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Memorandum

To: Nick Warnecke, AIC, Seth Craigo-Snell, SCS Analytics, Nida Khan, CAMI Energy, David Brightwell

and Elizabeth Horne, ICC Staff

From: The Opinion Dynamics Evaluation Team

Date: March 20, 2023

Re: Ameren Illinois Company Lighting Carryover Savings Claimable in 2022

This memo summarizes carryover savings claimable in 2022 from lighting distributed by Ameren Illinois Company (AIC) energy efficiency programs in prior years but not installed until 2022. The relevant initiatives include:

- Retail Products¹
- Direct Distribution (Community Kits, School Kits, and Appliance Recycling Kits)
- Income Qualified (SAVE Kits and BN Community Kits)
- Midstream Lighting²

Methods

All 2022 carryover savings are estimated primarily based on assumptions outlined in the Illinois Technical Resource Manual Version 10.0 (IL-TRM V10.0) and finalized errata measures memo. Exceptions to this include in-service rate (ISR) trajectories and net-to-gross ratios (NTGRs), which are determined by assumptions in place during the year of purchase. All relevant ISR trajectories reflect installations over a three-year period, but exact trajectories vary by lamp type, application, and delivery channel. Based on these three-year trajectories, savings are claimed the year that lamps are installed, meaning that savings from second-year installations of lamps rebated or distributed in 2021 and third-year installations of lamps rebated or distributed in 2020 are claimed as part of the 2022 AIC portfolio.

Table 1 below provides Retail Products Initiative LED installation trajectories by bulb type and application, highlighting installations that will occur in 2022.

Year of Sale **Application Bulb Type First Year Second Year** Third Year Cumulative Standard 76.0% 11.9% 10.1% 98.0% Residential 2021 Specialty 81.5% 8.9% 7.6% 98.0% Commercial All 82.5% 8.4% 7.1% 98.0% 2020 Residential Standard 76.0% 11.9% 10.1% 98.0%

Table 1. Retail Products Initiative LED Lighting ISR Trajectory



 $^{^{\}scriptsize 1}$ Including Efficient Choice.

² Formerly Instant Incentives which was part of the Standard Initiative.



Year of Sale	Application	Bulb Type	First Year	Second Year	Third Year	Cumulative
		Specialty	81.5%	8.9%	7.6%	98.0%
	Commercial	All	82.5%	8.4%	7.1%	98.0%

Table 2 below provides Direct Distribution LED installation trajectories by delivery channel, highlighting installations that will occur in 2022.

Table 2. Direct Distribution Initiative LED Lighting ISR Trajectory

Year of Sale	Delivery Channel	First Year	Second Year	Third Year	Cumulative
	School Kits	60.0%	13.0%	11.0%	84.0%
2021	Appliance Recycling Kits	66.0%	14.0%	12.0%	93.0%
	Appliance Recycling Kits – Income Qualified	68.0%	15.0%	12.0%	95.0%
	Food Pantry Distribution	80.3%	9.6%	8.1%	98.0%
	Community Kits	88.0%	4.0%	3.0%	95.0%
	School Kits	60.0%	13.0%	11.0%	84.0%
2020	Appliance Recycling Kits	59.0%	13.0%	11.0%	83.0%
2020	Food Pantry Distribution	80.3%	9.6%	8.1%	98.0%
	Community Kits	88.0%	4.0%	3.0%	95.0%

Table 3 below provides Income Qualified LED installation trajectories by delivery channel, highlighting installations that will occur in 2022.

Table 3. Income Qualified Initiative LED Lighting ISR Trajectory

Year of Sale	Delivery Channel	First Year	Second Year	Third Year	Cumulative
	SAVE Kits (Verified)	68.0%	15.0%	12.0%	95.0%
2021	SAVE Kits (Unverified)	68.0%	15.0%	12.0%	95.0%
	BN Community Kits	68.0%	15.0%	12.0%	95.0%
	SAVE Kits (Unverified)	68.0%	15.0%	12.0%	95.0%
2020	SAVE Kits (Left)	68.0%	15.0%	12.0%	95.0%
	BN Community Kits	68.0%	15.0%	12.0%	95.0%

Table 4 below provides the Midstream Lighting channel's LED installation trajectories, highlighting installations that will occur in 2022.

