

CITY OF ST. LOUIS

RENEWABLE ENERGY PLAN U-16632

JUNE, 2015

- Based on this Renewable Energy Plan (REP) the City of St. Louis (City) will have the required Renewable Energy Credits (RECs) for the REP time period of 2015-2029 thereby complying with PA 295.
- The primary source of RECs is participation in the Michigan Public Power Agency (MPPA) Granger and North American Natural Resources (NANR) Projects. These projects will utilize landfill gas for electric power generation from a variety of locations in Michigan and possibly in neighboring states.
- A newly installed secondary source of RECs is participation in the Michigan Public Power Agency (MPPA) Beebe 1b Wind Project. This project will utilize wind power for electric power generation from the Beebe Windfarm.
- The City will have a deficit of RECs starting in 2023, and will have to purchase RECs from 2023 until the rest of the planning period to stay compliant.
- The City has chosen to use the Transfer Price method of calculating the incremental cost of compliance rather than the Cost of RECs method.
- The City will not exceed the renewable energy surcharge caps specified in PA 295.
- The financial impact of this REP to the City's customers will be minimized.
- The City will comply with Sections 45 and 51 of PA 295 which refers to methods of notification to customers charges, if any, for costs associated with its REP.

ST. LOUIS

GRANGER

			2015	2016	2017	2018	2019
NET GENERATION	MWh	***	1,212	1,446	1,442	1,442	1,442
CAPACITY	MW	***	0.154	0.183	0.183	0.183	0.183
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		1,212	1,446	1,442	1,442	1,442
ON-PEAK & MICH INCENT RECS	RECS	***	146	184	152	152	137
TOTAL	RECS		1,358	1,630	1,595	1,595	1,579
GRANGER UNIT COST	\$/ MWh	\$	89.16	91.39	93.67	96.01	98.41
O & M	\$/ MWh	\$	-	-	-	-	-
ADMIN	\$/ MWh	\$	0.62	0.64	0.66	0.67	0.69
WDS CHARGES	\$/ MWh	\$	-	-	-	-	-
INCREMENTAL UNIT COST	\$/ REC	\$	89.78	92.03	94.33	96.68	99.10
TOTAL INCREMENTAL COST	\$	\$	108,841	133,083	136,037	139,438	142,924
WITH PILT	\$	1.04 \$	113,194	138,406	141,479	145,016	148,641
INTERCONNECTION COSTS	\$	***	1,524	-	-	-	-
WITH PILT	\$	1.04 \$	1,585	-	-	-	-
GRANGER ENERGY COST	\$		113,194	138,406	141,479	145,016	148,641
GRANGER INTERCONN COST	\$	\$	1,585	-	-	-	-
GRANGER TOTAL COST	\$	\$	114,780	138,406	141,479	145,016	148,641
GRANGER TOTAL COST	\$/ MWh	\$	94.68	95.71	98.10	100.55	103.07

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCURRED AT SOME SITES, THE ASSETS ARE OWNED BY THE DEVELOPER AND NOT THE

ST. LOUIS

GRANGER

			2020	2021	2022	2023	2024
NET GENERATION	MWh	***	1,446	1,442	1,442	1,442	1,446
CAPACITY	MW	***	0.183	0.183	0.183	0.183	0.183
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		1,446	1,442	1,442	1,442	1,446
ON-PEAK & MICH INCENT RECS	RECS	***	137	137	137	137	137
TOTAL	RECS		1,583	1,579	1,579	1,579	1,583
GRANGER UNIT COST	\$/ MWh	\$	100.87	103.40	105.98	108.63	111.35
O & M	\$/ MWh	\$	-	-	-	-	-
ADMIN	\$/ MWh	\$	0.71	0.72	0.74	0.76	0.78
WDS CHARGES	\$/ MWh	\$	-	-	-	-	-
INCREMENTAL UNIT COST	\$/ REC	\$	101.58	104.12	106.72	109.39	112.12
TOTAL INCREMENTAL COST	\$	\$	146,899	150,160	153,914	157,761	162,149
WITH PILT	\$	1.04 \$	152,775	156,166	160,070	164,072	168,634
INTERCONNECTION COSTS	\$	***	-	-	-	-	-
WITH PILT	\$	1.04 \$	-	-	-	-	-
GRANGER ENERGY COST	\$		152,775	156,166	160,070	164,072	168,634
GRANGER INTERCONN COST	\$	\$	-	-	-	-	-
GRANGER TOTAL COST	\$	\$	152,775	156,166	160,070	164,072	168,634
GRANGER TOTAL COST	\$/ MWh	\$	105.64	108.28	110.99	113.77	116.61

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCUCITIES. THEREFORE, ALL COSTS AND RECS ARE ALLOCATED TO "PPA" RATHER THA

ST. LOUIS

GRANGER

			2025	2026	2027	2028	2029
NET GENERATION	MWh	***	1,442	1,442	1,442	1,446	1,442
CAPACITY	MW	***	0.183	0.183	0.183	0.183	0.183
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		1,442	1,442	1,442	1,446	1,442
ON-PEAK & MICH INCENT RECS	RECS	***	137	137	137	137	137
TOTAL	RECS		1,579	1,579	1,579	1,583	1,579
GRANGER UNIT COST	\$/ MWh		\$ 114.13	\$ 116.98	\$ 119.91	\$ 122.90	\$ 125.98
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ 0.80	\$ 0.82	\$ 0.84	\$ 0.86	\$ 0.88
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 114.93	\$ 117.80	\$ 120.75	\$ 123.76	\$ 126.86
TOTAL INCREMENTAL COST	\$		\$ 165,748	\$ 169,892	\$ 174,139	\$ 178,982	\$ 182,955
WITH PILT	\$	1.04	\$ 172,378	\$ 176,688	\$ 181,105	\$ 186,141	\$ 190,273
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
GRANGER ENERGY COST	\$		172,378	176,688	181,105	186,141	190,273
GRANGER INTERCONN COST	\$		\$ -	\$ -	\$ -	\$ -	\$ -
GRANGER TOTAL COST	\$		\$ 172,378	\$ 176,688	\$ 181,105	\$ 186,141	\$ 190,273
GRANGER TOTAL COST	\$/ MWh		\$ 119.52	\$ 122.51	\$ 125.58	\$ 128.72	\$ 131.93

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCUN "BUILD.

