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Ameren Illinois Company PY9 Net-to-Gross Ratios for the Energy Efficiency Portfolio (8-103/8-104) and IPA Programs (16-111)

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CADMUS

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1. Business Programs

1.1 Standard

The C&I Standard Program has a number of distinct components as outlined in this section. The evaluation team has recommended values for each in Sections 1.1.1, 1.1.2, 1.1.3, and 1.1.4.

1.1.1 Core Standard Program

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	0.62	N/A	Retrospective application	Customer self-report. 17 surveys completed from a population of 34. Basic method.	PY1 Evaluation
	NTG Research Results (available 11/30/09)	0.62	N/A			
PY2 (6/1/09-5/31/10)	Value Applied	0.78 (program-level)	N/A	Retrospective application	Customer self-report. 80 surveys completed from a population of 414. Enhanced method. Trade allies and key account executives called for 7 participants and their responses factored in to FR.	PY2 Evaluation
	NTG Research Results (available 1/28/11)	Lighting - 0.78 Grocery - 0.76 HVAC - 0.47 Motors - 0.63 Refrigeration - 0.90 (0.76 program-level)	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	0.75 (program-level) DI Aerators - 0.76	N/A	Retrospective application	Customer self-report. 178 Standard surveys completed from a population of 913. Enhanced method. Trade allies and key account executives called for 3 participants.	PY3 Evaluation
	NTG Research Results (available 12/19/11)	Lighting - 0.76 Agriculture - 0.76 HVAC - 0.78 Motors - 0.76 Refrigeration - 0.82 (0.75 program-level)	N/A			
PY4 (6/1/11-5/31/12)	Value Applied	0.76 (program-level) 0.80 Direct Install	0.76 (program-level) 0.80 Direct Install	No program or market change	See PY2; Updated NTGRs for Staffing Grant participants	PY2 Evaluation
	NTG Research Results	Lighting - 0.62 Agriculture - 0.76	HVAC - 0.60 Kitchen - 0.53	N/A	Customer self-report. 195 Standard surveys	PY4 Evaluation

Business Programs

Program Year	Type	NTGR		Justification	Method	Source
		HVAC – 0.43 Motors – 0.80 Refrigeration – 0.83 Kitchen – 0.54	Water Heater – 0.73		completed from a population of 933 for Core. Enhanced method utilizing 2 interviews with key account executives and trade allies.	
PY5 (6/1/12-5/31/13)	Value Applied	0.75 (program-level)	0.75 (program-level)	No program or market change	See PY3; Updated NTGRs for Staffing Grant participants	PY3 Evaluation
	NTG Research Results (available 2/6/2014)	Lighting – 0.77	Steam Trap – 0.90	N/A	Customer self-report method. Lighting surveys (n=68) completed from a population of 560 contacts and steam traps (n=6) completed from a population of 21 contacts. Enhanced method utilizing interviews with trade allies.	PY5 Evaluation
PY6 (6/1/13-5/31/14)	Value Applied	Lighting – 0.62 Agriculture – 0.76 HVAC – 0.43 Motors – 0.80 Refrigeration – 0.83 Kitchen – 0.54	HVAC – 0.60 Kitchen – 0.53 Water Heater – 0.73	No program or market change	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY7 (6/1/14-5/31/15)	Value Applied	Lighting – 0.77 HVAC – 0.43 Motors – 0.80 Specialty – 0.82	Steam Trap – 0.90 HVAC – 0.60 Specialty – 0.70	No program or market change	See PY5 for lighting and steam traps, and PY4 for other measures	PY4 and PY5 Evaluations
	NTG Research Results	Lighting – 0.78 HVAC – 0.56 Leak Survey – 0.70 Specialty – 0.85 VFD – 0.83	Steam Trap – 0.61 HVAC – 0.49 Specialty – 0.68	N/A	Customer self-report method. Lighting interviews (n=70) completed from a population of 638 contacts. Remaining interviews (n=65) completed as attempted census by enduse from	PY7 Evaluation

Business Programs

Program Year	Type	NTGR	Justification	Method	Source	
				population of 204 contacts.		
PY8 (6/1/15-5/31/16)	Recommended	Lighting – 0.78 HVAC – 0.44 Motors – 0.81 Specialty – 0.83	Steam Trap – 0.90 HVAC – 0.80 Specialty – 0.90	Previous EM&V NTG exists	PY5 and PY4 values with electric NPSO included.	PY4 and PY5 Evaluations
PY9 (6/1/16-5/31/17)	Recommended	Lighting – 0.78 HVAC – 0.56 Leak Survey – 0.70 Specialty – 0.85 VFD – 0.83	Steam Trap – 0.61 HVAC – 0.49 Specialty – 0.68	Most recent AIC specific value	Participant self-report and non-participant self-report for NPSO	PY7 Evaluation

1.1.2 Online Store

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	N/A – Not offered				
PY2 (6/1/09-5/31/10)	Value Applied	0.80	N/A	Initial launch and limited participation	Deemed planning value	AIC
	NTG Research Results (available 11/30/09)	0.80	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	0.64	N/A	Retrospective application	Customer self-report. 88 surveys completed from a population of 17,596. Basic method.	PY3 Evaluation
	NTG Research Results (available 11/30/09)	0.64	N/A			
PY4 (6/1/11-5/31/12)	Value Applied	0.80	N/A	No program or market change	See PY2	PY2 Evaluation
	NTG Research Results (available 11/30/09)	0.83	N/A	Expansion of target population for participation	Customer self-report. 213 surveys from the Online Store population of 24,623	
PY5 (6/1/12-5/31/13)	Value Applied	0.64		No program or market change	See PY3	PY3 Evaluation
	NTG Research Results	No research conducted				

Business Programs

Program Year	Type	NTGR		Justification	Method	Source
PY6 (6/1/13-5/31/14)	Value Applied	0.83		Updated IL value available	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY7 (6/1/14-5/31/15)	Value Applied	0.83		No program or market change	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	0.83		Previous EM&V NTG exists	See PY4	PY4 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.83		Previous EM&V NTG exists	See PY4	PY4 Evaluation

