

**Ameren Illinois Company's
Response to NRDC Data Requests
Docket No. 13-0498
Approval of the Energy Efficiency and Demand-Response Plan Pursuant to
220 ILCS 5/8-103 and 220 ILCS 5/8-104
Data Request Response Date: 10/4/2013**

NRDC 2.01

Regarding banking of savings, for each of the past and current Program Years (PY1 through PY6):

- a. What was the savings goal?
- b. How much verified savings was achieved (for PY5 and any other year for which verification has not been completed, just provide the best current estimate; for PY6 provide the best forecast)?
- c. What has been the volume of banked savings carried forward to count toward compliance with the next year's savings target?
- d. If banked savings were lower than the amount by which the goals in a given year were exceeded, please explain why.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager IL Energy Efficiency
Phone Number: 309-677-5708**

Please note that this data request references banked savings, which only applies to electric savings. As such, AIC responds in regards to electric savings only.

- a. As approved per final order or compliance filing¹:
(MWH)
PY1: 62,808
PY2: 126,373
PY3: 190,853
PY4: 273,534
PY5: 245,871
PY6: 216,495
- b. The achievement of savings goals are subject to the conclusion of Illinois Commerce Commission annual savings dockets. Savings dockets have not yet been concluded for PY3-6. However, in the absence of final orders, the following are verified savings per EMV final reports, which are subject to review by the Illinois Commerce Commission for PY3-4:

(MWH)
PY1: 89,955
PY2: 129,748
PY3: 263,576

¹ Reflects AIC targets, exclusive of DCEO targets.

PY4: 352,204

EMV has not provided verified savings results for PY5-PY6. Estimates for PY5-PY6 are unverified and the amounts are volatile in nature due to the lack of conclusions and recommendations provided by the IL stakeholder group for the application of the IL NTG Framework. Therefore, estimated savings cannot be determined or provided. However, AIC provided the following estimate of savings for PY5 in its filed quarterly activity report, which was derived by assuming AIC's tentative interpretation of the IL NTG Framework (AIC considers this to be particularly uncertain and subject to revision as stated):

PY5: 326,393 MWH

Due to the volatile nature of, and uncertainty related to, interpreting the IL NTG Framework, AIC cannot provide a meaningful estimate of savings for PY6, but notes that its PY6 estimated savings goal is 216,495 MWH.

- c. To date, the only volume of banked savings carried forward that has been approved by the Commission is as per the Y2 savings docket #10-0519:

"Ameren Illinois' combined MWH savings in excess of the statutory savings goal for PY 1 and PY 2 is 50,830 MWH and, for purposes of this docket, Ameren Illinois can bank 16,890 MWH of savings to be applied in future program years." (Final order, docket #10-0519)

- d. For Plan 1 and Plan 2, banked savings are always equal to or lower than the amount by which goals in a given year were exceeded. This is based on the limitations applied to amount of allowed banked savings, which limits were set forth in the Final Orders in 07-0539 (Plan 1) and 10-568 (Plan 2). Therefore, in order to bank the savings, the achieved savings must meet or exceed the bankable limit.

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NRDC 2.02

Regarding on-bill financing:

- a. Please summarize how the Company is currently using this tool?
- b. Please explain any constraints that the Company sees in using to increase participation and/or lower program costs?
- c. What are the Company's plans for using the tool to support its Plan 3 programs?

RESPONSE

Prepared By: Kenneth C. Woolcutt

Title: Managing Supervisor, Energy Efficiency

Phone Number: (309) 677-5001

- a. On bill financing (OBF) allows residential gas and electric utility customers to obtain loans for the purchase of cost-effective energy efficiency measures with no required upfront payment, and to pay the cost of those products and services over time on their utility bills. Ameren Illinois interprets "cost effective energy efficiency measures" as those which are included in Ameren Illinois' energy efficiency portfolio.
- b. At this time, the \$5M funding for OBF has been depleted, which has halted the intake of new loans.
- c. If additional OBF funding becomes available, AIC intends to utilize OBF in its current form to support Plan 3 programs.

**Ameren Illinois Company's
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Data Request Response Date: 10/8/2013**

ELPC 1.01

How did AIC determine which energy efficiency programs to submit to the IPA for their implementation?

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

AIC assumes this question pertains to the energy efficiency programs submitted to the IPA in 2013. As indicated per the Act, all programs were independently bid by implementers in an open bidding process. AIC did not determine what programs to submit to the IPA. AIC submitted all programs as they were bid.

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ELPC 1.29

Please provide an estimate of the number, type and technology of residential and non- residential lighting measures that are anticipated to be put in service in during the Plan 3 timeframe.

