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Ameren Illinois Company PY10 Net-to-Gross Ratios for the Energy Efficiency Portfolio (8-103/8-104)

FINAL

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1.1 C&I Custom

Program Year	Type	NT	GR	Justification	Method	Source	
Program rear	Туре	Electric	Gas	Justilication	Method	Source	
PY1	Value Applied	0.77	N/A		Customer self-report. 14 surveys completed	PY1	
(6/1/08-5/31/09)	NTG Research Results (available 11/30/09)	0.77	N/A	application	from a population of 34. Basic method.	Evaluation	
	Value Applied	0.69	N/A		Customer self-report. 56 surveys completed from a population of 146. Enhanced method.		
PY2 (6/1/09-5/31/10)	NTG Research Results (available 1/28/11)	0.69	N/A	Retrospective application	Trade allies and key account executives called for 7 participants and their responses were factored in to the customer free ridership calculation.	PY2 Evaluation	
PY3 (6/1/10-5/31/11)	Value Applied	0.75	N/A		Electric: Customer self-report. 47 surveys completed from a population of 125.	PY3 Evaluation	
	NTG Research Results (available 12/19/11)	0.75	N/A	Retrospective application	Enhanced method. Trade allies and key account executives called for 5 participants and their responses were factored in to the customer free ridership calculation.		
PY4 (6/1/11-5/31/12)	Value Applied	0.69	0.69	 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 perform	ned				
PY5 (6/1/12-5/31/13)	Value Applied	0.75	0.81	Program or Market change: NoNew Program: No	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	

Dungung Voor	Time	NTO	GR	Justification	Method	Source
Program Year	Туре	Electric	Gas	Justinication	Metriod	Source
				Previous EM&V NTG exists: Yes		
	NTG Research Results (available 2/6/2014)	0.74	0.74	N/A	Customer self-report. 41 surveys completed from a population of 82. Enhanced method, however no respondents required interviews with trade allies or key account executives.	PY5 Evaluation
PY6 (6/1/13-5/31/14)	Value Applied	0.75	0.81	 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	 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 perform	ned	·		•

Program Year	Typo	NTGR		Justification	Method	Source
Program rear	Туре	Electric	Gas	Justilication	Method	Source
PY8 (6/1/15-5/31/16)	Value Applied	0.75	0.83	 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 1.7 for non-participant SO.	PY5 and PY6 Evaluations
	NTG Research Results	Core Custom: 0.82 New Construction Lighting: 0.82	Core Custom: 0.94 New Construction Lighting: 0.94	N/A	Customer self-report. 36 completed surveys from a population of 105 participants. Enhanced method, however no respondents required interviews with trade allies or key account executives.	PY8 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	0.74	0.83	 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 1.7 for non-participant SO.	PY5 and PY6 Evaluations
PY10 (1/1/18- 12/31/18)	Recommended	Core Custom: 0.82 New Construction Lighting: 0.82	Core Custom: 0.94 New Construction Lighting: 0.94	Most recent AIC specific value available	See PY8 Evaluation; See Section 1.7 for non-participant SO.	PY8 Evaluation

1.2 C&I Retro-Commissioning

Program Year	Туре		NTGR	Justification	Method	Source	
Fiografii fear	Туре	Electric	Gas	Justilication	Metriou	Source	
PY1	Value Applied	1.0	N/A	Pilot with only 1 project.	Deemed	PY1 Evaluation	
(6/1/08-5/31/09)	NTG Research Results	N/A	N/A	No research conducted			
	Value Applied	0.8	N/A	Retrospective application	AIC planning Value	PY2 Evaluation	
PY2 (6/1/09-5/31/10)	NTG Research Results	N/A	N/A	No research conducted			
PY3	Value Applied	0.58	N/A	Detroppeding application	Customer self-report. 17 surveys completed from a	PY3 Evaluation	
(6/1/10-5/31/11)	NTG Research Results (available 04/01/12)	0.58	N/A	Retrospective application	population of 18 participant contacts. Basic method.	F13 Evaluation	
	Value Applied	0.95	0.95		Customer self-report. 14 surveys completed from a		
PY4 (6/1/11-5/31/12)	NTG Research Results (available 01/24/13)	0.95	0.95	Retrospective application	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	
PY5 (6/1/12-5/31/13)	Value Applied	0.95	0.95	 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	

Program Year	Tuna		NTGR	Justification	Method	Source
Program rear	Туре	Electric	Gas	Justilication	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	 Program change: No Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY4; See Section 1.6 for electric non-participant SO.	PY4 Evaluation
(3, 2, 23 3, 32, 2 1,	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 1.6 for electric non-participant SO.	PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	0.96	0.95	 Program change: No Market change: No New Program: No Previous EM&V NTG exists: Yes 	See PY4; See Section 1.6 for electric non-participant SO.	PY4 Evaluation
	NTG Research Results	No resear	ch performed			
PY8 (6/1/15-5/31/16)	Value Applied	0.92	0.91	Previous EM&V NTG exists: Yes	See PY6 for FR and participant S0; See Section 1.6 for non-participant S0.	PY6 Evaluation
	NTG Research Results	No resear	ch performed			
PY9 (6/1/16-5/31/17)	Recommended	0.91	0.91	Previous EM&V NTG exists: Yes	See PY6 for FR and participant S0; See Section 1.6 for electric non-participant S0 (updated in PY7).	PY6 Evaluation
PY10 (1/1/18-12/31/18)	Recommended	0.91	0.91	Previous EM&V NTG exists: Yes	See PY6 for FR and participant S0; See Section 1.7 for electric non-participant S0 (updated in PY7).	PY6 Evaluation