1.1.3 Green Nozzles

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	N/A - Not offered				
PY2 (6/1/09-5/31/10)	Value Applied	N/A - Not offered				
PY3 (6/1/09-5/31/10)	Value Applied	N/A - Not offered				
PY4 (6/1/11-5/31/12)	Value Applied	0.92	0.89	Retrospective application	Customer self-report. 101 surveys from a population of 514 for Green Nozzles	PY4 Evaluation
	NTG Research Results	0.92	0.89			
PY5 (6/1/12-5/31/13)	Value Applied	0.92	0.89	Updated IL value available	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY6 (6/1/13-5/31/14)	Value Applied	0.92	0.89	No program or market change	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY7 (6/1/14-5/31/15)	Value Applied	0.92	0.89	No program or market change	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	0.92	0.89	Previous EM&V NTG exists	See PY4	PY4 Evaluation

Business Programs

Program Year	Type	NTGR		Justification	Method	Source
PY9 (6/1/16-5/31/17)	Recommended	0.92	0.89	Previous EM&V NTG exists	See PY4	PY4 Evaluation

1.1.4 Midstream Lighting

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	68% CFLs 77% LEDs	N/A	Most recent Illinois specific value available.	Customer self-report approach based on the end-user telephone surveys of 282 participants and in-depth interviews with 9 BILD end-user participants. 2. Supplier self-reports based on in-depth interviews with program lighting distributors.	ComEd PY6 BILD Evaluation
PY9 (6/1/16-5/31/17)	Recommended	64% CFLs 78% LEDs	N/A	Most recent Illinois specific value available at the time recommendations were due.	Customer self-report approach based on the end-user telephone surveys of 224 participants, web surveys with 159 participants, and in-depth interviews with 5 BILD end-user participants. Supplier self-reports based on web surveys with 61 program lighting distributors.	ComEd PY7 BILD Evaluation

1.2 C&I Custom

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	0.77	N/A	Retrospective application	Customer self-report. 14 surveys completed from a population of 34. Basic method.	PY1 Evaluation
	NTG Research Results (available 11/30/09)	0.77	N/A			
PY2 (6/1/09-5/31/10)	Value Applied	0.69	N/A	Retrospective application	Customer self-report. 56 surveys completed from a population of 146. Enhanced method. Trade allies and key account executives called for 7 participants and their responses were factored in to the customer free ridership calculation.	PY2 Evaluation
	NTG Research Results (available 1/28/11)	0.69	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	0.75	N/A	Retrospective application	Electric: Customer self-report. 47 surveys completed from a population of 125. Enhanced method. Trade allies and key account executives called for 5 participants and their responses were factored in to the customer free ridership calculation.	PY3 Evaluation
	NTG Research Results (available 12/19/11)	0.75	N/A			
PY4 (6/1/11-5/31/12)	Value Applied	0.69	0.69	<ul style="list-style-type: none"> Program or Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY2. Also supplemented by Staffing Grant participant interviews, new projects NTGR score used if higher than PY2 Recommended NTGR.	PY2 Evaluation
	NTG Research Results	No research performed				
PY5 (6/1/12-5/31/13)	Value Applied	0.75	0.81	<ul style="list-style-type: none"> Program or Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY3; also supplemented by Staffing Grant participant interviews (8 of 16, 81% of kWh savings), new NTGR score used if higher than PY3 Recommended NTGR. Affected 7 respondents and 11 custom projects.	PY3 Evaluation
	NTG Research Results (available 2/6/2014)	0.74	0.74	N/A		

Business Programs

Program Year	Type	NTGR		Justification	Method	Source
PY6 (6/1/13-5/31/14)	Value Applied	0.75	0.81	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous EM&V NTG exists: Yes 	See PY3 for Electric; Deemed Value for Gas. Also supplemented by Staffing Grant participant interviews, new projects NTGR score used if higher than PY3 Recommended NTGR.	PY3 Evaluation
	NTG Research Results (available - 3/11/2015)	N/A	0.83	N/A	Customer self-report. 8 surveys completed from a population of 24. Enhanced method, however no respondents required interviews with trade allies or key account executives.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.75	0.74	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous EM&V NTG exists: Yes 	See PY5 for FR and participant SO	PY5 Evaluation
	NTG Research Results	No research performed				
PY8 (6/1/15-5/31/16)	Recommended	0.75	0.83	<ul style="list-style-type: none"> • Program or Market change: No • New Program: No • Previous EM&V NTG exists: Yes 	See PY5 for Electric & PY6 for Gas (FR and SO); See Section 1.5 for non-participant SO.	PY5 NTG Research for Electric & PY6 NTG Research for Gas
PY9 (6/1/16-5/31/17)	Recommended	0.74	0.83	<ul style="list-style-type: none"> • Program or Market change: No • New Program: No • Previous EM&V NTG exists: Yes 	See PY5 for Electric & PY6 for Gas (FR and SO); See Section 1.5 for non-participant SO.	PY5 NTG Research for Electric & PY6 NTG Research for Gas

1.3 Retro-Commissioning

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	1.0	N/A	Pilot with only 1 project.	Deemed	PY1 Evaluation
	NTG Research Results	N/A	N/A	No research conducted		
PY2 (6/1/09-5/31/10)	Value Applied	0.8	N/A	Retrospective application	AIC planning Value	PY2 Evaluation
	NTG Research Results	N/A	N/A	No research conducted		
PY3 (6/1/10-5/31/11)	Value Applied	0.58	N/A	Retrospective application	Customer self-report. 17 surveys completed from a population of 18 participant contacts. Basic method.	PY3 Evaluation
	NTG Research Results (available 04/01/12)	0.58	N/A			
PY4 (6/1/11-5/31/12)	Value Applied	0.95	0.95	Retrospective application	Customer self-report. 14 surveys completed from a population of 32 participants. Service Provider self-report. 9 surveys completed from a population of 12 participants. Enhanced method. Participant and Service Provider spillover researched.	PY4 Evaluation
	NTG Research Results (available 01/24/13)	0.95	0.95			
PY5 (6/1/12-5/31/13)	Value Applied	0.95	0.95	<ul style="list-style-type: none"> • Program change: No • Market change: Market evolving with service providers reaching outside of the program for work and increasing resources to deliver. • Previous EM&V NTG exists: Yes 	See PY4	PY4 Evaluation

