	1	1	11
		% within Building type_recoded2	25.0%	4.3%	7.7%	5.4%	33.3%	.0%	.0%	4.3%	10.0%	2.2%	5.5%
	3	Count	0	5	6	16	0	4	1	4	1	7	44
		% within Building type_recoded2	.0%	21.7%	46.2%	28.6%	.0%	28.6%	20.0%	17.4%	10.0%	15.2%	22.0%
	4	Count	0	4	1	8	1	4	1	6	2	14	41
		% within Building type_recoded2	.0%	17.4%	7.7%	14.3%	16.7%	28.6%	20.0%	26.1%	20.0%	30.4%	20.5%
	Extremely Likely	Count	2	10	5	23	3	4	2	10	6	10	75
		% within Building type_recoded2	50.0%	43.5%	38.5%	41.1%	50.0%	28.6%	40.0%	43.5%	60.0%	21.7%	37.5%
	No answer	Count	0	1	0	2	0	1	0	1	0	1	6
		% within Building type_recoded2	.0%	4.3%	.0%	3.6%	.0%	7.1%	.0%	4.3%	.0%	2.2%	3.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200	
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q78: In general, what do you see as the primary reasons you might not purchase energy efficient equipment or make energy efficiency improvements to this space? \* Building type\_recoded2 Crosstabulation**

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
Q78: In general, what do you see as the primary reasons you might not purchase energy efficient equipment or make energy efficiency improvements to this space?	Cost / Benefit	Count	2	14	7	26	6	6	3	16	4	21	105
		% within Building type_recoded2	50.0%	60.9%	53.8%	46.4%	100.0%	42.9%	60.0%	69.6%	40.0%	45.7%	52.5%
	Corporate Decision	Count	0	1	0	6	0	1	0	0	1	1	10
		% within Building type_recoded2	.0%	4.3%	.0%	10.7%	.0%	7.1%	.0%	.0%	10.0%	2.2%	5.0%
	Renting / Do Not	Count	0	1	0	4	0	0	0	1	1	1	8
		% within Building type_recoded2	.0%	4.3%	.0%	7.1%	.0%	.0%	.0%	4.3%	10.0%	2.2%	4.0%

Own Property	% within Building type_recoded2	.0%	4.3%	.0%	7.1%	.0%	.0%	.0%	4.3%	10.0%	2.2%	4.0%
No Need	Count	1	1	1	3	0	0	0	2	0	7	15
	% within Building type_recoded2	25.0%	4.3%	7.7%	5.4%	.0%	.0%	.0%	8.7%	.0%	15.2%	7.5%
Not Compatible With Business Needs	Count	0	0	1	1	0	0	0	2	1	1	6
	% within Building type_recoded2	.0%	.0%	7.7%	1.8%	.0%	.0%	.0%	8.7%	10.0%	2.2%	3.0%
Quality	Count	0	0	1	1	0	0	0	0	0	3	5
	% within Building type_recoded2	.0%	.0%	7.7%	1.8%	.0%	.0%	.0%	.0%	.0%	6.5%	2.5%
Replacing As Needed	Count	0	1	0	2	0	1	0	0	1	2	7
	% within Building type_recoded2	.0%	4.3%	.0%	3.6%	.0%	7.1%	.0%	.0%	10.0%	4.3%	3.5%
No Reason	Count	0	1	0	4	0	2	0	0	0	0	7
	% within Building type_recoded2	.0%	4.3%	.0%	7.1%	.0%	14.3%	.0%	.0%	.0%	.0%	3.5%
Not Well Informed	Count	0	1	0	0	0	0	1	0	0	0	2
	% within Building type_recoded2	.0%	4.3%	.0%	.0%	.0%	.0%	20.0%	.0%	.0%	.0%	1.0%
Other	Count	1	0	1	4	0	0	1	0	2	4	13
	% within Building type_recoded2	25.0%	.0%	7.7%	7.1%	.0%	.0%	20.0%	.0%	20.0%	8.7%	6.5%
Don't know	Count	0	1	2	2	0	4	0	2	0	5	16
	% within Building type_recoded2	.0%	4.3%	15.4%	3.6%	.0%	28.6%	.0%	8.7%	.0%	10.9%	8.0%
Refused	Count	0	2	0	3	0	0	0	0	0	1	6
	% within Building type_recoded2	.0%	8.7%	.0%	5.4%	.0%	.0%	.0%	.0%	.0%	2.2%	3.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q79: Are you aware that your utility has energy efficiency programs or products that offer incentives or rebates? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q79: Are you aware that your utility has energy efficiency programs or products that offer incentives or rebates?	Yes	Count	4	13	7	33	4	7	4	14	2	27	115
		% within Building type_recoded2	100.0%	56.5%	53.8%	58.9%	66.7%	50.0%	80.0%	60.9%	20.0%	58.7%	57.5%
	No	Count	0	10	6	20	2	6	1	8	8	17	78
		% within Building type_recoded2	.0%	43.5%	46.2%	35.7%	33.3%	42.9%	20.0%	34.8%	80.0%	37.0%	39.0%
	DONT KNOW	Count	0	0	0	3	0	1	0	1	0	2	7
		% within Building type_recoded2	.0%	.0%	.0%	5.4%	.0%	7.1%	.0%	4.3%	.0%	4.3%	3.5%
	Total	Count	4	23	13	56	6	14	5	23	10	46	200
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q80: Have you participated in any of the utilities' energy efficiency program or purchased any of the promoted products? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q80: Have you participated in any of the utilities' energy efficiency program or purchased any of the promoted products?	Yes	Count	2	2	2	6	2	2	3	3	2	8	32
		% within Building type_recoded2	50.0%	15.4%	28.6%	18.2%	50.0%	28.6%	75.0%	21.4%	100.0%	29.6%	27.8%
	No	Count	2	10	5	23	1	4	1	11	0	18	75
		% within Building type_recoded2	50.0%	76.9%	71.4%	69.7%	25.0%	57.1%	25.0%	78.6%	.0%	66.7%	65.2%
	DONT KNOW	Count	0	1	0	4	1	1	0	0	0	1	8
		% within Building type_recoded2	.0%	7.7%	.0%	12.1%	25.0%	14.3%	.0%	.0%	.0%	3.7%	7.0%
	Total	Count	4	13	7	33	4	7	4	14	2	27	115
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q81: Would you participate in the program again should you have the opportunity? \* Building type\_recoded2 Crosstabulation

			Building type_recoded2										
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total
Q81: Would you participate in the program again should you have the opportunity?	Yes	Count	2	2	2	6	2	2	1	3	2	8	30
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	33.3%	100.0%	100.0%	100.0%	93.8%
	No	Count	0	0	0	0	0	0	1	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	33.3%	.0%	.0%	.0%	3.1%
	DONT KNOW	Count	0	0	0	0	0	0	1	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	33.3%	.0%	.0%	.0%	3.1%
	Total	Count	2	2	2	6	2	2	3	3	2	8	32
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
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Q82\_1: Why do you say that?|1 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2	
		Education	Total
Q82_1: Why do you say that? 1	Program incentives were not enough	Count	2
		% within Building type_recoded2	100.0%
Total		Count	2
		% within Building type_recoded2	100.0%

Q84\_1: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.|1 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2									
			Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Other	Total
Q84_1: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 1	I didn't know I was eligible	Count	0	3	1	2	1	1	0	2	4	14
		% within Building type_recoded2	.0%	27.3%	20.0%	7.4%	50.0%	20.0%	.0%	18.2%	21.1%	16.9%
	I have not recently purchased any of the items we have	Count	1	6	3	11	1	1	0	7	8	38
		% within Building type_recoded2	50.0%	54.5%	60.0%	40.7%	50.0%	20.0%	.0%	63.6%	42.1%	45.8%
	I have purchased items but they were not energy	Count	0	0	0	2	0	0	0	0	2	4
		% within Building type_recoded2	.0%	.0%	.0%	7.4%	.0%	.0%	.0%	.0%	10.5%	4.8%
	I don't know how to find out more about the	Count	0	1	0	0	0	0	0	0	1	2
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	.0%	.0%	.0%	5.3%	2.4%
	Salesperson didn't talk to me about any programs	Count	0	0	0	1	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	.0%	3.7%	.0%	.0%	.0%	.0%	.0%	1.2%
	Program incentives were not enough	Count	0	0	0	1	0	0	0	1	0	2
		% within Building type_recoded2	.0%	.0%	.0%	3.7%	.0%	.0%	.0%	9.1%	.0%	2.4%
	It wasn't worth the hassle (describe)	Count	0	0	0	0	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	5.3%	1.2%
	Payback wasn't sufficient	Count	0	1	0	0	0	1	0	0	0	2
		% within Building type_recoded2	.0%	9.1%	.0%	.0%	.0%	20.0%	.0%	.0%	.0%	2.4%
	Cost	Count	0	0	1	0	0	0	0	0	0	1
		% within Building type_recoded2	.0%	.0%	20.0%	.0%	.0%	.0%	.0%	.0%	.0%	1.2%
	Corporate Office decision	Count	0	0	0	4	0	0	1	0	0	5
		% within Building type_recoded2	.0%	.0%	.0%	14.8%	.0%	.0%	100.0%	.0%	.0%	6.0%
	Lease not own	Count	0	0	0	3	0	0	0	0	1	4
		% within Building type_recoded2	.0%	.0%	.0%	11.1%	.0%	.0%	.0%	.0%	5.3%	4.8%
	Small impact	Count	0	0	0	1	0	0	0	0	1	2
		% within Building type_recoded2	.0%	.0%	.0%	3.7%	.0%	.0%	.0%	.0%	5.3%	2.4%
	No reason	Count	0	0	0	2	0	2	0	0	1	5
		% within Building type_recoded2	.0%	.0%	.0%	7.4%	.0%	40.0%	.0%	.0%	5.3%	6.0%
	OTHER (specify)	Count	1	0	0	0	0	0	0	1	0	2
		% within Building type_recoded2	50.0%	.0%	.0%	.0%	.0%	.0%	.0%	9.1%	.0%	2.4%
Total		Count	2	11	5	27	2	5	1	11	19	83
		% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Q84\_2: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.|2 \* Building type\_recoded2 Crosstabulation

			Building type_recoded2					
			Warehouse	Retail	Office	Industrial	Other	Total
Q84_2: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you. 2	I didn't know I was eligible	Count	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	14.3%	6.3%
	I have not recently purchased any of the items we have	Count	0	1	0	1	2	4
		% within Building type_recoded2	.0%	50.0%	.0%	33.3%	28.6%	25.0%
	I have purchased items but they were not energy	Count	0	0	0	0	1	1
		% within Building type_recoded2	.0%	.0%	.0%	.0%	14.3%	6.3%
	I don't know how to	Count	0	0	1	0	2	3
		% within Building type_recoded2	.0%	.0%	100.0%	.0%	66.7%	25.0%

	find out more about the	% within Building type_recoded2	.0%	.0%	33.3%	.0%	28.6%	18.8%
	Salesperson didn't talk to me about any programs	Count	0	1	1	0	1	3
		% within Building type_recoded2	.0%	50.0%	33.3%	.0%	14.3%	18.8%
	Payback wasn't sufficient	Count	1	0	0	1	0	2
		% within Building type_recoded2	100.0%	.0%	.0%	33.3%	.0%	12.5%
	Cost	Count	0	0	1	0	0	1
		% within Building type_recoded2	.0%	.0%	33.3%	.0%	.0%	6.3%
	Lease not own	Count	0	0	0	1	0	1
		% within Building type_recoded2	.0%	.0%	.0%	33.3%	.0%	6.3%
	Total	Count	1	2	3	3	7	16
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**Q84\_3: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.**3 \* Building type\_recoded2 Crosstabulation

		Building type_recoded2			
		Retail	Other	Total	
Q84_3: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.	I don't know how to find out more about the	Count	1	0	1
		% within Building type_recoded2	100.0%	.0%	20.0%
	Salesperson didn't talk to me about any programs	Count	0	4	4
		% within Building type_recoded2	.0%	100.0%	80.0%
	Total	Count	1	4	5
	% within Building type_recoded2	100.0%	100.0%	100.0%	

