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SOAH DOCKET NO. 473-19-3864
PUC DOCKET NO. 49421

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APPLICATION OF CENTERPOINT § BEFORE THE STATE OFFICE
ENERGY HOUSTON ELECTRIC, LLC § OF
FOR AUTHORITY TO CHANGE RATES § ADMINISTRATIVE HEARINGS

May 14, 2019

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**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH02-06U**

QUESTION:

Please refer to page 37 of Mr. Troxle's testimony and provide the following information:

- a. Total number of street lights in each of the calendar years 2014, 2015, 2016, and 2017.
- b. Total number of LED street lights by type of initial lumen and watt in each of the calendar years 2014, 2015, 2016, and 2017.
- c. Total number of non-LED street lights by type of initial lumen and watt in each of the calendar years 2014, 2015, 2016, and 2017.
- d. Total number of LED street lights by type of initial lumen and watt for City of Houston in each of the calendar years 2014, 2015, 2016, and 2017.
- e. Total number of non-LED street lights by type of initial lumen and watt for City of Houston in each of the calendar years 2014, 2015, 2016, and 2017.

ANSWER:

This response is being updated to provide the excel version of COH02-06 Attachment 1.pdf that was originally filed May 9, 2019. See attached COH02-06U Attachment 1.xlsx

SPONSOR (PREPARER):

Julienne Sugarek (Julienne Sugarek)

RESPONSIVE DOCUMENTS:

COH02-06U Attachment 1.xlsx

COH02-06 Attachment 1

Please refer to page 37 of Mr. Troxle's testimony and provide the following information:

a. Total number of streetlights in each of the calendar years 2014, 2015, 2016, and 2017.

2014	245,152
2015	422,923
2016	440,724
2017	453,125

b. Total number of LED street lights by type of initial lumen and watt in each of the calendar years

Year	Lumen	Watt	Total
2014	N/a	N/a	0

Year	Lumen	Watt	Total
2015	7900 LUMEN	95	53
	7900 LUMEN	95	3
	4800 LUMEN	45	101
	4800 LUMEN	45	35
	4800 LUMEN	45	16,949
	4800 LUMEN	45	36
	4800 LUMEN	45	22
	4800 LUMEN	45	11,591
	15100 LUMEN	180	3
	10850 LUMEN	115	5,656
	10850 LUMEN	115	36
	10850 LUMEN	115	7
	10850 LUMEN	115	34
	10850 LUMEN	115	1,921
	10850 LUMEN	115	26
	10850 LUMEN	115	8
	7900 LUMEN	95	6,018
	7900 LUMEN	95	12
	7900 LUMEN	95	540
	4800 LUMEN	45	3
	4800 LUMEN	45	365
	10850 LUMEN	115	4
	10850 LUMEN	115	3
	4800 LUMEN	45	15
	Total:		422,923

Year	Lumen	Watt	Total
2016	7900 LUMEN	95	106
	7900 LUMEN	95	8
	4800 LUMEN	45	258
	4800 LUMEN	45	57
	4800 LUMEN	45	35,284

4800 LUMEN	45	114
4800 LUMEN	45	64
4800 LUMEN	45	28,690
4800 LUMEN	45	142
15100 LUMEN	180	226
15100 LUMEN	180	12
10850 LUMEN	115	14,642
10850 LUMEN	115	125
10850 LUMEN	115	169
10850 LUMEN	115	70
10850 LUMEN	115	7,572
10850 LUMEN	115	328
10850 LUMEN	115	42
7900 LUMEN	95	13,405
7900 LUMEN	95	3
7900 LUMEN	95	19
7900 LUMEN	95	74
7900 LUMEN	95	1,964
7900 LUMEN	95	74
4800 LUMEN	45	156
4800 LUMEN	45	5
4800 LUMEN	45	1,257
15100 LUMEN	180	993
15100 LUMEN	180	28
10850 LUMEN	115	11
10850 LUMEN	115	188
4800 LUMEN	45	24
Total:		440,724

Year	Lumen	Watt	Total
2017	7900 LUMEN	95	132
	7900 LUMEN	95	13
	4800 LUMEN	45	449
	4800 LUMEN	45	246
	4800 LUMEN	45	46,779
	4800 LUMEN	45	141
	4800 LUMEN	45	94
	4800 LUMEN	45	59,102
	4800 LUMEN	45	166
	15100 LUMEN	180	6
	15100 LUMEN	180	232
	15100 LUMEN	180	14
	10850 LUMEN	115	21,699
	10850 LUMEN	115	182
	10850 LUMEN	115	227
	10850 LUMEN	115	152
	10850 LUMEN	115	13,454
	10850 LUMEN	115	618
	10850 LUMEN	115	24
	10850 LUMEN	115	68

7900 LUMEN	95	17,587
7900 LUMEN	95	6
7900 LUMEN	95	19
7900 LUMEN	95	74
7900 LUMEN	95	3,990
7900 LUMEN	95	244
4800 LUMEN	45	235
4800 LUMEN	45	5
4800 LUMEN	45	1,888
15100 LUMEN	180	1,112
15100 LUMEN	180	34
10850 LUMEN	115	123
10850 LUMEN	115	1,212
4800 LUMEN	45	28
Total:		453,125

c. Total number of non-LED street lights by type of initial lumen and watt in each of the calendar years

Year	Lumen	Watt	Total
2014	4200 MV	N/A	3,178
	6000 HPS	N/A	5,378
	7800 MV	N/A	563
	9500 HPS	N/A	145,724
	15000 HPS	N/A	32,988
	22600 MV	N/A	925
	28000 HPS	N/A	50,361
	50000 HPS	N/A	1,841
	12900 MH	N/A	124
	7900 MH	N/A	563
	19475 MH	N/A	2,028
	32,200 MH	N/A	1,974
	Total		245,647