Business Programs

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results	N/A	N/A	No Research Conducted		
PY6 (6/1/13-5/31/14)	Value Applied	0.96	0.95	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY4; See Section 1.5 for electric non-participant SO.	PY4 Evaluation
	NTG Research Results (available - 3/12/2015)	0.92	0.91	N/A	Customer self-report. 6 surveys completed from a population of 26. See Section 1.5 for electric non-participant SO.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.96	0.95	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY4; See Section 1.5 for electric non-participant SO.	PY4 Evaluation
	NTR Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	0.92	0.91	<ul style="list-style-type: none"> Previous EM&V NTG exists: Yes 	See PY6 for FR and participant SO; See Section 1.5 for non-participant SO.	PY6 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.91	0.91	<ul style="list-style-type: none"> Previous EM&V NTG exists: Yes 	See PY6 for FR and participant SO; See Section 1.5 for electric non-participant SO (updated in PY7).	PY6 RCx Evaluation & PY7 NPSO evaluation

1.4 Combined Heat and Power

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	N/A - Project Specific	N/A - Project Specific	<ul style="list-style-type: none"> New Program: Yes Previous EM&V NTG exists: No 	The evaluation team will determine NTGRs on a per-project basis upfront. The value assigned to each project will be valid for the life of that project.	Annual Evaluation Efforts
PY9 (6/1/16-5/31/17)	Recommended	N/A - Project Specific	N/A - Project Specific	<ul style="list-style-type: none"> New Program: No Previous EM&V NTG exists: No 	The evaluation team will determine NTGRs on a per-project basis upfront. The value assigned to each project will be valid for the life of that project.	Annual Evaluation Efforts

1.5 Portfolio-Level Non-Participant Spillover

Program Year	Type	Non-Participant Spillover	Justification	Method	Source
PY7 (6/1/14-5/31/15)	Value Applied	Electric - 0.01	<ul style="list-style-type: none"> Based on IL specific primary data collection 	<p>During the PY5 Standard Evaluation, we examined spillover using responses to the non-participant telephone survey, and found that 1.2% of the decision-makers took action and attributed it to the ActOnEnergy Business Program. Overall, we completed surveys with 251 respondents from a sample frame of 5,500. We conducted a similar study during PY3 and completed surveys with 245 respondents.</p> <p>For both studies, we developed estimates of the savings associated with these measures based on an engineering analysis of participant survey responses, as well as follow-up interviews performed by engineering staff. Based on the information gathered, we were able to perform engineering-based calculations or use the Statewide TRM to calculate savings. The most common type of equipment installed outside the program was efficient lighting, followed by water heating and cooling equipment.</p>	PY5 and PY3 Evaluations
	NTR Research Results	0.00	N/A	During the PY7 Standard Evaluation, we examined spillover using responses to the non-participant telephone survey, and found that none of the interviewed customers took un-incented energy efficient actions and attributed them to the Ameren Illinois Business Program.	
PY8 (6/1/15-	Recommended	Electric - 0.01	<ul style="list-style-type: none"> Based on IL specific primary 	See PY7 value applied	PY5 and PY3 Evaluations

Business Programs

Program Year	Type	Non-Participant Spillover	Justification	Method	Source
5/31/16)			data collection		
PY9 (6/1/16-5/31/17)	Recommended	Electric - 0.00	<ul style="list-style-type: none"> Based on IL specific primary data collection 	See PY7 NTG research results	PY7 Evaluation

2. Residential Programs

2.1 Appliance Recycling

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	Refrigerator 0.51 Freezer 0.53	N/A	Retrospective application	Customer self-report. 93 surveys completed from a population of 2,876.	PY1 Evaluation
	NTG Research Results (available 09/04/2009)	Refrigerator 0.51 Freezer 0.53	N/A			
PY2 (6/1/09-5/31/10)	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	Retrospective application	Customer self-report. 159 surveys completed from a population of 11,211.	PY2 Evaluation
	NTG Research Results (available 9/2010)	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	<ul style="list-style-type: none"> • Program or Market change: No • New Program: No • Previous EM&V NTG exists: Yes 	See PY2	PY2 Evaluation
	NTG Research Results	N/A	N/A			
PY4 (6/1/11-5/31/12)	Value Applied	Refrigerator 0.64 Freezer 0.65 Room Air Conditioner 1.0	N/A	Retrospective application	Customer self-report. 141 surveys completed from a population of 14,232.	PY4 Evaluation not including induced replacement
	NTG Research Results (available 02/2013)	Refrigerator 0.64 Freezer 0.65 Room Air Conditioner 1.0	N/A			
PY5 (6/1/12-5/31/13)	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	See PY2	PY2 Evaluation

Residential Programs

Program Year	Type	NTGR	Justification	Method	Source	
	NTG Research Results (available 11/2013)	Refrigerator 0.56 Freezer 0.62 Room Air Conditioner 1.0	N/A	N/A	Customer self-report. 140 refrigerator surveys completed from population of 8,780; 70 freezer surveys from population of 2,899	PY5 Evaluation
PY6 (6/1/13-5/31/14)	Value Applied	Refrigerator 0.63 Freezer 0.63 Room Air Conditioner 1.0	N/A	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	See PY4; PY5 evaluation for induced replacement	PY4 & PY5 Evaluations
	NTG Research Results (available - 12/2014)	Refrigerator 0.52 Freezer 0.62	N/A	N/A	Customer self-report. 140 surveys completed from population of 9,260.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	Refrigerator 0.56 Freezer 0.62 Room Air Conditioner 0.50	N/A	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	See PY5 for freezers and refrigerators; AC units from PY5 ComEd evaluation	PY5 Evaluation (AIC and ComEd)
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	Refrigerator 0.52 Freezer 0.62	N/A	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	Customer self-report. 140 surveys completed from population of 9,260.	PY6 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	Refrigerator 0.52 Freezer 0.62	N/A	<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	Customer self-report. 140 surveys completed from population of 9,260.	PY6 Evaluation