**Q84\_4: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.**4 \* Building type\_recoded2

		Building type_recoded2		
		Other	Total	
Q84_4: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.	Program incentives were not enough	Count	1	1
		% within Building type_recoded2	50.0%	50.0%
	OTHER (specify)	Count	1	1
		% within Building type_recoded2	50.0%	50.0%
	Total	Count	2	2
	% within Building type_recoded2	100.0%	100.0%	

**Q84\_5: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.**5 \* Building type\_recoded2

		Building type_recoded2		
		Other	Total	
Q84_5: I am going to read a list of possible reasons for not participating in an energy efficiency program. Please indicate for each reason whether it is true for you.	Cost	Count	1	1
		% within Building type_recoded2	100.0%	100.0%
	Total	Count	1	1
	% within Building type_recoded2	100.0%	100.0%	

**Q85: Please describe the conditions that may be sufficient for your business to participate in a utility sponsored energy efficiency program \* Building type\_recoded2**  
Crosstabulation

		Building type_recoded2							
		Warehouse	Retail	Office	Health	Industrial	Other	Total	
Q85: Please describe the conditions that may be sufficient for your business to participate in a utility sponsored energy efficiency program	If Mandatory	Count	0	1	2	0	0	2	5
		% within Building type_recoded2	.0%	100.0%	100.0%	.0%	.0%	66.7%	55.6%
	If saves cost - benefits	Count	1	0	0	1	1	1	4
		% within Building type_recoded2	100.0%	.0%	.0%	100.0%	100.0%	33.3%	44.4%
	Total	Count	1	1	2	1	1	3	9
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**GR: Gender of respondent? \* Building type\_recoded2** Crosstabulation

		Building type_recoded2											
		Warehouse	Retail	Grocery	Office	Lodging	Health	Education	Industrial	Restaurant	Other	Total	
GR: Gender of respondent?	Male	Count	4	14	9	25	3	3	4	12	6	28	108

	% within Building type_recoded2	100.0%	60.9%	69.2%	44.6%	50.0%	21.4%	80.0%	52.2%	60.0%	60.9%	54.0%
Female	Count	0	9	4	31	3	11	1	11	4	18	92
	% within Building type_recoded2	.0%	39.1%	30.8%	55.4%	50.0%	78.6%	20.0%	47.8%	40.0%	39.1%	46.0%
Total	Count	4	23	13	56	6	14	5	23	10	46	200
	% within Building type_recoded2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



## Commercial Electric Model - Remaining Factor Derivations from Site Surveys

Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL												
Commercial - Remaining Factors												
Measure Name												
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
<b>Appliances, Computers &amp; Office Equipment</b>												
Energy Star Compliant Single Door Refrigerator	101				100.0%	100.0%	83.0%		100.0%	100.0%	95.0%	20
Energy Star office equipment including computers, monitors, copiers, multi-function machines.	102	55.0%	100.0%	0.0%	15.0%	100.0%	54.0%	100.0%	59.0%	93.0%	56.7%	1389
TVs - Energy Star over standard	103											
Energy Efficient "Smart" Power Strip for PC/Monitor/Printer	104											
EZ Save Monitor Power Management Software	105											
<b>Water Heating End Use</b>												
Commercial Dishwasher (Under Counter Hi-Temp, Electric DHW)	151				100.0%	100.0%		100.0%	100.0%	100.0%	100.0%	7
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, - Electric DHW)	152											
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, Non-Electric DHW)	153											
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Electric DHW)	154				100.0%	50.0%	100.0%		0.0%	100.0%	71.4%	21
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Non-Electric DHW)	155											
Ozone Commercial Laundry System (Electric HW)	156											
Heat Pump Water Heater	157											
Booster Water Heater	158											
Point of Use Water Heater	159											
Solar Water Heating System	160											
High Efficiency Electric Water Heater	161											
Low Flow Pre-Rinse Spray Nozzle (Included in 2006 Federal Standards) (Electric HW)	162											
<b>Pools</b>												
Energy Efficient Pool Pump with controls	201											
High efficiency spas/hot tubs	202											
Solar Pool Heater	203				100.0%	100.0%					100.0%	11
Heat Pump Pool Heater	204											
Temperature Control	205				100.0%	8.0%					7.1%	14
Pool Cover	206				100.0%	88.0%					89.5%	19
Liquid Pool Cover	207											
<b>Building Envelope</b>												
Integrated Building Design	301											

## Commercial Electric Model - Remaining Factor Derivations from Site Surveys

Commercial - Remaining Factors												
Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL												
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
Energy Efficient Windows	302	0.0%	0.0%	0.0%	13.0%	15.0%	10.0%	25.0%	0.0%	13.0%	3.7%	81
Interior Storm Windows (Low-e or double clear film)	303											
Cool Roofing (White Coatings)	304	75.0%	67.0%	67.0%	89.0%	92.0%	82.0%	33.0%	70.0%	94.0%	81.8%	88
<b>Ventilation</b>												
Dual Enthalpy Economizer - from Fixed Damper	321	100.0%	50.0%	100.0%	44.0%	80.0%	37.5%	100.0%	71.0%	71.0%	64.6%	79
Dual Enthalpy Economizer - from Dry Bulb	322											
Demand-Controlled Ventilation (CO2 vent control)	323											
Heat Recovery	324	100.0%	100.0%	100.0%	93.0%	67.0%	75.0%	100.0%	73.0%	100.0%	87.3%	63
Fan Motor, 40hp, 1800rpm, 94.1%	325											
Fan Motor, 15hp, 1800rpm, 92.4%	326											
Fan Motor, 5hp, 1800rpm, 89.5%	327											
Variable Speed Drive Control, 15 HP	328											
Variable Speed Drive Control, 5 HP	329											
Variable Speed Drive Control, 40 HP	330											
Static Pressure Reset on Fans	331											
Underfloor Air distribution	332											
Cold air distribution (reduce fan HP)	333											
Variable Pitch Fans	334											
Electronically-Commutated Permanent Magnet Motors (ECPMs)	335											
Improved Duct Sealing	336											
<b>Space Cooling - Chillers</b>												
Centrifugal Chiller, 0.51 kW/ton, 300 tons	341											
Centrifugal Chiller, 0.51 kW/ton, 500 tons	342											
Centrifugal Chiller, Optimal Design, 0.4 kW/ton, 500 tons	343											
Chiller Tune Up/Diagnostics - 300 ton	344											
Variable Refrigerant Volume/Flow	345											
Dedicated Outdoor Air System	346											
Chiller Tune Up/Diagnostics - 500 ton	347											
<b>HVAC Controls</b>												
Retrocommissioning	361											
Programmable Thermostat	362											
EMS install	363	100.0%	67.0%	67.0%	56.0%	92.0%	82.0%	75.0%	21.0%	52.0%	61.7%	94
EMS Optimization	364											
System/Component Diagnostics	365											
LEED Enhanced Commissioning	366											

## Commercial Electric Model - Remaining Factor Derivations from Site Surveys

Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL												
Commercial - Remaining Factors												
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
Hotel Guest Room Occupancy Control System	367											
<b>Space Cooling - Unitary &amp; Split AC</b>												
HVAC Advanced Tune-Up	381											
High Efficiency AC - Unitary and Split Systems (Tier 2)	382											
High Efficiency AC - Unitary & Split AC Systems (Tier 3)	383											
Ductless (mini split)	384											
Comprehensive Track Proper HVAC Sizing	385											
Improved Duct Sealing	386											
Radiant Ceiling Cooling	387											
Dedicated Outdoor Air System	388											
Ground Source Heat Pump - Cooling	389											
<b>Cooking</b>												
HE Steamer	401											
HE Combination Oven	402											
HE Holding Cabinet	403											
HE Fryer - Electric	404											
Demand Ventilation Control	405		100.0%	67.0%	100.0%	75.0%	71.0%	75.0%	69.0%	67.0%	73.2%	11
Induction Cooktops	406											
<b>Lighting</b>												
Lamp & Ballast Retrofit (HP T8 Replacing T12)	501	21.0%	36.0%	1.0%	20.0%	49.0%	50.0%	59.0%	3.0%	12.0%	34.3%	43607
Lamp & Ballast Retrofit (HP T8 Replacing Standard T8)	502											
High Efficiency Fluorescent Fixtures (HP T8 Troffer Replacing T12)	503											
High Efficiency Fluorescent Fixtures (Low Glare Troffer HPT8/T5 Replacing T12)	504											
High Intensity Fluorescent Fixtures (replacing HID) - Hi & Low Bay	505											
Fluorescent Fixtures with Reflectors	506	40.6%	37.4%	79.4%	61.7%	83.4%	95.6%	1.6%	47.2%	64.3%	67.8%	33504
CFL Fixture	507	35.0%	89.0%	96.0%	37.0%	32.0%	33.0%	57.0%	46.0%	41.0%	50.4%	8777
Replace Exterior Quartz Halogen w/PSMH or HPS	508											
Replace Exterior Metal Halide w/PSMH	509	100.0%	100.0%		100.0%	100.0%			100.0%	100.0%	100.0%	318
LED Exit Sign	510	17.0%	100.0%	100.0%	43.0%	21.0%	37.5%	0.0%	0.0%	33.0%	22.5%	374
LEC Exit Sign	511											
LED Traffic / Pedestrian Signals	512											
HID Fixture - Pulse Start Metal Halide (Interior)	513	100.0%	100.0%		80.0%	100.0%	100.0%		95.0%	94.0%	94.5%	1469

## Commercial Electric Model - Remaining Factor Derivations from Site Surveys

Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL												
Commercial - Remaining Factors												
Measure Name												
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
Specialty Fixtures - Halogen Infra-Red Bulb	514											
Specialty Fixtures - Integrated Ballast 25W MH	515											
Specialty Fixtures - Induction Fluorescent 23W	516											
Specialty Fixtures - Metal Halide Track	517											
Cold Cathode Screw In	518											
LED Screw In	519											
CFL Screw-in	520	35.0%	89.0%	96.0%	37.0%	32.0%	33.0%	57.0%	46.0%	41.0%	50.4%	8777
LED Christmas type - decorative lighting	521											
<b>Lighting Controls</b>												
Controls for HID - Hi/Lo	551											
Controls for HIF- Remote Mount Occupancy Sensor	552											
Remote Mounted Occupancy Sensor - Non HIF	553	92.0%	71.0%	99.0%	78.0%	95.0%	99.0%	72.0%	79.0%	60.0%	83.4%	45275
Switch Mounted Occupancy Sensor	554	92.0%	71.0%	99.0%	78.0%	95.0%	99.0%	72.0%	79.0%	60.0%	83.4%	45275
Daylight Controlled Dimming Ballast	555											
Daylight Dimming - New Construction	556											
5% More Efficient Lighting Design - Existing Construction	557											
10% More Efficient Lighting Design - Existing Construction	558											
15% More Efficient Design - New Construction	559											
Dimming controls (night glare & roads/areas not used often)	560											
30% More Efficient Design - New Construction	561											
<b>Refrigeration</b>												
Vending Miser for Soft Drink Vending Machines	601											
Vending Miser for Non-Refrigerated Machines	602											
Refrigerated Case Covers	603											
Refrigeration Economizer	604		100.0%	100.0%	100.0%	100.0%	100.0%		100.0%		100.0%	37
Commercial Reach-In Cooler	605											
Commercial Reach-In Freezer	606											
Commercial Ice-makers	607											
Evaporator Fan Motor Controls	608		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	46
H.E. Evaporative Fan Motors	609	100.0%	100.0%	44.0%	67.0%	100.0%	75.0%	100.0%	100.0%	100.0%	83.0%	47
Zero-Energy Doors - Coolers	610											
Zero-Energy Doors - Freezers	611											

