



2019 Custom CSOP By Rate Code

D0	51.04	-	\$17,194.36
D0	79.84	365,761.80	\$37,572.50
D0	85.78	728,065.80	\$59,466.46
DJ	5.38	70,667.20	\$8,304.04
DQ	56.84	94,334.00	\$25,723.52
E0	-	(53.70)	(\$3.15)
E0	2.06	18,069.80	\$1,883.64
E0	2.35	20,609.50	\$2,149.27
E0	7.79	81,323.90	\$8,113.59
E0	80.63	370,536.40	\$38,004.61
Grand Total	572.12	2,765,155.40	\$304,851.72



2019 Small Bus. Direct Install By Rate Code

Rate Code	kW Savings	kWh Savings	Incentives	
D0	1,199.72	6,000,910.20	\$1,216,299.89	0.64684
D1	173.40	748,331.90	\$135,264.36	0.07193
D6	86.89	371,208.90	\$95,831.30	0.05096
D7	12.78	48,103.00	\$10,240.73	0.00545
DC	71.75	287,760.10	\$49,252.51	0.02619
DJ	255.13	1,262,038.80	\$277,539.05	0.14760
DK	5.42	21,428.60	\$4,372.37	0.00233
DQ	77.90	386,583.80	\$86,014.35	0.04574
EC	8.94	23,947.70	\$5,564.69	0.00296
Grand Total	1,891.93	9,150,313.00	1,880,379.25	1.00000

Rate Code	kW Savings	kWh Savings	Incentives
D0	0	0	\$0.01
D0	0	0	\$6.00
D0	0	0	\$6.00
D0	-	-	\$6.00
D0	-	-	\$6.00
D0	-	-	\$6.00
D0	-	-	\$6.00
D0	-	-	\$6.00
D0	-	-	\$12.00
D0	-	-	\$24.00
D0	-	-	\$32.75
D0	-	-	\$59.33
D0	-	-	\$74.23
D0	-	-	\$101.32
D0	-	-	\$110.00
D0	-	-	\$188.15

Rate Code	kW Savings	kWh Savings	Incentives
D0	-	-	\$195.78
D0	-	-	\$297.42
D0	-	-	\$363.40
D0	-	-	\$427.64
D0	-	-	\$468.24
D0	-	-	\$576.48
D0	-	-	\$1,893.14
D0	-	-	\$3,069.36
D0	0.01	29.20	\$0.00
D0	0.01	96.60	\$0.00
D0	0.01	23.40	\$4.30
D0	0.01	49.90	\$10.49
D0	0.03	125.20	\$0.00
D0	0.03	127.00	\$24.26
D0	0.04	201.80	\$52.95
D0	0.05	188.50	\$0.00



2019 Small Bus. Direct Install By Rate Code

Rate Code	kW Savings	kWh Savings	Incentives
D0	0.05	210.20	\$43.71
D0	0.05	194.50	\$45.25
D0	0.07	316.80	\$56.82
D0	0.07	299.60	\$62.94
D0	0.07	277.30	\$65.17
D0	0.07	415.60	\$87.27
D0	0.08	251.60	\$52.83
D0	0.09	323.60	\$64.37
D0	0.09	387.20	\$80.83
D0	0.10	374.70	\$131.13
D0	0.10	691.10	\$143.90
D0	0.12	687.60	\$174.55
D0	0.14	701.70	\$90.15
D0	0.14	570.30	\$123.45
D0	0.14	516.00	\$178.81
D0	0.15	541.80	\$160.93
D0	0.15	504.30	\$210.62
D0	0.16	580.40	\$49.19
D0	0.16	919.10	\$193.01
D0	0.17	600.80	\$124.66
D0	0.17	674.90	\$164.72
D0	0.18	1,176.00	\$245.60
D0	0.18	495.20	\$253.55
D0	0.18	894.40	\$273.86
D0	0.19	702.80	\$146.45
D0	0.19	1,078.90	\$253.55
D0	0.23	737.20	\$284.78
D0	0.26	1,324.10	\$275.94
D0	0.26	1,767.00	\$367.40
D0	0.28	1,001.40	\$48.02
D0	0.29	1,188.90	\$294.29
D0	0.30	1,083.70	\$252.13
D0	0.30	1,200.70	\$282.16
D0	0.30	1,200.70	\$282.16
D0	0.31	1,263.50	\$256.27

Rate Code	kW Savings	kWh Savings	Incentives
D0	0.35	1,412.60	\$306.06
D0	0.38	1,590.40	\$373.74
D0	0.39	1,678.10	\$352.40
D0	0.40	2,011.00	\$0.00
D0	0.42	1,644.60	\$1,582.20
D0	0.44	1,775.50	\$370.80
D0	0.44	3,216.80	\$676.74
D0	0.45	3,139.70	\$918.92
D0	0.46	1,974.50	\$356.06
D0	0.46	2,300.20	\$474.22
D0	0.49	2,619.10	\$746.61
D0	0.54	2,027.70	\$427.48
D0	0.54	2,091.30	\$436.75
D0	0.55	2,449.80	\$0.00
D0	0.58	2,710.70	\$562.74
D0	0.60	3,222.40	\$637.76
D0	0.61	2,579.10	\$553.42
D0	0.62	2,515.30	\$528.21
D0	0.64	3,177.30	\$662.57
D0	0.64	1,810.20	\$732.75
D0	0.67	3,105.20	\$859.13
D0	0.69	2,172.00	\$947.31
D0	0.70	4,143.60	\$0.00
D0	0.71	4,000.00	\$935.31
D0	0.75	2,694.70	\$536.44
D0	0.77	4,451.10	\$0.00
D0	0.77	2,786.00	\$605.11
D0	0.79	3,221.80	\$927.01
D0	0.80	2,896.80	\$812.04
D0	0.83	3,235.20	\$679.38
D0	0.86	3,319.70	\$0.00
D0	0.88	4,086.40	\$879.35
D0	0.92	4,241.90	\$1,048.94
D0	0.93	4,031.20	\$983.58
D0	0.95	3,976.00	\$830.57