2.2 ENERGY STAR New Homes

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	N/A	N/A	No program		
	NTG Research Results					
PY2 (6/1/09-5/31/10)	Value Applied	N/A	N/A	No program		
	NTG Research Results					
PY3 (6/1/10-5/31/11)	Value Applied	0.80	0.80	<ul style="list-style-type: none"> Program is a small percentage of the portfolio and does not justify EM&V dollars to estimate NTG. 	N/A - Deemed	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY4 (6/1/11-5/31/12)	Value Applied	0.80	0.80	<ul style="list-style-type: none"> Program is a small percentage of the portfolio and does not justify EM&V dollars to estimate NTG. 	N/A - Deemed	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY5 (6/1/12-5/31/13)	Value Applied	0.80	0.80	<ul style="list-style-type: none"> Program is a small percentage of the portfolio and does not justify EM&V dollars to estimate NTG. 	N/A - Deemed	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY6 (6/1/13-5/31/14)	Value Applied	0.80	0.80	<ul style="list-style-type: none"> Program is a small percentage of the portfolio and does not justify EM&V dollars to estimate NTG. 	N/A - Deemed	Deemed
	NTG Research Results (available 12/12/2014)	Overall - 0.42 SF Only - 1.01	1.01	N/A	Customer self-report. Interviews with 5 builders out of around 42 builders who built single-family homes representing 27% of single-family homes.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.80	0.80	<ul style="list-style-type: none"> Program is a small percentage of the portfolio and updated AIC specific value not yet available. 	N/A - Deemed	Deemed

Residential Programs

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	Overall - 0.42 SF Only - 1.00	1.01	Most recent AIC specific value available	See PY6 NTG research results	PY6 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	SF Only - 1.00	1.01	Most recent AIC specific value available	See PY6 NTG research results	PY6 Evaluation

2.3 Home Performance with ENERGY STAR

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	0.76	N/A	Retrospective application	N/A – Deemed Value	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY2 (6/1/09-5/31/10)	Value Applied	Insulation – 0.63 Air Sealing – 1.00 CFLs – 0.75 Aerators – 0.99 Showerheads – 0.97 Pipe Wrap – 0.93	N/A	Retrospective application	Customer self-report for CFLs, faucet aerators, low flow showerheads, pipe wrap; 72 surveys completed from a population of 2,987. Secondary research for insulation and air sealing.	PY2 Evaluation
	NTG Research Results (available 1/28/11)	Insulation – 0.63 Air Sealing – 1.00 CFLs – 0.75 Aerators – 0.99 Showerheads – 0.97 Pipe Wrap – 0.93	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	Insulation – 0.92 Air Sealing – 0.99 CFLs – 0.75 Aerators – 0.99 Showerheads – 0.97 Pipe Wrap – 0.93	Insulation – 0.97 Air Sealing – 1.04 Aerators – 1.04 Showerheads – 1.01 Pipe Wrap – 0.98	Application of most recent research available	Deemed from PY2 for CFLs, faucet aerators, low flow showerheads, pipe wrap; Updated secondary research for insulation and air sealing.	PY2 Evaluation & Secondary Research
	NTG Research Results	Insulation – 0.92 Air Sealing – 0.99	Insulation – 0.97 Air Sealing – 1.04	Updated secondary research from PY2 to include spillover.		
PY4 (6/1/11-5/31/12)	Value Applied	Insulation – 0.88 Air Sealing – 0.88 CFLs – 0.97 Aerators – 0.86 Showerheads – 1.05 ESHP – 0.92	Insulation – 0.80 Air Sealing – 0.83 Aerators – 0.75 Showerheads – 0.82 T-Stat – 0.90 ESHP – 0.80	Retrospective application	Customer self-report. 201 surveys completed from a population of 4,627.	PY4 Evaluation

Residential Programs

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results	Insulation – 0.88 Air Sealing – 0.88 CFLs – 0.97 Aerators – 0.86 Showerheads – 1.05	Insulation – 0.80 Air Sealing – 0.83 Aerators – 0.75 Showerheads – 0.82 T-Stat – 0.90			
PY5 (6/1/12-5/31/13)	Value Applied	Insulation – 0.88 Air Sealing – 0.88 CFLs – 0.97 Aerators – 0.86 Showerheads – 1.05 ESHP – 0.92	Insulation – 0.80 Air Sealing – 0.83 Aerators – 0.75 Showerheads – 0.82 T-Stat – 0.90 ESHP – 0.80	<ul style="list-style-type: none"> No program change or market change Previous IL EM&V NTG exists: Yes 	See PY4	PY4 Evaluation
	NTG Research Results	N/A	N/A	No research performed		
PY6 (6/1/13-5/31/14)	Value Applied	Insulation – 0.88 Air Sealing – 0.88 CFLs – 0.97 Aerators – 0.86 Showerheads – 1.05	Insulation – 0.80 Air Sealing – 0.83 Aerators – 0.75 Showerheads – 0.82 T-Stat – 0.90	No program or market change	See PY4	PY4 Evaluation
	NTG Research Results	Insulation – 0.78 Air Sealing – 0.71 CFLs – 0.82 Aerators – 0.92 Showerheads – 0.86	Insulation – 0.78 Air Sealing – 0.72 Aerators – 0.94 Showerheads – 0.91 T-Stat – 0.87	N/A	Customer self-report. 238 surveys completed from a population of 2,997.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	Insulation – 0.88 Air Sealing – 0.88 CFLs – 0.97 Aerators – 0.86 Showerheads – 1.05	Insulation – 0.80 Air Sealing – 0.83 Aerators – 0.75 Showerheads – 0.82 T-Stat – 0.90	Most recent AIC value available	See PY4	PY4 Evaluation
	NTG Research Results	Not research conducted				
PY8 (6/1/15-5/31/16)	Recommended	Insulation – 0.78 Air Sealing – 0.71 CFLs – 0.82 Aerators – 0.92 Showerheads – 0.86 T-Stat – 0.87	Insulation – 0.78 Air Sealing – 0.72 Aerators – 0.94 Showerheads – 0.91 T-Stat – 0.87	Most recent AIC value available	See PY6	PY6 Evaluation

Residential Programs

Program Year	Type	NTGR		Justification	Method	Source
<p>PY9 (6/1/16-5/31/17)</p>	<p>Recommended</p>	<p>Insulation - 0.78 Air Sealing - 0.71 CFLs - 0.82 Aerators - 0.92 Showerheads - 0.86 T-Stat - 0.87</p>	<p>Insulation - 0.78 Air Sealing - 0.72 Aerators - 0.94 Showerheads - 0.91 T-Stat - 0.87</p>	<p>Most recent AIC value available</p>	<p>See PY6</p>	<p>PY6 Evaluation</p>