RESPONSE

**Prepared By: Andrew Cottrell
Title: Principal Consultant, Applied Energy Group, Inc.
Phone Number: 732-447-1358**

See ELPC 1.29 Attach which details the number, type, and technology of lighting measures in Plan 3.

| Market Segment | Program | Rate Class | Measure | TRM Section Number | Input Assumptions | TRM Section Heading | TRM Measure Code | Fuel | End Use | Baseline Description | Efficient Description | Measure Life | kWh Savings / yr / unit | kW Savings / yr/ unit | Thm Savings / yr / unit | Incremental Cost / unit (yr 1) | Incentive / unit (yr 1) | kWh Net-To-Gross | | | kW Net-To-Gross | | | Thm Net-To-Gross | | | Incremental Participants | | | Cost-Effectiveness Results | | | | | |
|----------------|-------------------------------------|------------|---|--------------------|-----------------------------|--|------------------------|------|----------|--|------------------------------|--------------|-------------------------|-----------------------|-------------------------|--------------------------------|-------------------------|------------------|------|------|-----------------|------|------|------------------|------|------|--------------------------|------|--------|---|-------------------------------------|--------------------------------|------|-------|------|
| | | | | | | | | | | | | | | | | | | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | Total Resource Cost B/C Ratio - Electricity | Total Resource Cost B/C Ratio - Gas | Total Resource B/C Ratio - All | | | |
| Business | Business Standard Incentive Program | DS2 | GE UltraMax Ballast 432-MAX/LL/ Ultra | 4.5.3 | List Price-\$24 | High Performance and Reduced Wattage T8 Fixtures and Lamps | CI-LTG-T8FX-V01-120601 | Elec | Lighting | ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 | Energy Efficient Lighting | 15 | 390.67 | 0.10 | -6.30 | \$24.00 | \$14.95 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 360 | 359 | 357 | 1.35 | N/A | 1.20 | |
| Business | Business Standard Incentive Program | DS2 | Glass Door LED Cooler/Freezer Lighting | 4.5.2 | 4.5.2Refrigerated case | LED Bulbs and Fixtures | CI-LTG-LEDB-V01-120601 | Elec | Lighting | refrigerated, freezer, or display case light | Energy Efficient Lighting | 15 | 889.32 | 0.11 | 0.00 | \$208.00 | \$41.34 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 124 | 170 | 227 | 9.82 | N/A | 9.82 |
| Business | Business Standard Incentive Program | DS2 | Glass Door LED cooler/Freezer Lighting Controls/Sensors | 4.5.5 | 4.5.5Wall-mounted | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Lighting system uncontrolled by occupancy | Energy Efficient Lighting | 8 | 100.21 | 0.04 | 0.00 | \$54.00 | \$15.60 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 2 | 3 | 3 | 0.64 | N/A | 0.64 | |
| Business | Business Standard Incentive Program | DS2 | Hard wired CFL fixtures replacing existing incandescent fixtures | 4.5.1 | 4.5.1Estimated fixture | Commercial Standard CFL | CI-LTG-CCFL-V01-120601 | Elec | Lighting | 100w (72w) Incandescent bulb | Compact Fluorescent Lighting | 2.2 | 339.35 | 0.09 | -3.79 | \$45.00 | \$23.92 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 50 | 114 | 142 | 3.29 | N/A | 2.94 |
| Business | Business Standard Incentive Program | DS2 | Harmony 20w Lightwiz Spiral(H200275) | 4.5.1 | 4.5.1 | Commercial Standard CFL | CI-LTG-CCFL-V01-120601 | Elec | Lighting | incandescent (from online store) | Energy Efficient Lighting | 2.2 | 119.57 | 0.03 | -1.93 | \$2.75 | \$2.28 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 65 | 64 | 64 | 4.75 | N/A | 4.01 | |
| Business | Business Standard Incentive Program | DS2 | Harmony Light 25w/MaxLite 25w | 4.5.1 | 4.5.1 | Commercial Standard CFL | CI-LTG-CCFL-V01-120601 | Elec | Lighting | incandescent (from online store) | Energy Efficient Lighting | 2.2 | 257.91 | 0.06 | -4.16 | \$2.25 | \$1.63 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 442 | 441 | 439 | 11.15 | N/A | 9.38 | |