1.3 C&I 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 1.3.1. 1.3.2, 1.3.3, and 1.3.4.

1.3.1 Core Standard Program

Duaguana Vaau	Time	N	TGR	lustification	Mathad	Source	
Program Year	Туре	Electric	Gas	Justification	Method	Source	
	Value Applied	0.62	N/A		Customer self-report. 17		
PY1 (6/1/08-5/31/09)	NTG Research Results (available 11/30/09)	0.62	N/A	Retrospective application	surveys completed from a population of 34. Basic method.	PY1 Evaluation	
	Value Applied	0.78 (program-level)	N/A		Customer self-report. 80		
PY2 (6/1/09-5/31/10)	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	Retrospective application	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	
	Value Applied	0.75 (program-level) DI Aerators - 0.76	N/A		Customer self-report. 178 Standard surveys		
PY3 (6/1/10-5/31/11)	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	Retrospective application	completed from a population of 913. Enhanced method. Trade allies and key account executives called for 3 participants.	PY3 Evaluation	
	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	
PY4 (6/1/11-5/31/12)	NTG Research Results	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	N/A	Customer self-report. 195 Standard surveys completed from a population of 933 for Core. Enhanced method utilizing 2 interviews with	PY4 Evaluation	

					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				
	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
PY7 (6/1/14-5/31/15)	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 end-use from population of 204 contacts.	PY7 Evaluation
PY8 (6/1/15-5/31/16)	Value Applied	Lighting - 0.78 HVAC - 0.44 Motors - 0.81	Steam Trap - 0.90 HVAC - 0.80 Specialty - 0.90	Previous EM&V NTG exists	PY5 and PY4 values with NPS0 included.	PY4 and PY5 Evaluations

		Specialty - 0.83				
	NTG Research Results	No research conducted				
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	See PY7; See Section 1.7 for non-participant SO (updated in PY7).	PY7 Evaluation
PY10 (1/1/18-12/31/18)	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	See PY7; See Section 1.7 for non-participant SO (updated in PY7).	PY7 Evaluation

1.3.2 Online Store

Brodram Voor	Tyrno	NI	GR	Justification	Method	Source
Program Year	Туре	Electric	Gas	Justification	Method	
PY1 (6/1/08-5/31/09)	Value Applied	N/A - Not offered				
PY2	Value Applied	0.80	N/A	Initial launch and	Deemed planning	
(6/1/09-5/31/10)	NTG Research Results (available 11/30/09)	0.80	N/A	limited participation	value	AIC
	Value Applied	0.64	N/A		Customer self-report.	
PY3 (6/1/10-5/31/11)	NTG Research Results (available 11/30/09)	0.64	N/A	Retrospective application	88 surveys completed from a population of 17,596. Basic method.	PY3 Evaluation
	Value Applied	0.80	N/A	No program or market change	See PY2	PY2 Evaluation
PY4 (6/1/11-5/31/12)	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	PY4 Evaluation
PY5 (6/1/12-5/31/13)	Value Applied	0.64	N/A	No program or market change	See PY3	PY3 Evaluation
(0/1/12-5/31/13)	NTG Research Results	No research conducted				

Program Year	Typo	NT	GR	Justification	Method	Source		
riogialli feai	Туре	Electric	Gas	Justilication	Method	Source		
PY6 (6/1/13-5/31/14)	Value Applied	0.83	N/A	Updated IL value available	See PY4	PY4 Evaluation		
(0/1/13-3/31/14)	NTG Research Results	No research conducted						
PY7	Value Applied	0.83	N/A	No program or market change	See PY4	PY4 Evaluation		
(6/1/14-5/31/15)	NTG Research Results	No research conducted						
PY8	Value Applied	0.83	N/A	Previous EM&V NTG exists	See PY4	PY4 Evaluation		
(6/1/15-5/31/16)	NTG Research Results	0.83	N/A	N/A	Customer self-report. 131 surveys from a population of 1,333.	PY8 Evaluation		
PY9 (6/1/16-5/31/17)	Recommended	0.83	N/A	Previous EM&V NTG exists	See PY4	PY4 Evaluation		
PY10 (1/1/18-12/31/18)	Recommended	0.83	N/A	Most recent AIC specific value	See PY8 and Section 1.7 for non-participant SO (updated in PY7).	PY8 Evaluation		

1.3.3 Green Nozzles

Duedrem Veer	Turna	N'	TGR	luctification	Motherd	Source			
Program Year	Туре	Electric	Gas	Justification	Method	Source			
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	/A – Not offered						
PY3 (6/1/09-5/31/10)	Value Applied	N/A - Not offered							
_	Value Applied	0.92	0.89		Customer self-report.				
PY4 (6/1/11-5/31/12)	NTG Research Results	0.92	0.89	Retrospective application	101 surveys from a population of 514 for Green Nozzles	PY4 Evaluation			
PY5	Value Applied	0.92	0.89	Updated IL value available	See PY4	PY4 Evaluation			
(6/1/12-5/31/13)	NTG Research Results	No research conducted	d*						

Program Year	Туре	NT	GR	Justification	Method	Source			
Fiografii fear	туре	Electric	Gas	Justilication	Metriou	Source			
PY6	Value Applied	0.92	0.89	No program or market change	See PY4	PY4 Evaluation			
(6/1/13-5/31/14)	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			
(0/1/14-5/51/15)	NTG Research Results	No research conducted*							
PY8	Value Applied	0.92	0.89	Previous EM&V NTG exists	See PY4	PY4 Evaluation			
(6/1/15-5/31/16)	NTG Research Results	No research conducted	No research conducted*						
PY9 (6/1/16-5/31/17)	Recommended	0.92	0.89	Previous EM&V NTG exists	See PY4	PY4 Evaluation			
PY10 (1/1/18-12/31/18)	Recommended	0.92	0.89	Previous EM&V NTG exists	See PY4	PY4 Evaluation			

^{*} Note: Research has not been conducted due to the very limited activity within this program component.