2.4 HVAC

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	N/A - No program					
PY2 (6/1/09-5/31/10)	Value Applied	0.63	0.49	Retrospective application	Secondary research	Secondary research
	NTG Research Results	No research conducted				
PY3 (6/1/10-5/31/11)	Value Applied	0.59	Furnaces - 1.01 Boilers - 1.02	Retrospective application	Customer self-report for FR and SO: 150 surveys completed from a population of 14,127. Drop out contractor self-report for non-participant spillover, 20 surveys completed from a population of 165.	PY3 Evaluation
	NTG Research Results (available 2/2012)	0.59	Furnaces - 1.01 Boilers - 1.02			
PY4 (6/1/11-5/31/12)	Value Applied	0.59	Furnaces 1.01 Boilers 1.02	No market or program change. Previous IL EM&V NTG exists	See PY3	PY3 Evaluation
	NTG Research Results	N/A	N/A	No research conducted		
PY5 (6/1/12-5/31/13)	Value Applied	0.59	Furnaces 1.01 Boilers 1.02	No market or program change. Previous IL EM&V NTG exists	See PY3	PY3 Evaluation
	NTG Research Results (available 3/2013)	<SEER 16 CAC/HP (RB) - 0.69 SEER 16+ CAC/HP (RB) - 0.76 <SEER 16 CAC/HP (ER) - 0.57 SEER 16+ CAC/HP (ER) - 0.82 ECM - 0.70	97% Furnace or Boiler - 0.64 95% Furnace - 0.52	N/A	Participant customer surveys for free ridership and participant spillover (n=210), and a non-participant contractor survey (n=65) for non-participant spillover.	PY5 Evaluation
PY6	Value Applied	0.59	Furnace 0.77	• Program	See PY3	PY3 Evaluation

Residential Programs

Program Year	Type	NTGR	Justification	Method	Source	
(6/1/13-5/31/14)		Boiler 0.79	change: Efficiency levels and incentive amounts have changed; gas measures dropped		Electric/ Revised PY3 Deemed Results for Gas	
	NTG Research Results (available 1/2014)	SEER < 16 CAC/HP (RB) - 0.60 SEER 16+ CAC/HP (RB) - 0.64 SEER < 16 CAC/HP (ER) - 0.63 SEER 16+ CAC/HP (ER) - 0.76 Brushless Motors - 0.76	N/A	N/A	PY6 Participant customer surveys for free ridership (n=204). PY5 nonparticipant contract surveys for spillover.	
PY7 (6/1/14-5/31/15)	Value Applied	<SEER 16 CAC/HP (RB) - 0.65 SEER 16+ CAC/HP (RB) - 0.72 <SEER 16 CAC/HP (ER) - 0.53 SEER 16+ CAC/HP (ER) - 0.78 ECM - 0.66	N/A	Most recent values available for the program based on primary data.	See PY5	PY5 Evaluation*
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	SEER < 16 CAC/HP (RB) - 0.60 SEER 16+ CAC/HP (RB) - 0.64 SEER < 16 CAC/HP (ER) - 0.63 SEER 16+ CAC/HP (ER) - 0.76 Brushless Motors - 0.76	N/A	Most recent values available for the program based on primary data.	See PY6 for FR estimates; See PY5 for SO.	PY5 and PY6 Evaluations
PY9 (6/1/16-5/31/17)	Recommended	SEER < 16 CAC/HP (RB) 0.60 SEER 16+ CAC/HP (RB) 0.64 SEER < 16 CAC/HP (ER) 0.63 SEER 16+ CAC/HP (ER) 0.76 Brushless Motors 0.76	N/A	Most recent values available for the program based on primary data.	See PY6 for FR estimates; See PY5 for SO.	PY5 and PY6 Evaluations

* Note: PY5 values adjusted per SAG discussion in February 2013 revising spillover from 26% to 22%.

2.5 Moderate Income

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1	N/A (no program)					
PY2	N/A (no program)					
PY3	N/A (no program)					
PY4 (6/1/11-5/31/12)	Value Applied	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed
	NTG Research Results	No research performed				
PY5 (6/1/12-5/31/13)	Value Applied	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed
	NTG Research Results	No research performed				
PY6 (6/1/13-5/31/14)	Value Applied	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed
	NTG Research Results	No research performed				
PY7 (6/1/14-5/31/15)	Value Applied	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed
	NTG Research Results	No research performed				
PY8 (6/1/15-5/31/16)	Recommended	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed
PY9 (6/1/16-5/31/17)	Recommended	1.0	1.0	<ul style="list-style-type: none"> Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0 	N/A - Deemed	Deemed

2.6 Multifamily In-Unit

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	0.76	N/A	Retrospective application	N/A – Deemed Value	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY2 (6/1/09-5/31/10)	Value Applied	In-Unit 1.0 Common Areas: 0.8	N/A	Retrospective application	Deemed for in-unit measures. For common areas, surveyed 10 participants from a population of 12 projects.	Deemed & PY2 Evaluation
	NTG Research Results (available - 12/2010)	In-Unit 1.0 Common Areas: 0.8	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	In-Unit 1.0 Common Areas: 0.8	N/A	Application of most recent research available	See PY2	PY2 Evaluation
	NTG Research Results	N/A	N/A	No research performed		
PY4 (6/1/11-5/31/12)	Value Applied	In-Unit 1.0 Common Areas 0.8 Major Measures 0.93	In-Unit 1.0 Major Measures 0.93	<ul style="list-style-type: none"> Program or Market change: No New Program: No 	See PY2 and HEP PY3 entry for Major Measures	PY2 Evaluation and PY3 HEP Evaluation
	NTG Research Results	N/A	N/A	No research conducted		
PY5 (6/1/12-5/31/13)	Value Applied	In-Unit 1.0 Common Areas 0.8 Major Measures 0.94	In-Unit 1.0 Major Measures 0.94	<ul style="list-style-type: none"> Program change: In PY4, the program began offering the Major Measures Component 	See PY2 for CAL and In-Unit; MM retro. application	PY2 and PY5 Evaluations

