Ameren Illinois Quarterly Report to SAG

PY8 Q4 8-103/8-104 and 16-111.5B (IPA)
Results and Highlights

09.27.2016





8-103/8-104: PY8 Adjusted Goal Analysis - Savings

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Energy Efficiency	PY8 Compliance Goal (MWHs)	PY8 Compliance Goal (Therms)	PY8 Electric Adjusted Goals (MWHs) Ad	PY8 Gas ljusted Goals (Therms)	PY8 Electric Adjusted Goals w/errata (MWHs)	PY8 Gas Adjusted Goals w/errata (Therms)	Electric Variance	Gas Variance	Electric % Variance	Gas % Variance	PY8 NTG and/or TRM V4.0 Adjustment Explanations *		
RES-Appliance Recycling	3,702	0	3,535	d	3,429	q	-273	0	-7'	% 0%	Refrigerator & freezer NTGRs decreased slightly. Updated coefficient values of savings formula in TRM.		
RES-Behavior Modification	0	1,887,500	0	1,887,500	0	1,887,500	0	0	0'	% 0%	Variance due to Ver. 4 errata that wasn't updated in previous adjustable comparisons.		
RES-Energy Star New Homes	791	25,663	765	32,271	765	32,271	-26	6,608	-3'	% 26%	Electric NTGRs decreased for Multifamily. Gas NTGRs increased.		
RES-HPWES	5,346	768,779	3,956	622,070	3,181	622,070	-2,165	-146,709	-40'	% -19%	NTGRs for electric measures generally decreased. NTGRs for gas measures decreased for air sealing and		
											nsulation but increased for aerators and showerheads. TRM change - CFL savings decreased with reduction n HOU. Variance due to air sealing errata identified in Ver. 5 TRM		
DEC UNAC	4 402		4022		4.022		240		0	00			
RES-HVAC	4,492	U	4,832	U	4,832	٩	340	U	8'	% U%	NTGRs for ROB measures decreased by 5-10%; NTGRs for ER measures increased by 10-15%; NTGR for BMP blower motor increased by 10%. TRM change - Baseline for ASHP ROB measures changed to 14 SEER from 13 SEER.		
											13 SEEK.		
RES-Lighting	5,841	0	5,272	C	5,272	o	-569	0	-10	% 0%			
											change to ISR in TRM V3.0 increased the savings recognized in PY7, causing a reduction to carryover savings n years PY8 & PY9. Midstream lighting is in IPA for PY8 and these savings are strictly carryover from PY7.		
RES-Moderate Income	6,604	462,778	5,605	423,505	5,058	423,505	-1,546	-39,273	-23	% -8%			
NES-Woderate Income	0,004	402,776	3,003	423,303	3,036	423,303	-1,340	-35,273	-23	70 -07	RM changes - CFL savings decreased with reduction in HOU and baseline for ASHP ROB measure changed to 14 SEER from 13 SEER. Variance due to air sealing errata identified in Ver. 5 TRM		
											to 14 Seek from 15 Seek. Variance due to an searing errota identified in Ver. 5 Titler		
RES-Multifamily In-Unit	5,517	112,521	5,179	100,402	5,179	100,402	-338	-12,119	-6'	% -11%	Electric NTGR generally increased for most measures, offset by a reduction in HOU for CFLs (TRM change). Gas NTGRs generally remained relatively stable, except the NTGR value for showerheads decreased		
											significantly.		
RES-School Kits	388	54,986	331	46,599	331	46,599	-58	-8,387	-15	% -15%	Electric or gas NTGRs generally increased with exception of CFLs which decreased. This was offset in electric		
											by TRM changes - lighting parameter reductions in hours, WHF and ISR. Gas measures were affected by TRM changes to water heater temperature reduction methodology.		
RES PROGRAM TOTAL	32,681	3,312,228	29,474	3,112,348	28,046	3,112,348	-4,635	-199,880	-14	% -6%			
BUS-Standard	85,378	851,087	86,363	856,848	86,363	856,848	985	5,762	1'	% 1%	Variance primarily due to facility type changes &TRM adjustment for HVAC & Lighting measures which		
											ncreased savings expected by these measures. The other major TRM change was GREMs where savings decreased for that measure.		
BUS-Custom	32,544	1,135,436		1,271,811		1,271,811	0	136,375			ncrease in the gas program NTGR.		
BUS-RCx BUS-Large C&I	17,196 17,480	134,629	16,479 17,480	128,961	16,479 17,480	128,961	-716 0	-5,669	-4' 0'		Slight decrease in both the electric and gas NTGR.		
						0							
BUSINESS PROGRAM TOTAL	152,598	2,121,152	152,867	2,257,620	152,867	2,257,620	269	136,468	0:	% 6%			
AIC PROGRAM TOTAL	185,278	5,433,379	182,341	5,369,967	180,913	5,369,967	-4,366	-63,412	-2'	% -1%			