## Commercial Electric Model - Remaining Factor Derivations from Site Surveys

Commercial - Remaining Factors												
Remaining Factors are calculated as (1-saturation factor). ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL												
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N
Door Heater Controls	612			100.0%		100.0%		100.0%	100.0%	0.0%	91.7%	12
Discuss Compressor	613	0.0%	100.0%	100.0%	55.0%	73.0%	100.0%		100.0%	100.0%	81.5%	54
Scroll Compressor	614	0.0%	100.0%	100.0%	55.0%	73.0%	100.0%		100.0%	100.0%	81.5%	54
Floating Head Pressure Control	615		0.0%	50.0%	100.0%	80.0%	100.0%	100.0%	100.0%	0.0%	80.0%	40
ECM Motors	616											
Air Curtains (replacing electric door heaters)	617											
High efficiency designs for large refrigeration freezer system	618		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	30.0%	100.0%	85.7%	49
LED lighting retrofits in refrigeration end-uses/display cases	619		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	87.0%	100.0%	97.9%	97
<b>Compressed Air</b>												
Compressed Air – Non-Controls	701	100.0%		100.0%	100.0%	100.0%	67.0%	100.0%	100.0%	78.0%	84.0%	25
Compressed Air – Controls	702	50.0%	100.0%	100.0%	57.0%	82.0%	67.0%	100.0%	100.0%	57.0%	69.2%	52
<b>Transformers</b>												
Energy Efficient Transformers	716											
<b>Space Heating</b>												
High Efficiency Heat Pump	741											
Water Source Heat Pump	742	100.0%		100.0%	88.6%	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%	257
Ground Source Heat Pump	743											
<b>Non-HVAC Motors</b>												
Efficient Motors	781	97.0%	100.0%	100.0%	81.0%	100.0%	97.0%	100.0%	89.0%	77.0%	91.3%	990
Variable Frequency Drives (VFD)	782	100.0%	100.0%	100.0%	73.0%	86.0%	99.0%		100.0%	90.0%	92.5%	1396

## Commercial Electric Model - Saturation Factors from Site Surveys

Commercial - Saturation		Saturation is defined as the percentage of installed appliances that already incorporate the listed measure <u>not</u> the percentage of facilities that utilize the electric end use. <b>ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>													
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N	Comment	
<b>Appliances, Computers &amp; Office Equipment</b>															
Energy Star Compliant Single Door Refrigerator	101				0.0%	0.0%	17.0%		0.0%	0.0%	Refrigeration, Non Commercial Single-Door	5.0%	20		
Energy Star office equipment including computers, monitors, copiers, multi-function machines.	102	45.0%	0.0%	100.0%	85.0%	0.0%	46.0%	0.0%	41.0%	7.0%	Standby Power Office Equipment	43.3%	1389		
TVs - Energy Star over standard	103														
Energy Efficient "Smart" Power Strip for PC/Monitor/Printer	104														
EZ Save Monitor Power Management Software	105														
<b>Water Heating End Use</b>															
Commercial Dishwasher (Under Counter Hi-Temp, Electric DHW)	151				0.0%	0.0%		0.0%	0.0%	0.0%	Appliances, Dishwasher	0.0%	7		
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, - Electric DHW)	152														
Commercial Dishwasher (Single Tank Conveyor Hi-Temp, Non-Electric DHW)	153														
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Electric DHW)	154				0.0%	50.0%	0.0%		100.0%	0.0%	Appliances, Clothes Washer, Commercial	28.6%	21		
Commercial Clothes washers (Hotels, Laundromats, Restaurants, etc.) (w/ Non-Electric DHW)	155														
Ozone Commercial Laundry System (Electric HW)	156														
Heat Pump Water Heater	157														
Booster Water Heater	158														
Point of Use Water Heater	159														
Solar Water Heating System	160														
High Efficiency Electric Water Heater	161														
Low Flow Pre-Rinse Spray Nozzle (Included in 2006 Federal Standards) (Electric HW)	162														
<b>Pools</b>															
Energy Efficient Pool Pump with controls	201														
High efficiency spas/hot tubs	202														
Solar Pool Heater	203				0.0%	0.0%					Pool/SPA, Solar Collector in Use (ft*2)	0.0%	11		
Heat Pump Pool Heater	204														
Temperature Control	205				0.0%	92.0%					Pool/SPA, Temperature Control Measures Y/N	92.9%	14		
Pool Cover	206				0.0%	12.0%					Pool/SPA, Pool Cover in Use Y/N	10.5%	19		
Liquid Pool Cover	207														
<b>Building Envelope</b>															
Integrated Building Design	301														
Energy Efficient Windows	302	100.0%	100.0%	100.0%	87.0%	85.0%	90.0%	75.0%	100.0%	87.0%	Building Envelope, Windows/Fenestration, Layers of Glazing	96.3%	81		
Interior Storm Windows (Low-e or double clear film)	303														
Cool Roofing (White Coatings)	304	25.0%	33.0%	33.0%	11.0%	8.0%	18.0%	67.0%	30.0%	6.0%	Building Envelope, Roof/Ceiling, Roof Color, Light/Medium/Dark	18.2%	88		
<b>Ventilation</b>															
Dual Enthalpy Economizer - from Fixed Damper	321		0.0%	50.0%	0.0%	56.0%	20.0%	62.5%	0.0%	29.0%	29.0%	Facility Heating and Cooling, Ventilation System Types, OA economizer in use	35.4%	79	
Dual Enthalpy Economizer - from Dry Bulb	322														

## Commercial Electric Model - Saturation Factors from Site Surveys

Commercial - Saturation		Saturation is defined as the percentage of installed appliances that already incorporate the listed measure <u>not</u> the percentage of facilities that utilize the electric end use. <b>ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>												
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N	Comment
Demand-Controlled Ventilation (CO2 vent control)	323													
Heat Recovery	324	0.0%	0.0%	0.0%	7.0%	33.0%	25.0%	0.0%	27.0%	0.0%	Facility Heating and Cooling, Ventilation System, Heat Recovery Y/N	12.7%	63	
Fan Motor, 40hp, 1800rpm, 94.1%	325													
Fan Motor, 15hp, 1800rpm, 92.4%	326													
Fan Motor, 5hp, 1800rpm, 89.5%	327													
Variable Speed Drive Control, 15 HP	328													
Variable Speed Drive Control, 5 HP	329													
Variable Speed Drive Control, 40 HP	330													
Static Pressure Reset on Fans	331													
Underfloor Air distribution	332													
Cold air distribution (reduce fan HP)	333													
Variable Pitch Fans	334													
Electronically-Commutated Permanent Magnet Motors (ECPMs)	335													
Improved Duct Sealing	336													
<b>Space Cooling - Chillers</b>														
Centrifugal Chiller, 0.51 kW/ton, 300 tons	341													
Centrifugal Chiller, 0.51 kW/ton, 500 tons	342													
Centrifugal Chiller, Optimal Design, 0.4 kW/ton, 500 tons	343													
Chiller Tune Up/Diagnostics - 300 ton	344													
Variable Refrigerant Volume/Flow	345													
Dedicated Outdoor Air System	346													
Chiller Tune Up/Diagnostics - 500 ton	347													
<b>HVAC Controls</b>														
Retrocommissioning	361													
Programmable Thermostat	362													
EMS install	363	0.0%	33.0%	33.0%	44.0%	8.0%	18.0%	25.0%	79.0%	48.0%	General Building Information, Q10, Do you have an EMS at this facility Y/N	38.3%	94	
EMS Optimization	364													
System/Component Diagnostics	365													
LEED Enhanced Commissioning	366													
Hotel Guest Room Occupancy Control System	367													
<b>Space Cooling - Unitary &amp; Split AC</b>														
HVAC Advanced Tune-Up	381													
High Efficiency AC - Unitary and Split Systems (Tier 2)	382													
High Efficiency AC - Unitary & Split AC Systems (Tier 3)	383													
Ductless (mini split)	384													
Comprehensive Track Proper HVAC Sizing	385													
Improved Duct Sealing	386													
Radiant Ceiling Cooling	387													
Dedicated Outdoor Air System	388													
Ground Source Heat Pump - Cooling	389													
<b>Cooking</b>														
HE Steamer	401													
HE Combination Oven	402													
HE Holding Cabinet	403													
HE Fryer - Electric	404													
Demand Ventilation Control	405		0.0%	33.0%	0.0%	25.0%	29.0%	25.0%	31.0%	33.0%	Cooking/Food Service Equipment, Demand Control Exhaust Hood	26.8%	11	
Induction Cooktops	406													

## Commercial Electric Model - Saturation Factors from Site Surveys

Commercial - Saturation		Saturation is defined as the percentage of installed appliances that already incorporate the listed measure <u>not</u> the percentage of facilities that utilize the electric end use. <b>ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>												
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N	Comment
<b>Lighting</b>														
Lamp & Ballast Retrofit (HP T8 Replacing T12)	501	79.0%	64.0%	99.0%	80.0%	51.0%	50.0%	41.0%	97.0%	88.0%	Lighting Tables	65.7%	43607	
Lamp & Ballast Retrofit (HP T8 Replacing Standard T8)	502													
High Efficiency Fluorescent Fixtures (HP T8 Troffer Replacing T12)	503													
High Efficiency Fluorescent Fixtures (Low Glare Troffer HPT8/T5 Replacing T12)	504													
High Intensity Fluorescent Fixtures (replacing HID) Hi & Low Bay	505													
Fluorescent Fixtures with Reflectors	506	59.4%	62.6%	20.6%	38.3%	16.6%	4.4%	98.4%	52.8%	35.7%	Lighting Tables	32.2%	33504	
CFL Fixture	507	65.0%	11.0%	4.0%	63.0%	68.0%	67.0%	43.0%	54.0%	59.0%	Lighting Tables	49.6%	8777	
Replace Exterior Quartz Halogen w/PSMH or HPS	508													
Replace Exterior Metal Halide w/PSMH	509	0.0%	0.0%		0.0%	0.0%			0.0%	0.0%	Lighting Tables, PSMH vs MH	0.0%	318	
LED Exit Sign	510	83.0%	0.0%	0.0%	57.0%	79.0%	62.5%	100.0%	100.0%	67.0%	Lighting Tables	77.5%	374	
LEC Exit Sign	511													
LED Traffic / Pedestrian Signals	512													
HID Fixture - Pulse Start Metal Halide (Interior)	513	0.0%	0.0%		20.0%	0.0%	0.0%		5.0%	6.0%	Lighting Tables	5.5%	1469	
Specialty Fixtures - Halogen Infra-Red Bulb	514													
Specialty Fixtures - Integrated Ballast 25W MH	515													
Specialty Fixtures - Induction Fluorescent 23W	516													
Specialty Fixtures - Metal Halide Track	517													
Cold Cathode Screw In	518													
LED Screw In	519													
CFL Screw-in	520	65.0%	11.0%	4.0%	63.0%	68.0%	67.0%	43.0%	54.0%	59.0%	Lighting Tables	49.6%	8777	
LED Christmas type - decorative lighting	521													
<b>Lighting Controls</b>														
Controls for HID - Hi/Lo	551													
Controls for HIF- Remote Mount Occupancy Sensor	552													
Remote Mounted Occupancy Sensor - Non HIF	553	8.0%	29.0%	1.0%	22.0%	5.0%	1.0%	28.0%	21.0%	40.0%	Lighting Tables, percent controlled by manual switch	16.6%	45275	
Switch Mounted Occupancy Sensor	554	8.0%	29.0%	1.0%	22.0%	5.0%	1.0%	28.0%	21.0%	40.0%	Lighting Tables, percent controlled by manual switch	16.6%	45275	
Daylight Controlled Dimming Ballast	555													
Daylight Dimming - New Construction	556													
5% More Efficient Lighting Design - Existing Construction	557													
10% More Efficient Lighting Design - Existing Construction	558													
15% More Efficient Design - New Construction	559													
Dimming controls (night glare & roads/areas not used often)	560													
30% More Efficient Design - New Construction	561													
<b>Refrigeration</b>														
Vending Miser for Soft Drink Vending Machines	601													
Vending Miser for Non-Refrigerated Machines	602													
Refrigerated Case Covers	603													