1.3.4 Midstream Lighting (Instant Incentives)

Program	Туре	NTGR		Justification	Method	Source
Year	туре	Electric	Gas	Justilication	Method	Source
PY8 (6/1/15-	Value Applied	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
5/31/16)	NTG Research Results	77% (Linear LEDs, Specialty LEDs, Standard LEDs, CFLs, and Occupancy Sensors)	N/A	N/A	Customer self-report approach based on participant telephone surveys with 27 participants out a population of 273.	PY8 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
PY10	Recommended	77% (Linear LEDs, Specialty LEDs,	N/A	Most recent AIC specific value	See PY8 Evaluation	

Program Type		NTGR		Justification	Method	Source	
Year	Туре	Electric	Gas	Justilication	Metriou	Source	
(1/1/18- 12/31/18)		Standard LEDs, CFLs, and Occupancy Sensors)				PY8 Evaluation	

1.4 Commercial New Construction

Program Year	Туре	NTGR		Justification	Method	Source	
	.,,,,	Electric	Gas	Justinisa tion	mourou		
PY10 (1/1/18-12/31/18)	Recommended	0.60	0.60	Best Available Secondary Data	Secondary research	PY8 ComEd BNC Research	

1.5 Combined Heat and Power

Program Year	Type	NT	GR	Justification	Method	Source
Fiografii Tear	Туре	Electric	Gas	Justilication	Method	Source
PY8 (6/1/15- 5/31/16)	Recommended	N/A - Project Specific	N/A - Project Specific	New Program: YesPrevious 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	New Program: NoPrevious 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
PY10 (1/1/18- 12/31/18)	Recommended	N/A - Project Specific	N/A - Project Specific	New Program: NoPrevious 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

1.6 Small Business

1.6.1 Small Business Direct Install

Program Year	Туре	N	GR	Justification	Method	Source			
riogiaili leai	Турс	Electric	Gas	Justinication	Method	Source			
	Value Applied	0.90	N/A	IPA Program	AIC Planning Value	Deemed			
PY6 (6/1/13-5/31/14)	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	Value Applied	0.90	N/A	IPA Program	AIC Planning Value	Deemed			
(6/1/14-5/31/15)	NTG Research Results	No research conducted							
	Value Applied	0.89	N/A	Previous EM&V NTGR Exists	See PY6	PY6 Evaluation			
PY8 (6/1/15-5/31/16)	NTG Research Results (available 12/1/16)	0.96	N/A	N/A	Customer self-report. 77 completed interviews out of a population of 649 participants.	PY8 Evaluation			
PY9 (6/1/16-5/31/17)	Recommended	0.89	N/A	Previous EM&V NTGR Exists	See PY6	PY6 Evaluation			
PY10 (1/1/18- 12/31/18)	Recommended	0.96	0.96	Most recent AIC specific value available	See PY8	PY8 Evaluation			

1.6.2 Small Business Refrigeration

Program Year	Туре	NTGR		Justification	Method	Source	
r rogram roan	.,,,,	Electric	Gas	J acamounton	modios.	- 5541.55	
PY8 (6/1/15-5/31/16)	Value Applied	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	
(3, 2, 23 3, 23, 25,	NTG Research Results	No research	conducted				
PY9 (6/1/16-5/31/17)	Recommended	0.86	N/A	Some previous EM&V NTGR results exists	See PY8	PY4 and PY6 Standard Evaluations	
PY10 (1/1/18-12/31/18)	Recommended	0.86	0.86	Some previous EM&V NTGR results exists	See PY8	PY4 and PY6 Standard Evaluations	

1.6.3 Exterior Lighting

Program Year			GR			
	Туре	Electric	Gas	Justification	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	0.96	N/A	Based on AIC-specific values for a similar program	See SBDI PY8 NTG research	PY8 SBDI Evaluation

1.6.4 Small Business Linear LED Lighting

Program Year	_	NT	GR			
	Туре	Electric	Gas	Justification	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	0.96	N/A	Based on AIC-specific values for a similar program	See SBDI PY8 NTG research	PY8 SBDI Evaluation

1.6.5 Small Business Lit Signage

Program Year	_	NT	GR		Method	Source
	Туре	Electric	Gas	Justification		
PY10 (1/1/18-12/31/18)	Recommended	0.96	N/A	Based on AIC-specific values for a similar program	See SBDI PY8 NTG research	PY8 SBDI Evaluation

1.6.6 Small Business Whole Building

Program Year	Туре	NT	GR				
		Electric	Gas	Justification	Method	Source	
PY10 (1/1/18-12/31/18)	Recommended	Refrigeration Measures - 0.86 All Other Measures - 0.96	Refrigeration Measures - 0.86 All Other Measures - 0.96	Based on AIC-specific values	Combined refrigeration NTG results from the PY4 and PY6 C&I Standard evaluation, as well as PY8 SBDI evaluation	PY8 SBDI Evaluation & PY4 and PY6 Standard Evaluations	