Residential Programs

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results (available 2/6/2014)	Major Measures 0.94	Major Measures 0.94	N/A	Property manager survey (n=14) and participant self-report.	PY5 Evaluation
PY6 (6/1/13-5/31/14)	Value Applied	Common Areas 0.80 In Unit 1.00 Major Measures 0.94	Common Areas 0.80 In Unit 1.00 Major Measures 0.94	<ul style="list-style-type: none"> No market or program change Previous IL EM&V NTG exists: Yes 	See PY2 and PY5	PY2 and PY5 Evaluations
	NTG Research Results (available - 11/25/14)	Common Area - 0.83 In-Unit: CFLs - 0.95 Faucet Aerators - 1.06 Showerhead - 1.00 Programmable T-Stat - 1.04	In-Unit: Faucet Aerators - 1.00 Showerhead - 0.60 Programmable T-Stat - 1.00	N/A	Customer self-report based on interviews with property managers (n=33) for common area lighting, major measures and some in-unit measures, and tenants (n=82) for in-unit CFLs.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	Common Area - 0.80 Major Measures: Insulation - 0.96 Air Sealing - 0.88 In-Unit: CFLs - 0.81 Faucet Aerator - 0.94 Showerhead - 0.93 Water Temp. - 1.00 Programmable T-Stat - 1.00	Major Measures: Insulation - 0.81 Air Sealing - 0.75 In-Unit: Faucet Aerator - 0.94 Showerhead - 0.93 Water Temp. - 1.00 Programmable T-Stat - 1.00	<ul style="list-style-type: none"> No market or program change Previous IL EM&V NTG exists: Yes 	Common Area from PY2; Major Measures from PY5; In Unit from ComEd's EPY3 Evaluation, as well as PY2.	PY2, PY5 NTG Research
	NTG Research Results	No research performed				

Residential Programs

Program Year	Type	NTGR		Justification	Method	Source
PY8 (6/1/15-5/31/16)*	Recommended	In-Unit: CFLs - 0.95 Faucet Aerator - 1.06 Showerhead - 1.00 Programmable T-Stat - 1.04	In-Unit: Faucet Aerators - 1.00 Showerhead - 0.94 Programmable T-Stat - 0.98	<ul style="list-style-type: none"> No market or program change; IL values exists. 	See PY6	PY6 Evaluation
PY9 (6/1/16-5/31/17)*	Recommended	In-Unit: CFLs - 0.95 Faucet Aerator - 1.06 Showerhead - 1.00 Programmable T-Stat - 1.04	In-Unit: Faucet Aerators - 1.00 Showerhead - 0.94 Programmable T-Stat - 0.98	<ul style="list-style-type: none"> No market or program change; IL values exists. 	See PY6	PY6 Evaluation

* Note: The Common Area Lighting and Major Measures program components moved to the IPA in PY7. As a result, those recommended values can be found in Section 3.1.2.

2.7 School Efficiency Kits

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 - PY5	No program					
PY6 (6/1/13-5/31/14)	Value Applied	CFLs - 0.71 Showerheads - 0.77 Faucet aerators - 0.46 Water heater temp adjustment - 0.46	N/A	<ul style="list-style-type: none"> Similar to IPA program for rural kits 	N/A - Deemed	Docket 12-0544 (IPA filing)
	NTG Research Results	No research conducted				
PY7 (6/1/14-5/31/15)	Value Applied	CFLs - 0.85 Showerheads - 0.95 Faucet aerators - 1.00 Hot water card thermometer - 1.00	Faucet aerator - 1.00 Showerhead - 0.95 Hot water card thermometer - 1.00	<ul style="list-style-type: none"> New Program: No Previous EM&V NTG exists: No 	Secondary research: 2013 unpublished Midwest utility's evaluation of a very similar program (participant survey, n=91).	Secondary research
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	CFLs - 0.83 Showerheads - 1.05 Faucet aerators - 1.04 Water heater Setback - 1.00	Showerheads - 1.05 Faucet aerators - 1.04 Water heater Setback - 1.00	<ul style="list-style-type: none"> New Program: No Previous EM&V NTG exists: No 	This value is based on the average of results from three similar programs (NIPSCO, Nicor Ryder 29, and Nicor Gas GPY1), and is consistent with ComEd values.	Secondary research
PY9 (6/1/16-5/31/17)	Recommended	CFLs - 0.83 Showerheads - 1.05 Faucet aerators - 1.04 Water heater Setback - 1.00	Showerheads 1.05 Faucet aerators 1.04 Water Heater Setback 1.00	<ul style="list-style-type: none"> New Program: No Previous EM&V NTG exists: No 	Water Heater Setback: Secondary research All others: Avg. of values from similar programs. See PY8.	Secondary research

3. IPA Programs

The evaluation team provides the following PY9 recommendations for AIC’s IPA programs. Note that we include recommendations for a number of programs that the IPA has not yet approved in Section 3.2.

3.1 Approved PY9 Programs

3.1.1 Lighting – CFLs and LEDs

Standard CFLs

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	1.0	N/A	Retrospective application	Customer self-report of CFL purchase rates of AIC customers and customers in non-program areas.	PY1 Evaluation
	NTG Research Results (available 10/09)	1.0	N/A			
PY2 (6/1/09-5/31/10)	Value Applied	0.83	N/A	Retrospective application	Average NTG results from two methods: 1) supplier self-report surveys from 16 suppliers representing 97% of CFL sales and 2) a multistate model based on 92 site visits of random Ameren Illinois customers using CFLs compared to site visits in areas without programs or programs with different levels of maturity.	PY2 Evaluation
	NTG Research Results (available 10/09)	0.83	N/A			
PY3 (6/1/10-5/31/11)	Value Applied	0.83	N/A	Application of most recent research available	See PY2	PY2 Evaluation
	NTG Research Results	No research conducted				
PY4 (6/1/11-5/31/12)	Value Applied	0.83	N/A	<ul style="list-style-type: none"> • Program or Market change: No • Previous EM&V NTG exists: Yes 	See PY2	PY2 Evaluation

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results	No research conducted				
PY5 (6/1/12-5/31/13)	Value Applied	0.83	N/A	<ul style="list-style-type: none"> • Program or Market change: No • Previous EM&V NTG exists: Yes 	See PY2	PY2 Evaluation
	NTG Research Results (available 2/6/2014)	0.47	N/A	<ul style="list-style-type: none"> • N/A 	Free-ridership estimated from in-store lighting customer interviews conducted in January 2013, and spillover estimated from 2012 in-home lighting study.	PY5 Evaluation
PY6 (6/1/13-5/31/14)	Value Applied	0.47	N/A	<ul style="list-style-type: none"> • Program or Market change: No • Previous EM&V NTG exists: Yes 	See PY5	PY5 Evaluation
	NTG Research Results (available - 12/23/14)	Std. CFL - 0.63 Spec. CFL - 0.72	N/A	N/A	Free-ridership estimated from in-store lighting customer interviews conducted in January 2014 (n=439), and spillover estimated from 2014 in-home lighting study (n=225).	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.47	N/A	Most recent value available for the program based on primary data	See PY5	PY5 Evaluation
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	0.63	N/A	Most recent value available for the program based on primary data	See PY6	PY6 Lighting Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.63	N/A	Most recent value available for the program based on primary data	See PY6	PY6 Lighting Evaluation