| Business | Business Standard Incentive Program | DS2 | High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture) | 4.5.4 | 4.5.10 and 4.5.3T5 and T8 | T5 Fixtures and Lamps | CI-LTG-T5FX-V01-120601 | Elec | Lighting | Existing system | Energy Efficient Lighting | 15 | 544.22 | 0.09 | -6.55 | \$50.00 | \$11.90 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 4,986 | 5,114 | 5,682 | 5.96 | N/A | 5.36 | |
| Business | Business Standard Incentive Program | DS2 | Highbay Fixture Replacement Option | 4.5.3 | 4.5.3 Table: A-2: Retrofits | High Performance and Reduced Wattage T8 Fixtures and Lamps | CI-LTG-T8FX-V01-120601 | Elec | Lighting | 200w PSMH 250w metal halide 320w PSMH 400w metal halide | Energy Efficient Lighting | 15 | 1,450.95 | 0.25 | -15.76 | \$190.63 | \$83.92 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 7,176 | 7,386 | 7,955 | 3.96 | N/A | 3.60 |
| Business | Business Standard Incentive Program | DS2 | Hubbell Ivory Motion-Sensing Wall Switch 120/277 lws-ZP-3P-I | 4.5.5 | 4.5.9542 (uses SW TRM) | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Uncontrolled lighting system | Lighting Controls | 8 | 443.00 | 1.17 | -75.76 | \$42.00 | \$26.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 116 | 116 | 116 | 13.95 | N/A | 10.19 | |
| Business | Business Standard Incentive Program | DS2 | Hubbell White Wall Switch 120/277 1WS-ZP-3P-W | 4.5.5 | 4.5.9542 (uses SW TRM) | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Uncontrolled lighting system | Lighting Controls | 8 | 443.00 | 0.05 | -3.00 | \$42.00 | \$26.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 1 | 1 | 1 | 2.58 | N/A | 2.40 | |
| Business | Business Standard Incentive Program | DS2 | Interior LED Lamps and Fixtures | 4.5.4 | 4.5.4see SW TRM | T5 Fixtures and Lamps | CI-LTG-T5FX-V01-120601 | Elec | Lighting | TRM for all baseline types incandescent, baseline LED (all types), T8, PSMH | LED Lighting | 15 | 136.00 | 0.08 | -13.63 | \$40.00 | \$14.35 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 1,991 | 3,977 | 7,386 | 1.24 | N/A | 0.68 |
| Business | Business Standard Incentive Program | DS2 | LED Exit Sign Retro-fit Kit 6W or less | 4.5.5 | 4.5.5Fluorescent exit | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Incandescent exit sign | Energy Efficient Lighting | 16 | 380.56 | 0.10 | -34.71 | \$30.00 | \$13.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 0.88 | N/A | 0.32 | |
| Business | Business Standard Incentive Program | DS2 | LED lamp | 4.5.2 | 4.5.2Omnidirectional | LED Bulbs and Fixtures | CI-LTG-LEDB-V01-120601 | Elec | Lighting | Incandescent, 25-150 watts CFL | LED Lighting | 15 | 242.31 | 0.07 | -3.29 | \$35.83 | \$19.24 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 12,773 | 22,727 | 26,420 | 4.29 | N/A | 3.89 | |
| Business | Business Standard Incentive Program | DS2 | LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp | 4.5.2 | 4.5.2Omnidirectional | LED Bulbs and Fixtures | CI-LTG-LEDB-V01-120601 | Elec | Lighting | Incandescent, 25-150 watts | LED Lighting | 15 | 293.01 | 0.06 | -3.69 | \$35.83 | \$19.24 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 193 | 455 | 568 | 4.63 | N/A | 4.18 | |
| Business | Business Standard Incentive Program | DS2 | LED, T-1 or electroluminescent exit sign | 4.5.5 | 4.5.5Fluorescent exit | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Incandescent exit sign | Energy Efficient Lighting | 16 | 326.29 | 0.03 | -4.24 | \$30.00 | \$26.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 5,012 | 5,114 | 6,818 | 4.61 | N/A | 4.03 | |
| Business | Business Standard Incentive Program | DS2 | Low wattage occupancy sensors or daylight dimming controls | 4.5.5 | 4.5.9Wall-mounted | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Lighting system uncontrolled by occupancy | Lighting Controls | 8 | 176.00 | 0.00 | -0.04 | \$54.00 | \$6.50 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 352 | 381 | 398 | 0.57 | N/A | 0.57 | |