Year	Lumen	Watt	Total
2015	4200 LUMEN	100	991
	4200 LUMEN	100	1
	4200 LUMEN	100	3,592
	6000 LUMEN	70	749
	6000 LUMEN	70	32
	6000 LUMEN	70	7,148
	7800 LUMEN	175	140
	7800 LUMEN	175	64
	9500 LUMEN	100	42,296
	9500 LUMEN	100	155
	9500 LUMEN	100	117
	9500 LUMEN	100	228,657
	9500 LUMEN	100	1,322
	9500 LUMEN	100	90
	9500 LUMEN	100	2
	9500 LUMEN	100	5,412
	9500 LUMEN	100	502

15000 LUMEN	150	16,317
15000 LUMEN	150	9
15000 LUMEN	150	66
15000 LUMEN	150	82
15000 LUMEN	150	12,280
15000 LUMEN	150	2,154
15000 LUMEN	150	6
15000 LUMEN	150	2
15000 LUMEN	150	758
22600 LUMEN	400	175
22600 LUMEN	400	2
22600 LUMEN	400	31
22600 LUMEN	400	6
28000 LUMEN	250	20,325
28000 LUMEN	250	167
28000 LUMEN	250	319
28000 LUMEN	250	246
28000 LUMEN	250	22,877
28000 LUMEN	250	2,482
28000 LUMEN	250	13
28000 LUMEN	250	30
28000 LUMEN	250	60
28000 LUMEN	250	1
28000 LUMEN	250	502
28000 LUMEN	250	182
50000 LUMEN	400	1,064
50000 LUMEN	400	5
50000 LUMEN	400	1,109
50000 LUMEN	400	70
50000 LUMEN	400	8
50000 LUMEN	400	16
50000 LUMEN	400	20
12900 LUMEN	175	1
12900 LUMEN	175	335
12900 LUMEN	175	106
7900 LUMEN	100	40
7900 LUMEN	100	2
7900 LUMEN	100	1,886
7900 LUMEN	100	112
19475 LUMEN	250	167
19475 LUMEN	250	1,944
19475 LUMEN	250	96
19475 LUMEN	250	127
32200 LUMEN	400	38
32200 LUMEN	400	1,448
32200 LUMEN	400	240
32200 LUMEN	400	182
32200 LUMEN	400	104
	Total:	422,923

Year	Lumen	Watt	Total
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2016	4200 LUMEN	100	765
	4200 LUMEN	100	1
	4200 LUMEN	100	3,123
	6000 LUMEN	70	597
	6000 LUMEN	70	26
	6000 LUMEN	70	6,322
	7800 LUMEN	175	101
	7800 LUMEN	175	55
	9500 LUMEN	100	26,878
	9500 LUMEN	100	80
	9500 LUMEN	100	80
	9500 LUMEN	100	220,578
	9500 LUMEN	100	1,368
	9500 LUMEN	100	91
	9500 LUMEN	100	2
	9500 LUMEN	100	5,685
	9500 LUMEN	100	758
	15000 LUMEN	150	9,936
	15000 LUMEN	150	7
	15000 LUMEN	150	20
	15000 LUMEN	150	8
	15000 LUMEN	150	11,487
	15000 LUMEN	150	2,120
	15000 LUMEN	150	6
	15000 LUMEN	150	2
	15000 LUMEN	150	758
	22600 LUMEN	400	128
	22600 LUMEN	400	2
	22600 LUMEN	400	16
	22600 LUMEN	400	4
	28000 LUMEN	250	13,348
	28000 LUMEN	250	98
	28000 LUMEN	250	210
	28000 LUMEN	250	210
	28000 LUMEN	250	18,332
	28000 LUMEN	250	2,278
	28000 LUMEN	250	13
	28000 LUMEN	250	30
	28000 LUMEN	250	72
	28000 LUMEN	250	1
	28000 LUMEN	250	580
	28000 LUMEN	250	232
	50000 LUMEN	400	962
	50000 LUMEN	400	4
	50000 LUMEN	400	1,066
	50000 LUMEN	400	70
	50000 LUMEN	400	8
	50000 LUMEN	400	16
	50000 LUMEN	400	18
	12900 LUMEN	175	1
	12900 LUMEN	175	415

12900 LUMEN	175	126
7900 LUMEN	100	40
7900 LUMEN	100	2
7900 LUMEN	100	2,133
7900 LUMEN	100	120
19475 LUMEN	250	164
19475 LUMEN	250	1,780
19475 LUMEN	250	96
19475 LUMEN	250	113
32200 LUMEN	400	24
32200 LUMEN	400	564
32200 LUMEN	400	198
32200 LUMEN	400	182
32200 LUMEN	400	104
Total:		440,724

Year	Lumen	Watt	Total
2017	4200 LUMEN	100	520
	4200 LUMEN	100	1
	4200 LUMEN	100	2,528
	6000 LUMEN	70	499
	6000 LUMEN	70	16
	6000 LUMEN	70	5,625
	7800 LUMEN	175	65
	7800 LUMEN	175	44
	9500 LUMEN	100	15,483
	9500 LUMEN	100	53
	9500 LUMEN	100	60
	9500 LUMEN	100	200,758
	9500 LUMEN	100	1,364
	9500 LUMEN	100	101
	9500 LUMEN	100	2
	9500 LUMEN	100	5,876
	9500 LUMEN	100	764
	15000 LUMEN	150	5,721
	15000 LUMEN	150	4
	15000 LUMEN	150	20
	15000 LUMEN	150	8
	15000 LUMEN	150	10,628
	15000 LUMEN	150	2,028
	15000 LUMEN	150	6
	15000 LUMEN	150	2
	15000 LUMEN	150	758
	22600 LUMEN	400	104
	22600 LUMEN	400	2
	22600 LUMEN	400	12
	22600 LUMEN	400	4
	28000 LUMEN	250	6,759
	28000 LUMEN	250	40
	28000 LUMEN	250	149