ST. LOUIS

OTHER LANDFILL - ALL SITES

			2015	2016	2017	2018	2019
NETGENERATION	MWh	***	360	463	462	462	462
CAPACITY	MW	***	0.059	0.098	0.098	0.098	0.098
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		360	463	462	462	462
ON-PEAK & MICH INCENT RECS	RECS	***	34	44	44	44	44
TOTAL	RECS		395	507	505	505	505
OTHER LANDFILL UNIT COST	\$/ MWh		\$ 78.00	\$ 79.95	\$ 81.95	\$ 84.00	\$ 86.10
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ 0.55	\$ 0.56	\$ 0.57	\$ 0.59	\$ 0.60
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 78.55	\$ 80.51	\$ 82.52	\$ 84.59	\$ 86.70
TOTAL INCREMENTAL COST	\$		\$ 28,304	\$ 37,257	\$ 38,084	\$ 39,036	\$ 40,012
WITH PILT	\$	1.04	\$ 29,436	\$ 38,747	\$ 39,608	\$ 40,598	\$ 41,613
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LANDFILL ENERGY COST	\$		29,436	38,747	39,608	40,598	41,613
OTHER LANDFILL INTERCONN COST	\$		\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LANDFILL TOTAL COST	\$		\$ 29,436	\$ 38,747	\$ 39,608	\$ 40,598	\$ 41,613
OTHER LANDFILL TOTAL COST	\$/ MWh		\$ 81.69	\$ 83.73	\$ 85.82	\$ 87.97	\$ 90.17

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCURRED AT SOME SITES, THE ASSETS ARE OWNED BY THE DEVELOPER AND NOT THE

ST. LOUIS

OTHER LANDFILL - ALL SITES

			2020	2021	2022	2023	2024
NETGENERATION	MWh	***	463	462	462	462	463
CAPACITY	MW	***	0.098	0.098	0.098	0.098	0.098
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		463	462	462	462	463
ON-PEAK & MICH INCENT RECS	RECS	***	44	44	44	44	44
TOTAL	RECS		507	505	505	505	507
OTHER LANDFILL UNIT COST	\$/ MWh		\$ 88.25	\$ 90.46	\$ 92.72	\$ 95.04	\$ 97.41
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ 0.62	\$ 0.63	\$ 0.65	\$ 0.67	\$ 0.68
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 88.87	\$ 91.09	\$ 93.37	\$ 95.70	\$ 98.09
TOTAL INCREMENTAL COST	\$		\$ 41,125	\$ 42,038	\$ 43,089	\$ 44,166	\$ 45,394
WITH PILT	\$	1.04	\$ 42,770	\$ 43,719	\$ 44,812	\$ 45,933	\$ 47,210
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LANDFILL ENERGY COST	\$		42,770	43,719	44,812	45,933	47,210
OTHER LANDFILL INTERCONN COST	\$		\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LANDFILL TOTAL COST	\$		\$ 42,770	\$ 43,719	\$ 44,812	\$ 45,933	\$ 47,210
OTHER LANDFILL TOTAL COST	\$/ MWh		\$ 92.42	\$ 94.73	\$ 97.10	\$ 99.53	\$ 102.02

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCUCITIES. THEREFORE, ALL COSTS AND RECS ARE ALLOCATED TO "PPA" RATHER THA

ST. LOUIS

OTHER LANDFILL - ALL SITES

			2025	2026	2027	2028	2029
NETGENERATION	MWh	***	462	462	462	463	462
CAPACITY	MW	***	0.098	0.098	0.098	0.098	0.098
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		462	462	462	463	462
ON-PEAK & MICH INCENT RECS	RECS	***	44	44	44	44	44
TOTAL	RECS		505	505	505	507	505
OTHER LANDFILL UNIT COST	\$/ MWh		\$ 99.85	\$ 102.34	\$ 104.90	\$ 107.52	\$ 110.21
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ 0.70	\$ 0.72	\$ 0.73	\$ 0.75	\$ 0.77
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 100.55	\$ 103.06	\$ 105.64	\$ 108.28	\$ 110.98
TOTAL INCREMENTAL COST	\$		\$ 46,402	\$ 47,562	\$ 48,751	\$ 50,107	\$ 51,219
WITH PILT	\$	1.04	\$ 48,258	\$ 49,465	\$ 50,701	\$ 52,111	\$ 53,268
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER LANDFILL ENERGY COST	\$		48,258	49,465	50,701	52,111	53,268
OTHER LANDFILL INTERCONN COST	\$		-	-	-	-	-
OTHER LANDFILL TOTAL COST	\$		\$ 48,258	\$ 49,465	\$ 50,701	\$ 52,111	\$ 53,268
OTHER LANDFILL TOTAL COST	\$/ MWh		\$ 104.57	\$ 107.18	\$ 109.86	\$ 112.61	\$ 115.42

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS ARE INCUN "BUILD.