| Market Segment | Program | Rate Class | Measure | TRM Section Number | Input Assumptions | TRM Section Heading | TRM Measure Code | Fuel | End Use | Baseline Description | Efficient Description | Measure Life | kWh Savings / yr / unit | kW Savings / yr / unit | Thm Savings / yr / unit | Incremental Cost / unit (yr 1) | Incentive / unit (yr 1) | kWh Net-To-Gross | | | kW Net-To-Gross | | | Thm Net-To-Gross | | | Incremental Participants | | | Cost-Effectiveness Results | | | | |
|----------------|-------------------------------------|------------|---|--------------------|-----------------------------|---|------------------------|------|----------|--|---------------------------|--------------|-------------------------|------------------------|-------------------------|--------------------------------|-------------------------|------------------|------|------|-----------------|------|------|------------------|------|------|--------------------------|--------|--------|---|-------------------------------------|--------------------------------|-------|--------|
| | | | | | | | | | | | | | | | | | | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | Total Resource Cost B/C Ratio - Electricity | Total Resource Cost B/C Ratio - Gas | Total Resource B/C Ratio - All | | |
| Business | Business Standard Incentive Program | DS3 | Highbay Fixture Replacement Option | 4.5.3 | 4.5.3 Table: A-2: Retrofits | High Performance and Reduced Wattage T8 Fixtures and Ballasts | CI-LTG-T8FX-V01-120601 | Elec | Lighting | 200w PSMH 250w metal halide 320w PSMH 400w metal halide | Energy Efficient Lighting | 15 | 1,450.95 | 0.25 | -15.76 | \$190.63 | \$64.55 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 5,453 | 5,614 | 6,045 | 3.96 | N/A | 3.60 |
| Business | Business Standard Incentive Program | DS3 | Hubbell Ivory Motion-Sensing Wall Switch 120/277 lws-ZP-3P-I | 4.5.5 | 4.5.542 (uses SW TRM) | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Uncontrolled lighting system | Lighting Controls | 8 | 443.00 | 1.17 | -75.76 | \$42.00 | \$20.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 13.95 | N/A | 10.19 |
| Business | Business Standard Incentive Program | DS3 | Hubbell White Wall Switch 120/277 1WS-ZP-3P-W | 4.5.5 | 4.5.542 (uses SW TRM) | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Uncontrolled lighting system | Lighting Controls | 8 | 443.00 | 0.05 | -3.00 | \$42.00 | \$20.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 2.58 | N/A | 2.40 |
| Business | Business Standard Incentive Program | DS3 | Interior LED Lamps and Fixtures | 4.5.4 | 4.5.4see SW TRM | T5 Fixtures and Lamps | CI-LTG-T5FX-V01-120601 | Elec | Lighting | TRM for all baseline types Incandescent, baseline LED (all types), T8, PSMH | LED Lighting | 15 | 136.00 | 0.08 | -13.63 | \$40.00 | \$11.04 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 1,514 | 3,023 | 5,614 | 1.24 | N/A | 0.68 |
| Business | Business Standard Incentive Program | DS3 | LED Exit Sign Retro-fit Kit 6W or less | 4.5.5 | 4.5.5Fluorescent exit | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | LED Exit Sign | Energy Efficient Lighting | 16 | 380.56 | 0.10 | -34.71 | \$30.00 | \$10.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 0.88 | N/A | 0.32 | |
| Business | Business Standard Incentive Program | DS3 | LED Bulbs and LED lamp | 4.5.2 | 4.5.2Omnidirectional | LED Bulbs and CFL | CI-LTG-LEDB-V01-120601 | Elec | Lighting | Incandescent, 25-150 watts CFL | LED Lighting | 15 | 242.31 | 0.07 | -3.29 | \$35.83 | \$14.80 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 9,719 | 17,284 | 20,093 | 4.29 | N/A | 3.89 | |
| Business | Business Standard Incentive Program | DS3 | LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp | 4.5.2 | 4.5.2Omnidirectional | LED Bulbs and CFL | CI-LTG-LEDB-V01-120601 | Elec | Lighting | Incandescent, 25-150 watts | LED Lighting | 15 | 293.01 | 0.06 | -3.69 | \$35.83 | \$14.80 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 146 | 345 | 432 | 4.63 | N/A | 4.18 | |
| Business | Business Standard Incentive Program | DS3 | LED, T-1 or electroluminescent exit sign | 4.5.5 | 4.5.5Fluorescent exit | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Incandescent exit sign | Energy Efficient Lighting | 16 | 326.29 | 0.03 | -4.24 | \$30.00 | \$20.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 3,809 | 3,886 | 5,182 | 4.61 | N/A | 4.03 | |
| Business | Business Standard Incentive Program | DS3 | Low wattage occupancy sensors or daylight dimming controls | 4.5.5 | 4.5.9Wall-mounted | Occupancy Sensor Lighting Controls | CI-LTG-OSLC-V01-120601 | Elec | Lighting | Lighting system uncontrolled by occupancy | Lighting Controls | 8 | 176.00 | 0.00 | -0.04 | \$54.00 | \$5.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 267 | 289 | 302 | 0.57 | N/A | 0.57 |
| Business | Business Standard Incentive Program | DS3 | Maxlite 25w MicroMax MLM25SWW | 4.5.1 | 4.5.1 | Commercial Standard CFL | CI-LTG-CCFL-V01-120601 | Elec | Lighting | incandescent (from online store) | Energy Efficient Lighting | 2.2 | 177.68 | 0.04 | -2.87 | \$2.25 | \$1.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 8.07 | N/A | 6.78 | |
| Business | Business Standard Incentive Program | DS3 | New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture | 4.5.3 | 4.5.3 F34T12 w/ EEM | High Performance and Reduced Wattage T8 Fixtures and Lamps | CI-LTG-T8FX-V01-120601 | Elec | Lighting | ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 | Energy Efficient Lighting | 15 | 406.83 | 0.07 | -5.79 | \$57.50 | \$11.04 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 8,893 | 9,500 | 10,364 | 4.09 | N/A | 3.60 | |
| Business | Business Standard Incentive Program | DS3 | New T5 fluorescent replacing an existing T12 | 4.5.4 | 4.5.10A-2: Retrofit T5 | T5 Fixtures and Ballasts | CI-LTG-T5FX-V01-120601 | Elec | Lighting | Existing system | Energy Efficient Lighting | 15 | 819.34 | 0.15 | -12.50 | \$70.00 | \$12.77 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 2,953 | 3,023 | 3,455 | 8.52 | N/A | 7.47 | |
| Business | Business Standard Incentive Program | DS3 | New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts | 4.5.3 | 4.5.3F34T12 w/ EEM | High Performance and Reduced Wattage T8 Fixtures and Lamps | CI-LTG-T8FX-V01-120601 | Elec | Lighting | ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 | Energy Efficient Lighting | 15 | 313.95 | 0.06 | -4.59 | \$57.50 | \$11.10 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 3,811 | 4,102 | 4,318 | 3.19 | N/A | 2.81 |
| Business | Business Standard Incentive Program | DS3 | Permanent Fixture/Lamp Removal | 4.5.2 | 4.5.2SW TRM says \$12 | LED Bulbs and CFL | CI-LTG-LEDB-V01-120601 | Elec | Lighting | ActOnEnergy TRM: Any type of working existing fixture | Delamping | 11 | 624.25 | 0.11 | -7.36 | \$12.00 | \$3.08 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 546 | 864 | 1,080 | 144.10 | N/A | 129.69 |
| Business | Business Standard Incentive Program | DS3 | Philips 17w EnduraLED PAR38 | 4.5.2 | 4.5.2550 (uses SW TRM) | LED Bulbs and CFL | CI-LTG-LEDB-V01-120601 | Elec | Lighting | 65W incandescent (from online store) | Energy Efficient Lighting | 15 | 222.76 | 0.06 | -3.59 | \$50.00 | \$10.00 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0 | 0 | 0 | 3.00 | N/A | 2.67 | |
| Business | Business Standard Incentive Program | DS3 | Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts | 4.5.3 | 4.5.3F34T12 w/ EEM | High Performance and Reduced Wattage T8 Fixtures and Lamps | CI-LTG-T8FX-V01-120601 | Elec | Lighting | ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 | Energy Efficient Lighting | 15 | 298.86 | 0.51 | -4.34 | \$62.50 | \$14.42 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 15,242 | 15,977 | 17,273 | 11.75 | N/A | 11.40 | |