2019 Small Bus. Direct Install By Rate Code

D0	0.32	1,330.70	\$276.60
D0	0.35	1,271.60	\$214.10

Rate Code	kW Savings	kWh Savings	Incentives
D0	1.06	4,327.40	\$870.62
D0	1.06	4,914.90	\$1,029.63
D0	1.07	4,339.70	\$911.35
D0	1.08	4,394.80	\$848.73
D0	1.10	6,213.80	\$1,457.12
D0	1.11	6,783.00	\$1,795.43
D0	1.12	6,449.20	\$0.00
D0	1.14	5,881.40	\$961.61
D0	1.16	5,133.10	\$0.00
D0	1.27	5,460.90	\$1,153.57
D0	1.30	5,108.80	\$1,178.40
D0	1.34	4,256.40	\$871.71
D0	1.35	7,476.50	\$1,798.30
D0	1.36	5,732.80	\$1,233.62
D0	1.39	6,957.30	\$0.00
D0	1.39	5,972.80	\$1,966.44
D0	1.42	5,400.90	\$1,136.55
D0	1.45	5,874.10	\$1,229.41
D0	1.45	6,091.00	\$1,270.22
D0	1.55	5,596.80	\$1,575.17
D0	1.64	8,200.10	\$1,072.93
D0	1.65	7,510.40	\$1,754.19
D0	1.66	9,362.60	\$1,975.38
D0	1.67	6,764.70	\$1,445.31
D0	1.73	5,484.90	\$2,350.88
D0	1.81	8,164.30	\$1,956.19
D0	1.85	8,862.90	\$1,952.02
D0	1.87	7561.6	\$915.96
D0	2.03	13295.1	\$2,795.07
D0	2.08	8970	\$1,927.00
D0	2.09	6625.8	\$2,675.24
D0	2.14	8992.6	\$0.00

D0	0.97	3,752.20	\$827.94
D0	0.97	5,278.90	\$1,108.61

Rate Code	kW Savings	kWh Savings	Incentives
D0	2.24	15,220.80	\$5,143.19
D0	2.33	9,956.70	\$2,153.02
D0	2.35	11,695.90	\$2,588.22
D0	2.47	10,383.10	\$2,105.27
D0	2.48	11,502.70	\$3,415.58
D0	2.48	16,256.50	\$3,550.31
D0	2.51	9,073.30	\$1,833.20
D0	2.53	13,526.80	\$2,917.52
D0	2.58	10,828.60	\$0.00
D0	2.58	14,513.50	\$3,358.08
D0	2.59	12,466.00	\$0.00
D0	2.59	10,882.80	\$1,787.97
D0	2.62	11,020.00	\$2,301.94
D0	2.65	10,302.60	\$2,206.06
D0	2.66	18,698.80	\$5,348.51
D0	2.86	11,606.70	\$2,790.29
D0	2.86	11,606.70	\$2,790.29
D0	2.91	16,353.60	\$3,383.50
D0	2.99	12,573.00	\$2,954.66
D0	3.02	12,553.00	\$2,711.16
D0	3.05	19,846.30	\$4,260.14
D0	3.06	17,234.70	\$7,283.91
D0	3.13	11,501.40	\$3,285.85
D0	3.39	12,256.10	\$2,144.26
D0	3.39	13,925.30	\$3,676.64
D0	3.55	15,943.10	\$5,887.62
D0	3.60	16,396.40	\$3,313.94
D0	3.87	24,022.50	\$4,476.66
D0	4.01	20,457.10	\$4,296.00
D0	4.11	20,610.50	\$3,004.48
D0	4.13	15,592.60	\$4,235.77
D0	4.17	26,561.80	\$0.00



2019 Small Bus. Direct Install By Rate Code

D0	2.17	7832.1	\$60.07
D0	2.19	8289.1	\$1,738.35
D0	2.2	10974.6	\$3,210.91
D0	2.21	8358.3	\$2,217.31
D0	2.24	12167.8	\$3,932.24

Rate Code	kW Savings	kWh Savings	Incentives
D0	4.3	22637.7	\$4,804.20
D0	4.3	23844.3	\$4,983.15
D0	4.47	18640.7	\$3,901.35
D0	4.51	29018.5	\$5,667.06
D0	4.59	25846.1	\$904.61
D0	4.66	30583.4	\$6,294.88
D0	4.69	19725.4	\$4,489.32
D0	4.72	21058.5	\$5,001.72
D0	4.89	20549.9	\$4,353.40
D0	4.93	26675.8	\$8,570.43
D0	5.04	29413.9	\$5,955.92
D0	5.18	21790.6	\$4,913.34
D0	5.33	21933.8	\$3,590.73
D0	5.4	20994.1	\$4,365.06
D0	5.45	20507.3	\$3,835.73
D0	5.6	38089.7	\$7,771.55
D0	5.7	35756.5	\$0.00
D0	5.89	22823.8	\$0.00
D0	5.94	37071.9	\$0.00
D0	5.99	28595.3	\$4,686.63
D0	6.04	25379.2	\$5,077.83
D0	6.7	37690.4	\$7,914.96
D0	6.72	39201.8	\$8,069.22
D0	6.96	39065.2	\$0.00
D0	7.12	29958.7	\$6,291.35
D0	7.15	41650.9	\$8,735.23
D0	7.33	45441.3	\$0.00
D0	7.69	33370.5	\$7,004.54
D0	7.86	42675.6	\$9,964.96

D0	4.17	16,884.40	\$3,576.20
D0	4.17	14,530.80	\$6,094.16
D0	4.20	23,640.40	\$4,964.47
D0	4.21	15,591.80	\$1,202.31
D0	4.23	17,768.70	\$3,484.02