IPA Programs

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	0.72	N/A	<ul style="list-style-type: none"> Previous EM&V NTG exists: The most recent value available for the Lighting program is based on primary data. 	See PY6 Standard CFLs	PY6 Lighting Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.72	N/A	<ul style="list-style-type: none"> Previous EM&V NTG exists: The most recent value available for the Lighting program is based on primary data. 	See PY6 Standard CFLs	PY6 Lighting Evaluation

LEDs

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	0.73	N/A	Only Illinois specific value available	PY7 in-store intercept study conducted for ComEd	PY7 ComEd Lighting Evaluation
PY9 (6/1/16-5/31/17)	Recommended	Omnidirectional LEDs: 0.58 Directional LEDs: 0.60	N/A	Most recent Illinois specific value available	PY8 in-store intercept study conducted for ComEd	PY8 ComEd Lighting Evaluation

3.1.2 Behavior Modification

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY9 (6/1/16-5/31/17)	Recommended	N/A	N/A	<ul style="list-style-type: none"> Net savings determined through billing analysis 	Billing analysis	N/A

3.1.3 Multifamily Major Measures & Common Area Lighting

As noted in the Multifamily Program in Section 2.6, the major measures (MM) and common area lighting (CAL) measures moved to the IPA in PY7.

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY7 (6/1/14-5/31/15)	Value applied	CAL - 0.80 MM - 0.94	MM - 0.80	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous IL EM&V NTG exists: Yes 	Common Area from PY2; Major Measures from PY5.	PY2 & PY5 Multifamily Evaluations
	NTG research results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	CAL - 0.83 Insulation - 0.88 Air Sealing - 0.96	Insulation - 0.75 Air Sealing - 0.81	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous EM&V NTGR Exists 	See Multifamily PY5 for Major Measures & PY6 for Common Area Lighting	PY5 & PY6 Multifamily Evaluations
PY9 (6/1/16-5/31/17)	Recommended	CAL - 0.83 Insulation - 0.88 Air Sealing - 0.96	Insulation - 0.75 Air Sealing - 0.81	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous EM&V NTGR Exists 	See Multifamily PY5 for Major Measures & PY6 for Common Area Lighting	PY5 & PY6 Multifamily Evaluations

3.1.4 Moderate Income Kits

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	1.0	1.0	Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed
PY9 (6/1/16-5/31/17)	Recommended	1.0	1.0	Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed

3.1.5 Rural Efficiency Kits

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 – PY5	N/A - No program					
PY6 (6/1/13-5/31/14)	Value Applied	CFLs 0.71 Showerheads 0.77 Faucet aerators 0.46 Water heater temp adjustment 0.46	N/A	• IPA Program	N/A - Deemed	Docket 12-0544 (IPA filing)
	NTG Research Results	No research conducted				
PY7 (6/1/14-5/31/15)	Value Applied	CFLs - 0.85 Showerheads - 0.95 Faucet aerators - 1.00 Water heater temperature adj. - 1.00	N/A	Not a new Program, but no previous EM&V NTG exists	Secondary research: 2013 unpublished Midwest utility's evaluation of a very similar program (participant survey, n=91).	Secondary research
	NTG Research Results (available 1/7/2016)	14-watt CFLs – 0.63 23-watt CFLs – 0.54 1.75gpm Showerhead – 0.92 1.0gpm Bath F. Aerator – 1.08 2.0gpm Kitchen F. Aerator – 0.99 Hot Water Temp Card Therm. – 1.13	1.75gpm Showerhead – 0.83 1.0gpm Bath F. Aerator – 0.99 2.0gpm Kitchen F. Aerator – 0.90 Hot Water Temp Card Therm. – 1.04	N/A	Customer self-report method. 70 interviews completed from a population of 9,781 contacts.	PY7 Evaluation
PY8 (6/1/15-5/31/16)	Recommended	CFLs - 0.85 Showerheads - 0.95 Faucet aerators - 1.00 Water heater temp adj. - 1.00	N/A	Not a new Program, but no previous EM&V NTG exists	See PY7 value applied	Secondary research
PY9 (6/1/16-5/31/17)	Recommended	14-watt CFLs – 0.63 23-watt CFLs – 0.54 1.75gpm Showerhead – 0.92 1.0gpm Bath. Faucet Aerator – 1.08 2.0gpm Kitchen Faucet Aerator – 0.99 Hot Water Temp Card Therm. – 1.13	1.75gpm Showerhead – 0.83 1.0gpm Bath. Faucet Aerator – 0.99 2.0gpm Kitchen F. Aerator – 0.90 Hot Water Temp Card Therm. – 1.04	Most recent AIC values available	See PY7 NTG research results	PY7 Evaluation

3.1.6 Small Business Direct Install

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY6 (6/1/13-5/31/14)	Value Applied	0.90	N/A	IPA Program	AIC Planning Value	Deemed
	NTG Research Results (available 3/1/14)	0.89	N/A	N/A	Participant self-report conducted in PY6. Surveyed 70 contacts from a population of 445 participants.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.90	N/A	IPA Program	AIC Planning Value	Deemed
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Recommended	0.89	N/A	<ul style="list-style-type: none"> Previous EM&V NTGR Exists 	See PY6	PY6 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.89	N/A	<ul style="list-style-type: none"> Previous EM&V NTGR Exists 	See PY6	PY6 Evaluation

3.1.7 Demand-Controlled Ventilation

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	0.89	0.89	There is no viable secondary data for this measure. However, based on the team's knowledge of the measure, we believe the NTGR used in AIC's analysis is reasonable	N/A - Planning Value	Deemed
PY9 (6/1/16-5/31/17)	Recommended	0.89	0.89	There is no viable secondary data for this measure. However, based on the team's knowledge of the measure, we believe the NTGR used in AIC's analysis is reasonable	N/A - Planning Value	Deemed

3.1.8 Small Business Refrigeration

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY8 (6/1/15-5/31/16)	Recommended	0.86	N/A	Some previous EM&V NTGR results exists	Combined refrigeration NTG results from the PY4 and PY6 C&I Standard evaluation	PY4 and PY6 Standard Evaluations
PY9 (6/1/16-5/31/17)	Recommended	0.86	N/A	Some previous EM&V NTGR results exists	See PY8	PY4 and PY6 Evaluations

3.2 Pending IPA Programs

The following table summarizes the recommendations for pending IPA programs.