## Commercial Electric Model - Saturation Factors from Site Surveys

Commercial - Saturation														
Saturation is defined as the percentage of installed appliances that already incorporate the listed measure <u>not</u> the percentage of facilities that utilize the electric end use. <b>ONLY HIGHLIGHTED CELLS ARE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>														
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N	Comment
Refrigeration Economizer	604		0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		Remote Refrigeration Equipment, Condensers, Economizer Y/N	0.0%	37	
Commercial Reach-In Cooler	605													
Commercial Reach-In Freezer	606													
Commercial Ice-makers	607													
Evaporator Fan Motor Controls	608		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Remote Refrigeration, Condensers, Total Fan Horsepower, VSD fan? Y/N	0.0%	46	
H.E. Evaporative Fan Motors	609	0.0%	0.0%	56.0%	33.0%	0.0%	25.0%	0.0%	0.0%	0.0%	Remote Refrigeration, Condensers, Total Fan Horsepower, Motor Eff.	17.0%	47	
Zero-Energy Doors - Coolers	610													
Zero-Energy Doors - Freezers	611													
Door Heater Controls	612			0.0%		0.0%		0.0%	0.0%	100.0%	Remote Refrigeration, Display Cases, Anti-Sweat heater controls Y/N	8.3%	12	
Discuss Compressor	613	100.0%	0.0%	0.0%	45.0%	27.0%	0.0%		0.0%	0.0%	Remote Refrigeration Equipment, Compressors, High-eff. (discus or scroll) compressors Y/N	18.5%	54	
Scroll Compressor	614	100.0%	0.0%	0.0%	45.0%	27.0%	0.0%		0.0%	0.0%	Remote Refrigeration Equipment, Compressors, High-eff. (discus or scroll) compressors Y/N	18.5%	54	
Floating Head Pressure Control	615		100.0%	50.0%	0.0%	20.0%	0.0%	0.0%	0.0%	100.0%	Remote Refrigeration Equipment, Compressors, Floating Head Pressure Control Y/N	20.0%	40	
ECM Motors	616													
Air Curtains (replacing electric door heaters)	617													
High efficiency designs for large refrigeration freezer system	618		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	70.0%	0.0%	Remote Refrigeration Equipment, Compressors, Heat Recovery Type	14.3%	49	
LED lighting retrofits in refrigeration end-uses/display cases	619		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.0%	0.0%	Remote Refrigeration Equipment, Display Cases, Case Lighting AND Walk-Ins/Prep Areas, Space Lighting	2.1%	97	
<b>Compressed Air</b>														
Compressed Air – Non-Controls	701	0.0%		0.0%	0.0%	0.0%	33.0%	0.0%	0.0%	22.0%	Compressed Air, Does the facility have a Leak Reduction Maintenance Program Y/N	16.0%	25	
Compressed Air – Controls	702	50.0%	0.0%	0.0%	43.0%	18.0%	33.0%	0.0%	0.0%	43.0%	Compressed Air, Control Type, Start/Stop vs. others	30.8%	52	
<b>Transformers</b>														
Energy Efficient Transformers	716													
<b>Space Heating</b>														
High Efficiency Heat Pump	741													
Water Source Heat Pump	742	0.0%		0.0%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	Facility Heating and Cooling, Main He	1.6%	257	
Ground Source Heat Pump	743													
<b>Non-HVAC Motors</b>														
Efficient Motors	781	3.0%	0.0%	0.0%	19.0%	0.0%	3.0%	0.0%	11.0%	23.0%	Motors, Nom. Eff. Standard vs. High	8.7%	990	
Variable Frequency Drives (VFD)	782	0.0%	0.0%	0.0%	27.0%	14.0%	1.0%		0.0%	10.0%	Motors, Control Type	7.5%	1396	

## Commercial Non-Electric Model - Remaining Factor Derivations from Site Surveys

Commercial - Remaining Factors	Remaining Factors are calculated as (1-saturation factor)												
Measure Name													
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N	
<b>Water Heating</b>													
High Efficiency Clothes Washer	100												
Natural gas Clothes Dryer	101												
High Efficiency Water Heater>=62%	102												
On Demand Water Heater	103	100%	100%	100%	96%	100%	100%	80%	100%	99%	98%	277	
Pipe Insulation	104	33%	100%	100%	91%	22%	52%	100%	36%	26%	50%	228	
Tank Insulation	105	100%	100%	100%	92%	97%	79%	100%	34%	100%	85%	265	
Low Flow Shower Heads	106												
Low Flow Pre-Rinse Spray Nozzle	107												
Faucet Aerator	108												
Modulate Water Temp	109												
Circulation Pump Time clocks	110												
Mainline Air vent	111												
Thermostatic vents	112												
Indirect Fired Water Heating Systems	113	83%	78%	100%	92%	29%	68%	100%	72%	31%	58%	233	
Indirect Fired Water Heating Systems MF	114												
Ozone Commercial Laundry System (Electric HW)	115												
Solar Water Heating System	116	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
<b>Pools</b>													
High Efficiency Spa/Hot Tub Heater	200												
High Efficiency (95%) Gas Pool Water Heater	201												
Temperature control	202				100%	8%					7%	14	
Pool Cover	203				100%	88%					89%	19	
Solar Pool Heater	204				100%	100%					100%	11	
<b>Building Envelope</b>													
Integrated Building Design (30% > code)	300												
Energy Efficient Windows	301	0%	0%	0%	13%	15%	10%	25%	0%	13%	4%	81	
Energy Efficient Windows	301_MF												
Interior Storm Windows (Low-e or double clear film)	302												
Loading dock Seals	303												
Air curtains	304												
Exterior Door Insulation (New, Replacement, Retrofit)	305												
Exhaust hood makeup air (expand with direct fired make-up systems)	306												
Demand-Controlled Ventilation (CO2 vent control)	307												
Insulated Overhead Doors	308												
Reflective rollout radiant barriers	309												
Integration of Passive Solar heating, cooling & ventilation	310												
Roof Insulation (only when re-roofing)	311	100%	60%	100%	68%	29%	69%	50%	56%	63%	59%	69	
Wall Insulation	312	100%	50%	100%	78%	56%	33%	50%	19%	70%	55%	55	
Roof Insulation (only when re-roofing)	311_MF												

## Commercial Non-Electric Model - Remaining Factor Derivations from Site Surveys

Commercial - Remaining Factors	Remaining Factors are calculated as (1-saturation factor)												
Measure Name													
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N	
Wall Insulation - MF	312_MF												
<b>Space heating</b>													
Efficient Furnace Fan (Non-Electric Furnace)	400												
Gas-Fired Absorption Heat Pump (for hot water & chilled water)	401												
Energy and Heat Recovery Ventilators (ERV/HRV)	402	100%	100%	100%	93%	67%	75%	100%	73%	100%	87%	63	
ECM or Modulating air handler & HW pump (e.g. www.ecologix.ca)	403	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Infrared Heater	404		92%	92%	92%	92%	92%	92%	92%	92%	92%	12	
High Efficiency Furnace (AFUE>=92%)	405		65%	65%	65%	65%	65%	65%	65%	65%	65%	17	
High Efficiency Hot Water Boiler(AFUE>=85%)	406		67%	67%	67%	67%	67%	67%	67%	67%	67%	6	
High Efficiency Steam Boiler	407												
Condensing Boiler	408												
Boiler- Heating Pipe Insulation	409												
Boiler Tune-Up	410												
Stack Heat Exchanger	411												
Heat Recovery from Air to Air	412												
Boiler Reset Controls	413												
Boiler O2 Trim Controls	414												
Boiler blowdown heat exchanger (steam)	415												
Repair malfunctioning steam traps	416												
Steam trap maintenance	417												
Insulate steam lines/condensate tank	418												
Filter replacement	419												
Destratification Fans	420												
Improved Duct Sealing	421												
CHP	422												
ECM - 92% (packaged with a high efficiency furnace)	423												
HE COMBO w/SHW w/radiant heat, new or retrofit	424												
District energy - HE fossil fuel fired	425												
Hot water temperature reset control	426												
Energy and Heat Recovery Ventilators (ERV/HRV)	427												
Liquid Dessicant Air Conditioners	428												
Refrigeration waste heat recovery	429												
<b>Space Cooling</b>													
Gas-fired absorption air conditioner	500												
Micro Channel Heat Exchangers (new units only)	501												
<b>Ventilation</b>													
Linkage less combustion controls	600												
Heat Recovery	601												

## Commercial Non-Electric Model - Remaining Factor Derivations from Site Surveys

Commercial - Remaining Factors	Remaining Factors are calculated as (1-saturation factor)												
Measure Name													
	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Total	N	
Enthalpy/Energy Recovery Heat Exchangers for Ventilation	602	100%	100%	100%	93%	67%	75%	100%	73%	100%	87%	63	
Improved Duct Sealing (also for heating & cooling)	603												
Dedicated Outdoor Air Systems (DOAS) (reduces	604												
Displacement Ventilation (new construction only)	605												
<b>HVAC Control</b>													
Retrocommissioning	700												
Commissioning	701												
Programmable Thermostat	702												
EMS install	703	100%	67%	67%	56%	92%	82%	75%	21%	52%	62%	94	
EMS Optimization	704												
Adaptive & Fuzzy Logic Control	705												
System/Component Diagnostics	706												
<b>Cooking</b>													
High Efficiency Gas Griddle	800												
High Efficiency Gas Combination Oven													
High Efficiency Gas Convection Oven	801												
High Efficiency Gas Conveyer Oven	802												
High Efficiency Gas Rack Oven													
High Efficiency Gas Broiler													
Infrared Fryer	803												
Power Burner Oven	804		100%	100%		90%	100%		100%		97%	67	
Power Burner Fryer	805												
DHW Demand management - best practices	806												
Energy Star Fryer	807												
Demand Ventilation Control	808		100%	67%	100%	75%	71%	75%	69%	67%	73%	11	
High Efficiency Gas Steamer	809												
<b>Process Heat - Other</b>													
Process Heat Recovery	900												
Performance Optimization	901												
Waste Water Heat Recovery	902												
Infrared Ovens	903												
Replace thermo oxidizers	904												

## Commercial Non-Electric Model - Saturation Factor Derivations from Site Surveys

<b>Saturation is defined as the percentage of installed appliances that already incorporate the listed measure, not the percentage of facilities that utilize the electric end use. ONLY HIGHLIGHTED CELLS WERE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>													
Commercial - Saturation													
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N
<b>Water Heating</b>													
High Efficiency Clothes Washer	100												
Natural gas Clothes Dryer	101												
High Efficiency Water Heater>=62%	102												
On Demand Water Heater	103	0.0%	0.0%	0.0%	3.6%	0.0%	0.0%	20.0%	0.0%	1.3%	Water Heating, DHW Generation and Storage Equipment, Instantaneous	1.8%	277
Pipe Insulation	104	66.7%	0.0%	0.0%	9.1%	78.1%	48.1%	0.0%	63.6%	73.6%	Water Heating, Is Loop Insulated Y/N	50.0%	228
Tank Insulation	105	0.0%	0.0%	0.0%	7.8%	2.9%	20.8%	0.0%	66.0%	0.0%	Water Heating, Extra Tank Wrap? Y/N	15.5%	265
Low Flow Shower Heads	106												
Low Flow Pre-Rinse Spray Nozzle	107												
Faucet Aerator	108												
Modulate Water Temp	109												
Circulation Pump Time clocks	110												
Mainline Air vent	111												
Thermostatic vents	112												
Indirect Fired Water Heating Systems	113	16.7%	22.2%	0.0%	7.9%	70.6%	31.6%	0.0%	27.9%	69.4%	Water Heating, DHW Generation and Storage Equipment, Integrated Storage compared to stand alone system	42.1%	233
Indirect Fired Water Heating Systems MF	114												
Ozone Commercial Laundry System (Electric HW)	115												
Solar Water Heating System	116	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Water Heating, DHW Generation and Storage Equipment	0.0%	
<b>Pools</b>													
High Efficiency Spa/Hot Tub Heater	200												
High Efficiency (95%) Gas Pool Water Heater	201												
Temperature control	202				0.0%	92.0%					Pool/SPA, Temperature Control Measures Y/N	92.9%	14
Pool Cover	203				0.0%	12.0%					Pool/SPA, Pool Cover in Use Y/N	10.5%	19
Solar Pool Heater	204				0.0%	0.0%					Pool/SPA, Solar Collector in Use (ft^2)	0.0%	11
<b>Building Envelope</b>													
Integrated Building Design (30% > code)	300												
Energy Efficient Windows	301	100.0%	100.0%	100.0%	87.0%	85.0%	90.0%	75.0%	100.0%	87.0%	Building Envelope, Windows/Fenestration, Layers of Glazing	96.3%	81
Energy Efficient Windows	301_MF												
Interior Storm Windows (Low-e or double clear film)	302												
Loading dock Seals	303												
Air curtains	304												
Exterior Door Insulation (New, Replacement, Retrofit)	305												
Exhaust hood makeup air (expand with direct fired make-up systems)	306												
Demand-Controlled Ventilation (CO2 vent control)	307												
Insulated Overhead Doors	308												
Reflective rollout radiant barriers	309												
Integration of Passive Solar heating, cooling & ventilation	310												