28000 LUMEN	250	128
28000 LUMEN	250	13,097
28000 LUMEN	250	2,066
28000 LUMEN	250	13
28000 LUMEN	250	6
28000 LUMEN	250	66
28000 LUMEN	250	1
28000 LUMEN	250	608
28000 LUMEN	250	260
50000 LUMEN	400	606
50000 LUMEN	400	4
50000 LUMEN	400	968
50000 LUMEN	400	56
50000 LUMEN	400	8
50000 LUMEN	400	16
50000 LUMEN	400	18
12900 LUMEN	175	3
12900 LUMEN	175	444
12900 LUMEN	175	146
7900 LUMEN	100	40
7900 LUMEN	100	2
7900 LUMEN	100	2,307
7900 LUMEN	100	102
19475 LUMEN	250	43
19475 LUMEN	250	780
19475 LUMEN	250	96
19475 LUMEN	250	123
32200 LUMEN	400	10
32200 LUMEN	400	453
32200 LUMEN	400	198
32200 LUMEN	400	98
Total:		453,125

d. Total number of LED street lights by type of initial lumen and watt for City of Houston in each of the calendar years

Year	Lumen	Watt	Total
2014	N/a	N/a	0

Year	Lumen	Watt	begin	added	end
2015	95w LED;175wMV	7800 LUMENS 95W LED;175WMV OVERHEAD LAMP COUNT 01	46	7	53
	95w LED;175wMV	9500 LUMENS 95W LED;175WMV UNDERGROUND LAMP COUNT 01	3	0	3

45w LED;100wMV	4800 LUMENS 45W LED;100W MV OVERHEAD LAMP COUNT 01	90	11	101
45w LED;100wMV	4200 LUMENS 45W LED;100W MV OVERHEAD LAMP COUNT 01	160	0	143
45w LED;100wMV	4200 LUMENS 45W LED;100W MV UNDERGROUND LAMP COUNT 01	16	5	20
45 LED	9500 LUMENS 45 LED OVERHEAD LAMP COUNT 01	16,468	457	16,925
45 LED	9500 LUMENS 45 LED OVERHEAD LAMP COUNT 01	35	1	36
45 LED	9500 LUMENS 45 LED UNDERGROUND LAMP COUNT 01	22	0	22
45 LED	9500 LUMENS 45 LED UNDERGROUND LAMP COUNT 01	10,671	496	11,165
180 LED	28000 LUMENS 180 LED UNDERGROUND LAMP COUNT 01	0	5	3
115 LED	28000 LUMENS 115 LED OVERHEAD LAMP COUNT 01	4,927	730	5,656

115 LED	28000 LUMENS 115 LED OVERHEAD LAMP COUNT 01	32	4	36
115 LED	28000 LUMENS 115 LED UNDERGROUND LAMP COUNT 01	5	2	7
115 LED	28000 LUMENS 115 LED UNDERGROUND LAMP COUNT 02	26	8	34
115 LED	28000 LUMENS 115 LED UNDERGROUND LAMP COUNT 01	1,680	241	1,921
115 LED	28000 LUMENS 115 LED UNDERGROUND LAMP COUNT 02	22	4	26
115 LED	28000 LUMENS 115 LED OVERHEAD LAMP COUNT 02	2	6	8
95 LED	15000 LUMENS 95 LED OVERHEAD LAMP COUNT 01	5,461	555	6,015
95 LED	15000 LUMENS 95 LED UNDERGROUND LAMP COUNT 01	12	0	12

95 LED	15000 LUMENS 95 LED UNDERGROUND LAMP COUNT 01	53	0	51
95 LED	15000 LUMENS 95 LED UNDERGROUND LAMP COUNT 01	482	55	536
45w LED;70wHPS	6000 LUMENS 45W LED;70WHP OVERHEAD LAMP COUNT 01	3	0	3
45w LED;70wHPS	6000 LUMENS 45W LED;70WHP UNDERGROUND LAMP COUNT 01	324	41	365
45w LED;70wHPS	6000 LUMENS 45W LED;70WHP UNDERGROUND LAMP COUNT 01	1,719	0	1,627
115w LED;250MH	28000 LUMENS 115W LED;250MH OVERHEAD LAMP COUNT 01	4	0	4
115w LED;250MH	28000 LUMENS 115W LED;250MH UNDERGROUND LAMP COUNT 01	3	0	3
45w LED;100wMH	9500 LUMENS 45W LED;100WMH UNDERGROUND LAMP COUNT 01	13	2	15

Year	Lumen	Watt	begin	added	end
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2016

95w LED;175wMV	7900 LUMENS 95W LED;175WMV OVERHEAD LAMP COUNT 01	106	0	106
95w LED;175wMV	7900 LUMENS 95W LED;175WMV UNDERGROUND LAMP COUNT 01	8	0	8
45w LED;100wMV	4800 LUMENS 45W LED;100WMV OVERHEAD LAMP COUNT 01	204	2	206
45w LED;100wMV	4800 LUMENS 45W LED;100WMV UNDERGROUND LAMP COUNT 01	41	1	42
45 LED	4800 LUMENS 45 LED OVERHEAD LAMP COUNT 01	31,559	1,003	32,557
45 LED	4800 LUMENS 45 LED OVERHEAD LAMP COUNT 01	110	3	113
45 LED	4800 LUMENS 45 LED UNDERGROUND LAMP COUNT 01	55	0	55
45 LED	4800 LUMENS 45 LED UNDERGROUND LAMP COUNT 01	25,826	885	26,700
45 LED	4800 LUMENS 45 LED UNDERGROUND LAMP COUNT 01	5	0	5