Sector	Program	Electric NTGR (all measures)	Source
C&I	360 Energy - Public HVAC Optimization	100%	EM&V Report: RCA Verification Program for New and Existing Residential and Commercial Air Conditioners by Aloha Systems
C&I	360 Energy - Private HVAC Optimization	100%	EM&V Report: RCA Verification Program for New and Existing Residential and Commercial Air Conditioners by Aloha Systems
C&I	GDS - Small Commercial Lit Signage	89%	Based on AIC PY6 Evaluation of SBDI
C&I	Nexant - HVAC Check-Up	100%	EM&V Report: RCA Verification Program for New and Existing Residential and Commercial Air Conditioners by Aloha Systems
C&I	Matrix - LED Linear Lighting for Small Facilities	89%	Based on AIC PY6 Evaluation of SBDI
C&I	Matrix - Demand Based Ventilation Fan Control for Facilities w/ High Occupancy Variability	89%	Based on AIC PY6 Evaluation of SBDI
RES	CLEAResult - Community-Based CFL Distribution	100%	Based on Ameren Missouri 2013 evaluation for similar program

In addition, the programs have received conditional approval pending finalization of the DCEO budget.

Sector	Program	Electric NTGR (all measures)	Source
C&I	GDS - Public Facility Engagement	98%	PY5 DCEO Evaluation of Illinois Energy Now Green Nozzle and Savings Through Efficient Products Programs
C&I	MEEA - Savings Through Efficient Products	98%	PY5 DCEO Evaluation of Illinois Energy Now Green Nozzle and Savings Through Efficient Products Programs

A. Past NTG Recommendations

Large C&I (PY7)

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY7 (6/1/14-5/31/15)	Recommended	0.72	0.72	<ul style="list-style-type: none"> New Program: Yes Previous EM&V NTG exists: No 	Developed NTGR based on existing values from large customers who participated in the C&I Custom Program in PY3 and PY5. Original values are based on participant self-report. Overall, the data are from 28 surveys completed from a population of 96. See the Custom section for additional details on the overall methodology.	PY3 and PY5 Custom evaluation data

All Electric Homes

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 - PY5	N/A - No program					
PY6 (6/1/13-5/31/14)	Value Applied	CFLs 0.88 Showerhead 0.82 Faucet Aerator 0.73 Water Heater Setback 1.00 Air sealing 1.00 (at audit) and 0.80 Insulation 0.77 HVAC Measures 0.90	N/A	<ul style="list-style-type: none"> IPA Program 	N/A - Deemed	Deemed
	NTG Research Results (available - 2/28/2014)	Single-Family Low-Impact 0.76 Single-Family High-Impact 1.02 Single-Family Overall 1.00 Multifamily High-Impact 1.00	N/A	N/A	Participant self-report. 22 surveys completed from population of 69.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Recommended	CFLs 0.88 Showerhead 0.82 Faucet Aerator 0.73 Water Heater Setback 1.00 Air sealing 1.00 (at audit) and 0.80 Insulation 0.77 HVAC Measures 0.90	N/A	<ul style="list-style-type: none"> IPA Program 	N/A - Deemed	Deemed

Past NTG Recommendations

Program Year	Type	NTGR		Justification	Method	Source
PY8 (6/1/15-5/31/16)	Recommended	Single-Family Low-Impact 0.76 Single-Family High-Impact 1.02 Single-Family Overall 1.00 Multifamily High-Impact 1.00	N/A	<ul style="list-style-type: none"> Updated to reflect primary research 	See PY6	PY6 Evaluation

Residential Efficient Products (PY1 - PY6)

Program Year	Type	NTGR		Justification	Method	Source
		Electric	Gas			
PY1 (6/1/08-5/31/09)	Value Applied	N/A	N/A	No program		
	NTG Research Results					
PY2 (6/1/09-5/31/10)	Value Applied	N/A	N/A	No program		
	NTG Research Results					
PY3 (6/1/10-5/31/11)	Value Applied	0.80	0.80	In PY3, this program was part of Lighting and Appliances, and NTG was deemed at 0.80 for appliances.	N/A - Deemed	Deemed
	NTG Research Results	N/A	N/A	No research conducted		
PY4 (6/1/11-5/31/12)	Value Applied	Room AC/Dehumidifier/Air Purifier 0.78 Thermostat—Elec Heat/Thermostat—AC/Power Strips/H.P. Water Heater 0.86	0.90	Retrospective application	Customer self-report. 190 surveys completed from a population of 12,117.	PY4 Evaluation
	NTG Research Results (available 12/12)	Room AC/Dehumidifier/Air Purifier 0.78 Thermostat—Elec Heat/Thermostat—AC/Power Strips/H.P. Water Heater 0.86	0.90			
PY5 (6/1/12-5/31/13)	Value Applied	Room AC/Dehumidifier/Air Purifier 0.78 Thermostat—Elec Heat/Thermostat—AC/Power Strips/H.P. Water Heater 0.86	0.90	<ul style="list-style-type: none"> Program change: No Market change: No New Program: No Previous IL EM&V NTG exists: Yes 	See PY4	PY4 Evaluation

Past NTG Recommendations

Program Year	Type	NTGR		Justification	Method	Source
	NTG Research Results	N/A		N/A	No research conducted	
PY6 (6/1/13-5/31/14)	Value Applied	Room AC/Dehumidifier/Air Purifier 0.78 Thermostat—Elec Heat/Thermostat—AC/Power Strips/H.P. Water Heater 0.86		<ul style="list-style-type: none"> • Program change: No • Market change: No • New Program: No • Previous IL EM&V NTG exists: Yes 	See PY4	PY4 Evaluation
	NTG Research Results	N/A		N/A	No research conducted	

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