| Market Segment | Program | Rate Class | Measure | TRM Section Number | Input Assumptions | TRM Section Heading | TRM Measure Code | Fuel | End Use | Baseline Description | Efficient Description | Measure Life | kWh Savings / yr / unit | kW Savings / yr / unit | Thm Savings / yr / unit | Incremental Cost / unit (yr 1) | Incentive / unit (yr 1) | kWh Net-To-Gross | | | kW Net-To-Gross | | | Thm Net-To-Gross | | | Incremental Participants | | | Cost-Effectiveness Results | | | | |
|----------------|--------------------------------------|------------|---|--------------------|-------------------|--|------------------------|------|--------------|-----------------------|---------------------------|--------------|-------------------------|------------------------|-------------------------|--------------------------------|-------------------------|------------------|------|------|-----------------|------|------|------------------|------|------|--------------------------|--------|--------|---|-------------------------------------|--------------------------------|------|------|
| | | | | | | | | | | | | | | | | | | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | PY7 | PY8 | PY9 | Total Resource Cost B/C Ratio - Electricity | Total Resource Cost B/C Ratio - Gas | Total Resource B/C Ratio - All | | |
| Residential | Residential Home Energy Performance | DS1 | CFL 53w to 19w - Post-EISA | 5.5.1 | 5.5.1; 19W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 53W Halogen | CFL Bulbs | 5.2 | 30.68 | 0.00 | -0.65 | \$0.00 | \$0.00 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 2,730 | 2,730 | 2,730 | 3.29 | N/A | 2.93 |
| Residential | Residential Home Energy Performance | DS1 | CFL 60w to 14w candelabra - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | CFL Bulbs | 6.8 | 58.76 | 0.01 | -0.88 | \$0.00 | \$0.00 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 6,825 | 6,825 | 6,825 | 3.46 | N/A | 3.08 |
| Residential | Residential Home Energy Performance | DS1 | CFL 60w to 14w globe - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | CFL Bulbs | 6.8 | 54.87 | 0.01 | -0.88 | \$0.00 | \$0.00 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 6,825 | 6,825 | 6,825 | 3.32 | N/A | 2.94 | |
| Residential | Residential Home Energy Performance | DS1 | CFL 60w to 14w reflector - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | CFL Bulbs | 6.8 | 41.50 | 0.00 | -0.88 | \$0.00 | \$0.00 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 9,555 | 9,555 | 9,555 | 2.86 | N/A | 2.48 | |
| Residential | Residential Home Energy Performance | DS1 | CFL 72w to 23w - Post-EISA | 5.5.1 | 5.5.1; 23W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 72W Halogen | CFL Bulbs | 5.2 | 44.21 | 0.01 | -0.94 | \$0.00 | \$0.00 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 2,184 | 2,184 | 2,184 | 4.02 | N/A | 3.49 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 43w to 14w - Post-EISA | 5.5.1 | 5.5.1; 14W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 43W Halogen | Energy Efficient Lighting | 5.2 | 26.17 | 0.00 | -0.56 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1,170 | 1,170 | 1,170 | 3.24 | N/A | 2.89 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 53w to 19w - Post-EISA | 5.5.1 | 5.5.1; 19W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 53W Halogen | Energy Efficient Lighting | 5.2 | 30.68 | 0.00 | -0.65 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 585 | 585 | 585 | 3.52 | N/A | 3.10 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 60w to 14w candelabra - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | Energy Efficient Lighting | 6.8 | 58.76 | 0.01 | -0.88 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 975 | 975 | 975 | 3.80 | N/A | 3.36 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 60w to 14w globe - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | Energy Efficient Lighting | 6.8 | 54.87 | 0.01 | -0.88 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 975 | 975 | 975 | 3.64 | N/A | 3.20 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 60w to 14w reflector - Pre-EISA | 5.5.2 | 5.5.2; 14W CFL | ENERGY STAR Specialty Compact Fluorescent Lamp (CFL) | RS-LTG-ESCC-V01-120601 | Elec | Lighting | 60W Incandescent | Energy Efficient Lighting | 6.8 | 41.50 | 0.00 | -0.88 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1,365 | 1,365 | 1,365 | 3.10 | N/A | 2.67 | |
| Residential | Residential Moderate Income Retrofit | DS1 | CFL 72w to 23w - Post-EISA | 5.5.1 | 5.5.1; 23W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 72W Halogen | Energy Efficient Lighting | 5.2 | 44.21 | 0.01 | -0.94 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 488 | 488 | 488 | 4.34 | N/A | 3.74 | |
| Residential | Residential Multifamily | DS1 | In-Unit Integral CFL 43w to 14w - Post-EISA | 5.5.1 | 5.5.1; 14W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 43W Halogen | Energy Efficient Lighting | 5.2 | 27.41 | 0.00 | -0.56 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 57,120 | 57,120 | 57,120 | 3.28 | N/A | 2.92 | |
| Residential | Residential Multifamily | DS1 | In-Unit Integral CFL 53w to 19w - Post-EISA | 5.5.1 | 5.5.1; 19W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 53W Halogen | Energy Efficient Lighting | 5.2 | 32.14 | 0.00 | -0.65 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 49,980 | 49,980 | 49,980 | 3.55 | N/A | 3.13 | |
| Residential | Residential Multifamily | DS1 | In-Unit Integral CFL 72w to 23w - Post-EISA | 5.5.1 | 5.5.1; 23W CFL | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Lighting | 72W Halogen | Energy Efficient Lighting | 5.2 | 46.32 | 0.00 | -0.94 | \$0.00 | \$0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 214 | 214 | 214 | 4.40 | N/A | 3.80 | |
| Residential | Residential Lighting | DS1 | Standard CFL | 5.5.1 | IL TRM | ENERGY STAR Compact Fluorescent Lamp (CFL) | RS-LTG-ESCF-V01-120601 | Elec | Res Lighting | Standard halogen bulb | CFL Bulbs | 5 | 17.71 | 0.00 | -0.36 | \$2.50 | \$1.60 | 0.44 | 0.40 | 0.36 | 0.44 | 0.40 | 0.36 | 0.44 | 0.44 | 0.44 | 2,525,000 | ##### | ##### | 4.95 | N/A | 4.59 | | |