Table 4. Midstream Lighting Channel LED Lighting ISR Trajectory

Year of Sale	First Year	Second Year	Third Year	Cumulative
2021	82.5%	8.4%	7.1%	98.0%
2020	82.5%	8.4%	7.1%	98.0%

In response to uncertainty surrounding federal regulations of residential lighting, the IL-TRM V10.0 and errata recommendations specify dates after which certain categories of LED bulbs will achieve less savings as a result of expected increases in baseline efficiency levels. Specifically, it provides mid-life baseline adjustment



factors dependent on bulb type and whether bulbs are distributed to income qualified (IQ) customers. These adjustment factors are detailed in Table 5 and applied to CPAS values in future years.

Table 5. LED Mid-Life Baseline Adjustment Factors

Bulb Type	Population	Adjustment Factor	Year in Which Applied
Standard	IQ	81%	2029
Standard	Non-IQ	34%	2026
Standard	Commercial	34%	2026
Specialty - Directional	IQ	73%	2029
Specialty - Directional	Non-IQ	61%	2026
Specialty - Directional	Commercial	61%	2026
Specialty - Decorative	IQ	67%	2029
Specialty - Decorative	Non-IQ	70%	2026
Specialty - Decorative	Commercial	70%	2026

To quantify upstream sales to IQ customers through the Retail Products Initiative, we relied on outputs from CLEAResult's Retail Sales Allocation Tool (RSAT) included in the 2020 and 2021 initiative sales data. The RSAT uses a comprehensive GIS analysis-based approach to estimate incidence of IQ shoppers at each participating retail location. Based on geographic location, retailer type, population density, etc. each participating store location is assigned a percentage representing its expected incidence of IQ customers, and by extension, the expected portion of their sales going to IQ customers. RSAT IQ allocations range from 5.0% to 72.7% with discount stores and pharmacies generally representing the highest RSAT IQ allocations, while online store sales received an allocation of 0%. Thrift stores are assigned deemed IQ allocations of 100% in the absence of adequate research but with the understanding that these types of retailers tend to attract a higher proportion of IQ customers than other retail channels. We used these IQ allocations to determine the appropriate mid-life baseline adjustment for bulbs sold at each retail location.

Annual Savings

The Retail Products Initiative achieved 8,421 MWh and 1.10 MW in verified net carryover savings in 2022, as shown in Table 6. Specialty LEDs account for the majority of energy and demand savings from 2020 and 2021 purchases.

Table 6. Retail Products Initiative Carryover Savings Claimable in 2022

Year	Delivery Channel	Bulb Type	Bulb Type Verified Gross Energy Savings (MWh) Verified Gross Demand Savings (MW)		NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)
	Standard LED	1,648	0.21	1.000	1,648	0.21	
		Reflector LED	1,816	0.24	0.752	1,365	0.18
2021	Point of Sale / Online	Specialty LED	2,073	0.27	0.715	1,482	0.20
2021	Marketplace	LED Fixture	11	<0.01	0.999	11	<0.01
		LED Outdoor Fixture	1	0.00	0.690	1	0.00
		LED Nightlight	3	0.00	0.821	3	0.00



Year	Delivery Channel	Bulb Type	Verified Gross Energy Savings (MWh)	Verified Gross Demand Savings (MW)	NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)
		Connected LED	10	<0.01	0.716	7	<0.01
	Efficient Choice	LED Lighting	7	<0.01	0.758	5	<0.01
		Standard LED	1,374	0.18	0.690	948	0.12
	Point of Sale /	Reflector LED	2,034	0.27	0.690	1,403	0.18
2020	Online	Specialty LED	2,231	0.29	0.690	1,539	0.20
	Marketplace	LED Fixture	8	<0.01	0.956	8	<0.01
	LED Outdoor Fixture	<1	0.00	0.690	<1	0.00	
Total			11,217	1.47	0.751	8,421	1.10

The Direct Distribution Initiative achieved 1,538 MWh and 0.18 MW in verified net carryover savings in 2022, as shown in Table 7.