Rate Code	kW Savings	kWh Savings	Incentives
D0	10.00	38,767.50	\$8,967.33
D0	10.30	46,896.50	\$0.00
D0	10.69	47,232.60	\$9,830.76
D0	11.16	45,224.50	\$9,564.27
D0	11.26	63,384.60	\$13,312.16
D0	12.05	51,387.00	\$13,521.08
D0	12.32	52,089.90	\$6,522.71
D0	13.73	96,542.50	\$17,841.14
D0	14.43	74,001.30	\$15,586.40
D0	15.00	84,433.50	\$22,460.11
D0	15.22	62,776.00	\$17,203.01
D0	16.52	81,431.10	\$24,483.71
D0	16.62	47,755.00	\$9,017.33
D0	17.58	120,769.90	\$18,239.43
D0	19.29	78,521.70	\$15,954.56
D0	20.52	101,110.60	\$21,331.21
D0	20.61	105,232.20	\$21,850.41
D0	21.68	162,007.30	\$34,012.34
D0	21.88	92,024.70	\$19,385.29
D0	22.06	124,171.80	\$27,627.26
D0	22.07	84,004.30	\$20,924.17
D0	22.57	103,838.60	\$21,093.56
D0	24.35	168,079.30	\$26,636.18
D0	37.03	150,111.40	\$30,206.49
D0	38.45	170,715.00	\$41,855.30
D0	41.57	163,308.50	\$34,847.41
D0	43.67	217,900.70	\$46,966.84
D0	53.18	219,722.20	\$48,688.73
D0	60.68	430,408.70	\$77,268.00



2019 Small Bus. Direct Install By Rate Code

D0	8.08	45494.6	\$9,552.99
D0	8.3	49964.6	\$0.00
D0	8.82	38985.7	\$11,740.24
D0	8.91	37355.8	\$7,718.75
D0	9.06	39889.7	\$7,164.99
D0	9.06	34301.8	\$10,825.07
D0	9.23	37576	\$8,849.44
D0	9.43	60569.2	\$11,732.72

Rate Code	kW Savings	kWh Savings	Incentives
D1	1.6	8175.5	\$1,716.85
D1	1.75	7234.4	\$1,328.84
D1	2.03	11412.6	\$2,681.96
D1	2.81	13755.7	\$0.00
D1	3.83	14881.8	\$3,125.17
D1	6.97	27770.7	\$0.00
D1	6.99	27190.7	\$15,510.48
D1	145.12	628220.7	\$108,886.72
D6	0	0	\$6.00
D6	0	0	\$12.00
D6	0	0	\$396.57
D6	0.02	64.4	\$12.01
D6	0.03	125.5	\$23.07
D6	0.16	616.5	\$39.80
D6	0.49	1782.8	\$462.13
D6	0.56	3241.1	\$646.72
D6	0.67	2731	\$370.97
D6	0.67	2836.2	\$589.71
D6	0.92	3329.5	\$699.21
D6	1.13	3707.9	\$749.20
D6	1.25	5086	\$10,296.11
D6	1.64	4596.4	\$2,757.89
D6	1.64	6647.8	\$2,757.89
D6	1.9	7390.3	\$1,545.09
D6	2.02	8192.9	\$1,720.53
D6	2.41	8690.4	\$1,870.05

D0	101.44	573,429.10	\$127,560.63
D1	-	-	\$33.00
D1	0.05	249.60	\$45.25
D1	0.07	407.60	\$83.92
D1	0.30	1,167.00	\$242.64
D1	0.45	1,641.60	\$0.00
D1	0.70	3,147.40	\$0.00
D1	0.73	3,076.60	\$1,609.53

Rate Code	kW Savings	kWh Savings	Incentives
DC	0.05	212.40	\$53.34
DC	0.05	303.70	\$83.92
DC	0.11	433.80	\$91.09
DC	0.17	662.50	\$132.64
DC	0.87	5,936.60	\$2,335.01
DC	1.00	3,626.40	\$762.74
DC	1.03	3,730.00	\$733.75
DC	1.11	5,417.20	\$1,131.39
DC	1.13	4,583.00	\$949.26
DC	1.37	5,563.90	\$1,168.45
DC	1.44	3,861.00	\$1,119.71
DC	1.92	7,487.00	\$1,611.12
DC	2.04	11,219.70	\$2,940.26
DC	2.19	5,860.60	\$1,710.66
DC	3.58	13,554.10	\$0.00
DC	4.54	18,733.20	\$3,931.96
DC	4.60	19,240.70	\$6,149.15
DC	6.32	24,590.60	\$6,244.55
DC	16.04	68,097.00	\$17,551.45
DC	22.19	84,646.70	\$0.00
DJ	-	-	\$6.00
DJ	-	-	\$6.00
DJ	-	-	\$12.00
DJ	-	-	\$27.50
DJ	-	-	\$56.80
DJ	-	-	\$428.17



2019 Small Bus. Direct Install By Rate Code

D6	3.89	15788.4	\$6,549.98
D6	4.1	15521.3	\$3,332.71
D6	4.53	14748.1	\$5,334.98
D6	8.34	25443.9	\$5,321.87
D6	19.41	59400.9	\$12,529.95
D6	31.11	181267.6	\$37,806.86
D7	0	0	\$164.15
D7	3.76	14888.2	\$3,152.30
D7	9.02	33214.8	\$6,924.28
DC	0	0	\$93.86
DC	0	0	\$458.20