## Commercial Non-Electric Model - Saturation Factor Derivations from Site Surveys

<b>Saturation is defined as the percentage of installed appliances that already incorporate the listed measure, not the percentage of facilities that utilize the electric end use. ONLY HIGHLIGHTED CELLS WERE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>													
Commercial - Saturation													
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N
Roof Insulation (only when re-roofing)	311	0.0%	40.0%	0.0%	32.1%	70.8%	31.2%	50.0%	44.5%	36.7%	Building Envelope, Exterior Walls, Insulation R Value, insulation values less than R-15	40.6%	69
Wall Insulation	312	0.0%	50.0%	0.0%	22.2%	44.4%	66.7%	50.0%	81.2%	30.0%	Building Envelope, Roof/Ceiling, Roof Insulation R value, insulation values less than R-20	44.6%	55
Roof Insulation (only when re-roofing)	311_MF												
Wall Insulation - MF	312_MF												
<b>Space heating</b>													
Efficient Furnace Fan (Non-Electric Furnace)	400												
Gas-Fired Absorption Heat Pump (for hot water & chilled water)	401												
Energy and Heat Recovery Ventilators (ERV/HRV)	402	0.0%	0.0%	0.0%	7.0%	33.0%	25.0%	0.0%	27.0%	0.0%	Facility Heating and Cooling, Ventilation System, Heat Recovery Y/N	12.7%	63
ECM or Modulating air handler & HW pump (e.g. www.ecologix.ca)	403	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Facility Heating and Cooling Continued, Central Heating Equipment, Rated Eff., no IR heaters found in commercial sites	0.0%	
Infrared Heater	404		8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	Facility Heating and Cooling Continued, Central Heating Equipment, Rated Eff., all building types combined	8.0%	12
High Efficiency Furnace (AFUE>=92%)	405		35.3%	35.3%	35.3%	35.3%	35.3%	35.3%	35.3%	35.3%	Facility Heating and Cooling Continued, Central Heating Equipment, Rated Eff., all building types combined	35.0%	17
High Efficiency Hot Water Boiler (AFUE>=85%)	406		33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	Facility Heating and Cooling Continued, Central Heating Equipment, Rated Eff.	33.0%	6
High Efficiency Steam Boiler	407												
Condensing Boiler	408												
Boiler- Heating Pipe Insulation	409												
Boiler Tune-Up	410												
Stack Heat Exchanger	411												
Heat Recovery from Air to Air	412												
Boiler Reset Controls	413												
Boiler O2 Trim Controls	414												
Boiler blowdown heat exchanger (steam)	415												
Repair malfunctioning steam traps	416												
Steam trap maintenance	417												
Insulate steam lines/condensate tank	418												
Filter replacement	419												
Destratification Fans	420												
Improved Duct Sealing	421												
CHP	422												
ECM - 92% (packaged with a high efficiency furnace)	423												
HE COMBO w/SHW w/radiant heat, new or retrofit	424												
District energy - HE fossil fuel fired	425												
Hot water temperature reset control	426												
Energy and Heat Recovery Ventilators (ERV/HRV)	427												
Liquid Desiccant Air Conditioners	428												
Refrigeration waste heat recovery	429												
<b>Space Cooling</b>													
Gas-fired absorption air conditioner	500												

## Commercial Non-Electric Model - Saturation Factor Derivations from Site Surveys

<b>Saturation is defined as the percentage of installed appliances that already incorporate the listed measure, not the percentage of facilities that utilize the electric end use. ONLY HIGHLIGHTED CELLS WERE STATISTICALLY SIGNIFICANT AND USED IN THE MODEL</b>													
Commercial - Saturation													
Measure Name	Measure #	Warehouse	Retail	Grocery	Office	Lodging	Health	Restaurant	Education	Other	Corresponding Measure in Site Survey	Total	N
Micro Channel Heat Exchangers (new units only)	501												
<b>Ventilation</b>													
Linkage less combustion controls	600												
Heat Recovery	601												
Enthalpy/Energy Recovery Heat Exchangers for Ventilation	602	0.0%	0.0%	0.0%	7.0%	33.0%	25.0%	0.0%	27.0%	0.0%	Facility Heating and Cooling, Ventilation System, Heat Recovery Y/N	12.7%	63
Improved Duct Sealing (also for heating & cooling)	603												
Dedicated Outdoor Air Systems (DOAS) (reduces both AC & htg)	604												
Displacement Ventilation (new construction only)	605												
<b>HVAC Control</b>													
Retrocommissioning	700												
Commissioning	701												
Programmable Thermostat	702												
EMS install	703	0.0%	33.0%	33.0%	44.0%	8.0%	18.0%	25.0%	79.0%	48.0%	General Building Information, Q10, Do you have an EMS at this facility Y/N	38.3%	94
EMS Optimization	704												
Adaptive & Fuzzy Logic Control	705												
System/Component Diagnostics	706												
<b>Cooking</b>													
High Efficiency Gas Griddle	800												
High Efficiency Gas Combination Oven													
High Efficiency Gas Convection Oven	801												
High Efficiency Gas Conveyer Oven	802												
High Efficiency Gas Rack Oven													
High Efficiency Gas Broiler													
Infrared Fryer	803												
Power Burner Oven	804		0.0%	0.0%		10.0%	0.0%		0.0%		Cooking/Food Service Equipment, Infrared Power Burner Oven, Convection Oven, Oven (only non-electric units)	3.0%	67
Power Burner Fryer	805												
DHW Demand management - best practices	806												11
Energy Star Fryer	807												
Demand Ventilation Control	808		0.0%	33.0%	0.0%	25.0%	29.0%	25.0%	31.0%	33.0%	Cooking/Food Service Equipment, Demand Control Exhaust Hood	26.8%	
High Efficiency Gas Steamer	809												
<b>Process Heat - Other</b>													
Process Heat Recovery	900												
Performance Optimization	901												
Waste Water Heat Recovery	902												
Infrared Ovens	903												
Replace thermo oxidizers	904												

# Large Commercial Electric Model - Site Survey Data Tables

## Large C&I Data from Site Surveys

### Energy Star Refrigerators

			ENERGYSTAR		Grand Total
Model Building Type	EQUIPCODE	Data	N	Y	
Education	1D	Sum of TOTAL_UNITS	5		5
		Percent	100.00%	0.00%	100.00%
Education Sum of TOTAL_UNITS			5		5
Education Percent			100.00%	0.00%	100.00%
Health	1D	Sum of TOTAL_UNITS	5	1	6
		Percent	83.33%	16.67%	100.00%
Health Sum of TOTAL_UNITS			5	1	6
Health Percent			83.33%	16.67%	100.00%
Lodging	1D	Sum of TOTAL_UNITS	4		4
		Percent	100.00%	0.00%	100.00%
Lodging Sum of TOTAL_UNITS			4		4
Lodging Percent			100.00%	0.00%	100.00%
Office	1D	Sum of TOTAL_UNITS	4		4
		Percent	100.00%	0.00%	100.00%
Office Sum of TOTAL_UNITS			4		4
Office Percent			100.00%	0.00%	100.00%
Other	1D	Sum of TOTAL_UNITS	1		1
		Percent	100.00%	0.00%	100.00%
Other Sum of TOTAL_UNITS			1		1
Other Percent			100.00%	0.00%	100.00%
Total Sum of TOTAL_UNITS			19	1	20
Total Percent			95.00%	5.00%	100.00%

### Office Equipment

#### By Building Type

		ENERGYSTAR			Grand Total
Model Building Type	Data	N	Y		
Education	Sum of Est. # Units	196	135	331	
	Percent	59.21%	40.79%	100.00%	
Electronic and Other El	Sum of Est. # Units	476	699	1175	
	Percent	40.51%	59.49%	100.00%	
Fabricated Metals	Sum of Est. # Units	260	29	289	
	Percent	89.97%	10.03%	100.00%	
Grocery	Sum of Est. # Units		32	32	
	Percent	0.00%	100.00%	100.00%	
Health	Sum of Est. # Units	31	26	57	
	Percent	54.39%	45.61%	100.00%	
Lodging	Sum of Est. # Units	28		28	
	Percent	100.00%	0.00%	100.00%	
Lumber and Wood Prod	Sum of Est. # Units	355		355	
	Percent	100.00%	0.00%	100.00%	
Office	Sum of Est. # Units	45	257	302	
	Percent	14.90%	85.10%	100.00%	
Other	Sum of Est. # Units	177	13	190	
	Percent	93.16%	6.84%	100.00%	
Other Assembly / Light	Sum of Est. # Units	249	7	256	
	Percent	97.27%	2.73%	100.00%	
Paper and Allied Produ	Sum of Est. # Units		16	16	
	Percent	0.00%	100.00%	100.00%	
Printing, Publishing & A	Sum of Est. # Units	99		99	
	Percent	100.00%	0.00%	100.00%	
Restaurant	Sum of Est. # Units	93		93	
	Percent	100.00%	0.00%	100.00%	
Retail	Sum of Est. # Units	45		45	
	Percent	100.00%	0.00%	100.00%	
Rubber and misc. Plast	Sum of Est. # Units	61		61	
	Percent	100.00%	0.00%	100.00%	

### Commercial Dishwashers and Clothes Washers by HE vs. Standard

#### By Building Type

			HIGH_EFF			Grand Total
Model Building Type	EQUIP_CODE	Data	N	Y		
Education	L4	Sum of TOTAL_UNITS		2	2	
		Percentage		0.00%	100.00%	
Health	L4	Sum of TOTAL_UNITS	7		7	
		Percentage	100.00%	0.00%	100.00%	
Lodging	L4	Sum of TOTAL_UNITS	4	4	8	
		Percentage	50.00%	50.00%	100.00%	
Office	L4	Sum of TOTAL_UNITS	2		2	
		Percentage	100.00%	0.00%	100.00%	
Other	L4	Sum of TOTAL_UNITS	2		2	
		Percentage	100.00%	0.00%	100.00%	
Total Sum of TOTAL_UNITS			15	6	21	
Total Percentage			71.43%	28.57%	100.00%	



# Large Commercial Electric Model - Site Survey Data Tables

Warehouse	Sum of Est. # Units	172	139	311
	Percent	55.31%	44.69%	100.00%
Total Sum of Est. # Units		2287	1353	3640
Total Percent		62.83%	37.17%	100.00%