1.6.7 Private Sector Enhanced HVAC Optimization

Program Year	Туре	NTGR				
		Electric	Gas	Justification	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	0.96	0.96	Based on AIC-specific values for a similar program	See SBDI PY8 NTG research	PY8 SBDI Evaluation

1.6.8 Public Sector Enhanced HVAC Optimization

Program Year	_	NTGR				
	Туре	Electric	Gas	Justification	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	0.96	0.96	Based on AIC-specific values for a similar program	See SBDI PY8 NTG research	PY8 SBDI Evaluation

1.6.9 Demand-Controlled Ventilation

Program Year	Туре	NT	GR	Justification	Method	Source	
Flogram Tear	туре	Electric	Gas	Justilication	Metriou	Source	
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 AlC'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 AlC's analysis is reasonable	N/A – Planning Value	Deemed	
PY10 (1/1/18-12/31/18)	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 AlC's analysis is reasonable	N/A – Planning Value	Deemed	

1.7 Portfolio-Level Non-Participant Spillover

Program Year	Туре	Non- Participant Spillover	Justification	Method	Source	
PY7 (6/1/14- 5/31/15)	Value Applied Electric - 0.01 14-		Based on IL specific primary data collection	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. 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.	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.	PY7 Evaluation	
PY8 (6/1/15-	Value Applied	Electric - 0.01	Based on IL specific primary data collection	See PY7 value applied	PY5 and PY3 Evaluations	
5/31/16)	NTR Research Results	No research performed				
PY9 (6/1/16- 5/31/17)	Recommended	Electric - 0.00	Based on IL specific primary data collection	See PY7 NTG research results	PY7 Evaluation	
PY10 (1/1/18- 12/31/18)	Recommended	Electric - 0.00	Based on IL specific primary data collection	See PY7 NTG research results	PY7 Evaluation	

2.1 Appliance Recycling

Program Year	Type	NTGR		Justification	Method	Source		
Program rear	Туре	Electric	Gas	Justilication	Method	Source		
PY1	Value Applied	Refrigerator 0.51 Freezer 0.53	N/A		Customer self-report. 93 surveys completed	5)/4.5		
(6/1/08-5/31/09)	NTG Research Results (available 09/2009)	Refrigerator 0.51 Freezer 0.53	N/A	Retrospective application	from a population of 2,876.	PY1 Evaluation		
PY2	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A		Customer self-report. 159 surveys completed	DVO Eurlusting		
(6/1/09-5/31/10)	NTG Research Results (available 9/2010)	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	Retrospective application	from a population of 11,211.	PY2 Evaluation		
PY3 (6/1/10-5/31/11)	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	 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	No research conducted				
PY4	Value Applied	Refrigerator 0.64 Freezer 0.65 Room Air Conditioner 1.0	N/A	Retrospective application	Customer self-report. 141 surveys completed	PY4 Evaluation not including induced		
(6/1/11-5/31/12)	NTG Research Results (available 02/2013)	Refrigerator 0.64 Freezer 0.65 Room Air Conditioner 1.0	N/A		from a population of 14,232.	replacement		
PY5 (6/1/12-5/31/13)	Value Applied	Refrigerator 0.79 Freezer 0.82 Room Air Conditioner 1.0	N/A	 Program change: No Market change: No New Program: No Previous IL EM&V NTG exists: Yes 	See PY2	PY2 Evaluation		

	_	NTGR				Cauras	
Program Year	Туре	Electric	Gas	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	 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	
(0, 1, 10 0, 01, 11)	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	 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)	Value Applied	Refrigerator 0.52 Freezer 0.62 Room Air Conditioner 0.50	N/A	 Program change: No Market change: No New Program: No Previous IL EM&V NTG exists: Yes 	See PY6. AC units from PY5 ComEd evaluation	PY6 Evaluation & PY5 ComEd Evaluation	
	NTG Research Results	No research conducted					
PY9 (6/1/16-5/31/17)	Recommended	Refrigerator 0.52 Freezer 0.62	N/A	 Program change: No Market change: No New Program: No Previous IL EM&V NTG exists: Yes 	See PY6 NTG research	PY6 Evaluation	
PY10 (1/1/18-12/31/18)	Recommended	Refrigerator 0.52 Freezer 0.62	N/A	Program change: NoMarket change: NoPrevious IL EM&V NTG exists: Yes	See PY6 NTG research	PY6 Evaluation	

2.2 Behavioral Modification

Program Year	Туре	NTGI	₹	Justification	Method	Source
1105.41111041	1300	Electric	Gas	Justinoution	modiod	Godioo
PY1	No Program					
PY2	No Program					
PY3 (6/1/10-5/31/11)	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY4 (6/1/11-5/31/12	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY5 (6/1/12-5/31/13)	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY6 (6/1/13-5/31/14)	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY7 (6/1/14-5/31/15)	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY8 (6/1/15-5/31/16)	Value Applied	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY9 (6/1/16-5/31/17)	Recommended	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A
PY10 (1/1/18-12/31/18)	Recommended	N/A	N/A	Net savings determined through billing analysis	Billing analysis	N/A

2.3 Community LED Distribution

Program Year	Туре	NTGR				
		Electric	Gas	Justification	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	1.00	N/A	Best available secondary data	N/A – Planning Value	2013 Ameren Missouri Evaluation

2.4 Energy Efficiency Kits

2.4.1 School Efficiency Kits

Program Year	Tyne		NTGR	Justification	Method	Source	
Fiografii Tear	Туре	Electric	Gas	Justilication	Method	Source	
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	Similar to IPA program for rural kits	N/A - Deemed	Docket 12-0544 (IPA filing)	
3, 32, 21,	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	New Program: NoPrevious 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)	Value Applied	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	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	
	NTG Research Results	No research conducted					
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	New Program: NoPrevious EM&V NTG exists: No	Water Heater Setback: Secondary research All others: Avg. of values from similar programs. See PY8.	Secondary research	