Rate Code	kW Savings	kWh Savings	Incentives
DJ	0.54	2838.6	\$570.11
DJ	0.57	3978.5	\$829.64
DJ	0.74	2801.9	\$588.39
DJ	0.76	2869.5	\$596.28
DJ	0.78	2952.1	\$615.21
DJ	0.81	4746.2	\$898.13
DJ	1.12	4696.2	\$975.69
DJ	1.38	5803	\$1,038.95
DJ	1.51	6348.7	\$1,936.53
DJ	1.52	7604.7	\$1,850.98
DJ	1.82	9082.1	\$2,090.57
DJ	2.11	6854.4	\$6,283.08
DJ	2.13	8632.5	\$1,933.67
DJ	2.85	18313.5	\$3,817.31
DJ	3.11	13068.4	\$2,706.78
DJ	3.3	19199.2	\$6,911.11
DJ	3.63	14126.9	\$2,822.69
DJ	3.68	25862	\$5,550.89
DJ	4.22	16426.1	\$3,245.34
DJ	4.57	19242.1	\$4,499.19
DJ	4.6	26776.2	\$4,043.72
DJ	5.43	23153.4	\$6,031.84
DJ	5.45	22417.7	\$4,572.91

DJ	-	-	\$703.55
DJ	-	-	\$865.45
DJ	0.01	54.50	\$19.07
DJ	0.05	194.50	\$44.29
DJ	0.09	378.90	\$79.56
DJ	0.16	666.10	\$139.89
DJ	0.20	785.60	\$162.90
DJ	0.31	974.10	\$200.88
DJ	0.36	1,495.20	\$262.31
DJ	0.42	3,047.50	\$606.12
DJ	0.46	1,957.40	\$335.42

Rate Code	kW Savings	kWh Savings	Incentives
DQ	-	-	\$3,625.47
DQ	0.18	1,024.10	\$212.78
DQ	0.23	620.50	\$130.63
DQ	0.30	1,072.90	\$242.64
DQ	0.34	1,215.90	\$255.20
DQ	0.43	1,545.10	\$316.56
DQ	1.01	3,637.00	\$713.36
DQ	1.02	2,733.10	\$574.50
DQ	1.76	7,129.70	\$1,499.21
DQ	2.30	9,178.50	\$2,346.99
DQ	3.07	11,093.70	\$3,888.36
DQ	4.08	23,750.50	\$4,026.43
DQ	7.02	28,440.00	\$5,899.40
DQ	14.82	54,275.00	\$12,018.13
DQ	41.34	240,867.80	\$50,264.69
EC	8.94	23,947.70	\$5,564.69
Grand Total	1,891.93	9,150,313.00	\$1,880,379.25



2019 Small Bus. Direct Install By Rate Code

DJ	6.09	23583	\$6,068.27
DJ	6.89	31655	\$6,262.18
DJ	8.68	35054.9	\$5,971.23
DJ	8.9	52274.6	\$9,748.77
DJ	9.24	29241.1	\$6,140.67
DJ	9.43	39947.3	\$6,598.57
DJ	11.8	81980.8	\$17,264.76
DJ	14.61	62794.6	\$13,175.10
DJ	25.5	94357.9	\$44,652.44
DJ	27.03	163941	\$26,552.71
DJ	30.6	199322.8	\$38,599.43
DJ	37.67	170538.1	\$28,140.00
DK	0.36	1817.6	\$383.21
DK	5.06	19611	\$3,989.16



2019 Basic CSOP By Rate Code

Rate Code	kW Savings	kWh Savings	Incentives	
B0	138.18	815,443.40	\$80,048.76	0.00783
D0	10,093.82	45,196,929.90	\$4,732,273.55	0.46307
D6	384.74	1,444,272.40	\$185,749.96	0.01818
DC	88.46	342,256.60	\$35,497.60	0.00347
DJ	347.42	1,333,484.50	\$169,544.57	0.01659
DQ	798.23	2,412,199.80	\$293,919.83	0.02877
E0	5,019.75	28,021,573.00	\$2,927,347.23	0.28645
E1	28.85	144,466.80	\$15,074.96	0.00148
EC	137.31	448,795.90	\$52,042.05	0.00509
EJ	114.69	387,585.10	\$52,022.66	0.00509
EQ	335.35	1,008,069.40	\$168,861.99	0.01652
JO	254.88	2,629,743.70	\$415,528.52	0.04066
K0	398.28	3,411,918.50	\$365,383.56	0.03575
LO	312.70	2,955,888.40	\$316,063.78	0.03093
N0	215.87	2,743,835.10	\$410,022.98	0.04012
Grand Total	18,668.53	93,296,462.50	10,219,382.00	1.00000

Rate Code	kW Savings	kWh Savings	Incentives
B0	(0.07)	(407.60)	-\$25.95
B0	(0.07)	(386.00)	-\$25.49
B0	(0.02)	(106.20)	-\$7.02
B0	(0.01)	(34.30)	-\$2.27
B0	-	24.00	\$1.52
B0	-	24.00	\$1.52
B0	-	24.00	\$1.52
B0	0.01	72.00	\$4.56
B0	0.01	72.00	\$4.56
B0	0.02	115.90	\$10.90
B0	0.03	215.80	\$13.45

Rate Code	kW Savings	kWh Savings	Incentives
B0	0.04	287.70	\$17.92
B0	0.04	203.80	\$19.20
B0	0.05	323.70	\$20.16
B0	0.07	411.20	\$38.76
B0	0.11	719.20	\$44.84
B0	0.08	507.90	\$45.19
B0	0.12	779.30	\$48.58
B0	0.09	531.50	\$50.10
B0	0.09	531.50	\$50.10
B0	0.12	815.20	\$50.82
B0	0.12	815.20	\$50.82