Table 7. Direct Distribution Initiative Carryover Savings Claimable in 2022

Year	Delivery Channel	Verified Gross Energy Savings (MWh)	Verified Gross Demand Savings (MW)	NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)
	School Kits Standard LED	183	0.02	1.000	183	0.02
	Appliance Recycling Kits Standard LED	62	0.01	0.907	56	0.01
	Food Pantry Distribution Standard LED	556	0.07	1.000	556	0.07
2021	Food Pantry Distribution LED Nightlights	91	0.00	1.000	91	0.00
	Community Kit Standard LED	40	<0.01	1.000	40	<0.01
	Community Kit ENERGY STAR Desk Lamp	2	<0.01	1.000	2	<0.01
	Community Kit 4.5W Globe	6	<0.01	1.000	6	<0.01
	Community Kit 8W Globe	5	<0.01	1.000	5	<0.01
	School Kits Standard LED	137	0.02	1.000	137	0.02
	Appliance Recycling Kits Standard LED	7	<0.01	1.000	7	<0.01
	Food Pantry Distribution Standard LED	438	0.06	1.000	438	0.06
2020	Community Kit Standard LED	12	<0.01	1.000	12	<0.01
	Community Kit ENERGY STAR Desk Lamp	1	<0.01	1.000	1	<0.01
	Community Kit 4.5W Globe	2	<0.01	1.000	2	<0.01
	Community Kit 8W Globe	1	<0.01	1.000	1	<0.01



Year	Delivery Channel	Verified Gross Energy Savings (MWh)	Verified Gross Demand Savings (MW)	NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)	
	Appliance Recycling Kits Standard LED	2	<0.01	1.000	2	<0.01	
Total		1,543	0.18	0.996	1,538	0.18	

The Income Qualified Initiative achieved 1,349 MWh and 0.16 MW in verified net carryover savings in 2022, as shown in Table 8.

Table 8. Income Qualified Initiative Carryover Savings Claimable in 2022

Year	Delivery Channel/Measure	Verified Gross I/Measure Savings (MWh) Verified Gross Demand N Savings (MW)		NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)
	Unverified SAVE Kit - 9W LED	243	0.03	1.000	243	0.03
	Unverified SAVE Kit - 6W LED	142	0.02	1.000	142	0.02
	Unverified SAVE Kit - 8W LED	119	0.01	1.000	119	0.01
2021	Unverified SAVE Kit (No APS) - 9W LED	143	0.02	1.000	143	0.02
	Unverified SAVE Kit (No APS) - 6W LED	84	0.01	1.000	84	0.01
	Unverified SAVE Kit (No APS) - 8W LED	70	0.01	1.000	70	0.01
	Verified SAVE Kit - Standard LED	19	<0.01	1.000	19	<0.01
	Verified SAVE Kit - Specialty LED	11	<0.01	1.000	11	<0.01
	Verified SAVE Kit - Reflector LED	9	<0.01	1.000	9	<0.01
	Unverified SAVE Kit 9W LED A19	241	0.03	1.000	241	0.03
	Unverified SAVE Kit 6W LED G25	141	0.02	1.000	141	0.02
	Unverified SAVE Kit 8W LED BR30	118	0.01	1.000	118	0.01
	Left SAVE Kit 9W LED A19	2	<0.01	1.000	2	<0.01
2020	Left SAVE Kit 6W LED G25	3	<0.01	1.000	3	<0.01
2020	Left SAVE Kit 8W LED BR30	4	<0.01	1.000	4	<0.01
	BN Community Kit 9W LED A-Lamp	<1	<0.01	1.000	<1	<0.01
	BN Community Kit 8W LED BR30	<1	<0.01	1.000	<1	<0.01
	BN Community Kit 5.5W LED A- Lamp	<1	<0.01	1.000	<1	<0.01
Total		1,349	0.16	1.000	1,349	0.16



The Midstream Lighting channel achieved 6,098 MWh and 1.45 MW in net carryover savings in 2022, as shown in Table 9. Linear LEDs account for over 95% of energy and demand savings from both 2020 and 2021 purchases.

Table 9. Midstream Lighting Carryover Savings Claimable in 2022

Year	Lamp Type	Verified Gross Energy Savings (MWh)	Verified Gross Demand Savings (MW)	NTGR	Verified Net Energy Savings (MWh)	Verified Net Demand Savings (MW)
	Linear LED	3,559	0.85		2,894	0.69
2021	Mogul LED	224	0.05	0.813	182	0.04
	Specialty LED	322	0.07		262	0.06
	Linear LED	2,619	0.63		2,400	0.57
2010	Mogul LED	271	0.06	0.916	248	0.06
	Specialty LED	122	0.03		112	0.02
Total		7,117	1.69	0.857	6,098	1.45



Cumulative Annual Persisting Savings

The following tables provide cumulative persisting savings (CPAS) associated with total carryover savings and carryover savings from each initiative.