8-103-8-104: PY8 Adjusted Goals vs PY8 Implementation Plan Savings

Energy Efficiency	PY8 Electric Adjusted Goals (MWHs)	PY8 Gas Adjusted Goals (Therms)	PY8 Electric Implementation Plan (MWHs)	PY8 Gas Implementation Plan (Therms)	Electric Variance	Gas Variance	Electric % Variance		Explanations or +/- 20% variance
RES-Appliance Recycling	3,429	0	3,535	0	106	0	3%	0%	
RES-Behavior Modification	0	1,887,500	0	1,800,000	0	-87,500	0%	-5%	
RES-Energy Star New Homes	765	32,271	565	55,473	-200	23,202	-26%	72%	Adjusted measure mix to reflect a greater proportion of gas heated homes expected compared to filing. This resulted in less electric savings and greater gas savings.
RES-HPWES	3,181	622,070	2,300	401,314	-881	-220,756	-28%	-35%	Reduced participation due to higher cost of savings in PY8.
RES-HVAC	4,832	0	4,541	0	-291	0	-6%	0%	
RES-Lighting	5,272	0	6,645	0	1,373	0	26%	0%	Carryover savings higher due to higher lighting sales in PY7.
RES-Moderate Income	5,058	423,505	2,970	500,447	-2,088	76,942	-41%	18%	Reduced volume of Central AC installations resulting in decreased electric savings.
RES-Multifamily In-Unit	5,179	100,402	8,512	162,271	3,333	61,869	64%	62%	Increased production for building envelope measures resulting in greater electric and gas savings
RES-School Kits	331	46,599	496	69,898	165	23,299	50%	50%	Increased delivery with minimal budget impact.
RES PROGRAM TOTAL	28,046	3,112,347	29,564	2,989,403	1,518	-122,944	5%	-4%	
BUS-Standard	86,363	856,848	65,570	1,396,224	-20,793	539,376	-24%	63%	Anticipated decreased participation in Standard Electric due to multiple IPA programs for small business customers. Greater participation with the Standard Gas steam trap measure than originally forecasted.
BUS-Custom	32,544	1,271,811	80,141	1,215,971	47,597	-55,840	146%	-4%	Greater participation in Custom program from large C&I customers
BUS-RCx	16,479	128,961	9,407	189,627	-7,072	60,666	-43%	47%	Increased participation in Custom reduced opportunities in RCx for electric. Increased gas savings due to additional customer desires for more Large Facility RCx projects
BUS-Large C&I	17,480	0	0	0	-17,480	0	-100%	0%	No customers signed up for Large C&I offering in PY7, savings shifted to Custom to serve the same target customers
BUS PROGRAM TOTAL	152,867	2,257,620	155,118	2,801,822	2,251	544,202	1%	24%	
AIC PROGRAM TOTAL	180,913	5,369,967	184,682	5,791,225	3,769	421,258	2%	8%	