B0	0.04	287.70	\$17.92
----	------	--------	---------

B0	0.12	815.20	\$50.82
----	------	--------	---------

WP/GDJ/1
Page 24 of 44



2019 Basic CSOP By Rate Code

B0	0.18	1,189.80	\$105.88
B0	0.18	1,195.60	\$106.40
B0	0.20	1,150.80	\$108.42

Rate Code	kW Savings	kWh Savings	Incentives
B0	0.32	2,077.90	\$184.94
B0	0.32	2,097.80	\$186.70
B0	0.32	2,117.90	\$188.48
B0	0.32	2,117.90	\$188.48
B0	0.32	2,117.90	\$188.48
B0	0.32	2,117.90	\$188.48
B0	0.32	2,117.90	\$188.48
B0	0.34	2,255.30	\$200.69
B0	0.35	2,285.70	\$203.41
B0	0.35	2,305.20	\$205.15
B0	0.36	2,348.10	\$208.96
B0	0.36	2,381.20	\$211.91
B0	0.37	2,397.30	\$213.31
B0	0.37	2,397.30	\$213.31
B0	0.38	2,464.10	\$219.28
B0	0.38	2,505.50	\$222.98
B0	0.39	2,525.40	\$224.76
B0	0.39	2,525.40	\$224.76
B0	0.39	2,531.50	\$225.30
B0	0.39	2,545.40	\$226.51
B0	0.39	2,545.40	\$226.51
B0	0.39	2,545.40	\$226.51
B0	0.39	2,545.40	\$226.51
B0	0.39	2,565.40	\$228.30
B0	0.39	2,565.40	\$228.30
B0	0.39	2,565.40	\$228.30

B0	0.31	2,013.90	\$179.22
B0	0.31	2,013.90	\$179.22
B0	0.31	2,013.90	\$179.22

Rate Code	kW Savings	kWh Savings	Incentives
B0	0.44	2,857.10	\$254.25
B0	0.44	2,912.50	\$259.19
B0	0.49	2,762.40	\$260.27
B0	0.45	2,952.90	\$262.79
B0	0.45	2,973.00	\$264.57
B0	0.45	2,973.00	\$264.57
B0	0.45	2,973.00	\$264.57
B0	0.45	2,973.00	\$264.57
B0	0.45	2,973.00	\$264.57
B0	0.45	2,973.00	\$264.57
B0	0.46	2,993.00	\$266.36
B0	0.46	2,993.00	\$266.36
B0	0.46	3,014.60	\$268.28
B0	0.46	3,021.00	\$268.86
B0	0.47	3,063.30	\$272.61
B0	0.48	3,128.70	\$278.42
B0	0.49	3,198.00	\$284.61
B0	0.49	3,198.00	\$284.61
B0	0.49	3,198.00	\$284.61
B0	0.54	3,059.90	\$288.34
B0	0.55	3,114.90	\$293.50
B0	0.51	3,314.20	\$294.94
B0	0.51	3,360.60	\$299.07
B0	0.51	3,360.60	\$299.07
B0	0.51	3,360.60	\$299.07
B0	0.52	3,380.50	\$300.85



2019 Basic CSOP By Rate Code

B0	0.45	2,517.40	\$237.21
B0	0.42	2,763.20	\$245.91
B0	0.43	2,831.10	\$251.96
B0	0.44	2,857.10	\$254.25
B0	0.44	2,857.10	\$254.25

Rate Code	kW Savings	kWh Savings	Incentives
B0	0.52	3,400.60	\$302.63
B0	0.52	3,420.60	\$304.40
B0	0.52	3,420.60	\$304.40
B0	0.52	3,420.60	\$304.40
B0	0.52	3,420.60	\$304.40
B0	0.52	3,420.60	\$304.40
B0	0.53	3,497.60	\$311.28
B0	0.53	3,500.10	\$311.49
B0	0.53	3,500.10	\$311.49
B0	0.54	3,552.50	\$316.15
B0	0.54	3,560.00	\$316.83
B0	0.56	3,681.10	\$327.59
B0	0.57	3,729.90	\$331.94
B0	0.58	3,788.20	\$337.13
B0	0.58	3,808.10	\$338.91
B0	0.58	3,808.10	\$338.91
B0	0.58	3,828.20	\$340.67
B0	0.59	3,848.10	\$342.45
B0	0.62	4,055.50	\$360.92
B0	0.64	4,171.80	\$371.26
B0	0.65	4,243.80	\$377.66
B0	0.65	4,255.70	\$378.72
B0	0.67	4,396.40	\$391.25
B0	0.69	4,512.60	\$401.58
B0	0.70	4,571.40	\$406.82

B0	0.52	3,380.50	\$300.85
B0	0.52	3,380.50	\$300.85
B0	0.57	3,209.40	\$302.43
B0	0.52	3,400.60	\$302.63
B0	0.52	3,400.60	\$302.63

Rate Code	kW Savings	kWh Savings	Incentives
B0	0.87	5,729.50	\$509.89
B0	1.10	6,196.60	\$583.91
B0	1.12	6,317.70	\$595.31
B0	1.07	7,004.60	\$623.37
B0	1.19	7,826.20	\$696.45
B0	1.33	7,482.90	\$705.12
B0	1.24	8,133.80	\$723.87
B0	1.45	9,489.40	\$844.50
B0	1.45	9,489.40	\$844.50
B0	2.37	13,318.70	\$879.29
B0	1.76	9,931.60	\$935.83
B0	1.89	10,613.30	\$1,000.04
B0	2.10	11,836.20	\$1,115.30
B0	2.47	10,604.60	\$1,290.27
B0	3.83	21,561.50	\$1,423.52
B0	3.19	6,281.40	\$1,620.00
B0	3.59	23,492.40	\$2,090.63
B0	3.95	25,906.00	\$2,305.47
B0	4.68	26,359.80	\$2,483.86
B0	4.85	27,320.60	\$2,574.39
B0	4.95	27,857.20	\$2,624.94
B0	8.78	37,483.40	\$2,869.99
B0	5.48	30,846.40	\$2,906.61
B0	11.28	63,504.40	\$3,573.31
B0	-	-	\$8,540.00



2019 Basic CSOP By Rate Code

B0	0.70	4,579.90	\$407.57
B0	0.73	4,763.40	\$423.90
B0	0.74	4,879.50	\$434.23
B0	0.76	4,974.40	\$442.70
B0	0.77	5,063.00	\$450.55
B0	0.79	5,160.80	\$459.27
B0	0.81	5,322.30	\$473.66