**Ameren Illinois Company's
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Data Request Response Date: 10/11/2013**

JLH 3.16

Please refer to the following statement found on page 57 of Ameren Ex. 1.1R when answering the questions below: "In the event free ridership or spillover is not included, then a value for neither factor is included in the NTG calculation thus retaining the NTG value as appropriately balanced."

- a) Please define "not included" as used in this statement. Please be specific and provide several hypothetical examples to explain the definition.
- b) If evaluators attempt to estimate both participant and non-participant spillover for an AIC program and no quantifiable spillover can be found based on the evaluation findings, would the quantified amount of free ridership be allowed to be included in the NTG calculation for the AIC program? Please describe in detail the manner in which NTG would be calculated in this situation under AIC's proposal.
- c) If evaluators attempt to estimate both participant and non-participant spillover for an AIC program and spillover is found to be zero percent based on the evaluation findings, would the quantified amount of free ridership be allowed to be included in the NTG calculation for the AIC program? Please describe in detail the manner in which NTG would be calculated in this situation under AIC's proposal?
- d) Please provide the estimated NTG ratios, including spillover and free ridership components, by program that AIC proposes to have deemed for PY7. Please describe in detail the basis for each of the recommended values for spillover and free-ridership. Please clearly identify programs that are missing Illinois evaluation estimated values for spillover. Please identify programs that are missing Illinois evaluation estimated values for free-ridership.
- e) If certain programs in response to (d) are proposed to have NTG ratios deemed at 1.0 for PY7 due to missing the spillover component of NTG, please provide AIC's adjusted savings goals (with supporting work papers) for PY7 consistent with AIC's proposal to "Align savings goals according to changes in values" described on page 21 of Ameren Ex. 1.1R.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