8-103/8-104: PY8 Adjusted Goals vs PY8 Implementation Plan - Budget

Energy Efficiency	PY8 Electric Plan Budget	PY8 Gas Plan Budget	PY8 Electric Implementation Budget	PY8 Gas Implementation Budget	Electric Variance	Gas Variance	Electric %Variance	Gas %Variance	Explanations or +/- 20% variance		
RES-Appliance Recycling	\$ 1,461,234	\$ -	\$ 1,313,763	\$ -	\$ (147,471)	\$ -	-10%	0%			
RES-Behavior Modification	\$ -	\$ 984,375	\$ -	\$ 1,066,390	\$ -	\$ 82,015	0%	8%			
RES-Energy Star New Homes	\$ 655,381	\$ 361,921	\$ 878,089	\$ 371,439	\$ 222,708	\$ 9,518	34%	3%	ncreased funding of electric incentives to achieve electric savings.		
RES-HPWES	\$ 4,004,447	\$ 2,177,727	\$ 3,720,589	\$ 1,351,698	\$ (283,858)	\$ (826,029)	-7%	-38%	Fewer participants resulted in less budget needed. Funding reallocated to Moderate ncome program.		
RES-HVAC	\$ 2,844,928	\$ -	\$ 2,488,123	\$ -	\$ (356,805)	\$ -	-13%	0%			
RES-Lighting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	0%			
RES-Moderate Income	\$ 8,375,886	\$ 1,303,887	\$ 6,951,682	\$ 2,128,642	\$ (1,424,204)	\$ 824,755	-17%	63%	More incentive funding allocated to achieve greater gas savings.		
RES-Multifamily In-Unit	\$ 1,061,851	\$ 312,752	\$ 2,035,202	\$ 662,529	\$ 973,351	\$ 349,777	92%	112%	Additional funding allocated to this program for building envelope measures.		
RES-School Kits	\$ 115,375	\$ 120,175	\$ 115,788	\$ 134,013	\$ 413	\$ 13,838	0%	12%			
RESIDENTIAL PROGRAM TOTAL	\$ 18,519,102	\$ 5,260,837	\$ 17,503,236	\$ 5,714,711	\$ (1,015,866)	\$ 453,874	-5%	9%			
BUS-Standard	\$ 11,274,400	\$ 2,642,285	\$ 10,558,537	\$ 1,955,523	\$ (715,863)	\$ (686,762)	-6%	-26%	Steam Trap projects providing low cost savings while still achieving goal, allowing shifting of budgets to other Business programs.		
BUS-Custom	\$ 5,403,637	\$ 1,996,322	\$ 9,006,770	\$ 2,128,312	\$ 3,603,133	\$ 131,990	67%	7%	ncrease in budgets to accommodate large C&I projects		
BUS-RCx	\$ 1,875,810	\$ 127,428	\$ 695,318	\$ 522,489	\$ (1,180,492)	\$ 395,061	-63%		Greater demand in custom program required a shift of electric funds. Gas budget ncreased due to meet demand for Large Facility RCx projects. No customers signed up for Large C&I offering in PY7, budget shifted to Custom to		
BUS-Large C&I	\$ 1,710,000	\$ -	\$ -	\$ -	\$ (1,710,000)	\$ -	-100%	0%	serve the same target customers		
BUSINESS PROGRAM TOTAL	\$ 20,263,846	\$ 4,766,036	\$ 20,260,625	\$ 4,606,324	\$ (3,221)	\$ (159,712)	0%	-3%			
AIC - Portfolio Admin costs	\$ 1,952,771	\$ 504,866	\$ 1,952,771	\$ 504,866	\$ -	\$ -	0%	0%			
AIC - EM&V costs	\$ 1,362,399	\$ 352,232	\$ 1,362,399	\$ 352,232	\$ -	\$ -	0%	0%			
AIC - Education	\$ 976,386	\$ 252,433	\$ 976,386	\$ 252,433	\$ -	\$ -	0%	0%			
AIC - Marketing	\$ 976,386	\$ 252,433	\$ 976,386	\$ 252,433	\$ -	\$ -	0%	0%			
R&D Budget (Emerging Technologies)	\$ 1,362,399	\$ 352,232	\$ 1,362,399	\$ 352,232	\$ -	\$ -	0%	0%			
AIC PROGRAM TOTAL	\$ 45,413,289	\$ 11,741,069	\$ 44,394,201	\$ 12,035,231	\$ (1,019,088)	\$ 294,162	-2%	3%			
DCEO AMEREN ILLLINOIS TOTAL	\$ 15,137,763	\$ 3,913,690	\$ 15,137,763	\$ 3,913,690	\$ -	\$ -	0%	0%			
TOTAL PORTFOLIO	\$ 60,551,052	\$ 15,654,758	\$ 59.531.964	\$ 15.948.921	\$ (1,019,088)	\$ 294,162	-2%	2%			