Program Year	Туре	NTGR			Justification	Method	Source
		Electric	Gas	Justilication		Method	Source
PY10 (1/1/18- 12/31/18)	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	•	New Program: No Previous EM&V NTG	Water Heater Setback: Secondary research All others: Avg. of values from similar programs. See PY8.	Secondary research

2.4.2 Moderate Income Kits

Program Year	Туре	NTGR		Justification	Method	Source	
1105.4111 1041	1,700	Electric	Gas	Justinication	motriou		
PY8 (6/1/15-5/31/16)	Value Applied	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	
PY10 (1/1/18-12/31/18)	Recommended	1.0	1.0	Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed	

2.4.3 Rural Efficiency Kits

Program		NTG	SR ST	leastiff and an	B. G. Aller J.	C				
Year	Туре	Electric	Gas	Justification	Method	Source				
PY1 - PY5	N/A - No program									
PY6 (6/1/13-	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)				
5/31/14)	NTG Research Results	No research conducted								
PY7 (6/1/14-	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				
5/31/15)	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)	Value Applied	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				
3/31/10)	NTG Research Results	No research conducted								
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				
PY10 (1/1/18- 12/31/18)	Recommended	14-watt CFLs - 0.63 23-watt CFLs - 0.54 1.75gpm Showerhead - 0.92	1.75gpm Showerhead – 0.83 1.0gpm Bath. Faucet Aerator – 0.99 2.0gpm Kitchen F. Aerator – 0.90	Most recent AIC values available	See PY7 NTG research results	PY7 Evaluation				

Prograr	1 Type	NTG	Justification	Method	Source	
Year	Electric	Gas	Justification	Method	Source	
		1.0gpm Bath. Faucet Aerator – 1.08 2.0gpm Kitchen Faucet Aerator – 0.99 Hot Water Temp Card Therm. – 1.13	·			

2.4.4 Elementary Education Kits

Program Year	Туре	NTG	Justification	Method	Source	
		Electric	Gas	Justinication	Method	Source
PY10 (1/1/18-12/31/18)	Recommended	Showerheads - 1.05 Faucet Aerators - 1.04	Showerheads – 1.05 Faucet Aerators – 1.04 Water Heater Setback – 1.00 Other Non-Lighting Measures – 1.00	specific	Avg. of Values from Similar Programs (SAG consensus values for PY9 School Kits Program)	Secondary research

2.4.5 Online Assessment Kits

Program Year	Туре	NTGR		Justification	Method	Source
		Electric	Gas	Justinication	Method	Source
PY10 (1/1/18- 12/31/18)	Recommended	LEDs – 0.70 Other Non-Lighting Measures – 0.90	Other Non- Lighting Measures – 0.90	No Illinois-specific values available for this delivery mode. This value is Illinois-specific, and unpublished evaluations of similar programs for another Midwestern utility indicate that this is a reasonable assumption.	Secondary research: Evaluation of an Online Kits Program offered by another Midwestern utility	Secondary research

2.4.6 LED Awareness Kits

Program Year	Туре	NTGR		Justification	Method	Source
		Electric	Gas	Justilication	Method	Source
PY10 (1/1/18- 12/31/18)	Recommended	LEDs - 0.85	N/A	Delivery mode of this program is new, but is similar to a combination of existing programs	Avg. of values from similar programs	Combination of Rural Kits, School Kits, CFL Distribution, and Moderate Income Kits values

2.5 **ENERGY STAR New Homes**

Due due ve Ve eu	Tune	NT	GR	luctification	Martha d			
Program Year	Туре	Electric	Gas	Justification	Method	Source		
PY1	Value Applied	N/A	N/A	No program				
(6/1/08-5/31/09)	NTG Research Results	IN/ A	IN/ A	No program				
PY2	Value Applied	N/A	N/A	No program				
(6/1/09-5/31/10)	NTG Research Results			No program				
PY3 (6/1/10-5/31/11)	Value Applied	0.80	0.80	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	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	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	Value Applied	0.80	0.80	Program is a small percentage of the portfolio and does not justify EM&V dollars to estimate NTG.	N/A - Deemed	Deemed		
(6/1/13-5/31/14)	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	Program is a small percentage of the portfolio	N/A - Deemed	Deemed		

Program Year	Type	NT	GR	Justification	Method	Source
Flogram Tear	Туре	Electric	Gas	Justilleation	Methou	Source
				and updated AIC specific value not yet available.		
NTG Research Results No research conducted						
PY8	Value Applied	Overall - 0.42 SF Only - 1.00	1.01	Most recent AIC specific value available	See PY6 NTG research results	PY6 Evaluation
(6/1/15-5/31/16)	NTG Research Results	SF Homes -0.57	SF Homes -0.54	N/A	Customer self-report. Interviews with 13 builders out of 72 builders who participated in the program.	PY8 Evaluation
PY9 (6/1/16-5/31/17)	Recommended	SF Only - 1.00	1.01	Most recent AIC specific value available	See PY8 NTG research results	PY6 Evaluation
PY10 (1/1/18- 12/31/18)	Recommended	SF Homes -0.57	SF Homes -0.54	Most recent AIC specific value available	See PY8 NTG research results	PY6 Evaluation