ST. LOUIS

BEEBE 1B

			2015	2016	2017	2018	2019
NETGENERATION	MWh	***	754	756	754	754	754
CAPACITY	MW	***	0.287	0.287	0.287	0.287	0.287
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		754	756	754	754	754
ON-PEAK RECS & MI INCENT RECS	RECS	***	-	-	-	-	-
TOTAL	RECS		754	756	754	754	754
UNIT COST							
UNIT COST	\$/ MWh		\$ 44.85	\$ 45.97	\$ 47.12	\$ 48.30	\$ 49.51
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 44.85	\$ 45.97	\$ 47.12	\$ 48.30	\$ 49.51
TOTAL INCREMENTAL COST	\$		\$ 33,832	\$ 34,772	\$ 35,545	\$ 36,435	\$ 37,347
WITH PILT	\$	1.04	\$ 35,185	\$ 36,163	\$ 36,966	\$ 37,892	\$ 38,841
INTERCONNECTION COSTS							
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
ENERGY COST	\$		35,185	36,163	36,966	37,892	38,841
INTERCONNECTION COST	\$		-	-	-	-	-
TOTAL COST	\$		\$ 35,185	\$ 36,163	\$ 36,966	\$ 37,892	\$ 38,841
TOTAL COST	\$/ MWh		\$ 46.64	\$ 47.81	\$ 49.00	\$ 50.23	\$ 51.49

FOOTNOTES:

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS MAY BE INCURRED AT SOME SITES, THE ASSETS ARE OWNED BY THE DEVELOPER AND NOT THE CITIES.

ST. LOUIS

BEEBE 1B

			2020	2021	2022	2023	2024
NETGENERATION	MWh	***	756	754	754	754	756
CAPACITY	MW	***	0.287	0.287	0.287	0.287	0.287
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		756	754	754	754	756
ON-PEAK RECS & MI INCENT RECS	RECS	***	-	-	-	-	-
TOTAL	RECS		756	754	754	754	756
UNIT COST	\$/ MWh		\$ 50.74	\$ 52.01	\$ 53.31	\$ 54.65	\$ 56.01
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 50.74	\$ 52.01	\$ 53.31	\$ 54.65	\$ 56.01
TOTAL INCREMENTAL COST	\$		\$ 38,380	\$ 39,233	\$ 40,214	\$ 41,225	\$ 42,366
WITH PILT	\$	1.04	\$ 39,915	\$ 40,803	\$ 41,822	\$ 42,874	\$ 44,061
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
ENERGY COST	\$		39,915	40,803	41,822	42,874	44,061
INTERCONNECTION COST	\$		-	-	-	-	-
TOTAL COST	\$		\$ 39,915	\$ 40,803	\$ 41,822	\$ 42,874	\$ 44,061
TOTAL COST	\$/ MWh		\$ 52.77	\$ 54.09	\$ 55.44	\$ 56.84	\$ 58.25

FOOTNOTES:

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS MAY BE INCURRED / THEREFORE, ALL COSTS AND RECS ARE ALLOCATED TO "PPA" RATHER THAN "BUILD."

ST. LOUIS

BEEBE 1B

			2025	2026	2027	2028	2029
NETGENERATION	MWh	***	754	754	754	756	754
CAPACITY	MW	***	0.287	0.287	0.287	0.287	0.287
RENEWABLE ENERGY CREDITS							
BASE GENERATION	RECS		754	754	754	756	754
ON-PEAK RECS & MI INCENT RECS	RECS	***	-	-	-	-	-
TOTAL	RECS		754	754	754	756	754
UNIT COST	\$/ MWh		\$ 57.41	\$ 58.85	\$ 60.32	\$ 61.83	\$ 63.37
O & M	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
ADMIN	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
WDS CHARGES	\$/ MWh		\$ -	\$ -	\$ -	\$ -	\$ -
INCREMENTAL UNIT COST	\$/ REC		\$ 57.41	\$ 58.85	\$ 60.32	\$ 61.83	\$ 63.37
TOTAL INCREMENTAL COST	\$		\$ 43,307	\$ 44,393	\$ 45,502	\$ 46,769	\$ 47,803
WITH PILT	\$	1.04	\$ 45,039	\$ 46,169	\$ 47,322	\$ 48,639	\$ 49,715
INTERCONNECTION COSTS	\$	***	\$ -	\$ -	\$ -	\$ -	\$ -
WITH PILT	\$	1.04	\$ -	\$ -	\$ -	\$ -	\$ -
ENERGY COST	\$		45,039	46,169	47,322	48,639	49,715
INTERCONNECTION COST	\$		-	-	-	-	-
TOTAL COST	\$		\$ 45,039	\$ 46,169	\$ 47,322	\$ 48,639	\$ 49,715
TOTAL COST	\$/ MWh		\$ 59.71	\$ 61.20	\$ 62.73	\$ 64.30	\$ 65.90

FOOTNOTES:

GENERAL NOTE:

BUILD / PPA: ALTHOUGH INTERCONNECTION COSTS MAY BE INCURRED /

ST LOUIS

LFG Entitlement	1.22%
Beebe Entitlement	0.92%

		Used for Compliance in...			
Expired or Sold	Baseline RECs	2012	2013	2014	2015
132	680	1,310	1,746	2,316	-

Total Credits		Yearly Addition		Required		Current Surplus (Deficiency)		Year-End Surplus (Deficiency)		Expired or Sold	
2015	12,110	2015	3,187	2015	3,869	2015	3,419	2015	2,737	2015	-
2016	15,683	2016	3,573	2016	3,869	2016	-	2016	2,441	2016	-
2017	19,217	2017	3,534	2017	3,869	2017	-	2017	2,106	2017	-
2018	22,751	2018	3,534	2018	3,869	2018	-	2018	1,771	2018	-
2019	26,270	2019	3,519	2019	3,869	2019	-	2019	1,421	2019	-
2020	29,797	2020	3,527	2020	3,869	2020	-	2020	1,079	2020	-
2021	33,316	2021	3,519	2021	3,869	2021	-	2021	729	2021	-
2022	36,835	2022	3,519	2022	3,869	2022	-	2022	379	2022	-
2023	40,754	2023	3,919	2023	3,869	2023	-	2023	429	2023	-
2024	44,681	2024	3,927	2024	3,869	2024	-	2024	487	2024	-
2025	48,600	2025	3,919	2025	3,869	2025	-	2025	537	2025	-
2026	52,519	2026	3,919	2026	3,869	2026	-	2026	587	2026	-
2027	56,438	2027	3,919	2027	3,869	2027	-	2027	637	2027	-
2028	60,365	2028	3,927	2028	3,869	2028	-	2028	695	2028	-
2029	64,284	2029	3,919	2029	3,869	2029	-	2029	745	2029	-