8-103/8-104: PY8 Implementation Plan vs Actual Q4 Activity - Savings

Energy Efficiency	PY8 Electric Implementation Plan (MWHs)	PY8 Gas Implementation Plan (Therms)	PY8 Electric Actuals * (MWHs)	PY8 Gas Actuals * (Therms)	Electric % Complete	Gas % Complete	Explanations
RES-Appliance Recycling	3,535	0	3,701	0	105%	0%	
RES-Behavior Modification	0	1,800,000	0	1,824,340	0%	101%	
RES-Energy Star New Homes	565	55,473	704	62,706	125%	113%	Project uptake stronger than anticipated.
RES-HPWES	2,300	401,314	1,423	181,546	62%	45%	Program Allies more interested in the Mod Income program where incentives are greater.
RES-HVAC	4,541	0	5,122	0	113%	0%	
RES-Lighting	6,645	0	6,954	0	105%	0%	
RES-Moderate Income	2,970	500,447	3,723	522,260	125%	104%	Program Allies more interested in this program than the HPwES program as the incentives are greater.
RES-Multifamily	8,512	162,271	7,035	283,098	83%	174%	Increased activity in this program resulted from the decreased activity in HPwES.
RES-School Kits	496	69,898	552	70,262	111%	101%	
RES PROGRAM TOTAL	29,564	2,989,403	29,215	2,944,212	99%	98%	
BUS-Standard	65,570	1,396,224	76,247	3,070,547	116%	220%	With several Custom projects cancelled, marketing for Standard program increased to obtain overall energy savings
BUS-Custom	80,141	1,215,971	77,687	656,208	97%	54%	Several very large Custom gas projects were cancelled during the program year
BUS-RCx	9,407	189,627	10,163	425,701	108%	224%	Higher volume of RCx gas projects came in during the year in comparison to past years
BUS-Large C&I	0	0	0	0	0%	0%	
BUS PROGRAM TOTAL	155,118	2,801,822	164,097	4,152,456	106%	148%	
AIC P <mark>ROGRAM T</mark> OTAL	184,682	5,791,225	193,312	7,096,668	105%	123%	

^{*} All savings values are unevaluated

8-103/8-104: PY8 Implementation Plan vs Actual Q4 Activity - Budget

Energy Efficiency	PY8 Electric Implementation Plan In	PY8 Gas nplementation Plan	PY8 Electric Actuals	PY8 Gas Actuals	Electric % Complete	Gas % Complete	Explanations
RES-Appliance Recycling	\$ 1,313,763	\$ -	\$ 1,253,753	\$ -	95%	0%	
RES-Behavior Modification	\$ -	\$ 1,066,390	\$ -	\$ 1,090,338	0%	102%	
RES-Energy Star New Homes	\$ 878,089	\$ 371,439	\$ 879,913	\$ 409,675	100%	110%	
RES-HPWES	\$ 3,720,589	\$ 1,351,698	\$ 2,816,338	\$ 944,535	76%		Budget less than planned because Program Allies less interested in this program and more interested in the Mod Income program where incentives are greater.
RES-HVAC	\$ 2,488,123	\$ -	\$ 2,743,598	\$ -	110%	0%	
RES-Lighting	\$ -	\$ -	\$ -	\$ -	0%	0%	
RES-Moderate Income	\$ 6,951,682	\$ 2,128,642	\$ 7,137,694	\$ 2,573,246	103%	121%	Budget higher because Program Allies more interested in this program than the HPwES program as the incentives are greater.
RES-Multifamily In-Unit	\$ 2,035,202	\$ 662,529	\$ 2,730,198	\$ 767,131	134%	116%	More dollars spent due to Increased activity in this program resulted from the decreased activity in HPwES.
RES-School Kits	\$ 115,788	\$ 134,013	\$ 116,998	\$ 133,026	101%	99%	
RES PROGRAM TOTAL	\$ 17,503,236	\$ 5,714,711	\$ 17,678,492	\$ 5,917,952	101%	104%	
BUS-Standard	\$ 10,558,537	\$ 1,955,523	\$ 9,728,262	\$ 1,752,244	92%	90%	
BUS-Custom	\$ 9,006,770	\$ 2,128,312	\$ 8,060,489	\$ 1,466,351	89%	69%	Steam trap projects from customers with high pressure steam kept incentive costs extremely low.
BUS-RCx	\$ 695,318	\$ 522,489	\$ 801,111	\$ 781,387	115%		More projects received in comparison to past years. T&M spending did not change significantly; therefore, the spend did not proportionally increase with the increased savings.
BUS-Large C&I	\$ -	\$ -	\$ -	\$ -	0%	0%	
BUS PROGRAM TOTAL	\$ 20,260,625	\$ 4,606,324	\$ 18,589,863	\$ 3,999,982	92%	87%	
AIC PROGRAM TOTAL	\$ 37,763,861	\$ 10,321,035	\$ 36,268,355	\$ 9,917,933	96%	96%	