2.6 Home Efficiency Income Qualified

Dragram Vaar	Tyro	NT	GR	Justification	Method	Source		
Program Year	Туре	Electric	Gas	Justilication	Wethou	Source		
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	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		1	1		
PY5 (6/1/12-5/31/13)	Value Applied	1.0	1.0	Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed		
(0/1/12-5/51/13)	NTG Research Results	No research	No research performed					
PY6 (6/1/13-5/31/14)	Value Applied	1.0	1.0	Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed		
(0/1/13-5/31/14)	NTG Research Results	No research performed						
PY7 (6/1/14-5/31/15)	Value Applied	1.0	1.0	Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed		
(0, 2, 2 : 0, 02, 20)	NTG Research Results	No research	performed					
PY8 (6/1/15-5/31/16)	Value Applied	1.0	1.0	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					
PY9 (6/1/16-5/31/17)	Recommended	1.0	1.0	Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed		
PY10 (1/1/18-12/31/18)	Recommended	1.0	1.0	Other: Consensus reached between ICC and AIC that program design merits NTGR of 1.0	N/A - Deemed	Deemed		

2.7 Home Efficiency Standard

Program Year	Туре	Nī	GR	Justification	Method	Source
Fiografii Teal	Турс	Electric	Gas	Justilication	Methou	Source
PY1 (6/1/08-5/31/09)	Value Applied	0.76	N/A	Retrospective application	N/A - Deemed Value	Deemed
(0/1/08-3/31/09)	NTG Research Results	N/A	N/A	No research condu	cted	
PY2	Value Applied	Insulation – 0.63 Air Sealing – 1.00 CFLs – 0.75 Aerators – 0.99 Showerheads – 0.97 Pipe Wrap – 0.93	N/A	Customer self-report for CFLs, faucet aerators, low flow showerheads, pipe wrap; 72 surveys		PY2 Evaluation
(6/1/09-5/31/10)	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	application	completed from a population of 2,987. Secondary research for insulation and air sealing.	PTZ EVAIUATION
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 spillove		nclude 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 – 0.87* ESHP – 0.80	Retrospective application	Customer self-report. 201 surveys completed from a population of 4,627. *The thermostat value is based on a	PY4 Evaluation

Duaguana Vaau	Туре	N'	TGR	Justification	Mathad	Course
Program Year		Electric	Gas	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 – 0.87		deemed planning assumption given that there were insufficient participants to develop a new value.	
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 - 0.87 ESHP - 0.80	 No program change or market change Previous IL EM&V NTG exists: Yes 	See PY4	PY4 Evaluation
	NTG Research Results	No research performed				
PY6	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 - 0.87	No program or market change	See PY4	PY4 Evaluation
(6/1/13-5/31/14)	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 – 0.87	Most recent AIC value available	See PY4	PY4 Evaluation
	NTG Research Results	No research conducted				
PY8 (6/1/15-5/31/16)	Value Applied	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

Program Year	Туре	N	TGR	Justification	Method	Source
Trogram rear		Electric	Gas	Justinication	Method	Source
	NTG Research Results	No research conducted				
PY9 (6/1/16-5/31/17)	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
PY10 (1/1/18-12/31/18)	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

2.8 HVAC

Dungung Voor	Time	NTGR		Justification	Method	Source
Program Year	Туре	Electric	Gas	Justification	Wethod	Source
PY1 (6/1/08-5/31/09)	N/A - No program					
PY2	Value Applied	0.63	0.49	Retrospective application	Secondary research	Secondary research
(6/1/09-5/31/10)	NTG Research Results	No research conducted				
	Value Applied	0.59	Furnaces - 1.01 Boilers - 1.02		Customer self- report for FR and	
PY3 (6/1/10-5/31/11)	NTG Research Results (available 2/2012)	0.59	Furnaces - 1.01 Boilers - 1.02	Retrospective application	S0: 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
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 cond	ducted	
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 (rb)="" -="" 0.69<br="" 16="" cac="" hp="">SEER 16+ CAC/HP (RB) - 0.76 <seer (er)="" -="" 0.57<="" 16="" cac="" hp="" td=""><td>97% Furnace or Boiler - 0.64 95% Furnace - 0.52</td><td>N/A</td><td>Participant customer surveys for free ridership</td><td>PY5 Evaluation</td></seer></seer>	97% Furnace or Boiler - 0.64 95% Furnace - 0.52	N/A	Participant customer surveys for free ridership	PY5 Evaluation

Due due ve Veeu	T	NTGR		luchići opti ou	Mathad	Carrian
Program Year	Туре	Electric	Gas	Justification	Method	Source
		SEER 16+ CAC/HP (ER) - 0.82 ECM - 0.70			and participant spillover (n=210), and a non- participant contractor survey (n=65) for non- participant spillover.	
PY6 (6/1/13-5/31/14)	Value Applied	0.59	Furnace 0.77 Boiler 0.79	Program change: Efficiency levels and incentive amounts have changed; gas measures dropped	See PY3	PY3 Evaluation 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.	PY5/PY6 Evaluation
PY7 (6/1/14-5/31/15)	Value Applied	<pre><seer (er)="" (rb)="" -="" 0.53="" 0.65="" 0.66<="" 0.72="" 0.78="" 16="" 16+="" <seer="" cac="" ecm="" hp="" pre="" seer=""></seer></pre>	N/A	Most recent values available for the program based on primary data.	See PY5	PY5 Evaluation*
	NTG Research Results	No research conducted	•		·	

Program Year	Type	NTGR		Justification	Method	Source			
Program rear	Туре	Electric	Gas	Justilication	Method	Source			
PY8 (6/1/15-5/31/16)	Value Applied	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			
	NTG Research Results	No research conducted							
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			
PY10 (1/1/18- 12/31/18)	Recommended	SEER < 16 CAC/HP (RB) [Ducted] 0.60 SEER 16+ CAC/HP (RB) [Ducted] 0.64 SEER < 16 CAC/HP (ER) [Ducted] 0.63 SEER 16+ CAC/HP (ER) [Ducted] 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%.