**Pool Cover** H=Hot Tub S= Swimming O=Other  
By Building Type

Model Building Type	TYPE	Data	POOLCOVER		Grand Total
			N	Y	
Lodging	H	Count of POOLCOVER percent	4 80.00%	1 20.00%	5 100.00%
	O	Count of POOLCOVER percent	1 100.00%	0 0.00%	1 100.00%
	S	Count of POOLCOVER percent	8 88.89%	1 11.11%	9 100.00%
	(blank)	Count of POOLCOVER percent	2 100.00%	0 0.00%	2 100.00%
	Lodging Count of POOLCOVER			15	2
Lodging percent			88.24%	11.76%	100.00%
Office	H	Count of POOLCOVER percent	1 100.00%	0 0.00%	1 100.00%
	S	Count of POOLCOVER percent	1 100.00%	0 0.00%	1 100.00%
Office Count of POOLCOVER			2	0	2
Office percent			100.00%	0.00%	100.00%
Total Count of POOLCOVER			17	2	19
Total percent			89.47%	10.53%	100.00%

**Solar Pool Heater** H=Hot Tub S= Swimming O=Other

Model Building Type	TYPE	SOLAR_COLL	
		N	Grand Total
Lodging	H	3	3
	S	3	6
Lodging Total		9	9
Office	H	1	1
	S	0	1
Office Total		2	2
Grand Total		11	11

**Window Glazing**  
By Building Type

Model Building Type	Data	Glazing			Grand Total
		Single	Double	Mix	
Education	Count of Glazing		12		12
	Percent	0.00%	100.00%	0.00%	100.00%
Grocery	Count of Glazing		3		3
	Percent	0.00%	100.00%	0.00%	100.00%
Health	Count of Glazing	1	9		10
	Percent	10.00%	90.00%	0.00%	100.00%
Lodging	Count of Glazing		11	2	13
	Percent	0.00%	84.62%	15.38%	100.00%
Office	Count of Glazing	1	13	1	15
	Percent	6.67%	86.67%	6.67%	100.00%
Other	Count of Glazing	1	13	1	15
	Percent	6.67%	86.67%	6.67%	100.00%
Restaurant	Count of Glazing		3	1	4
	Percent	0.00%	75.00%	25.00%	100.00%
Retail	Count of Glazing		5		5
	Percent		100.00%		100.00%

**Temperature Control** H=Hot Tub S= Swimming O=Other

Model Building Type	TYPE	Data	TEMP_CONTR		Grand Total
			N	Y	
Lodging	H	Count of TEMP_CONTR Percent	3 0.00%	0 100.00%	3 100.00%
	O	Count of TEMP_CONTR Percent	1 0.00%	0 100.00%	1 100.00%
	S	Count of TEMP_CONTR Percent	1 16.67%	5 83.33%	6 100.00%
	(blank)	Count of TEMP_CONTR Percent	2 0.00%	0 100.00%	2 100.00%
	Lodging Count of TEMP_CONTR			1	11
Lodging Percent			8.33%	91.67%	100.00%
Office	H	Count of TEMP_CONTR Percent	1 0.00%	0 100.00%	1 100.00%
	S	Count of TEMP_CONTR Percent	1 0.00%	0 100.00%	1 100.00%
Office Count of TEMP_CONTR			2	0	2
Office Percent			0.00%	100.00%	100.00%
Total Count of TEMP_CONTR			1	13	14
Total Percent			7.14%	92.86%	100.00%

## Large Commercial Electric Model - Site Survey Data Tables

Retail	Percent	0.00%	100.00%	0.00%	100.00%
Warehouse	Count of Glazing	4			
	Percent	0.00%	100.00%	0.00%	100.00%
Total Count of Glazing		3	73	5	81
Total Percent		3.70%	90.12%	6.17%	100.00%

### Roof Color

Model Building Type	Data	Roof Color				Grand Total
		Light	Medium	Dark	Combination	
Education	Count of Roof Color	4	2	6	1	13
	Percent	30.77%	15.38%	46.15%	7.69%	100.00%
Grocery	Count of Roof Color	1		2		3
	Percent	33.33%	0.00%	66.67%	0.00%	100.00%
Health	Count of Roof Color	2	2	6	1	11
	Percent	18.18%	18.18%	54.55%	9.09%	100.00%
Lodging	Count of Roof Color	1	1	9	1	12
	Percent	8.33%	8.33%	75.00%	8.33%	100.00%
Office	Count of Roof Color	2	9	6	1	18
	Percent	11.11%	50.00%	33.33%	5.56%	100.00%
Other	Count of Roof Color	1	8	7	2	18
	Percent	5.56%	44.44%	38.89%	11.11%	100.00%
Restaurant	Count of Roof Color	2		1		3
	Percent	66.67%	0.00%	33.33%	0.00%	100.00%
Retail	Count of Roof Color	2	2	2		6
	Percent	33.33%	33.33%	33.33%	0.00%	100.00%
Warehouse	Count of Roof Color	1	1	2		4
	Percent	25.00%	25.00%	50.00%	0.00%	100.00%
Total Count of Roof Color		16	25	41	6	88
Total Percent		18.18%	28.41%	46.59%	6.82%	100.00%

### Ventilation - Heat Recovery

	Count With Heat Recovery	Total Count	Percent with Heat Recovery
Education	3	11	27.27%
Grocery	0	1	0.00%
Health	2	8	25.00%
Lodging	2	6	33.33%
Office	1	14	7.14%
Other	0	16	0.00%
Restaurant	0	3	0.00%
Retail	0	1	0.00%
Warehouse	0	3	0.00%

N 63

### Ventilation - Economizer

	Count With OA Economizer	Total Count	Percent with OA Economizer
Education	4	14	28.57%
Grocery	0	2	0.00%
Health	5	8	62.50%
Lodging	2	10	20.00%
Office	10	18	55.56%
Other	5	17	29.41%
Restaurant	0	3	0.00%
Retail	2	4	50.00%
Warehouse	0	3	0.00%

N 79

### EMS at facility?

By Building Type

Model Building Type	Data	Q10_EMS		Grand Total
		N	Y	
Education	Count of Q10_EMS	3	11	14
	Percent	21.43%	78.57%	100.00%
Grocery	Count of Q10_EMS	2	1	3
	Percent	66.67%	33.33%	100.00%
Health	Count of Q10_EMS	9	2	11
	Percent	81.82%	18.18%	100.00%
Lodging	Count of Q10_EMS	12	1	13
	Percent	92.31%	7.69%	100.00%
Office	Count of Q10_EMS	10	8	18
	Percent	55.56%	44.44%	100.00%

### Demand Controlled Exhaust

	Total	Number With DCE	Percent With DCE
Education	13	4	31%
Grocery	3	1	33%
Health	7	2	29%
Lodging	8	2	25%
Office	2		0%
Other	3	1	33%
Restaurant	4	1	25%
Retail	1		0%
<b>Total</b>	<b>41</b>	<b>11</b>	<b>27%</b>

## Large Commercial Electric Model - Site Survey Data Tables

Other	Count of Q10_EMS	11	10	21
	Percent	52.38%	47.62%	100.00%
Restaurant	Count of Q10_EMS	3	1	4
	Percent	75.00%	25.00%	100.00%
Retail	Count of Q10_EMS	4	2	6
	Percent	66.67%	33.33%	100.00%
Warehouse	Count of Q10_EMS	4		4
	Percent	100.00%	0.00%	100.00%
Total Count of Q10_EMS		58	36	94
Total Percent		61.70%	38.30%	100.00%

### Ovens

Sum of TOT_NONE		EQUIP_CODE				
Model Building Type	CO	IO	OV		Grand Total	
Education		3			25	28
Grocery		2			1	3
Health		3			11	14
Lodging		2	2		16	20
Office						
Other		0			0	0
Restaurant		0			0	0
Retail		2				2
Grand Total		12	2		53	67

### T8 and T12 Lamp Saturations

By Building Type

Model Building Type	Data	LAMPTYPE		Grand Total
		T12	T8	
Education	Number of Fixtures	170	5,340	5,510
	Percent of Total	3.09%	96.91%	100.00%
Grocery	Number of Fixtures	5	850	855
	Percent of Total	0.58%	99.42%	100.00%
Health	Number of Fixtures	10,896	10,727	21,623
	Percent of Total	50.39%	49.61%	100.00%
Lodging	Number of Fixtures	793	838	1,631
	Percent of Total	48.62%	51.38%	100.00%
Office	Number of Fixtures	1,436	5,804	7,240
	Percent of Total	19.83%	80.17%	100.00%
Other	Number of Fixtures	277	2,092	2,369
	Percent of Total	11.69%	88.31%	100.00%
Restaurant	Number of Fixtures	145	100	245
	Percent of Total	59.18%	40.82%	100.00%
Retail	Number of Fixtures	887	1,559	2,446
	Percent of Total	36.26%	63.74%	100.00%
Warehouse	Number of Fixtures	359	1,329	1,688
	Percent of Total	21.27%	78.73%	100.00%
Total Number of Fixtures		14,968	28,639	43,607
Total Percent of Total		34.32%	65.68%	100.00%

### Reflectors

Model Building Type	Data	REFLECTOR		FIXTURETYP				W Total	(blank)	(blank) Tot	Grand Total
		S	S Total	SW	SW Total	W	W Total				
		FT		FT		F	FL				
Education	Sum of COUNT	274	274					2755		2711	5740
	percent	4.77%	4.77%	0.00%	0.00%	0.00%	0.00%	48.00%	0.00%	47.23%	100.00%
Grocery	Sum of COUNT	342	342							1321	1663
	percent	20.57%	20.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	79.43%	100.00%
Health	Sum of COUNT	39	39					394	3	9405	9841
	percent	0.40%	0.40%	0.00%	0.00%	0.00%	0.00%	4.00%	0.03%	95.57%	100.00%
Lodging	Sum of COUNT	86	86					198		1423	1707
	percent	5.04%	5.04%	0.00%	0.00%	0.00%	0.00%	11.60%	0.00%	83.36%	100.00%

## Large Commercial Electric Model - Site Survey Data Tables

Building Type	Sum of COUNT	percent	465	465	0.00%	0.00%	0.00%	0.00%	2138	2138	4184	4184	61.65%	6787
Office	Sum of COUNT	percent	465	465	0.00%	0.00%	0.00%	0.00%	2138	2138	4184	4184	61.65%	6787
Other	Sum of COUNT	percent	126	126	0.00%	0.00%	0.00%	0.00%	933	933	1907	1907	64.30%	2966
Restaurant	Sum of COUNT	percent	18	18	7.35%	7.35%	24.90%	17.55%	61	43	119	223	4	245
Retail	Sum of COUNT	percent	102	102	0.00%	0.00%	0.00%	0.00%	1440	1440	921	921	37.39%	2463
Warehouse	Sum of COUNT	percent	641	641	0.00%	0.00%	0.00%	0.00%	601	601	850	850	40.63%	2092
<b>Total Sum of COUNT</b>			<b>2075</b>	<b>2075</b>	<b>18</b>	<b>18</b>	<b>61</b>	<b>43</b>	<b>8578</b>	<b>3</b>	<b>8685</b>	<b>22726</b>	<b>0</b>	<b>33504</b>
<b>Total percent</b>			<b>6.19%</b>	<b>6.19%</b>	<b>0.05%</b>	<b>0.05%</b>	<b>0.18%</b>	<b>0.13%</b>	<b>25.60%</b>	<b>0.01%</b>	<b>25.92%</b>	<b>67.83%</b>	<b>0.00%</b>	<b>100.00%</b>

### CFL and Incandescent Saturations

By Building Type

Model Building Type	Data	LAMPTYPE			Grand Total
		CFL	Incandescent	Grand Total	
Education	Number of Fixtures	269	225	494	
	Percent of Total	54.45%	45.55%	100.00%	
Grocery	Number of Fixtures	6	163	169	
	Percent of Total	3.55%	96.45%	100.00%	
Health	Number of Fixtures	460	227	687	
	Percent of Total	66.96%	33.04%	100.00%	
Lodging	Number of Fixtures	2,002	960	2,962	
	Percent of Total	67.59%	32.41%	100.00%	
Office	Number of Fixtures	643	371	1,014	
	Percent of Total	63.41%	36.59%	100.00%	
Other	Number of Fixtures	521	367	888	
	Percent of Total	58.67%	41.33%	100.00%	
Restaurant	Number of Fixtures	160	216	376	
	Percent of Total	42.55%	57.45%	100.00%	
Retail	Number of Fixtures	231	1,858	2,089	
	Percent of Total	11.06%	88.94%	100.00%	
Warehouse	Number of Fixtures	64	34	98	
	Percent of Total	65.31%	34.69%	100.00%	
<b>Total Number of Fixtures</b>		<b>4,356</b>	<b>4,421</b>	<b>8,777</b>	
<b>Total Percent of Total</b>		<b>49.63%</b>	<b>50.37%</b>	<b>100.00%</b>	