45 LED	4800 LUMENS 45 LED UNDERGROUND LAMP COUNT 02	146		130
180 LED	15100 LUMENS 180 LED UNDERGROUND LAMP COUNT 01	210	2	212
180 LED	15100 LUMENS 180 LED UNDERGROUND LAMP COUNT 02	6	0	6
115 LED	10850 LUMENS 115 LED OVERHEAD LAMP COUNT 01	13,612	564	14,149
115 LED	10850 LUMENS 115 LED OVERHEAD LAMP COUNT 01	121	4	125
115 LED	10850 LUMENS 115 LED UNDERGROUND LAMP COUNT 01	167	3	169
115 LED	10850 LUMENS 115 LED OVERHEAD LAMP COUNT 02	64	4	68
115 LED	10850 LUMENS 115 LED UNDERGROUND LAMP COUNT 01	6,978	411	7,373
115 LED	10850 LUMENS 115 LED UNDERGROUND LAMP COUNT 02	254	20	270

115 LED	10850 LUMENS 115 LED OVERHEAD LAMP COUNT 02	42	0	42
95 LED	7900 LUMENS 95 LED OVERHEAD LAMP COUNT 01	12,372	830	13,197
95 LED	7900 LUMENS 95 LED UNDERGROUND LAMP COUNT 01	19	0	19
95 LED	7900 LUMENS 95 LED UNDERGROUND LAMP COUNT 01	1,806	82	1,885
95 LED	7900 LUMENS 95 LED UNDERGROUND LAMP COUNT 02	28	0	28
45w LED;70wHPS	4800 LUMENS 45W LED;70WHP OVERHEAD LAMP COUNT 01	4	0	4
45w LED;70wHPS	4800 LUMENS 45W LED;70WHP UNDERGROUND LAMP COUNT 01	1,096	26	1,122
180w LED; 400wMH Const	15100 LUMENS 180W LED; 400WMH CONST UNDERGROUND LAMP COUNT 0	891	105	993

180w LED; 400wMH Const	15100 LUMENS 180W LED; 400WMH CONST UNDERGROUND LAMP COUNT 0	28	0	28
115w LED;250MH	10850 LUMENS 115W LED;250MH OVERHEAD LAMP COUNT 01	10	1	11
115w LED;250MH	10850 LUMENS 115W LED;250MH UNDERGROUND LAMP COUNT 01	187	1	188
45w LED;100wMH	4800 LUMENS 45W LED;100WMH UNDERGROUND LAMP COUNT 01	23	1	24

Year	Lumen	Watt	begin	added	end
2017	7900 LUMEN LED	95	115	6	121
	7900 LUMEN LED	95	12	0	12
	4800 LUMEN LED	45	216	24	240
	4800 LUMEN LED	45	90	2	92
	4800 LUMEN LED	45	38,582	1,708	40,287
	4800 LUMEN LED	45	127	10	137
	4800 LUMEN LED	45	69	1	70
	4800 LUMEN LED	45	47,681	2,939	50,614
	4800 LUMEN LED	45	146	0	146
	15100 LUMEN LED	180	218	0	218
	15100 LUMEN LED	180	8	0	8
	10850 LUMEN LED	115	19,257	841	20,096

10850 LUMEN LED	115	178	4	182
10850 LUMEN LED	115	195	1	196
10850 LUMEN LED	115	150	0	150
10850 LUMEN LED	115	12,034	742	12,775
10850 LUMEN LED	115	402	86	486
10850 LUMEN LED	115	68	0	68
7900 LUMEN LED	95	15,896	1,160	17,055
7900 LUMEN LED	95	6	0	6
7900 LUMEN LED	95	19	0	19
7900 LUMEN LED	95	3,604	172	3,747
7900 LUMEN LED	95	48	4	52
4800 LUMEN LED	45	5	1	6
4800 LUMEN LED	45	1,597	134	1,731
15100 LUMEN LED	180	1,112	0	1,112
15100 LUMEN LED	180	34	0	34
10850 LUMEN LED	115	123	0	123
10850 LUMEN LED	115	1,126	88	1,212
4800 LUMEN LED	45	29	0	28

e. Total number of non-LED street lights by type of initial lumen and watt for City of Houston in each of the calendar years

Year	Lumen	Watt	Type	Total
2014	4,200	100w	MV	1480
	7,800	175w	MV	476
	22,600	400w	MV	264
	58,000	1000w	MV	4
	70w	6,000	HPS	2,189
	100w	9,500	HPS	99,410

150w	15,000	HPS	24,835
250w	28,000	HPS	40,463
400w	50,000	HPS	936
400w	32,200	MH	1,807
250w	19,475	MH	1,969
100w	7,900	MH	297

Year	Lumen	Watt	begin	added	end
2015	100 MV	4200 LUMENS 100 MV UNDERGROUND LAMP COUNT 01	334	0	328
	70 HPS	6000 LUMENS 70 HPS OVERHEAD LAMP COUNT 01	5	0	5
	175 MV	7800 LUMENS 175 MV OVERHEAD LAMP COUNT 01	94	0	68
	175 MV	7800 LUMENS 175 MV UNDERGROUND LAMP COUNT 01	12	0	10
	100 HPS	9500 LUMENS 100 HPS OVERHEAD LAMP COUNT 01	24,803	0	23,008
	100 HPS	9500 LUMENS 100 HPS OVERHEAD LAMP COUNT 01	121	0	119
	100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	56	0	45
	100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	46,595		45,233

100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 02	48	0	48
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	886	1	887
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 02	56	0	56
150 HPS	15000 LUMENS 150 HPS OVERHEAD LAMP COUNT 01	13,808	0	12,309
150 HPS	15000 LUMENS 150 HPS OVERHEAD LAMP COUNT 01	9	0	9
150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 01	4,566	0	4,339
150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 02	182	0	182
150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 01	106	0	106
400 MV	22600 LUMENS 400 MV OVERHEAD LAMP COUNT 01	72	0	48