Table 10. AIC Portfolio Carryover CPAS and WAML

Initiative	WAMI	WAML First-Year Verified	NTGR	CPAS (Verified Net MWh)															
illuative	VVAIVIL	Gross MWh	2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Retail Products Carryover	9.5	11,217	0.690	8,421	8,421	8,421	8,421	6,432	6,218	6,170	5,115	5,112	5,112	12	12	12	12	9	0
Direct Distribution Carryover	10.0	1,543	0.996	1,538	1,538	1,538	1,538	1,518	1,518	1,518	1,246	1,155	1,155	0	0	0	0	0	0
Income Qualified Carryover	10.0	1,349	1.000	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,014	1,014	1,014	0	0	0	0	0	0
Midstream Lighting Carryover	14.4	7,117	0.857	6,098	6,098	6,098	6,098	5,950	5,942	5,925	5,726	5,726	5,726	5,724	5,724	5,724	5,724	4,564	0
2022 CPAS		21,227	0.820	17,406	17,406	17,406	17,406	15,248	15,027	14,962	13,101	13,007	13,007	5,736	5,736	5,736	5,736	4,573	0
Expiring 2022 CPAS				0	0	0	0	2,157	222	65	1,861	94	0	7,271	0	0	0	1,163	4,573
Expired 2022 CPAS				0	0	0	0	2,157	2,379	2,444	4,305	4,398	4,398	11,669	11,669	11,670	11,670	12,833	17,406
WAML	11.2																		



Table 11. Retail Products Initiative Carryover CPAS and WAML

Evaluation Measure Category	Measure	First-Year Verified	NTGR	CPAS (Ve	erified Ne	t MWh)													
Evaluation Measure Category	Life	Gross MWh	NIGR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
2021 Standard LED - Residential IQ	10.0	1,540	1.000	1,540	1,540	1,540	1,540	1,540	1,540	1,540	1,248	1,248	1,248	0	0	0	0	0	0
2021 Standard LED - Commercial	5.5	108	1.000	108	108	108	108	37	20	0	0	0	0	0	0	0	0	0	0
2021 Reflector LED - Residential Non-IQ	10.0	1,115	0.690	769	769	769	769	469	469	469	469	469	469	0	0	0	0	0	0
2021 Reflector LED - Residential IQ	10.0	473	0.897	425	425	425	425	425	425	425	310	310	310	0	0	0	0	0	0
2021 Reflector LED - Commercial	6.9	228	0.752	172	172	172	172	105	105	96	0	0	0	0	0	0	0	0	0
2021 Specialty LED - Residential Non-IQ	10.0	1,398	0.690	965	965	965	965	675	675	675	675	675	675	0	0	0	0	0	0
2021 Specialty LED - Residential IQ	10.0	415	0.798	331	331	331	331	331	331	331	222	222	222	0	0	0	0	0	0
2021 Specialty LED - Commercial	4.7	261	0.715	186	186	186	186	92	0	0	0	0	0	0	0	0	0	0	0
2021 LED Fixture - Commercial	14.8	11	0.999	11	11	11	11	7	7	7	7	7	7	7	7	7	7	5	0
2021 LED Outdoor Fixture - Commercial	11.6	1.1	0.690	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0
2021 LED Nightlight - Residential Non-IQ	8.0	2	0.690	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
2021 LED Nightlight - Residential IQ	8.0	1	1.000	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
2021 Connected LED - Residential Non-IQ	10.0	8	0.690	6	6	6	6	2	2	2	2	2	2	0	0	0	0	0	0
2021 Connected LED - Residential IQ	10.0	1.1	0.911	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0
2021 Connected LED - Commercial	5.5	0.7	0.716	0.5	0.5	0.5	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2020 Standard LED - Residential Non-IQ	10.0	867	0.690	598	598	598	598	203	203	203	203	203	203	0	0	0	0	0	0
2020 Standard LED - Residential IQ	10.0	418	0.690	289	289	289	289	289	289	289	234	234	234	0	0	0	0	0	0
2020 Standard LED - Commercial	5.5	89	0.690	62	62	62	62	21	11	0	0	0	0	0	0	0	0	0	0
2020 Reflector LED - Residential Non-IQ	10.0	1,109	0.690	765	765	765	765	467	467	467	467	467	467	0	0	0	0	0	0
2020 Reflector LED - Residential IQ	10.0	672	0.690	463	463	463	463	463	463	463	338	338	338	0	0	0	0	0	0
2020 Reflector LED - Commercial	6.9	253	0.690	175	175	175	175	107	107	98	0	0	0	0	0	0	0	0	0
2020 Specialty LED - Residential Non-IQ	10.0	1,232	0.690	850	850	850	850	595	595	595	595	595	595	0	0	0	0	0	0
2020 Specialty LED - Residential IQ	10.0	721	0.690	497	497	497	497	497	497	497	333	333	333	0	0	0	0	0	0
2020 Specialty LED - Commercial	4.7	278	0.690	192	192	192	192	95	0	0	0	0	0	0	0	0	0	0	0
2020 LED Fixture - Commercial	14.8	8	0.956	8	8	8	8	5	5	5	5	5	5	5	5	5	5	4	0
2020 LED Outdoor Fixture - Commercial	11.6	0.06	0.690	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0
2021 Efficient Choice - LED Lighting	10.0	7	0.758	5	5	5	5	3	3	3	3	3	3	0	0	0	0	0	0
2022 CPAS		11,217	0.751	8,421	8,421	8,421	8,421	6,432	6,218	6,170	5,115	5,112	5,112	12	12	12	12	9	0
Expiring 2022 CPAS				0	0	0	0	1,990	214		1,056	3	0	-,	0	0	0	2	9
Expired 2022 CPAS				0	0	0	0	1,990	2,203	2,251	3,306	3,309	3,309	8,409	8,409	8,409	8,409	8,412	8,421
WAML	9.5																		