### Exit Sign Saturations

By Building Type

Model Building Type	Data	FIXTURETYP			EX Total	Grand Total
		CFL	LED	Incandescent		
Education	Number of Fixtures		97		97	
	Percent of Total	0.00%	100.00%	0.00%	100.00%	
Health	Number of Fixtures		10	6	16	
	Percent of Total	0.00%	62.50%	37.50%	100.00%	
Lodging	Number of Fixtures		67	18	85	
	Percent of Total	0.00%	78.82%	21.18%	100.00%	
Office	Number of Fixtures	16	21		37	
	Percent of Total	43.24%	56.76%	0.00%	100.00%	
Other	Number of Fixtures	11	53	15	79	
	Percent of Total	13.92%	67.09%	18.99%	100.00%	
Restaurant	Number of Fixtures		4		4	
	Percent of Total	0.00%	100.00%	0.00%	100.00%	
Retail	Number of Fixtures			10	10	
	Percent of Total	0.00%	0.00%	100.00%	100.00%	
Warehouse	Number of Fixtures	8	38		46	
	Percent of Total	17.39%	82.61%	0.00%	100.00%	
<b>Total Number of Fixtures</b>		<b>35</b>	<b>290</b>	<b>49</b>	<b>374</b>	
<b>Total Percent of Total</b>		<b>9.36%</b>	<b>77.54%</b>	<b>13.10%</b>	<b>100.00%</b>	

### Exterior Halogen, PSMH, SMH Saturations

By Building Type

Model Building	LOCATION	Data	LAMPTYPE	
			SMH	Grand Total
Education	EXTERIOR	Number of	6	6
		Percent of	100.00%	100.00%
Education	Number of Fixtures		6	6
	Percent of Total		100.00%	100.00%
Lodging	EXT	Number of	6	6
		Percent of	100.00%	100.00%
	EXTERIOR	Number of	13	13
		Percent of	100.00%	100.00%
	PARKING	Number of	3	3
		Percent of	100.00%	100.00%
	TENNIS	Number of	20	20
		Percent of	100.00%	100.00%
Lodging	Number of Fixtures		42	42
	Percent of Total		100.00%	100.00%
Office	EXTERIOR	Number of	100	100
		Percent of	100.00%	100.00%
Office	Number of Fixtures		100	100
	Percent of Total		100.00%	100.00%
Other	BATTING C	Number of	8	8
		Percent of	100.00%	100.00%
	EXTERIOR	Number of	8	8
		Percent of	100.00%	100.00%
	FAÇADE	Number of	17	17
		Percent of	100.00%	100.00%
	PARKING L	Number of	115	115
		Percent of	100.00%	100.00%
Other	Number of Fixtures		148	148
	Percent of Total		100.00%	100.00%
Retail	EXTERIOR	Number of	15	15
		Percent of	100.00%	100.00%
Retail	Number of Fixtures		15	15
	Percent of Total		100.00%	100.00%
Warehouse	EXTERIOR	Number of	7	7
		Percent of	100.00%	100.00%
Warehouse	Number of Fixtures		7	7
	Percent of Total		100.00%	100.00%
<b>Total Number of Fixtures</b>			<b>318</b>	<b>318</b>
<b>Total Percent of Total</b>			<b>100.00%</b>	<b>100.00%</b>

# Large Commercial Electric Model - Site Survey Data Tables

### Interior Metal Halides

	SMH EXT	SMH Total	SMH INT	PSMH	Remaining Factor
Education	6	88	82	4	95.35%
Health		42	42	0	100.00%
Lodging	42	268	226	0	100.00%
Office	100	245	145	37	79.67%
Other	148	751	603	40	93.78%
Retail	15	287	272	0	100.00%
Warehouse	7	25	18	0	100.00%

### Remote Refrigeration

#### High Efficiency Compressors

Model Building Type	Data	HIGH_EFF		Grand Total
		N	Y	
Education	Count of HIGH_EFF Percent	10 100.00%	0 0.00%	10 100.00%
Grocery	Count of HIGH_EFF Percent	6 100.00%	0 0.00%	6 100.00%
Health	Count of HIGH_EFF Percent	6 100.00%	0 0.00%	6 100.00%
Lodging	Count of HIGH_EFF Percent	11 73.33%	4 26.67%	15 100.00%
Office	Count of HIGH_EFF Percent	6 54.55%	5 45.45%	11 100.00%
Other	Count of HIGH_EFF Percent	2 100.00%	0 0.00%	2 100.00%
Retail	Count of HIGH_EFF Percent	3 100.00%	0 0.00%	3 100.00%
Warehouse	Count of HIGH_EFF Percent	1 0.00%	0 100.00%	1 100.00%
Total Count of HIGH_EFF		44	10	54
Total Percent		81.48%	18.52%	100.00%

### Floating Head Pressure Control

Model Building Type	Data	FLOAT_HEAD		Grand Total
		N	Y	
Education	Count of FLOAT_percent	5 100.00%	0 0.00%	5 100.00%
Grocery	Count of FLOAT_percent	1 50.00%	1 50.00%	2 100.00%
Health	Count of FLOAT_percent	4 100.00%	0 0.00%	4 100.00%
Lodging	Count of FLOAT_percent	12 80.00%	3 20.00%	15 100.00%
Office	Count of FLOAT_percent	8 100.00%	0 0.00%	8 100.00%
Other	Count of FLOAT_HEAD_percent	1 0.00%	0 100.00%	1 100.00%
Restaurant	Count of FLOAT_percent	2 100.00%	0 0.00%	2 100.00%
Retail	Count of FLOAT_HEAD_percent	3 0.00%	0 100.00%	3 100.00%
Total Count of FLOAT_HEAD		32	8	40
Total percent		80.00%	20.00%	100.00%

### High Efficiency Lighting

Count of CASELIGHT					Count of SPACE_L						
Model Building Type	8X16	F	N	(blank)	Grand Total	Model Building Type	F	HPS	I	L	Grand Total
Education		1	2	1	4	Education		2		7	11
Grocery			2		2	Grocery		10	2	4	16
Health						Health		6		8	14
Lodging			2	1	3	Lodging		1		15	16
Office						Office		1		1	2
Other						Other		7		1	8
Restaurant			1	2	3	Restaurant		3		6	9
Retail			4		4	Retail		4		1	5
Warehouse						Warehouse					
Grand Total					16	Grand Total					81

### Economizer?

Model Building Type	ECONOMIZER	Grand Total
Education	2	2
Grocery	11	11
Health	7	7
Lodging	12	12
Office	2	2

TOTAL LED	TOTAL cases	Percent
2	15	13.33%
0	18	0.00%
0	14	0.00%
0	19	0.00%
0	2	0.00%
0	8	0.00%
0	12	0.00%
0	9	0.00%

## Large Commercial Electric Model - Site Survey Data Tables

Other			0	0	0.00%
Restaurant					
Retail	3				
Warehouse					
Grand Total	37				

### Heater Controls

Model Building Type	Count of ANTI_SWEAT			Grand Total
	ANTI_SWEAT	(blank)		
Education	3			3
Grocery	3			3
Health				
Lodging	2			2
Office				
Other		1		1
Restaurant	3			3
Retail				
Warehouse				
Grand Total	11	1		12

### Fan Motor Eff.

Model Building Type	Count of MOTOR_EFF			Grand Total
	MOTOR_EFF			
Education			7	7
Grocery	5		4	9
Health	1		3	4
Lodging			14	14
Office	2		4	6
Other			2	2
Restaurant			2	2
Retail			2	2
Warehouse			1	1
Grand Total	8		39	47

### Fan motor controls

Model Building Type	Count of VSD			Grand Total
	VSD_FAN	(blank)		
Education	7			7
Grocery	6			6
Health	7			7
Lodging	14			14
Office	6			6
Other	2			2
Restaurant	2			2
Retail	2			2
Warehouse				
Grand Total	46			46

### Heat Recovery

Model Building Type	Count of HEAT_RECOV			
	HEAT_RECOV			Grand Total
Education	3		2	5
Grocery	6			6
Health	6			6
Lodging	11			11
Office	9			9
Other	2			2
Restaurant	2			2
Retail	3			3
Grand Total	42	2	5	49

Count of Model Building Type	
Model Building Type	Total
Education	33
Grocery	7
Health	39
Lodging	42
Office	35
Other	52
Restaurant	12
Retail	7
Warehouse	30
Grand Total	257

### Heat Pumps

## Large Commercial Electric Model - Site Survey Data Tables

Count of HEATSYSTEM					
Model Building Type	DRHP	ELEC HP	HEAT PUMP HP (WATER HYD HP	PTHP	Grand Total
Education					1
Health		1			1
Lodging			1		1
Office				1	1
Restaurant		2		3	5
Grand Total	2	1	1	3	10

### Motors-Efficiency By Building Type

Model Building Type	Data	Efficiency			Grand Total
		S	H	P	
Education	Sum of NO_UNITS	32	4		36
	Percent	88.89%	11.11%	0.00%	100.00%
Grocery	Sum of NO_UNITS	2			2
	Percent	100.00%	0.00%	0.00%	100.00%
Health	Sum of NO_UNITS	366	4	7	377
	Percent	97.08%	1.06%	1.86%	100.00%
Lodging	Sum of NO_UNITS	186			186
	Percent	100.00%	0.00%	0.00%	100.00%
Office	Sum of NO_UNITS	55	10	3	68
	Percent	80.88%	14.71%	4.41%	100.00%
Other	Sum of NO_UNITS	178	43	13	234
	Percent	76.07%	18.38%	5.56%	100.00%
Restaurant	Sum of NO_UNITS	7			7
	Percent	100.00%	0.00%	0.00%	100.00%
Retail	Sum of NO_UNITS	11			11
	Percent	100.00%	0.00%	0.00%	100.00%
Warehouse	Sum of NO_UNITS	67	2		69
	Percent	97.10%	2.90%	0.00%	100.00%
Total Sum of NO_UNITS		904	63	23	990
Total Percent		91.31%	6.36%	2.32%	100.00%

### Motors-Control Type By Building Type

Model Building Type	Data	Control				Grand Total
		Constant Speed	Electronic VS	Mechanical \	Throttled	
Education	Sum of NO_UNITS	165			2	167
	percent	98.80%	0.00%	0.00%	1.20%	100.00%
Grocery	Sum of NO_UNITS	2				2
	percent	100.00%	0.00%	0.00%	0.00%	100.00%
Health	Sum of NO_UNITS	380	2	2		384
	percent	98.96%	0.52%	0.52%	0.00%	100.00%
Lodging	Sum of NO_UNITS	179	2	26		207
	percent	86.47%	0.97%	12.56%	0.00%	100.00%
Office	Sum of NO_UNITS	71	25		1	97
	percent	73.20%	25.77%	0.00%	1.03%	100.00%
Other	Sum of NO_UNITS	406	23	22	1	452
	percent	89.82%	5.09%	4.87%	0.22%	100.00%
Retail	Sum of NO_UNITS	11				11
	percent	100.00%	0.00%	0.00%	0.00%	100.00%
Warehouse	Sum of NO_UNITS	73				73
	percent	100.00%	0.00%	0.00%	0.00%	100.00%
Total Sum of NO_UNITS		1287	52	50	4	1393
Total percent		92.39%	3.73%	3.59%	0.29%	100.00%