2015	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Blanc	36	32	36	35	36	35	36	36	35	36	35	36	421
Orchard Hills	31	29	31	30	31	30	31	31	30	31	30	31	369
Venice Park	14	13	14	14	43	42	43	43	42	43	42	43	395
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Current Vintage	250	233	250	244	279	272	279	279	272	279	272	279	3,187
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2016	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	169
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	27	29	28	29	28	29	29	28	29	28	29	338
Brent Run #4	16	15	16	15	16	15	16	16	15	16	15	16	184
Grand Blanc	43	40	43	42	43	42	43	43	42	43	42	43	507
Orchard Hills	31	29	31	30	31	30	31	31	30	31	30	31	369

Venice Park	43	40	43	42	43	42	43	43	42	43	42	43	507
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	60	64	62	64	62	64	64	62	64	62	64	756
Current Vintage	302	286	302	294	302	294	302	302	294	302	294	302	3,573
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2017	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	16	14	16	15	16	15	16	16	15	16	15	16	184
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	299	276	299	291	299	291	299	299	291	299	291	299	3,534
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2018	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	16	14	16	15	16	15	16	16	15	16	15	16	184
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	299	276	299	291	299	291	299	299	291	299	291	299	3,534
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2019	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505

Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	298	274	298	290	298	290	298	298	290	298	290	298	3,519
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2020		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Grand Blanc	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Orchard Hills	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Venice Park	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	60	64	62	64	62	64	64	62	64	62	64	64	756
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	298	282	298	290	298	290	298	298	290	298	290	298	298	3,527
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2021		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	64	754
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	298	274	298	290	298	290	298	298	290	298	290	298	298	3,519
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2022		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	29	337

Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	64	754
Purchases/(Sales)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	298	274	298	290	298	290	298	298	290	298	290	298	298	3,519
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2023		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	64	754
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	308	331	323	331	323	331	331	323	331	323	331	331	3,919
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2024		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Grand Blanc	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Orchard Hills	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Venice Park	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	60	64	62	64	62	64	64	62	64	62	64	64	756
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	316	331	323	331	323	331	331	323	331	323	331	331	3,927
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2025		Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales														38,691
Baseline RECs														680
Required REC's														3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	168

Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	308	331	323	331	323	331	331	323	331	323	331	3,919
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2026	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	308	331	323	331	323	331	331	323	331	323	331	3,919
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2027	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
Required REC's													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	308	331	323	331	323	331	331	323	331	323	331	3,919
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2028	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680

<i>Required REC's</i>													3,869	
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	14	169
Grand Blanc	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Orchard Hills	29	27	29	28	29	28	29	29	28	29	28	29	29	338
Venice Park	43	40	43	42	43	42	43	43	42	43	42	43	43	507
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	60	64	62	64	62	64	64	62	64	62	64	64	756
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	316	331	323	331	323	331	331	323	331	323	331	331	3,927
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2029	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													38,691
Baseline RECs													680
<i>Required REC's</i>													3,869
Brent Run #1	14	13	14	14	14	14	14	14	14	14	14	14	168
Brent Run West	5	5	5	5	5	5	5	5	5	5	5	5	63
Brent Run #3	29	26	29	28	29	28	29	29	28	29	28	29	337
Brent Run #4	14	13	14	14	14	14	14	14	14	14	14	14	168
Grand Blanc	43	39	43	42	43	42	43	43	42	43	42	43	505
Orchard Hills	29	26	29	28	29	28	29	29	28	29	28	29	337
Venice Park	43	39	43	42	43	42	43	43	42	43	42	43	505
Hydroelectric No. 5	28	28	28	28	28	28	28	28	28	28	28	28	340
Hydroelectric No. 6	28	28	28	28	28	28	28	28	28	28	28	28	340
Beebe	64	58	64	62	64	62	64	64	62	64	62	64	754
Purchases/(Sales)	33	33	33	33	33	33	33	33	33	33	33	33	400
Current Vintage	331	308	331	323	331	323	331	331	323	331	323	331	3,919
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