D0	(0.15)	(576.90)	-\$61.07
D0	(0.09)	(371.80)	-\$44.32
D0	(0.02)	(126.60)	-\$11.26
D0	-	(9.40)	-\$0.65
D0	-	(4.30)	-\$0.38
D0	-	(0.20)	-\$0.02
D0	-	(0.20)	-\$0.02

Rate Code	kW Savings	kWh Savings	Incentives
D0	-	0.10	\$0.01
D0	-	0.60	\$0.02
D0	-	1.50	\$0.09
D0	-	3.90	\$0.23
D0	-	10.90	\$1.01
D0	0.01	45.20	\$4.69
D0	0.03	115.90	\$8.82
D0	0.03	175.80	\$11.60
D0	0.03	140.80	\$13.94
D0	0.03	173.90	\$16.39
D0	0.04	164.70	\$17.11
D0	0.04	165.70	\$19.11
D0	0.07	286.00	\$21.60
D0	0.07	289.20	\$21.93
D0	0.04	315.40	\$26.02
D0	0.06	256.80	\$30.59
D0	0.05	315.50	\$33.08
D0	0.09	331.20	\$38.19
D0	0.12	410.60	\$39.18
D0	0.06	444.50	\$39.82
D0	0.10	509.50	\$40.65
D0	0.04	293.30	\$47.30
D0	0.23	651.70	\$52.19

Rate Code	kW Savings	kWh Savings	Incentives
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$81.12
D0	0.20	802.50	\$83.37
D0	0.25	-	\$83.90
D0	0.15	1,007.60	\$89.67
D0	0.15	1,015.00	\$90.32
D0	0.54	3,548.40	\$315.79
D0	0.70	1,223.40	\$322.08
D0	0.70	1,223.40	\$322.08
D0	1.06	4,313.60	\$327.58
D0	0.62	3,484.60	\$328.34
D0	0.62	3,502.90	\$330.08
D0	0.78	3,237.80	\$333.76
D0	0.58	3,788.20	\$337.13
D0	0.64	3,599.50	\$339.14
D0	0.54	4,240.60	\$345.35
D0	0.77	5,931.20	\$349.69
D0	0.95	786.90	\$355.19
D0	0.69	3,906.50	\$368.10
D0	0.23	629.10	\$92.31



2019 Basic CSOP By Rate Code

D0	0.19	1,668.80	\$59.88
D0	0.19	1,668.80	\$59.88
D0	0.19	1,668.80	\$59.88
D0	0.19	1,668.80	\$68.86
D0	0.15	739.70	\$70.46
D0	0.22	1,966.20	\$70.54
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$70.55
D0	0.22	1,966.20	\$70.55

Rate Code	kW Savings	kWh Savings	Incentives
D0	0.32	1,794.40	\$169.07
D0	0.41	2,624.80	\$182.10
D0	0.51	2,785.00	\$186.44
D0	0.41	1,540.50	\$189.75
D0	0.33	2,137.80	\$190.24
D0	0.40	774.00	\$191.52
D0	0.49	3,196.80	\$199.32
D0	0.33	2,436.30	\$202.83
D0	0.38	2,158.50	\$203.39
D0	0.36	1,141.40	\$248.02
D0	0.38	3,005.30	\$261.39
D0	0.61	2,646.80	\$267.42
D0	0.54	3,045.00	\$286.94
D0	0.54	3,109.20	\$290.42
D0	0.55	3,090.10	\$291.15
D0	0.67	2,940.00	\$294.26
D0	0.49	2,778.30	\$301.07
D0	0.71	589.00	\$305.12
D0	0.89	4,399.20	\$306.39
D0	0.70	1,099.60	\$310.30
D0	0.59	3,315.00	\$312.37

D0	0.18	1,013.60	\$95.51
D0	0.29	1,473.10	\$101.56
D0	0.29	1,206.50	\$143.07
D0	0.25	1,646.40	\$146.49
D0	0.44	2,212.40	\$153.47
D0	0.29	1,642.20	\$154.71
D0	0.29	1,645.70	\$155.03
D0	0.30	1,662.30	\$156.65
D0	0.34	1,349.80	\$163.83
Rate Code	kW Savings	kWh Savings	Incentives
D0	1.26	4,891.30	\$436.77
D0	0.87	4,923.10	\$447.88
D0	0.77	2,521.10	\$466.00
D0	0.89	5,015.10	\$472.57
D0	0.89	5,017.70	\$472.81
D0	0.96	1,443.80	\$482.16
D0	0.39	3,948.60	\$489.64
D0	0.94	5,293.90	\$498.84
D0	0.82	4,622.60	\$500.91
D0	2.20	8,072.80	\$741.39
D0	1.50	3,403.60	\$766.74
D0	1.50	3,403.60	\$766.74
D0	2.12	5,954.90	\$782.52
D0	1.80	8,177.90	\$808.88
D0	1.61	8,310.40	\$811.91
D0	1.36	7,632.30	\$827.06
D0	1.59	8,848.90	\$837.34
D0	1.58	8,889.30	\$837.61
D0	1.44	9,462.50	\$842.10
D0	1.46	9,572.40	\$851.88
D0	2.42	12,477.80	\$854.12



2019 Basic CSOP By Rate Code

D0	0.54	1,643.70	\$314.08
D0	0.77	3,765.30	\$375.91
D0	0.56	3,678.30	\$376.47
D0	0.88	3,551.40	\$386.28
D0	0.75	4,217.10	\$397.37
D0	1.19	5,865.60	\$408.52
D0	0.96	1,443.80	\$419.27
D0	0.96	1,443.80	\$419.27
D0	0.96	1,443.80	\$419.27
D0	0.96	1,443.80	\$419.27
D0	0.82	4,595.90	\$433.07