2.9 Lighting

2.9.1 CFLs

	_	NTGR					
Program Year	Туре	Electric	Gas	Justification	Method	Source	
PY1	Value Applied	1.0	N/A	Retrospective	Customer self-report of CFL purchase rates of	5)/4 5	
(6/1/08- 5/31/09)	NTG Research Results (available 10/09)	1.0	N/A	application	AIC customers and customers in non-program areas.	PY1 Evaluation	
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	PY2 Evaluation	
	NTG Research Results (available 10/09)	0.83	N/A		programs or programs with different levels of maturity.		
PY3 (6/1/10- 5/31/11)	Value Applied	0.83	N/A	Application of most recent research available	See PY2	PY2 Evaluation	
3/31/11)	NTG Research Results	No research conduc	ted				
PY4 (6/1/11- 5/31/12)	Value Applied	0.83	N/A	 Program or Market change: No Previous EM&V NTG exists: Yes 	Coo DV2		
	NTG Research Results	No research conduc	ted				
PY5 (6/1/12- 5/31/13)	Value Applied	0.83	N/A	 Program or Market change: No Previous EM&V NTG exists: Yes 	See PY2	PY2 Evaluation	

	_	NTGR					
Program Year	Туре	Electric	Gas	Justification	Method	Source	
	NTG Research Results (available 2/6/2014)	0.47	N/A	• N/A	Free-ridership estimated from in-store lighting customer interviews conducted in January 2013, and spillover estimated from 2012 inhome lighting study.	PY5 Evaluation	
PY6 (6/1/13-	Value Applied	0.47	N/A	Program or Market change: NoPrevious EM&V NTG exists: Yes	See PY5	PY5 Evaluation	
5/31/14)	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 conduc	No research conducted				
PY8 (6/1/15-	Value Applied	Std. CFL - 0.63 Spec. CFL - 0.72	N/A	Most recent value available for the program based on primary data	See PY6	PY6 Evaluation	
5/31/16)	NTG Research Results (available 11/1/2016)	All CFLs - 0.63	N/A	N/A	Free-ridership and spillover estimated from instore lighting customer interviews (n=853).	PY8 Evaluation	
PY9 (6/1/16- 5/31/17)	Recommended	Std. CFL - 0.63 Spec. CFL - 0.72	N/A	Most recent value available for the program based on primary data	See PY6	PY6 Evaluation	
PY10 (1/1/18- 12/31/18)	Recommended	All CFLs - 0.63	N/A	Most recent AIC specific value available	See PY8	PY8 Evaluation	

2.9.2 LEDs

Program	Туре	NTGR		Justification	Method	Source	
Year	1,00	Electric Gas		Justinoution	moulou		
PY8 (6/1/15-	Value Applied	0.73	N/A	Only Illinois specific value available	PY7 in-store intercept study conducted for ComEd	PY7 ComEd Lighting Evaluation	
5/31/16)	NTG Research Results	All LEDs - 0.70	N/A	N/A	Free-ridership and spillover estimated from in-store lighting customer interviews (n=853).	PY8 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	
PY10 (1/1/18- 12/31/18)	Recommended	All LEDs - 0.70	N/A	Most recent AIC-specific value available	See PY8	PY8 Evaluation	

2.10 Low Income Multifamily

Program Year	Туре	NTGR		Justification	Method	Source	
i iogiani ieai		Electric	Gas	Justinouten	mourou	5565	
PY10 (1/1/18-12/31/18)	Recommended	1.00	1.00	Low income program	N/A	AIC and ICC staff consensus on low income programs	

2.11 Multifamily

Dungung Von	Turns	N	rgr .	Justification	Method	Cauras		
Program Year	Туре	Electric	Gas	Justification	Method	Source		
PY1	Value Applied	0.76	N/A	Retrospective application	N/A - Deemed Value	Deemed		
(6/1/08-5/31/09)	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	Datasasatisa	Deemed for in-unit measures. For common	Deemed &		
	NTG Research Results (available - 12/2010)	In-Unit 1.0 Common Areas: 0.8	N/A	Retrospective application	areas, surveyed 10 participants from a population of 12 projects.	PY2 Evaluation		
PY3	Value Applied	In-Unit 1.0 Common Areas: 0.8	N/A	Application of most recent research available	See PY2	PY2 Evaluation		
(6/1/10-5/31/11)	NTG Research Results	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	Program or Market change: NoNew Program: No	See PY2 and HEP PY3 entry for Major Measures	PY2 Evaluation and PY3 HEP Evaluation		
	NTG Research Results	No research conducted						

Due Green Verre	Туре	N ⁻	ΓGR	localificanti au	Madhad	C
Program Year	Туре	Electric	Gas	Justification	Method	Source
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	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
	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
	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	 No market or program change Previous IL EM&V NTG exists: Yes 	See PY2 and PY5	PY2 and PY5 Evaluations
PY6 (6/1/13-5/31/14)	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	 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