8-103/8-104: PY8 Q4 New Measures - Residential

Program	Measure Description	TRC	Explanations for TRC < 1
	No New Measures Added		

8-103/8-104: PY8 Q4 New Measures – Business

Program	Measure Description	TRC	Explanations for TRC < 1
	No New Measures Added		





PY8 electric savings goal achieved with 3,701 MWhs.

PY8 final savings based on 7,947 units picked up during the year.

Program being phased out in PY9 due to cost-ineffectiveness.





Residential HVAC Program Highlights

 5,121 MWhs achieved from this program in PY8 representing 96% of electric savings goal.

Incentives budget reached 111% of annual allotment.

Absence of incentives for CAC units (standard and ER) has improved the incentive-to-savings ratio.





Residential Behavior Modification Program Highlights

Slightly exceeded 1,800,000 therm goal for this program.

Program achieved 111% of the therm target.

Total contract dollars expended were slightly above the target for gas at 102%.







Program achieved 59% of electric and 41% gas savings goals.

Over 1,800 audits and 701 projects completed during PY8.

Notification provided to Program Allies in mid May informing them that this program will not be offered in PY9.





Residential Moderate Income Program Highlights

- Over 80% of the electric savings goal and nearly 90% of the gas savings goals achieved in PY8.
- 922 projects completed in PY8.
- Over 115 Program Allies with nearly 70% submitting projects during the program year.
- New design for PY9 should increase activity and work scope submittals



Residential Multifamily Program Highlights

- Program attained 163% of the therm goals for PY8
- 99,883 Direct Install measures (lighting and water) in 10,059 housing units in PY8.
 - 2,724 programmable thermostats installed by property owners.
- 344 Major Measures impacting 1,984 Ameren Illinois gas customers.



sidential ENERGY STAR® New Homes Program Highlights

- Program attained 117% of electric and 112% of therm goals for PY8.
- 577 homes completed in PY8.
- Program Allies notified that this program will not be offered in PY9.







 Program attained 111% of electric and 101% of therm goals for PY8.

May included 16 presentations at two schools that resulted in a slight exceedance of the PY8 7,500 kit goal.







 Program attained 94% of electric and 84% of therm goals for PY8.

 One very large customer put some of their projects on hold and moved some to the next program year.

Lost more savings than typical in closing due to project slippage and post data energy savings confirmation.





- The Standard Program exceeded both the electric and gas energy savings goals for PY8.
- Standard programs provided solid energy savings per unit cost in PY8.
- Gross savings from Instant Incentives (midstream) totaled over 6 thousand MWhs.
- Added T5HO Linear LED to the approved Instant Incentives (midstream) product list.



 Both electric and gas energy savings goals were achieved during the program year.

 15 compressed air, 7 healthcare and 2 large facilities RCx projects submitted during the program year.

 Limited Retro-Commissioning Service Providers specializing in building audits.





 Since the beginning of the year, a total of 3 new HAN devices have been received.

Testing for one of the devices was completed and testing for the remaining two devices is in process

Ameren Illinois has a total of 5 devices that have been validated to function correctly with our AMI meters.



Emerging Technologies: Codes and Standards

 Dollars budgeted for PY8 for Codes and Standards were not utilized as the program was being coordinated and run through DCEO and they could not spend any funds during the year due to the state of Illinois budget impasse.