Rate Code	kW Savings	kWh Savings	Incentives
D0	1.33	1,051.20	\$564.36
D0	0.99	6,505.40	\$578.94
D0	1.17	4,784.30	\$595.50
D0	2.60	17,055.60	\$600.00
D0	1.03	6,752.10	\$600.88
D0	1.23	6,069.60	\$602.91
D0	1.67	9,071.50	\$607.39
D0	1.05	6,850.80	\$609.66
D0	1.80	15,757.50	\$609.82
D0	1.80	15,757.50	\$609.82
D0	1.05	6,894.90	\$612.09
D0	1.01	5,703.90	\$618.10
D0	0.82	3,129.80	\$620.47
D0	1.23	2,814.50	\$630.86
D0	1.10	7,230.60	\$643.48
D0	1.46	2,254.80	\$643.88
D0	1.34	6,596.40	\$655.75
D0	1.32	2,011.60	\$666.80
D0	1.80	15,757.50	\$701.30

D0	2.09	2,541.60	\$856.88
D0	1.65	9,299.50	\$876.28
D0	2.06	11,580.80	\$879.23
D0	0.95	5,335.10	\$502.69
D0	0.98	5,538.50	\$503.88
D0	0.75	5,928.80	\$515.66
D0	1.03	2,236.10	\$516.78
D0	1.56	5,629.20	\$521.44
D0	1.00	5,621.70	\$529.73
D0	1.38	9,015.00	\$562.10
D0	1.06	5,987.60	\$564.19

Rate Code	kW Savings	kWh Savings	Incentives
D0	2.28	9,900.70	\$1,040.86
D0	2.41	10,449.70	\$1,054.39
D0	1.77	9,964.40	\$1,079.74
D0	1.77	9,976.40	\$1,081.07
D0	2.07	11,627.40	\$1,095.61
D0	2.08	11,690.60	\$1,101.82
D0	2.10	11,836.20	\$1,115.30
D0	2.12	11,951.20	\$1,126.15
D0	1.67	11,096.50	\$1,130.83
D0	3.43	17,636.70	\$1,723.07
D0	2.96	19,400.70	\$1,726.50
D0	0.72	15,214.00	\$1,732.00
D0	3.40	15,052.80	\$1,732.28
D0	3.08	20,158.40	\$1,793.98
D0	4.04	13,806.50	\$1,825.29
D0	3.44	19,372.60	\$1,825.46
D0	3.00	16,903.20	\$1,831.64
D0	3.54	19,913.30	\$1,876.40
D0	3.23	21,190.60	\$1,885.03



2019 Basic CSOP By Rate Code

D0	1.55	6,700.40	\$706.67
D0	2.30	9,386.40	\$712.81
D0	1.75	11,452.60	\$714.08
D0	1.17	6,982.60	\$738.50
D0	1.59	5,435.80	\$740.27
D0	1.53	10,054.00	\$894.75
D0	1.92	12,587.80	\$902.59
D0	2.08	8,978.50	\$907.13
D0	1.51	8,474.10	\$918.29
D0	1.79	10,076.30	\$949.47
D0	1.50	11,834.20	\$963.89
D0	2.78	7,815.30	\$1,026.90
D0	2.53	16,571.40	\$1,037.50

Rate Code	kW Savings	kWh Savings	Incentives
D0	3.23	21,606.20	\$1,336.64
D0	3.86	21,713.50	\$1,433.50
D0	3.78	12,630.80	\$1,436.21
D0	3.47	21,165.00	\$1,466.25
D0	2.53	16,559.40	\$1,473.67
D0	2.54	16,629.80	\$1,479.94
D0	2.45	13,762.10	\$1,491.28
D0	3.43	14,805.20	\$1,496.06
D0	2.58	11,963.40	\$1,497.44
D0	2.96	4,713.90	\$1,519.39
D0	2.49	14,040.40	\$1,521.45
D0	3.86	13,956.30	\$1,528.93
D0	4.57	39,838.30	\$1,543.61
D0	4.57	39,838.20	\$1,543.61
D0	4.57	39,838.30	\$1,543.61
D0	2.92	16,456.10	\$1,550.62
D0	3.03	17,039.00	\$1,605.55

D0	3.56	20,041.80	\$1,888.51
D0	5.85	51,006.30	\$1,976.34
D0	5.87	51,220.60	\$1,984.65
D0	5.87	51,220.60	\$1,984.65
D0	5.87	51,220.60	\$1,984.65
D0	2.15	12,082.30	\$1,138.46
D0	1.78	14,003.20	\$1,140.52
D0	3.29	16,662.40	\$1,148.27
D0	1.99	13,011.00	\$1,157.90
D0	2.84	12,389.50	\$1,246.66
D0	2.55	9,652.60	\$1,247.01
D0	2.46	13,867.80	\$1,306.73
D0	2.49	14,026.40	\$1,321.70

Rate Code	kW Savings	kWh Savings	Incentives
D0	3.40	26,841.20	\$2,186.10
D0	3.45	27,219.30	\$2,216.99
D0	4.43	19,156.90	\$2,226.23
D0	9.40	17,324.20	\$2,239.57
D0	5.87	51,220.60	\$2,282.35
D0	6.21	17,330.90	\$2,287.19
D0	4.71	20,606.60	\$2,314.46
D0	4.37	24,601.40	\$2,318.18
D0	9.74	17,906.20	\$2,318.71
D0	6.31	35,524.40	\$3,347.43
D0	5.77	37,778.20	\$3,362.00
D0	5.78	37,885.70	\$3,370.79
D0	6.44	36,243.70	\$3,415.20
D0	6.31	29,038.20	\$3,424.41
D0	14.66	26,997.90	\$3,491.99
D0	5.29	34,645.60	\$3,545.73
D0	6.11	40,041.90	\$3,563.48