Table 12. Direct Distribution Initiative Carryover CPAS and WAML

Evaluation Measure Category	Measure	First-Year Verified	NTGR	CPAS (V	erified Ne	t MWh)								
Evaluation measure category	Life	Gross MWh	NIGR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2020 School Kits Standard LED	10.0	137	1.000	137	137	137	137	137	137	137	111	111	111	0
2020 Appliance Recycling Kits Standard LED	10.0	7	1.000	7	7	7	7	7	7	7	6	6	6	0
2020 Food Pantry Distribution Standard LED	10.0	438	1.000	438	438	438	438	438	438	438	355	355	355	0
2020 Community Kit Standard LED	10.0	12	1.000	12	12	12	12	12	12	12	9	9	9	0
2020 Community Kit ENERGY STAR Desk Lam	10.0	1	1.000	1	1	1	1	1	1	1	1	1	1	0
2020 Community Kit 4.5 W Globe	10.0	2	1.000	2	2	2	2	2	2	2	1	1	1	0
2020 Community Kit 8 W Globe	10.0	1	1.000	1	1	1	1	1	1	1	1	1	1	0
2021 School Kits Standard LED	10.0	183	1.000	183	183	183	183	183	183	183	148	148	148	0
2021 Appliance Recycling Kits Standard LED -	10.0	26	1.000	26	26	26	26	26	26	26	21	21	21	0
2022 Appliance Recycling Kits Standard LED -	10.0	36	0.840	30	30	30	30	10	10	10	10	10	10	0
2021 Food Pantry Distribution Standard LED	10.0	556	1.000	556	556	556	556	556	556	556	451	451	451	0
2021 Food Pantry Distribution LED Nightlights	10.0	91	1.000	91	91	91	91	91	91	91	91	0	0	0
2021 Community Kit Standard LED	10.0	40	1.000	40	40	40	40	40	40	40	32	32	32	0
2021 Community Kit ENERGY STAR Desk Lam	10.0	2	1.000	2	2	2	2	2	2	2	1	1	1	0
2021 Community Kit 4.5 W Globe	10.0	6	1.000	6	6	6	6	6	6	6	4	4	4	0
2021 Community Kit 8 W Globe	10.0	5	1.000	5	5	5	5	5	5	5	3	3	3	0
2022 CPAS		1,543	0.996	1,538	1,538	1,538	1,538	1,518	1,518	1,518	1,246	1,155	1,155	0
Expiring 2022 CPAS				0	0	0	0	20	0	0	271	91	0	1,155
Expired 2022 CPAS				0	0	0	0	20	20	20	291	382	382	1,538
WAML	10.0													