ST. LOUIS

ATTACHMENT C - RENEWABLE ENERGY PLAN SURCHARGE SUMMARY FOR MUNICIPAL UTILITIES

ITEM	Units	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
SALES FORECAST - 3 YR RUNNING AVERAGE	MWH	38,691											
10% COMPLIANCE FACTOR		0.10											
RPS REQUIREMENT	MWH	3,869											
RECS - RPS Required	RECS	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869
RECS - PRE-REP (BASELINE)	RECS	680	680	680	680	680	680	680	680	680	680	680	680
RECS - INCREMENTAL DIFFERENCE	RECS	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189
FACTOR		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
REQUIRED NEW RECS	RECS	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189
RPS RENEWABLE ENERGY CREDIT COMPLIANCE													
RECS CARRIED OVER	RECS	3,419	2,737	2,441	2,106	1,771	1,421	1,079	729	379	429	487	537
RECS OBTAINED (NEW)	RECS	2,507	2,893	2,854	2,854	2,839	2,847	2,839	2,839	2,839	2,847	2,839	2,839
RECS OBTAINED (BASELINE)	RECS	680	680	680	680	680	680	680	680	680	680	680	680
REC PURCHASES / (SALES) FROM OTHER SOURCES	RECS	-	-	-	-	-	-	-	-	400	400	400	400
TOTAL RECS SOURCES		6,606	6,310	5,975	5,640	5,290	4,948	4,598	4,248	4,298	4,356	4,406	4,456
REQUIRED RECS (BASELINE PLUS NEW)	RECS	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869
RECS USED FOR COMPLIANCE	RECS	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869	3,869
EXPIRED RECS	RECS	-	-	-	-	-	-	-	-	-	-	-	-
RECS CUMULATIVE BALANCE	RECS	2,737	2,441	2,106	1,771	1,421	1,079	729	379	429	487	537	587
Incremental Compliance with New RECS	%	79%	91%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%
Compliance % with Cumulative REC Balance	%	171%	163%	154%	146%	137%	128%	119%	110%	111%	113%	114%	115%
Revenue Requirements for New Renewables													
Build (see project sheets for information)	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PPA	\$	\$ 179,402	\$ 213,317	\$ 218,053	\$ 223,506	\$ 229,095	\$ 235,460	\$ 240,688	\$ 246,705	\$ 252,878	\$ 259,906	\$ 265,675	\$ 272,321
REC Purchases (Sales)	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 536	\$ 549	\$ 563	\$ 577
Total	\$	\$ 179,402	\$ 213,317	\$ 218,053	\$ 223,506	\$ 229,095	\$ 235,460	\$ 240,688	\$ 246,705	\$ 253,415	\$ 260,455	\$ 266,238	\$ 272,898
RECs Obtained													
Generation Based													
Build (see project sheets for information)	RECs	-	-	-	-	-	-	-	-	-	-	-	-
PPA	RECs	2,327	2,665	2,658	2,658	2,658	2,665	2,658	2,658	2,658	2,665	2,658	2,658
Subtotal	RECs	2,327	2,665	2,658	2,658	2,658	2,665	2,658	2,658	2,658	2,665	2,658	2,658
Purchase (Sold) From New RECS	RECs	-	-	-	-	-	-	-	-	400	400	400	400
Incentive (SB 213 Sec 39 (2))	RECS	180	228	196	196	181	181	181	181	181	181	181	181
Total	RECS	2,507	2,893	2,854	2,854	2,839	2,847	2,839	2,839	2,839	2,847	2,839	2,839
FORECASTED TRANSFER PRICE PER MWH (SEE INCR COST-TPRICE SHEET)	\$/MWH	\$ 100.00	\$ 103.00	\$ 105.00	\$ 108.00	\$ 113.00	\$ 117.00	\$ 122.00	\$ 158.00	\$ 134.00	\$ 141.00	\$ 143.00	\$ 148.00
AMOUNT RECOVERED THROUGH PSCR (TPRICE X ENERGY) (SEE INCR COST -TPRICE SHEET)													
GRANGER	\$	\$ 121,229	\$ 148,953	\$ 151,430	\$ 155,757	\$ 162,968	\$ 169,199	\$ 175,948	\$ 227,867	\$ 193,254	\$ 203,907	\$ 206,234	\$ 213,445
OTHER LANDFILL	\$	\$ 15,514	\$ 30,191	\$ 31,430	\$ 32,804	\$ 33,988	\$ 35,223	\$ 36,513	\$ 38,048	\$ 39,448	\$ 41,290	\$ 43,025	\$ 44,377
BEEBE 1B	\$	\$ 52,872	\$ 53,251	\$ 54,305	\$ 55,738	\$ 55,882	\$ 55,982	\$ 57,828	\$ 59,208	\$ 60,302	\$ 61,201	\$ 62,459	\$ 64,368
INCREMENTAL COST OF COMPLIANCE (SEE INCR COST-TPRICE SHEET)	\$	\$ (10,213)	\$ (19,078)	\$ (19,113)	\$ (20,794)	\$ (23,742)	\$ (24,944)	\$ (29,600)	\$ (78,418)	\$ (39,590)	\$ (45,943)	\$ (45,480)	\$ (49,292)
Additional investment above PA 295 requirements	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Volumetric Surcharge													
Meter (or customer) Forecast (Number)													
Residential	No.	1,874	1,938	2,000	2,054	2,103	2,150	2,193	2,234	2,267	2,298	2,326	2,351
Commercial	No.	320	330	341	350	359	367	374	381	387	392	397	401
Industrial	No.	2	2	2	2	2	2	2	2	2	3	3	3
Streetlights	No.	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	No.	-	-	-	-	-	-	-	-	-	-	-	-
Total	No.	2,196	2,271	2,343	2,407	2,464	2,519	2,570	2,617	2,657	2,692	2,725	2,755
Maximum Surcharge (all rate classes at caps)													
Residential	\$	\$ 3.00	\$ 67,476	\$ 69,767	\$ 71,996	\$ 73,957	\$ 75,721	\$ 77,393	\$ 78,963	\$ 80,416	\$ 81,628	\$ 82,725	\$ 83,735
Commercial	\$	\$ 16.58	\$ 63,586	\$ 65,745	\$ 67,846	\$ 69,694	\$ 71,355	\$ 72,931	\$ 74,411	\$ 75,780	\$ 76,922	\$ 77,956	\$ 78,908
Industrial	\$	\$ 187.50	\$ 4,610	\$ 4,767	\$ 4,919	\$ 5,053	\$ 5,173	\$ 5,288	\$ 5,395	\$ 5,494	\$ 5,577	\$ 5,652	\$ 5,721
Streetlights	\$	\$ 0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered	\$	\$ 0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$	\$ 135,671	\$ 140,279	\$ 144,761	\$ 148,704	\$ 152,250	\$ 155,612	\$ 158,768	\$ 161,689	\$ 164,127	\$ 166,333	\$ 168,365	\$ 170,193
Planned Surcharge													
Residential	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Commercial	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Industrial	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Streetlights	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)