- a) The value is absent; if the evaluators are unable to provide a value for one of the factors.
- b) As stated on page 57 of Ameren Ex. 1.1R:

“AIC is formally requesting that the NTG calculation is completed appropriately whereby spillover (participant and non-participant, including customers and trade allies) is officially included in the NTG calculation as prescribed in the NTG formula whenever free ridership is included. In the event free ridership or spillover is not included, then a value for neither factor is included in the NTG calculation thus retaining the NTG value as appropriately balanced.”

Therefore if the evaluators assign a value to spillover (both participant and non-participant) then their estimate of free ridership can be included. AIC also notes that AIC stated the following also on page 57:

“As is accepted in standard EM&V methodology and has been utilized in IL EM&V activities, AIC also proposes that EM&V is allowed to either perform calculations based on AIC market activity for the NTG inputs, or provide estimates for the free ridership and spillover factors (participant and non-participant, including customers and trade allies) according to their expertise and experience in other jurisdictions for similar programs.”

- c) See response to subpart b) above.
- d) See response to JLH 3.15, subpart c).
- e) AIC objects to the use terms “certain” and “proposed” as vague and ambiguous and cannot determine how to apply this hypothetical and is unable to perform this analysis.

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CUB 2.01

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of savings each residential program contributes to the overall residential program MWH totals.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

Based on Ameren Ex 1.1 (2nd Rev.):

| Residential Program | Annual MWH Savings | | | | | |
|---------------------------|--------------------|--------|--------|-------------------|-------------------|-------------------|
| | PY7 | PY8 | PY9 | PY7% of RES Total | PY8% of RES Total | PY9% of RES total |
| RES-Appliance Recycling | 4,476 | 4,131 | 3,715 | 6.9% | 6.2% | 5.5% |
| RES-Behavior Modification | 21,688 | 21,688 | 21,688 | 33.5% | 32.6% | 32.2% |
| RES-ENERGY STAR New Homes | 791 | 791 | 791 | 1.2% | 1.2% | 1.2% |
| RES-HPwES | 5,114 | 5,114 | 5,114 | 7.9% | 7.7% | 7.6% |
| RES-HVAC | 5,672 | 5,672 | 5,672 | 8.8% | 8.5% | 8.4% |
| RES-Standard CFLs | 19,677 | 21,769 | 22,928 | 30.4% | 32.7% | 34.1% |
| RES-Moderate Income | 770 | 770 | 770 | 1.2% | 1.2% | 1.1% |
| RES-Multifamily In-Unit | 6,232 | 6,232 | 6,232 | 9.6% | 9.4% | 9.3% |
| RES-School Kits | 366 | 366 | 366 | 0.6% | 0.6% | 0.5% |

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Data Request Response Date: 10/15/2013**

CUB 2.02

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of savings each residential program contributes to the overall residential program therm totals.

RESPONSE

Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708

Per Ameren Ex. 1.1 (2nd Rev.):

| Residential Program | Annual Therm Savings | | | | | |
|------------------------------------|----------------------|------------------|------------------|-------------------------|-------------------------|-------------------------|
| | PY7 | PY8 | PY9 | PY7% of RES Total | PY8% of RES Total | PY9% of RES total |
| RES-Appliance Recycling | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| RES-Behavior Modification | 1,337,500 | 1,337,500 | 1,337,500 | 50.1% | 50.1% | 50.1% |
| RES-ENERGY STAR New Homes | 25,663 | 25,663 | 25,663 | 1.0% | 1.0% | 1.0% |
| RES-HPwES | 811,933 | 811,933 | 811,933 | 30.4% | 30.4% | 30.4% |
| RES-HVAC | 190,014 | 190,014 | 190,014 | 7.1% | 7.1% | 7.1% |
| RES-Standard CFLs | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| RES-Moderate Income | 135,091 | 135,091 | 135,091 | 5.1% | 5.1% | 5.1% |
| RES-Multifamily In-Unit | 118,961 | 118,961 | 118,961 | 4.5% | 4.5% | 4.5% |
| RES-School Kits | 48,298 | 48,298 | 48,298 | 1.8% | 1.8% | 1.8% |
| RESIDENTIAL PORTFOLIO TOTAL | 2,667,461 | 2,667,461 | 2,667,461 | 100.0% | 100.0% | 100.0% |

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CUB 2.03

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of savings each business program contributes to the overall business program MWH totals.