Table 13. Income Qualified Initiative Carryover CPAS and WAML

Fusion Manager October	Measure	First-Year Verified	NTGR	CPAS (V	erified Ne	t MWh)								
Evaluation Measure Category	Life	Gross MWh	NIGR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2020 Unverified SAVE Kit 9W LED A19	10.0	241	1.000	241	241	241	241	241	241	241	195	195	195	0
2020 Unverified SAVE Kit 6W LED G25	10.0	141	1.000	141	141	141	141	141	141	141	94	94	94	0
2020 Unverified SAVE Kit 8W LED BR30	10.0	118	1.000	118	118	118	118	118	118	118	86	86	86	0
2020 Left SAVE Kit 9W LED A19	10.0	2	1.000	2	2	2	2	2	2	2	2	2	2	0
2020 Left SAVE Kit 6W LED G25	10.0	3	1.000	3	3	3	3	3	3	3	2	2	2	0
2020 Left SAVE Kit 8W LED BR30	10.0	4	1.000	4	4	4	4	4	4	4	3	3	3	0
2020 BN Community Kit 9W LED A-Lamp	10.0	0	1.000	0	0	0	0	0	0	0	0	0	0	0
2020 BN Community Kit 8W LED BR30	10.0	0	1.000	0	0	0	0	0	0	0	0	0	0	0
2020 BN Community Kit 5.5W LED A-Lamp	10.0	0	1.000	0	0	0	0	0	0	0	0	0	0	0
2021 Unverified SAVE Kit - 9W LED	10.0	243	1.000	243	243	243	243	243	243	243	197	197	197	0
2021 Unverified SAVE Kit - 6W LED	10.0	142	1.000	142	142	142	142	142	142	142	95	95	95	0
2021 Unverified SAVE Kit - 8W LED	10.0	119	1.000	119	119	119	119	119	119	119	87	87	87	0
2021 Unverified SAVE Kit (No APS) - 9W LED	10.0	143	1.000	143	143	143	143	143	143	143	116	116	116	0
2021 Unverified SAVE Kit (No APS) - 6W LED	10.0	84	1.000	84	84	84	84	84	84	84	56	56	56	0
2021 Unverified SAVE Kit (No APS) - 8W LED	10.0	70	1.000	70	70	70	70	70	70	70	51	51	51	0
2021 Verified SAVE Kit - Standard LED	10.0	19	1.000	19	19	19	19	19	19	19	15	15	15	0
2021 Verified SAVE Kit - Specialty LED	10.0	11	1.000	11	11	11	11	11	11	11	7	7	7	0
2021 Verified SAVE Kit - Reflector LED	10.0	9	1.000	9	9	9	9	9	9	9	7	7	7	0
2022 CPAS		1,349	1.000	1,349	1,349	1,349	1,349	1,349	1,349	1,349	1,014	1,014	1,014	0
Expiring 2022 CPAS	0	0	0	0	0	0	0	335	0	0	1,014			
Expired 2022 CPAS				0	0	0	0	0	0	0	335	335	335	1,349
WAML	10.0													



Table 14. Midstream Lighting Carryover CPAS and WAML

Evaluation Measure Category	Measure	First-Year Verified Gross MWh	NTGR	CPAS (Verified Net MWh)															
	Life		NIGR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
2020 Linear LED	14.8	2,619	0.916	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	1,913	0
2020 Mogul	14.8	271	0.916	248	248	248	248	248	248	248	248	248	248	248	248	248	248	198	0
2020 Specialty LED	8.4	122	0.916	112	112	112	112	68	66	61	1	1	1	0	0	0	0	0	0
2021 Linear LED	14.8	3,559	0.813	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,894	2,308	0
2021 Mogul	14.8	224	0.813	182	182	182	182	182	182	182	182	182	182	182	182	182	182	145	0
2021 Specialty LED	8.3	322	0.813	262	262	262	262	158	151	140	1	1	1	0	0	0	0	0	0
2022 CPAS 7,117 0.857					6,098	6,098	6,098	5,950	5,942	5,925	5,726	5,726	5,726	5,724	5,724	5,724	5,724	4,564	0
Expiring 2022 CPAS					0	0	0	148	8	17	199	0	0	2	0	0	0	1,160	4,564
Expired 2022 CPAS					0	0	0	148	156	173	372	372	372	373	373	373	373	1,534	6,098
WAML	14.4																		