ST. LOUIS

ITEM	Units	2027	2028	2029
SALES FORECAST - 3 YR RUNNING AVERAGE				
10% COMPLIANCE FACTOR	MWH			
RPS REQUIREMENT	MWH			
RECS - RPS Required	RECS	3,869	3,869	3,869
RECS - PRE-REP (BASELINE)	RECS	680	680	680
RECS - INCREMENTAL DIFFERENCE	RECS	3,189	3,189	3,189
FACTOR		1.00	1.00	1.00
REQUIRED NEW RECS	RECS	3,189	3,189	3,189
RPS RENEWABLE ENERGY CREDIT COMPLIANCE				
RECS CARRIED OVER	RECS	587	637	695
RECS OBTAINED (NEW)	RECS	2,839	2,847	2,839
RECS OBTAINED (BASELINE)	RECS	680	680	680
REC PURCHASES / (SALES) FROM OTHER SOURCES	RECS	400	400	400
TOTAL RECS SOURCES		4,506	4,564	4,614
REQUIRED RECS (BASELINE PLUS NEW)	RECS	3,869	3,869	3,869
RECS USED FOR COMPLIANCE	RECS	3,869	3,869	3,869
EXPIRED RECS	RECS	-	-	-
RECS CUMULATIVE BALANCE	RECS	637	695	745
Incremental Compliance with New RECS	%	89%	89%	89%
Compliance % with Cumulative REC Balance	%	116%	118%	119%
Revenue Requirements for New Renewables				
Build (see project sheets for information)	\$	\$ -	\$ -	\$ -
PPA	\$	\$ 279,128	\$ 286,891	\$ 293,256
REC Purchases (Sales)	\$	\$ 592	\$ 607	\$ 622
Total		\$ 279,720	\$ 287,498	\$ 293,877
RECs Obtained				
Generation Based				
Build (see project sheets for information)	RECs	-	-	-
PPA	RECs	2,658	2,665	2,658
Subtotal	RECs	2,658	2,665	2,658
Purchase (Sold) From New RECS	RECS	400	400	400
Incentive (SB 213 Sec 39 (2))	RECS	181	181	181
Total	RECS	2,839	2,847	2,839
FORECASTED TRANSFER PRICE PER MWH (SEE INCR COST-TPRICE SHEET)	\$/MWH	\$ 154.00	\$ 164.00	\$ 171.00
AMOUNT RECOVERED THROUGH PSCR (TPRICE X ENERGY) (SEE INCR COST -TPRICE SHEET)				
GRANGER	\$	\$ 222,098	\$ 237,168	\$ 246,615
OTHER LANDFILL	\$	\$ 46,009	\$ 47,974	\$ 49,838
BEEBE 1B	\$	\$ 65,613	\$ 67,086	\$ 68,200
INCREMENTAL COST OF COMPLIANCE (SEE INCR COST-TPRICE SHEET)	\$	\$ (54,000)	\$ (64,730)	\$ (70,775)
Additional investment above PA 295 requirements	\$	\$ -	\$ -	\$ -
Non-Volumetric Surcharge				
Meter (or customer) Forecast (Number)				
Residential	No.	2,375	2,396	2,414
Commercial	No.	405	408	412
Industrial	No.	3	3	3
Streetlights	No.	-	-	-
Unmetered	No.	-	-	-
Total	No.	2,783	2,807	2,828
Maximum Surcharge (all rate classes at caps)				
Residential	\$	\$ 3.00	\$ 85,502	\$ 86,239
Commercial	\$	\$ 16.58	\$ 80,573	\$ 81,267
Industrial	\$	\$ 187.50	\$ 5,842	\$ 5,892
Streetlights	\$	\$ 0.60	\$ -	\$ -
Unmetered	\$	\$ 0.60	\$ -	\$ -
Total	\$	\$ 171,916	\$ 173,398	\$ 174,731
Planned Surcharge				
Residential	\$	\$ (0)	\$ (0)	\$ (0)
Commercial	\$	\$ (0)	\$ (0)	\$ (0)
Industrial	\$	\$ (0)	\$ (0)	\$ (0)
Streetlights	\$	\$ -	\$ -	\$ -
Unmetered	\$	\$ -	\$ -	\$ -
Total	\$	\$ (0)	\$ (0)	\$ (0)