400 MV	22600 LUMENS 400 MV UNDERGROUND LAMP COUNT 01	12	0	10
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 01	16,490	0	14,346
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 01	181	0	157
250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 01	203	0	147
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 02	228	0	222
250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 01	16,000	5	15,136
250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 02	904	0	870
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 02	56	0	52

250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 01	132	0	132
400 HPS	50000 LUMENS 400 HPS OVERHEAD LAMP COUNT 01	523	0	504
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 01	5	0	5
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 01	316	1	317
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 02	32	0	32
400 HPS	50000 LUMENS 400 HPS OVERHEAD LAMP COUNT 02	12	0	12
50 MH Preston	7900 LUMENS 50 MH PRESTON UNDERGROUND LAMP COUNT 05	40	0	40
50 MH Preston	7900 LUMENS 50 MH PRESTON UNDERGROUND LAMP COUNT 01	324	1	325

	250 MH Clear	19475 LUMENS 250 MH CLEAR OVERHEAD LAMP COUNT 01	145	0	144
	250 MH Clear	19475 LUMENS 250 MH CLEAR UNDERGROUND LAMP COUNT 01	1,702	0	1,701
	250 MH Coated	19475 LUMENS 250 MH COATED OVERHEAD LAMP COUNT 02	127	0	127
	400 MH Constl	32200 LUMENS 400 MH CONSTL OVERHEAD LAMP COUNT 01	36	0	35
	400 MH Constl	32200 LUMENS 400 MH CONSTL UNDERGROUND LAMP COUNT 01	1,553	1	1,433
	400 MH Theatre	32200 LUMENS 400 MH THEATRE UNDERGROUND LAMP COUNT 02	152	0	152
	400 MH Constl	32200 LUMENS 400 MH CONSTL OVERHEAD LAMP COUNT 02	182	0	182

Year	Lumen	Watt	begin	added	end
2016	100 MV	4200 LUMENS 100 MV OVERHEAD LAMP COUNT 01	57	0	55

100 MV	4200 LUMENS 100 MV UNDERGROUND LAMP COUNT 01	266	0	264
70 HPS	6000 LUMENS 70 HPS OVERHEAD LAMP COUNT 01	4	0	4
70 HPS	6000 LUMENS 70 HPS UNDERGROUND LAMP COUNT 01	975	0	943
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 01	42	0	38
175 MV	7800 LUMENS 175 MV OVERHEAD LAMP COUNT 01	35	0	35
175 MV	7800 LUMENS 175 MV UNDERGROUND LAMP COUNT 01	6	0	6
100 HPS	9500 LUMENS 100 HPS OVERHEAD LAMP COUNT 01	10,697	1	9,696
100 HPS	9500 LUMENS 100 HPS OVERHEAD LAMP COUNT 01	47	0	44
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	18	0	18

100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	32,485	18	31,455
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 02	46	2	46
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 01	905	132	1,037
100 HPS	9500 LUMENS 100 HPS UNDERGROUND LAMP COUNT 02	56	0	56
400 MH constl	32200 LUMENS 400 MH CONSTL UNDERGROUND LAMP COUNT 01	659	2	559
150 HPS	15000 LUMENS 150 HPS OVERHEAD LAMP COUNT 01	6,945	2	6,116
150 HPS	15000 LUMENS 150 HPS OVERHEAD LAMP COUNT 01	7	0	7
150 HPS	15000 LUMENS 150 HPS OVERHEAD LAMP COUNT 01	7	0	7
150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 01	3,215	2	3,128

150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 02	168	2	166
150 HPS	15000 LUMENS 150 HPS UNDERGROUND LAMP COUNT 01	106	0	106
400 MV	22600 LUMENS 400 MV OVERHEAD LAMP COUNT 01	17	0	17
400 MV	22600 LUMENS 400 MV UNDERGROUND LAMP COUNT 01	2	0	2
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 01	8,344	1	7,829
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 01	92	0	88
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 02	192	0	188
250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 01	11,011	10	10,667

250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 02	682	4	670
250 HPS	28000 LUMENS 250 HPS OVERHEAD LAMP COUNT 02	62	4	64
250 HPS	28000 LUMENS 250 HPS UNDERGROUND LAMP COUNT 01	132	0	132
400 HPS	50000 LUMENS 400 HPS OVERHEAD LAMP COUNT 01	429	0	414
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 01	4	0	4
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 01	277	0	272
400 HPS	50000 LUMENS 400 HPS UNDERGROUND LAMP COUNT 02	32	0	32
400 HPS	50000 LUMENS 400 HPS OVERHEAD LAMP COUNT 02	12	0	12

50 MH Preston	7900 LUMENS 50 MH PRESTON UNDERGROUND LAMP COUNT 05	20	20	40
100 MH	7900 LUMENS 100 MH UNDERGROUND LAMP COUNT 01	413	1	365
250 MH Clear	19475 LUMENS 250 MH CLEAR OVERHEAD LAMP COUNT 01	145	2	141
250 MH Clear	19475 LUMENS 250 MH CLEAR UNDERGROUND LAMP COUNT 01	1,493	0	1,490
250 MH Coated	19475 LUMENS 250 MH COATED OVERHEAD LAMP COUNT 02	107	10	113
400 MH Constl	32200 LUMENS 400 MH CONSTL OVERHEAD LAMP COUNT 01	24	0	21
400 MH Theatre	32200 LUMENS 400 MH THEATRE UNDERGROUND LAMP COUNT 02	116	4	116
400 MH Constl	32200 LUMENS 400 MH CONSTL OVERHEAD LAMP COUNT 02	178	4	182