IPA: PY8 Q4 Plan vs Actual – Savings and Budget - FINAL

IPA Energy Efficiency	IPA Plan Goal (MWHs)	IPA Implementer Budget (\$) **	PY8 Electric Actuals * (MWHs)	PY8 Spend Actuals (\$)	Electric % Complete	-
RES- Rural Efficiency Kits	7,120	\$971,160	7,485	\$1,021,023	105%	105%
RES- Multifamily	36,334	\$14,395,090	36,211	\$14,481,993	100%	101%
RES- Moderate Income Kits	1,601	\$1,001,310	1,753	\$913,380	110%	91%
SM BUS- Small Business Direct Install	9,933	\$3,029,863	10,186	\$2,979,143	103%	98%
RES- Behavior Modification	37,000	\$1,022,390	37,045	\$1,022,390	100%	100%
SM BUS- Demand Controlled Vent.	4,984	\$1,006,000	0	\$0	0%	0%
SM BUS- Small Business Refrigeration	15,346	\$3,274,207	3,942	\$763,300	26%	23%
RES- Residential Lighting	45,210	\$9,242,864	48,151	\$8,060,310	107%	87%

^{*} All savings values are unevaluated

^{**} Implementer Budgets do not reflect AIC Administration costs which are being tracked seperately



Program: HOME ENERGY REPORTS

Vendor/Implementer: OPower

- OPower achieved 100% of electric energy savings goal for PY8.
- As directed in the Plan 3 Final Order, this program will continue implementation through the IPA in PY9.



Program: MODERATE INCOME KITS

Vendor/Implementer: AM Conservation

- AM Conservation slightly exceeded the annual savings goal approved in the IPA 2015 Electricity Procurement Plan for PY8.
- Customers on the wait list were mailed postcards explaining they would receive their kit in PY9.
- The Commission approved this program for implementation for two years so it will continue in PY9.

Program: MULTIFAMILY MAJOR MEASURES

Vendor/Implementer: CLEAResult

- CLEAResult achieved the annual savings goal approved in the IPA 2015 Electricity Procurement Plan with 100% of the goal achieved.
- Approximately 1,500 applications were processed during the year.
- The IPA 2015 Electricity Procurement approved this program for implementation for two years so it will continue in PY9.



Program: RURAL EFFICIENCY KITS Vendor/Implementer: CLEAResult

- CLEAResult achieved the energy savings goal that was approved by the Commission in the 2015 Electricity Procurement Plan for PY8.
- The third distribution of over 5,600 kits were mailed and invoiced in March.
- This program will continue in PY9 as the Commission approved the program for two years through the IPA 2015 Electricity Procurement Plan.

Program: RESIDENTIAL LIGHTING Vendor/Implementer: CLEAResult

- CLEAResult achieved 100% of the electric goal in PY8 utilizing 87% of the budget.
- Distribution agreements were sent to industry partners in preparation for PY9.
- A graphic redesign was completed in May in preparation for PY9.
- As directed in the Plan 3 Final Order, this program will continue implementation through the IPA in PY9.

Program: SMALL BUSINESS DIRECT INSTALL Vendor/Implementer: Franklin Energy

- Franklin Energy met the PY8 energy savings goal approved by the Commission in the IPA 2015 Electricity Procurement Plan.
- Twenty-four public sector customers participated in the program during PY8.
- The Commission approved this program for two years under the IPA 2015 Electricity Procurement Plan so it will continue to be implemented in PY9.

Program: SMALL BUSINESS REFRIGERATION

Vendor/Implementer: Staples Energy

- Staples Energy fell short of the electric energy savings goals approved by the Commission in the IPA 2015 Electricity Procurement Plan achieving 26%.
- This program will continue in PY9 as the Commission approved the program for two years through the IPA 2015 Electricity Procurement Plan.
- As a result of PY8 performance, Staples renegotiated to lower savings and budget but plans to kick off PY9 strong with direct mail marketing to potential customers.

Program: DEMAND-CONTROLLED VENTILATION

Vendor/Implementer: Sodexo

- Sodexo did not achieve any savings in PY8 for this program that was approved by the Commission in the IPA 2015 Electricity Procurement Plan.
- Sodexo advised AIC in January that they were not able to continue with program implementation.
- This program was only approved by the Commission for implementation for one year in the IPA 2015 Electricity Procurement Plan.





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