ST. LOUIS

INCREMENTAL COST FOR NEW RECS

			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
DISCOUNT RATE	(a)		5.00%											
TERM FOR DISCOUNTING			14											
MARKET VALUE OF RECS	(b)	\$	1.10	\$ 1.13	\$ 1.16	\$ 1.18	\$ 1.21	\$ 1.24	\$ 1.28	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.41	\$ 1.44
GRANGER INCREMENTAL REVENUE REQUIREMENTS														
GRANGER COST		\$	114,780	\$ 138,406	\$ 141,479	\$ 145,016	\$ 148,641	\$ 152,775	\$ 156,166	\$ 160,070	\$ 164,072	\$ 168,634	\$ 172,378	\$ 176,688
GRANGER RECS	NO.		1,212	1,446	1,442	1,442	1,442	1,446	1,442	1,442	1,442	1,446	1,442	1,442
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	(c)	100.00	\$ 103.00	\$ 105.00	\$ 108.00	\$ 113.00	\$ 117.00	\$ 122.00	\$ 158.00	\$ 134.00	\$ 141.00	\$ 143.00	\$ 148.00
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$		121,229	\$ 148,953	\$ 151,430	\$ 155,757	\$ 162,968	\$ 169,199	\$ 175,948	\$ 227,867	\$ 193,254	\$ 203,907	\$ 206,234	\$ 213,445
TOTAL INCREMENTAL COST OF COMPLIANCE	\$		(6,449)	(10,547)	(9,952)	(10,741)	(14,327)	(16,425)	(19,782)	(67,797)	(29,182)	(35,272)	(33,856)	(36,757)
OTHER LANDFILL INCREMENTAL REVENUE REQUIREMENTS														
OTHER LFILL COST		\$	29,436	\$ 38,747	\$ 39,608	\$ 40,598	\$ 41,613	\$ 42,770	\$ 43,719	\$ 44,812	\$ 45,933	\$ 47,210	\$ 48,258	\$ 49,465
OTHER LFILL RECS	NO.		360	463	462	462	462	463	462	462	462	463	462	462
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	(c)	43.05	\$ 65.24	\$ 68.10	\$ 71.08	\$ 73.65	\$ 76.11	\$ 79.12	\$ 82.44	\$ 85.48	\$ 89.22	\$ 93.23	\$ 96.16
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$		15,514	\$ 30,191	\$ 31,430	\$ 32,804	\$ 33,988	\$ 35,223	\$ 36,513	\$ 38,048	\$ 39,448	\$ 41,290	\$ 43,025	\$ 44,377
TOTAL INCREMENTAL COST OF COMPLIANCE	\$		13,922	8,557	8,178	7,794	7,625	7,547	7,207	6,764	6,485	5,920	5,233	5,087
BEEBE 1BSOLAR INCREMENTAL REVENUE REQUIREMENTS														
BEEBE 1B COST		\$	35,185	\$ 36,163	\$ 36,966	\$ 37,892	\$ 38,841	\$ 39,915	\$ 40,803	\$ 41,822	\$ 42,874	\$ 44,061	\$ 45,039	\$ 46,169
BEEBE 1B RECS	NO.		754	756	754	754	754	756	754	754	754	756	754	754
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	(c)	70.09	\$ 70.40	\$ 71.99	\$ 73.89	\$ 74.08	\$ 74.01	\$ 76.66	\$ 78.49	\$ 79.94	\$ 80.91	\$ 82.80	\$ 85.33
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$		52,872	\$ 53,251	\$ 54,305	\$ 55,738	\$ 55,882	\$ 55,982	\$ 57,828	\$ 59,208	\$ 60,302	\$ 61,201	\$ 62,459	\$ 64,368
TOTAL INCREMENTAL COST OF COMPLIANCE	\$		(17,686)	(17,088)	(17,339)	(17,846)	(17,040)	(16,066)	(17,025)	(17,386)	(17,428)	(17,140)	(17,420)	(18,199)
REC PURCHASES / SALES														
RECS PURCHASED / (SOLD)	RECS	***	-	-	-	-	-	-	-	-	400	400	400	400
REC UNIT VALUE	\$/REC	(b)	1.10	\$ 1.13	\$ 1.16	\$ 1.18	\$ 1.21	\$ 1.24	\$ 1.28	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.41	\$ 1.44
TOTAL REC VALUE	\$		-	-	-	-	-	-	-	-	536	549	563	577
TOTAL INCREMENTAL COST OF COMPLIANCE		\$	(10,213)	(19,078)	(19,113)	(20,794)	(23,742)	(24,944)	(29,600)	(78,418)	(39,590)	(45,943)	(45,480)	(49,292)
NPV INCREMENTAL COST OF COMPLIANCE	\$ NPV		(73,922)											
LEVELIZED INCREMENTAL COST OF COMPLIANCE	\$ NPV		(7,468)											

TOTAL ICC FOR 2014	\$	8,077
TOTAL TRANSFER COST FOR 2014	\$	118,060
TOTAL COSTS TO COMPLY 2014	\$	126,137
FORECAST OF TRANSFER COST FOR 2015-2029	\$	4,296,039
FORECAST OF TOTAL EXPENDITURES FOR 2015-2029	\$	3,700,326
FORECAST OF INCREMENTAL COST OF COMPLIANCE FOR 2015-2029	\$	(595,713)

FOOTNOTES:

- (a) BASED ON LONG TERM MUNICIPAL DEBT RATE
- (b) MPPA INTERPOLATED FROM Q4 2014 CLEAR ENERGY MARKET REPORT
- (c) TRANSFER PRICES AS GIVEN BY THE 2015 MPSC STAFF TRANSFER PRICE SCHEDULE.

ST. LOUIS

INCREMENTAL COST FOR NEW RECS

		2027	2028	2029
DISCOUNT RATE				
TERM FOR DISCOUNTING				
MARKET VALUE OF RECS	\$	1.48	\$ 1.52	\$ 1.55
GRANGER INCREMENTAL REVENUE REQUIREMENTS				
GRANGER COST	\$	\$ 181,105	\$ 186,141	\$ 190,273
GRANGER RECS	NO.	1,442	1,446	1,442
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	\$ 154.00	\$ 164.00	\$ 171.00
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$	\$ 222,098	\$ 237,168	\$ 246,615
TOTAL INCREMENTAL COST OF COMPLIANCE	\$	\$ (40,993)	\$ (51,027)	\$ (56,342)
OTHER LANDFILL INCREMENTAL REVENUE REQUIREMENTS				
OTHER LFILL COST	\$	\$ 50,701	\$ 52,111	\$ 53,268
OTHER LFILL RECS	NO.	462	463	462
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	\$ 99.69	\$ 103.67	\$ 107.99
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$	\$ 46,009	\$ 47,974	\$ 49,838
TOTAL INCREMENTAL COST OF COMPLIANCE	\$	\$ 4,692	\$ 4,137	\$ 3,430
BEEBE 1BSOLAR INCREMENTAL REVENUE REQUIREMENTS				
BEEBE 1B COST	\$	\$ 47,322	\$ 48,639	\$ 49,715
BEEBE 1B RECS	NO.	754	756	754
FORECASTED TRANSFER PRICE PER MWH (SUGGESTED)	\$/MWH	\$ 86.98	\$ 88.69	\$ 90.41
AMOUNT RECOVERED THROUGH PSCR WHICH EQUALS TRANSFER PRICE X VOLUME OF ENERGY (SUGGESTED)	\$	\$ 65,613	\$ 67,086	\$ 68,200
TOTAL INCREMENTAL COST OF COMPLIANCE	\$	\$ (18,291)	\$ (18,446)	\$ (18,485)
REC PURCHASES / SALES				
RECS PURCHASED / (SOLD)	RECS	400	400	400
REC UNIT VALUE	\$/REC	\$ 1.48	\$ 1.52	\$ 1.55
TOTAL REC VALUE	\$	\$ 592	\$ 607	\$ 622