Year	Lumen	Watt	begin	added	end
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2017	4200 LUMEN MV	100	41	0	17
	4200 LUMEN MV	100	192	0	183
	6000 LUMEN HPS	70	4	0	3
	6000 LUMEN HPS	70	406	0	270
	7800 LUMEN MV	175	20	0	14
	7800 LUMEN MV	175	2	0	2
	9500 LUMEN HPS	100	3,563	0	1,856
	9500 LUMEN HPS	100	30	0	20
	9500 LUMEN HPS	100	4	0	3
	9500 LUMEN HPS	100	10,860	2	7,963
	9500 LUMEN HPS	100	36	0	36
	9500 LUMEN HPS	100	1,055	1	1,056
	9500 LUMEN HPS	100	54	0	54
	15000 LUMEN HPS	150	3,343	0	2,181
	15000 LUMEN HPS	150	4	0	4
	15000 LUMEN HPS	150	7	0	7
	15000 LUMEN HPS	150	1,429	0	1,258
	15000 LUMEN HPS	150	162	0	158
	15000 LUMEN HPS	150	106	0	106
	22600 LUMEN MV	400	14	0	14
	22600 LUMEN MV	400	2	0	2
	28000 LUMEN HPS	250	3,034	0	2,196
	28000 LUMEN HPS	250	34	0	30
	28000 LUMEN HPS	250	10	0	9
	28000 LUMEN HPS	250	106	0	106

28000 LUMEN HPS	250	6,368	3	5,729
28000 LUMEN HPS	250	526	2	448
28000 LUMEN HPS	250	58	0	58
28000 LUMEN HPS	250	133	0	133
50000 LUMEN HPS	400	103	0	102
50000 LUMEN HPS	400	4	0	4
50000 LUMEN HPS	400	199	0	197
50000 LUMEN HPS	400	18	0	18
50000 LUMEN HPS	400	12	0	12
7900 LUMEN MH	100	40	0	40
7900 LUMEN MH	100	384	6	389
19475 LUMEN MH	250	20	0	20
19475 LUMEN MH	250	561	0	466
19475 LUMEN MH	250	123	0	123
32200 LUMEN MH	400	7	0	7
32200 LUMEN MH	400	437	0	437
32200 LUMEN MH	400	114	0	114

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH02-07U**

QUESTION:

Please refer to page 37 of Mr. Troxle's testimony and provide the following information:

- a. Total number of street lights in each of the calendar years 2014, 2015, 2016, and 2017.
- b. Total number of LED street lights by type of initial lumen and watt that CenterPoint installed to replace the non-LED street lights in each of the calendar years 2014, 2015, 2016, 2017, and 2018.
- c. Total number of LED street lights by type of initial lumen and watt that CenterPoint installed to replace the non-LED street lights for City of Houston in each of the calendar years 2014, 2015, 2016, 2017, and 2018.

ANSWER:

This response is being updated to provide the excel version of COH02-07 Attachment 1.pdf that was originally filed May 9, 2019. See attached COH02-07U Attachment 1.xlsx

SPONSOR (PREPARER):

Julienne Sugarek (Julienne Sugarek)

RESPONSIVE DOCUMENTS:

COH02-07U Attachment 1.xlsx

COH 02-07 Attachment 1

Please refer to page 37 of Mr. Troxle's testimony and provide the following information:

a. Total number of street lights in each of the calendar years 2014, 2015, 2016, and 2017

2014	245,152
2015	422,923
2016	440,724
2017	453,125

b. Total number of LED street lights by lumen and watt that CNP installed to replace non-LED streetlights in each year

2014		
Wattage	Lumens	Quantity
45W	4800	-
95W	7900	-
115W	10850	-
180W	15100	-
Total		-

2017		
Wattage	Lumens	Quantity
45W	4800	39,576
95W	7900	6,246
115W	10850	12,293
180W	15100	148
Total		58,263

2015		
Wattage	Lumens	Quantity
45W	4800	39,752
95W	7900	8,791
115W	10850	11,145
180W	15100	196
Total		59,884

2018		
Wattage	Lumens	Quantity
45W	4800	22,377
95W	7900	2,420
115W	10850	6,667
180W	15100	776
Total		32,240

2016		
Wattage	Lumens	Quantity
45W	4800	38,614
95W	7900	8,096
115W	10850	14,071
180W	15100	916
Total		61,697

c. Total number of LED street lights by type of initial lumen and watt that CenterPoint installed to replace the non-LED streetlights for City of Houston in each of the calendar years 2014, 2015, 2016, 2017, and 2018.

2014		
Wattage	Lumens	Quantity
45W	4800	-
95W	7900	-
115W	10850	-
180W	15100	-
Total		-

2015		
Wattage	Lumens	Quantity
45W	4800	38,603
95W	7900	8,721
115W	10850	10,997
180W	15100	196
Total		58,517

2016		
Wattage	Lumens	Quantity
45W	4800	30,126
95W	7900	7,388
115W	10850	12,598
180W	15100	902
Total		51,014

2017		
Wattage	Lumens	Quantity
45W	4800	30,384
95W	7900	5,630
115W	10850	11,429
180W	15100	144
Total		47,587

2018		
Wattage	Lumens	Quantity
45W	4800	7,089
95W	7900	2,105
115W	10850	6,405
180W	15100	322
Total		15,921

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**CITY OF HOUSTON
REQUEST NO.: COH02-10U**

QUESTION:

Please provide the costs of purchasing the LED light bulbs to replace non-LED lights that were incurred in 2015, 2016, 2017, and 2018. Please provide copies of invoices showing the purchase prices for the LED Light bulbs.

ANSWER:

This response is being updated to provide the excel version of COH02-10 Attachment 43.pdf that was originally filed May 9, 2019. See attached COH02-10U Attachment 43.xlsx.