### Motors-VFD vs. Not VFD By Building Type

Model Building	Data	Control V		Grand Total
		Other	VFD	
Education	Sum of NO_UNITS	167	3	170
	Percent	98.24%	1.76%	100.00%
Grocery	Sum of NO_UNITS	2		2
	Percent	100.00%	0.00%	100.00%
Health	Sum of NO_UNITS	380	4	384
	Percent	98.96%	1.04%	100.00%
Lodging	Sum of NO_UNITS	179	28	207
	Percent	86.47%	13.53%	100.00%
Office	Sum of NO_UNITS	72	25	97
	Percent	74.23%	25.77%	100.00%
Other	Sum of NO_UNITS	407	45	452
	Percent	90.04%	9.96%	100.00%
Retail	Sum of NO_UNITS	11		11
	Percent	100.00%	0.00%	100.00%
Warehouse	Sum of NO_UNITS	73		73
	Percent	100.00%	0.00%	100.00%
Total Sum of NO_UNITS		1291	105	1396
Total Percent		92.48%	7.52%	100.00%

## Commercial Non-Electric Model - Data Tables from Site Surveys

### Large C&I Data from Site Surveys

#### Water Heaters By Type

By Building Type

		DHW_GENERA									
Model Building Type	Data	INSTANT	INT STOR	HWB	INT NO STOR	POU	SAS	STEAM BC	STM HX	Grand Total	
Education	Sum of COUNT2		12		1	5	1	31		3	53
	Percent	0.00%	22.64%	1.89%	9.43%	1.89%	58.49%	0.00%	5.66%	100.00%	
Grocery	Sum of COUNT2							4			4
	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
Health	Sum of COUNT2		6		5	1	1	13		1	27
	Percent	0.00%	22.22%	18.52%	3.70%	3.70%	48.15%	0.00%	3.70%	100.00%	
Lodging	Sum of COUNT2		24		2			10			36
	Percent	0.00%	66.67%	5.56%	0.00%	0.00%	27.78%	0.00%	0.00%	100.00%	
Office	Sum of COUNT2		2		3	2	1	12		35	56
	Percent	3.57%	5.36%	3.57%	1.79%	21.43%	62.50%	1.79%	0.00%	100.00%	
Other	Sum of COUNT2		1		50	2		22			75
	Percent	1.33%	66.67%	2.67%	0.00%	0.00%	29.33%	0.00%	0.00%	100.00%	
Restaurant	Sum of COUNT2		2					8			10
	Percent	20.00%	0.00%	0.00%	0.00%	0.00%	80.00%	0.00%	0.00%	100.00%	
Retail	Sum of COUNT2				2			7			9
	Percent	0.00%	22.22%	0.00%	0.00%	0.00%	77.78%	0.00%	0.00%	100.00%	
Warehouse	Sum of COUNT2				1			5		1	7
	Percent	0.00%	14.29%	0.00%	0.00%	0.00%	71.43%	0.00%	14.29%	100.00%	
Total Sum of COUNT2			5	98	12	7	14	135	1	5	277
Total Percent			1.81%	35.38%	4.33%	2.53%	5.05%	48.74%	0.36%	1.81%	100.00%

#### Water Heater Tank Wrap by Type

		EXTANKWRP			
Model Building Type	Data	N	Y	Grand Total	
Education	Sum of COUNT		16	31	47
	Percentage		34.04%	65.96%	100.00%
Grocery	Sum of COUNT		6		6
	Percentage		100.00%	0.00%	100.00%
Health	Sum of COUNT		19	5	24
	Percentage		79.17%	20.83%	100.00%
Lodging	Sum of COUNT		34	1	35
	Percentage		97.14%	2.86%	100.00%
Office	Sum of COUNT		47	4	51
	Percentage		92.16%	7.84%	100.00%
Other	Sum of COUNT		79		79

#### Loop insulation

		LOOP_INSUL			
Model Building	Data	N	Y	Grand Total	
Education	Sum of CO		8	14	22
	percent		36.36%	63.64%	100.00%
Grocery	Sum of CO		6		6
	percent		100.00%	0.00%	100.00%
Health	Sum of CO		14	13	27
	percent		51.85%	48.15%	100.00%
Lodging	Sum of CO		7	25	32
	percent		21.88%	78.13%	100.00%
Office	Sum of CO		50	5	55
	percent		90.91%	9.09%	100.00%
Other	Sum of CO		19	53	72



## Commercial Non-Electric Model - Data Tables from Site Surveys

Other	Percentage	100.00%	0.00%	100.00%
Restaurant	Sum of COUNT	8		8
	Percentage	100.00%	0.00%	100.00%
Retail	Sum of COUNT	9		9
	Percentage	100.00%	0.00%	100.00%
Warehouse	Sum of COUNT	6		6
	Percentage	100.00%	0.00%	100.00%
Total Sum of COUNT		224	41	265
Total Percentage		84.53%	15.47%	100.00%

Other	percent	26.39%	73.61%	100.00%
Restaurant	Sum of CO	6		6
	percent	100.00%	0.00%	100.00%
Retail	Sum of CO	2		2
	percent	100.00%	0.00%	100.00%
Warehouse	Sum of CO	2	4	6
	percent	33.33%	66.67%	100.00%
Total Sum of COUNT		114	114	228
Total percent		50.00%	50.00%	100.00%

### Pool Cover By Building Type

H=Hot Tub      S= Swimming O=Other

			POOLCOVER		
Model Building Type	TYPE	Data	N	Y	Grand Total
Lodging	H	Count of POOLCO	4	1	5
		percent	80.00%	20.00%	100.00%
	O	Count of POOLCO	1		1
		percent	100.00%	0.00%	100.00%
	S	Count of POOLCO	8	1	9
		percent	88.89%	11.11%	100.00%
	(blank)	Count of POOLCO	2		2
		percent	100.00%	0.00%	100.00%
Lodging Count of POOLCOVER			15	2	17
Lodging percent			88.24%	11.76%	100.00%
Office	H	Count of POOLCO	1		1
		percent	100.00%	0.00%	100.00%
	S	Count of POOLCO	1		1
		percent	100.00%	0.00%	100.00%
Office Count of POOLCOVER			2		2
Office percent			100.00%	0.00%	100.00%
Total Count of POOLCOVER			17	2	19
Total percent			89.47%	10.53%	100.00%

### Solar Pool Heater      H=Hot Tub S= Swimm O=Other

		Count of SOLAR_COLL	SOLAR_COLL
Model Build	TYPE	N	Grand Total
Lodging	H	3	3
	S	6	6
Lodging Total		9	9
Office	H	1	1
	S	1	1
Office Total		2	2
Grand Total		11	11

### Temperature Control

H=Hot Tub      S= Swimming O=Other

			TEMP_CONTR		
Model Building Type	TYPE	Data	N	Y	Grand Total
Lodging	H	Count of TEMP_CONTR		3	3
		Percent	0.00%	100.00%	100.00%
	O	Count of TEMP_CONTR	1		1
		Percent	0.00%	100.00%	100.00%
	S	Count of TEMP_C	1	5	6

Commercial Non-Electric Model - Data Tables from Site Surveys

Lodging	S	Percent	16.67%	83.33%	100.00%
	(blank)	Count of TEMP_CONTR			2
		Percent	0.00%	100.00%	100.00%
Lodging Count of TEMP_CONTR			1	11	12
Lodging Percent			8.33%	91.67%	100.00%
Office	H	Count of TEMP_CONTR			1
		Percent	0.00%	100.00%	100.00%
	S	Count of TEMP_CONTR			1
		Percent	0.00%	100.00%	100.00%
Office Count of TEMP_CONTR					2
Office Percent			0.00%	100.00%	100.00%
Total Count of TEMP_CONTR			1	13	14
Total Percent			7.14%	92.86%	100.00%

**Window Glazing**

By Building Type

Model Building Type	Data	Glazing			Grand Total
		Single	Double	Mix	
Education	Count of Glazing	12			12
	Percent	0.00%	100.00%	0.00%	100.00%
Grocery	Count of Glazing	3			3
	Percent	0.00%	100.00%	0.00%	100.00%
Health	Count of Glazing	1	9		10
	Percent	10.00%	90.00%	0.00%	100.00%
Lodging	Count of Glazing	11	2		13
	Percent	0.00%	84.62%	15.38%	100.00%
Office	Count of Glazing	1	13	1	15
	Percent	6.67%	86.67%	6.67%	100.00%
Other	Count of Glazing	1	13	1	15
	Percent	6.67%	86.67%	6.67%	100.00%
Restaurant	Count of Glazing		3	1	4
	Percent	0.00%	75.00%	25.00%	100.00%
Retail	Count of Glazing	5			5
	Percent	0.00%	100.00%	0.00%	100.00%
Warehouse	Count of Glazing	4			4
	Percent	0.00%	100.00%	0.00%	100.00%

## Commercial Non-Electric Model - Data Tables from Site Surveys

Total Count of Glazing	3	73	5	81
Total Percent	3.70%	90.12%	6.17%	100.00%

### Wall Insulation

Count of Wall Insulation	Wall Insulation			Grand Total	
	Model Building Type	Less Than 15	Mix		15 or Better
Education		5		4	9
Grocery		1			1
Health		5		1	2
Lodging		3		1	8
Office		9		1	4
Other		9		1	5
Restaurant		1			1
Retail		3			2
Warehouse		3			3
Grand Total		39		4	26

Remaining Factor	55.56%
	100.00%
	68.75%
	29.17%
	67.86%
	63.33%
	50.00%
	60.00%
	100.00%
	59.42%

### Roof Insulation

Count of Roof Insulation	Roof Insulation			Grand Total	
	Model Building Type	Less than 20	Mix		20 or better
Education		1		1	6
Grocery		1			1
Health		3			6
Lodging		5			4
Office		7			2
Other		7			3
Restaurant		1			1
Retail		2			2
Warehouse		3			3
Grand Total		30		1	24

Remaining Factor	18.75%
	100.00%
	33.33%
	55.56%
	77.78%
	70.00%
	50.00%
	50.00%
	100.00%
	55.45%

### Ventilation - Heat Recovery

	Count With Heat Recovery	Total Count	Percent with Heat Recovery
Education	3	11	27.27%
Grocery	0	1	0.00%
Health	2	8	25.00%
Lodging	2	6	33.33%
Office	1	14	7.14%
Other	0	16	0.00%
Restaurant	0	3	0.00%
Retail	0	1	0.00%



Commercial Non-Electric Model - Data Tables from Site Surveys

Education	Count of Q10_EMS	3	11	14
	Percent	21.43%	78.57%	100.00%
Grocery	Count of Q10_EMS	2	1	3
	Percent	66.67%	33.33%	100.00%
Health	Count of Q10_EMS	9	2	11
	Percent	81.82%	18.18%	100.00%
Lodging	Count of Q10_EMS	12	1	13
	Percent	92.31%	7.69%	100.00%
Office	Count of Q10_EMS	10	8	18
	Percent	55.56%	44.44%	100.00%
Other	Count of Q10_EMS	11	10	21
	Percent	52.38%	47.62%	100.00%
Restaurant	Count of Q10_EMS	3	1	4
	Percent	75.00%	25.00%	100.00%
Retail	Count of Q10_EMS	4	2	6
	Percent	66.67%	33.33%	100.00%
Warehouse	Count of Q10_EMS	4		4
	Percent	100.00%	0.00%	100.00%
Total Count of Q10_EMS		58	36	94
Total Percent		61.70%	38.30%	100.00%

Health	7	2	29%
Lodging	8	2	25%
Office	2		0%
Other	3	1	33%
Restaurant	4	1	25%
Retail	1		0%
Total	41	11	27%

Ovens

Sum of TOT_NONELE	EQUIP_CODE			
Model Building Type	CO	IO	OV	Grand Total
Education		3		25
Grocery		2		1
Health		3		11
Lodging		2	2	16
Office				
Other		0		0
Restaurant		0		0
Retail		2		2
Grand Total		12	2	53