TOTAL INCREMENTAL COST OF COMPLIANCE	\$	(54,000)	\$ (64,730)	\$ (70,775)
NPV INCREMENTAL COST OF COMPLIANCE	\$ NPV			
LEVELIZED INCREMENTAL COST OF COMPLIANCE	\$ NPV			

TOTAL ICC FOR 2014

TOTAL TRANSFER COST FOR 2014

TOTAL COSTS TO COMPLY 2014

FORECAST OF TRANSFER COST FOR 2015-2029

FORECAST OF TOTAL EXPENDITURES FOR 2015-2029

FORECAST OF INCREMENTAL COST OF COMPLIANCE FOR 2015-2029

FOOTNOTES:

- (a) BASED ON LONG TERM MUNICIPAL DEBT RATE
- (b) MPPA INTERPOLATED FROM Q4 2014 CLEAR ENERGY MARKET REPORT
- (c) TRANSFER PRICES AS GIVEN BY THE 2015 MPSC STAFF TRANSFER PRICE SCHED

ST. LOUIS

			<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	
DISCOUNT RATE			5.00%							
TERM			14							
Non-Volumetric Surcharge										
Meter (or customer) Forecast (Number)										
Residential	No.		1,874	1,938	2,000	2,054	2,103	2,150	2,193	
Commercial	No.		320	330	341	350	359	367	374	
Industrial	No.		2	2	2	2	2	2	2	
Streetlights	No.		-	-	-	-	-	-	-	
Unmetered	No.		-	-	-	-	-	-	-	
Total	No.		2,196	2,271	2,343	2,407	2,464	2,519	2,570	
Maximum Surcharge (all rate classes at caps)										
Residential	\$ / MO	\$	3.00	\$ 67,476	\$ 69,767	\$ 71,996	\$ 73,957	\$ 75,721	\$ 77,393	\$ 78,963
Commercial	\$ / MO	\$	16.58	\$ 63,586	\$ 65,745	\$ 67,846	\$ 69,694	\$ 71,355	\$ 72,931	\$ 74,411
Industrial	\$ / MO	\$	187.50	\$ 4,610	\$ 4,767	\$ 4,919	\$ 5,053	\$ 5,173	\$ 5,288	\$ 5,395
Streetlights	\$ / MO	\$	0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered	\$ / MO	\$	0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ / MO	\$	135,671	\$ 140,279	\$ 144,761	\$ 148,704	\$ 152,250	\$ 155,612	\$ 158,768	
TOTAL NPV	\$ NPV	\$	1,625,438							
TOTAL PAYMENT	\$ NPV	\$	164,208							
Planned Surcharge										
Residential	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Commercial	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Industrial	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Streetlights	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Unmetered	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Total	\$ / MO	\$	(0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	
Residential	\$	\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
Commercial	\$	\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
Industrial	\$	\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
Streetlights	\$	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Unmetered	\$	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$	\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
LEVELIZED COST OF COMPLIANCE	\$ NPV	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
OVER / (UNDER) COLLECT	\$	\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
NPV OF OVER / (UNDER COLLECT)		\$	(0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	
SURCHARGE SCALING FACTOR USING SOLVER			0.0000%							

ST. LOUIS

		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
DISCOUNT RATE									
TERM									
Non-Volumetric Surcharge									
Meter (or customer) Forecast (Number)									
Residential	No.	2,234	2,267	2,298	2,326	2,351	2,375	2,396	2,414
Commercial	No.	381	387	392	397	401	405	408	412
Industrial	No.	2	2	3	3	3	3	3	3
Streetlights	No.	-	-	-	-	-	-	-	-
Unmetered	No.	-	-	-	-	-	-	-	-
Total	No.	2,617	2,657	2,692	2,725	2,755	2,783	2,807	2,828
Maximum Surcharge (all rate classes at caps)									
Residential	\$ / MO	\$ 80,416	\$ 81,628	\$ 82,725	\$ 83,735	\$ 84,645	\$ 85,502	\$ 86,239	\$ 86,902
Commercial	\$ / MO	\$ 75,780	\$ 76,922	\$ 77,956	\$ 78,908	\$ 79,765	\$ 80,573	\$ 81,267	\$ 81,892
Industrial	\$ / MO	\$ 5,494	\$ 5,577	\$ 5,652	\$ 5,721	\$ 5,783	\$ 5,842	\$ 5,892	\$ 5,937
Streetlights	\$ / MO	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered	\$ / MO	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ / MO	\$ 161,689	\$ 164,127	\$ 166,333	\$ 168,365	\$ 170,193	\$ 171,916	\$ 173,398	\$ 174,731
TOTAL NPV	\$ NPV								
TOTAL PAYMENT	\$ NPV								
Planned Surcharge									
Residential	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Commercial	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Industrial	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Streetlights	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Unmetered	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Total	\$ / MO	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)	\$ (0.00)
Residential	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Commercial	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Industrial	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
Streetlights	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
LEVELIZED COST OF COMPLIANCE	\$ NPV	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OVER / (UNDER) COLLECT	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
NPV OF OVER / (UNDER COLLECT)	\$	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)

SURCHARGE SCALING FACTOR USING SOLVER