RESPONSE

Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708

Per Ameren Ex. 1.1 (2nd Rev.):

| Business Program | Annual MWH Savings | | | | | |
|---|--------------------|----------------|----------------|-------------------------|-------------------------|-------------------------|
| | PY7 | PY8 | PY9 | PY7% of BUS Total | PY8% of BUS Total | PY9% of BUS total |
| BUS-Standard | 60,073 | 65,400 | 71,567 | 46.8% | 49.0% | 51.3% |
| BUS-Custom | 51,307 | 51,133 | 50,959 | 39.9% | 38.3% | 36.5% |
| BUS-RCx | 17,075 | 17,017 | 16,959 | 13.3% | 12.7% | 12.2% |
| BUSINESS PORTFOLIO TOTAL | 128,455 | 133,549 | 139,484 | 100.0% | 100.0% | 100.0% |

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CUB 2.04

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of savings each business program contributes to the overall business program therm totals.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

Per Ameren Ex. 1.1 (2nd Rev.)

| Business Program | Annual Therm Savings | | | | | |
|---|-----------------------------|------------------|------------------|----------------------------------|----------------------------------|----------------------------------|
| | PY7 | PY8 | PY9 | PY7% of BUS Total | PY8% of BUS Total | PY9% of BUS total |
| BUS-Standard | 950,625 | 950,625 | 950,625 | 48.1% | 48.2% | 48.3% |
| BUS-Custom | 891,260 | 888,230 | 885,210 | 45.1% | 45.0% | 45.0% |
| BUS-RCx | 133,681 | 133,227 | 132,774 | 6.8% | 6.8% | 6.7% |
| BUSINESS PORTFOLIO TOTAL | 1,975,567 | 1,972,082 | 1,968,609 | 100.0% | 100.0% | 100.0% |

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CUB 2.05

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of costs of each residential program in relation to the cost of all the residential programs.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

Per Ameren Ex. 1.1 (2nd Rev.):

| Residential Program | Annual Program Costs (\$ millions) | | | | | |
|------------------------------------|------------------------------------|----------------|----------------|-------------------|-------------------|-------------------|
| | PY7 | PY8 | PY9 | PY7% of RES Total | PY8% of RES Total | PY9% of RES total |
| RES-Appliance Recycling | \$1.58 | \$1.46 | \$1.31 | 6.6% | 6.1% | 5.5% |
| RES-Behavior Modification | \$1.31 | \$1.31 | \$1.31 | 5.5% | 5.5% | 5.5% |
| RES-ENERGY STAR New Homes | \$1.02 | \$1.02 | \$1.02 | 4.3% | 4.3% | 4.3% |
| RES-HPwES | \$6.50 | \$6.55 | \$6.58 | 27.2% | 27.5% | 27.8% |
| RES-HVAC | \$3.96 | \$3.96 | \$3.96 | 16.6% | 16.7% | 16.7% |
| RES-Standard CFLs | \$6.35 | \$6.35 | \$6.35 | 26.6% | 26.7% | 26.8% |
| RES-Moderate Income | \$1.52 | \$1.52 | \$1.52 | 6.4% | 6.4% | 6.4% |
| RES-Multifamily In-Unit | \$1.37 | \$1.37 | \$1.37 | 5.7% | 5.8% | 5.8% |
| RES-School Kits | \$0.24 | \$0.24 | \$0.24 | 1.0% | 1.0% | 1.0% |
| RESIDENTIAL PORTFOLIO TOTAL | \$23.86 | \$23.78 | \$23.67 | 100.0% | 100.0% | 100.0% |

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Data Request Response Date: 10/15/2013**

CUB 2.06

Regarding Ameren Ex. 1.1R at 9, please calculate the percentage of costs of each business program in relation to the cost of all the business programs.

RESPONSE

**Prepared By: Keith E. Goerss
Title: Assistant Manager, Energy Efficiency
Phone Number: 309-677-5708**

Per Ameren Ex. 1.1 (2nd Rev.):

| Business Program | Annual Program Costs (\$ millions) | | | | | |
|---------------------------------|---|----------------|----------------|--------------------------|--------------------------|--------------------------|
| | PY7 | PY8 | PY9 | PY7% of BUS Total | PY8% of BUS Total | PY9% of BUS total |
| BUS-Standard | \$13.15 | \$13.92 | \$14.30 | 54.1% | 55.6% | 56.4% |
| BUS-Custom | \$9.14 | \$9.11 | \$9.08 | 37.6% | 36.4% | 35.8% |
| BUS-RCx | \$2.01 | \$2.00 | \$2.00 | 8.3% | 8.0% | 7.9% |
| BUSINESS PORTFOLIO TOTAL | \$24.30 | \$25.03 | \$25.37 | 100.0% | 100.0% | 100.0% |