Duaguaya Vanu	Type	N	TGR	luctification	Mathad	Cauras
Program Year	Туре	Electric	Gas	Justification	Method	Source
	NTG Research Results	No research performed				
PY8 (6/1/15-	Value Applied	In-Unit: CFLs - 0.95 Faucet Aerator - 1.06 Showerhead - 1.00 Programmable T-Stat - 1.04 CAL: 0.83 Insulation: 0.88 Air sealing: 0.96	In-Unit: Faucet Aerators – 1.00 Showerhead – 0.94 Programmable T-Stat – 0.98 Insulation: 0.71 Air sealing: 0.81	No market or program change; IL values exists.	See PY5 and PY6	PY5 and PY6 Evaluations
5/31/16)*	NTG Research Results (available – 1/5/2017)	Major measures Insulation – 0.86 Air Sealing – 0.86 In unit: Programmable thermostats – 0.79 Faucet aerators – 0.79 Showerheads – 0.79	Major measures Insulation – 70.7 Air Sealing – 80.0 In unit: Programmable thermostats – 1.00 Faucet aerators – 1.00 Showerheads – 1.00	• N/A	Customer self-report based on interviews with property managers (n=57) for major measures and in-unit measures out of a population of 402.	PY8 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 CAL: 0.83 Insulation: 0.88 Air sealing: 0.96	In-Unit: Faucet Aerators – 1.00 Showerhead – 0.94 Programmable T-Stat – 0.98 Insulation: 0.71 Air sealing: 0.81	No market or program change; IL values exists.	See PY5 and PY6	PY5 and PY6 Evaluations
PY10 (1/1/18- 12/31/18)	Recommended	Major measures Insulation – 0.86 Air Sealing – 0.86	Major measures Insulation – 0.71 Air Sealing – 0.80	• N/A	See PY6 and PY8 Multifamily and PY8 Midstream Lighting under C&I Standard for LEDs	PY6 and PY8 Evaluations

Program Year	Туре	N ⁻	TGR	Justification	Method	Source
Flogram Tear		Electric	Gas	Justilication	Method	Source
		In unit: LEDs: 0.77 Programmable thermostats – 0.79 Faucet aerators – 0.79 Showerheads – 0.79	In unit: Programmable thermostats - 1.0 Faucet aerators - 1.0 Showerheads - 1.0			

2.12 Retail Rebates

Program Year	Туре	NTGR		Justification	Method	l Source	
		Electric	Gas	Justification	Method	Source	
PY10 (1/1/18-12/31/18)		Smart thermostats - N/A	Smart thermostats - N/A	Deemed savings in the IL-TRM are based on billing analysis and are inclusive of net effects	N/A	Evaluation Team Recommendation	

2.13 Single-Family Moderate Income

Program Year	Туре	NT	GR	Justification	Method	Source
Fiogram Tear		Electric	Gas	Justification	Method	
PY10 (1/1/18- 12/31/18)	Recommended	LEDs - 0.91 Faucet Aerators - 0.96 Showerheads - 0.93 Air Sealing - 0.86 Insulation - 0.89 Programmable Thermostat - 0.94 Smart Thermostat - N/A Other Non-Lighting Measures - 0.90	LEDs- N/A Faucet Aerators - 0.97 Showerheads - 0.96 Air Sealing - 0.86 Insulation - 0.89 Programmable Thermostat - 0.94 Smart Thermostat - N/A Other Non-Lighting Measures - 0.90	At this time, it is unclear whether this program would include only low to moderate income customers or allow some higher-income customers to participate. Given the possibility of a more heterogeneous participant population, we recommend these values. However, if the final program design ultimately limits program participants to those meeting low or moderate income requirements, the evaluation team will apply a NTGR of 100% for these measures.	Avg. of values from similar programs	Average of PY9 HES and HEIQ

3. Public Sector

3.1 Savings through Efficient Products (STEP)

			NTGR				Source	
Program Year		Туре	Electric	Gas	Justification	Method		
	PY10 (1/1/18-12/31/18)	Recommended	0.90	0.90	Most recent Illinois specific value available	Secondary research	Most recent DCEO evaluation of this program	

A. Past NTG Recommendations

Large C&I (PY7)

Program Year	Туре	NTGR		Justification	Method	Source	
		Electric	Gas	Justilication	Metilou	Source	
PY7 (6/1/14-5/31/15)	Recommended	0.72	0.72	 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	Туре	NTGR		Justification	Method	Source
Flogram Tear		Electric	Gas	Justilication	Methou	Source
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	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	IPA Program	N/A - Deemed	Deemed

Past NTG Recommendations

	Program Year	Туре	NTGR		Justification	Method	Source
Flogram Tear	турс	Electric	Gas				
	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	Updated to reflect primary research	See PY6	PY6 Evaluation

Residential Efficient Products (PY1 - PY6)

Drogram Voor	Туре	NTGR		Justification	Mothod	Cauras	
Program Year		Electric	Gas	Justilication	Method	Source	
PY1	Value Applied	N/A	NI /A	No program			
(6/1/08-5/31/09)	NTG Research Results	IV/A	N/A				
PY2	Value Applied	N/A	N/A	No program			
(6/1/09-5/31/10)	NTG Research Results] .,	,	Tro program			
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.		Deemed	
	NTG Research Results	N/A	N/A	No research conducted			
PY4	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	Customer self-report. 190 surveys completed from a population of 12,117.	PY4 Evaluation	
(6/1/11-5/31/12)	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	application			
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	Program change: NoMarket change: NoNew Program: No	See PY4	PY4 Evaluation	

Past NTG Recommendations

Program Year	Туре	NTGR		Justification	Method	Source
Flogram Teal		Electric	Gas	Justification		
				Previous IL EM&V NTG exists: Yes		
	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		 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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