SPONSOR (PREPARER):

Julienne Sugarek (Julienne Sugarek)

RESPONSIVE DOCUMENTS:

COH02-10U Attachment 43.pdf

COH2-10 Attachment 1

2-10: Please provide costs of purchasing the LED light bulbs to replace non-LED lights that were incurred in 2015, 2016, 2017, and 2018.

Int. material no.	Material description	Matl group	2015 Spend	2016 Spend	2017 Spend	2018 Spend	Invoice	Price
257644	LUMINAIRE,TEXAN,LED,150W,120V	30580	\$ -	\$ -	\$ -	\$ -	N/A	
257645	LUMINAIRE,GRANVILLE,LED,100W,120V	30580	\$ -	\$ -	\$ -	\$ -	N/A	
259331	LUMINAIRE,ROADSTAR,LED,45W,120V,NP AL	30580	\$ 28,840.00	\$ 2,472.00	\$ -	\$ -	8912683978	\$ 412.00
259334	LUM,ROADSTAR,LED,40W,120V,TYPE II,BROWN	30580	\$ -	\$ -	\$ -	\$ -	N/A	
260260	RELAY,120V,LED,ST LT,PHOTOELECTRIC	30580	\$ 1,143,792.00	\$ 991,584.00	\$ 990,496.80	\$ 565,128.00	S011286387.001	\$ 16.92
260559	LUMINAIRE,LED,45-56W,120V,TYPE II,MEDIUM	30580	\$ 8,820,435.00	\$ 3,541,360.00	\$ 4,817,708.00	\$ 2,401,735.00	S011292541.003	\$ 105.00
262248	LUMINAIRE,LED,95WATT,120V,TYPE II	30580	\$ 3,551,830.50	\$ 210,408.00	\$ 1,049,104.00	\$ 15,960.00	S010390911.005	\$ 152.00
262249	LUMINAIRE,LED,115WATT,120V,TYPE III	30580	\$ 5,657,534.00	\$ 1,950,000.00	\$ 1,971,840.00	\$ 193,635.00	S011186062.003	\$ 195.00
262250	LUMINAIRE,LED,95WATT,480V,TYPE II	30580	\$ -	\$ 16,000.00	\$ 160,000.00	\$ 211,500.00	S010763125.005	\$ 250.00
262251	LUMINAIRE,LED,115WATT,480V,TYPE III	30580	\$ 210,000.00	\$ 375,765.00	\$ 750,160.00	\$ 457,728.00	S010763125.003	\$ 183.00
262253	LUM,ROADSTAR,LED,180W,120V,TYPE III,GRAY	30580	\$ 766,325.00	\$ 179,690.00	\$ -	\$ 15,341.00	S010875870.001	\$ 667.00
262254	LUM,ROADSTAR,LED,180W,480V,TYPE III,GRAY	30580	\$ 76,255.00	\$ -	\$ -	\$ 8,220.00	S010686279.001	\$ 685.00
262255	LUMINAIRE,LED,180WROADSTAR,480V,III,NP	30580	\$ 76,255.00	\$ 40,196.00	\$ -	\$ 16,440.00	S010593481.007	\$ 685.00
263286	LUMINAIRE,LED,180WROADSTAR,120V,III,NP	30580	\$ 5,285.00	\$ 25,670.00	\$ -	\$ 15,864.00	S010593481.007	\$ 661.00
263383	LUMINAIRE,LED,45-56W,120V,TYPE II,BLACK	30580	\$ 11,700.00	\$ 40,348.00	\$ 47,278.00	\$ 76,384.00	S011265353.001	\$ 154.00

263419	LUM,MIDTOWN,LED,115W,120V, TYPE III,BLACK	30580	\$ 7,320.00	\$ 234,915.00	\$ 1,158,465.00	\$ 190,275.00	S011146500.003	\$ 885.00
263650	LUM,ROADSTAR,LED,45W,120V,F AWS,W/LENS,NP	30580	\$ 40,250.00	\$ -	\$ -	\$ -	8912164921	\$ 575.00
263694	LUMINAIRE,LED,180W ROADSTAR,480V,III,BLK	30580	\$ -	\$ 10,885.00	\$ -	\$ -	8912232168	\$ 777.50
263696	LUMINAIRE,LED,115W,120V,TYPE III,BLACK	30580	\$ -	\$ 13,104.00	\$ -	\$ 18,399.00	S011030109.001	\$ 195.00
264188	LUM,LED,180W ROADSTAR,120V,III,BLK	30580	\$ -	\$ 4,557.00	\$ 8,593.00	\$ -	S010304563.003	\$ 661.00
264293	LUMINAIRE,LED,115W ROADSTAR,480V,III,BLK	30580	\$ -	\$ 14,504.00	\$ 114,855.00	\$ 49,755.00	S011163390.001	\$ 465.00
264294	LUMINAIRE,LED,115W ROADSTAR,480V,III,GRA	30580	\$ -	\$ 17,612.00	\$ 69,285.00	\$ 26,505.00	S011028283.001	\$ 465.00
264346	LUM,ROADSTAR,LED,45W,120V,T YPE II,BLACK	30580	\$ -	\$ 16,892.00	\$ 7,770.00	\$ 9,990.00	S010639995.001	\$ 370.00
264531	LUMINAIRE SHIELD,LED,B/L,ROADFOCUS	30580	\$ -	\$ 120.00	\$ 160.00	\$ -	S010425710.003	\$ 4.00
264532	LUMINAIRE SHIELD,LED,B/L,CREE XSP1	30580	\$ -	\$ 270.00	\$ -	\$ -	1910723	\$ 9.00
264533	LUMINAIRE SHIELD,LED,B/L, EOI SL3C	30580	\$ -	\$ 202.50	\$ 220.00	\$ -	S010425710.001	\$ 5.50
265220	LUMINAIRE,LED,45- 56W,120V,TYPE II,MEDIUM	30580	\$ -	\$ 645,120.00	\$ -	\$ -	8912610331	\$ 112.00
265335	LUM,MIDTOWN,LED,45W,120V,T YPE III,3K,BLK	30580	\$ -	\$ 20,625.00	\$ 133,650.00	\$ 211,200.00	S011211486.001	\$ 825.00
265895	LUM,LED,ROADFOCUS,180W,120 V,III,GRAY	30580	\$ -	\$ -	\$ 69,870.00	\$ -	S010528235.001	\$ 411.00
265896	LUM,LED,ROADFOCUS,180W,480 V,III,GRAY	30580	\$ -	\$ -	\$ 69,795.00	\$ -	S010331184.001	\$ 423.00
266254	LUMINAIRE,LED,115W ROADSTAR,120V,III,BLK	30580	\$ -	\$ -	\$ 21,560.00	\$ 1,320.00	S011212040.001	\$ 440.00
266261	LUM,GRANVILLE,LED,45W,120V, 3K,NO GLOBE,B	30580	\$ -	\$ -	\$ 375,250.00	\$ 20,145.00	S011261387.001	\$ 395.00
266277	LUMINAIRE,LED,95WATT,120V,T YPE II,BLK	30580	\$ -	\$ -	\$ 23,940.00	\$ 1,470.00	S010830405.001	\$ 210.00
266709	LUM,GRANVILLE,LED,45W,120V, 3K,W GLOBE,BK	30580	\$ -	\$ -	\$ -	\$ 372,235.00	S011301220.001	\$ 545.00
266710	LUM,GRANVILLE,LED,45W,120V, 3K,NO GLOBE,G	30580	\$ -	\$ -	\$ -	\$ 5,172.00	S010598440.001	\$ 431.00

266711	LUM,GRANVILLE,LED,45W,120V, 3K,W GLOBE,GN	30580	\$ -	\$ -	\$ -	\$ 6,972.00	S010598440.001	\$ 581.00
266956	LUM,GRANVILLE,LED,95W,120V, 4K,W/GLOBE,GR	30580	\$ -	\$ -	\$ -	\$ -	N/A	
266958	LUM,GRANVILLE,LED,95W,120V, 4K,NO GLOBE,G	30580	\$ -	\$ -	\$ -	\$ -	N/A	
266959	LUM,GRANVILLE,LED,95W,120V, 4K,W/GLOBE,BK	30580	\$ -	\$ -	\$ -	\$ 31,729.95	24503922	\$ 570.00
266961	LUM,GRANVILLE,LED,95W,120V, 4K,NO GLOBE,B	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267027	LUMINAIRE,TEXAN,LED,120V,180 W RED BROWN	30580	\$ -	\$ -	\$ -	\$ 312,550.00	S010741632.005	\$ 950.00
267084	LUMINAIRE,HALLBROOK,LED,45 W,120V,3K,BLK	30580	\$ -	\$ -	\$ -	\$ 21,673.60	S010830392.003	\$ 833.60
267085	LUMINAIRE,TRADITIONAIRE,LED, 95W,120V,4K	30580	\$ -	\$ -	\$ -	\$ 61,822.46	S010764274.001	\$ 577.78
267087	LUMINAIRE,TRADITIONAIRE,LED, 45W,120V,3K	30580	\$ -	\$ -	\$ -	\$ 669,150.00	S011211535.001	\$ 420.00
267112	LUMINAIRE,MIDTOWN,LED,115 W,480V,III,BLAC	30580	\$ -	\$ -	\$ -	\$ 39,333.20	S010737473.001	\$ 983.33
267243	LUM,GRNVL,LED,95W,120V,4K,W /BLK CAGE,BLK	30580	\$ -	\$ -	\$ -	\$ 26,656.00	S010796892.003	\$ 833.00
267244	LUM,GRNVL LUNAR OPTIC,LED,95W,120V,4K,BL	30580	\$ -	\$ -	\$ -	\$ 40,800.24	S010796915.003	\$ 755.56
267245	LUM,GRNVL,LED,95W,480V,4K,W /GOLD CAGE,BL	30580	\$ -	\$ -	\$ -	\$ 44,653.56	S010796913.003	\$ 875.56
267555	LUM,GRNVL,LED,45W,120V,3K,F ULL COVER,BLK	30580	\$ -	\$ -	\$ -	\$ 3,150.00	S011267331.001	\$ 747.50
267556	LUM,GRNVL,LED,45W,480V,3K,F ULL COVER,BLK	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267785	LUM,HOUSTONIAN,LED,115W,12 OV,4K,GREEN	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267786	LUM,SWEETWATER,LED,115W,12 OV,4K,BLACK	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267787	LUM,SWEETWATER,LED,115W,48 OV,4K,BLACK	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267951	LUM,TRADITIONAIRE,LED,45W,1 20V,3K,NO PAN	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267952	LUM,TRADITIONAIRE,LED,115W, 120V,4K,BLACK	30580	\$ -	\$ -	\$ -	\$ -	N/A	

267953	LUM,TRADITIONAIRE,LED,115W, 480V,4K,BLACK	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267978	LUM,GRANVILLE,LED,45W,480V, 3K,W GLOBE,BK	30580	\$ -	\$ -	\$ -	\$ -	N/A	
267992	LUM,GRNVL,LED,45W,120V,3K,W /GOLD CAGE,BL	30580	\$ -	\$ -	\$ -	\$ -	N/A	
			\$ 20,395,821.50	\$ 8,352,299.50	\$ 11,839,999.80	\$ 6,142,892.01		

CERTIFICATE OF SERVICE

I hereby certify that on this 14th day of May 2019, a true and correct copy of the foregoing document was served on all parties of record in accordance with 16 Tex. Admin. Code § 22.74.