2019 Basic CSOP By Rate Code

D0	3.07	17,286.70	\$1,628.91
D0	2.83	18,545.40	\$1,650.42
D0	4.89	42,683.80	\$1,653.87
D0	4.89	42,683.80	\$1,653.87
D0	3.15	17,746.20	\$1,672.20
D0	2.89	18,925.10	\$1,684.20
D0	2.94	6,470.20	\$1,703.20
D0	8.35	15,397.70	\$1,989.67
D0	3.27	18,429.60	\$1,997.06
D0	3.77	21,242.70	\$2,001.68
D0	5.53	31,128.80	\$2,055.09
D0	3.14	20,552.10	\$2,103.33
D0	4.22	17,115.80	\$2,138.94
D0	4.80	36,146.90	\$2,148.88
D0	3.21	21,038.90	\$2,153.18

Rate Code	kW Savings	kWh Savings	Incentives
D0	4.78	26,897.00	\$2,534.48
D0	6.92	19,463.70	\$2,557.51
D0	5.15	26,055.20	\$2,563.72
D0	5.79	43,592.50	\$2,591.12
D0	5.02	8,640.20	\$2,645.33
D0	4.71	30,873.30	\$2,747.50
D0	4.75	31,146.00	\$2,771.77
D0	4.97	24,674.00	\$2,814.90
D0	6.51	28,108.60	\$2,840.55
D0	5.52	30,283.30	\$2,882.90
D0	7.75	43,906.00	\$2,891.46
D0	6.75	9,797.30	\$2,922.84
D0	4.64	30,407.00	\$2,945.00
D0	5.78	30,934.10	\$2,973.46
D0	12.59	23,151.80	\$2,998.38

D0	6.03	19,253.80	\$3,608.82
D0	21.97	23,711.90	\$3,665.14
D0	7.85	35,712.70	\$3,680.90
D0	7.11	38,764.70	\$3,698.80
D0	7.23	40,699.30	\$3,835.03
D0	8.75	35,461.30	\$3,854.37
D0	6.65	34,643.80	\$3,873.46
D0	3.99	26,107.60	\$2,323.40
D0	4.48	25,193.10	\$2,373.90
D0	4.80	18,684.00	\$2,381.47
D0	4.51	25,382.70	\$2,391.76
D0	3.78	23,053.40	\$2,421.85
D0	4.03	22,385.70	\$2,437.23
D0	0.47	27,364.00	\$2,475.46
D0	5.31	22,967.70	\$2,520.16

Rate Code	kW Savings	kWh Savings	Incentives
D0	9.16	38,727.00	\$4,126.95
D0	24.63	26,994.10	\$4,127.42
D0	9.56	41,302.80	\$4,173.67
D0	8.05	45,297.90	\$4,268.34
D0	9.35	41,073.70	\$4,299.15
D0	7.38	48,324.10	\$4,300.52
D0	7.47	48,965.40	\$4,357.61
D0	7.54	49,403.10	\$4,396.55
D0	26.51	29,057.60	\$4,442.85
D0	9.91	41,683.90	\$4,451.08
D0	13.21	51,393.00	\$5,696.11
D0	8.74	68,872.00	\$5,757.20
D0	11.07	62,278.10	\$5,868.41
D0	13.62	52,968.30	\$5,870.75
D0	9.66	54,365.60	\$5,891.21



2019 Basic CSOP By Rate Code

D0	6.12	23,809.60	\$3,034.75
D0	6.68	30,929.80	\$3,035.15
D0	4.43	14,009.20	\$3,113.71
D0	13.10	24,142.10	\$3,122.11
D0	18.65	20,439.60	\$3,125.23
D0	6.02	33,867.60	\$3,191.30
D0	6.61	32,350.20	\$3,227.91
D0	8.38	26,544.10	\$3,268.62
D0	4.87	33,118.20	\$3,345.37
D0	10.51	58,424.00	\$3,876.71
D0	14.53	26,899.00	\$3,878.24
D0	0.31	30,375.20	\$4,045.75
D0	7.40	35,283.00	\$4,095.60
D0	24.53	26,889.40	\$4,111.37
D0	6.75	37,993.90	\$4,117.14
D0	7.77	43,708.20	\$4,118.58
D0	7.13	56,220.70	\$4,699.66

Rate Code	kW Savings	kWh Savings	Incentives
D0	7.15	56,334.00	\$4,709.10
D0	8.09	53,022.90	\$4,718.68
D0	8.11	53,149.70	\$4,729.53
D0	11.00	42,788.40	\$4,742.37
D0	9.39	41,246.90	\$4,760.40
D0	11.13	43,281.70	\$4,797.31
D0	8.26	54,080.30	\$4,812.81
D0	11.26	43,799.70	\$4,854.71
D0	25.94	28,432.90	\$4,862.37
D0	11.02	44,893.30	\$4,865.89
D0	9.18	51,685.40	\$4,870.26
D0	9.72	40,895.40	\$5,021.97
D0	8.25	46,438.30	\$5,032.21

D0	13.77	53,560.60	\$5,936.42
D0	10.23	67,020.60	\$5,964.39
D0	14.28	19,099.00	\$6,026.09
D0	12.08	62,206.80	\$6,076.73
D0	14.02	60,612.10	\$6,124.16
D0	10.54	69,076.40	\$6,147.32
D0	12.12	65,058.00	\$6,247.41
D0	14.95	56,693.50	\$6,361.65
D0	8.23	48,920.60	\$4,512.42
D0	8.62	48,527.50	\$4,572.69
D0	8.64	48,613.30	\$4,580.75
D0	8.98	37,054.50	\$4,592.13
D0	8.66	48,763.20	\$4,594.91
D0	10.20	77,924.30	\$4,609.81
D0	27.65	30,306.40	\$4,633.86
D0	8.03	52,599.30	\$4,680.52
D0	14.73	63,647.90	\$6,712.35

Rate Code	kW Savings	kWh Savings	Incentives
D0	10.22	80,535.20	\$6,732.16
D0	19.41	98,214.60	\$6,770.79
D0	18.75	52,616.30	\$6,924.77
D0	11.47	64,861.20	\$7,015.07
D0	7.07	34,229.20	\$7,023.89
D0	17.81	88,146.00	\$7,054.91
D0	16.41	70,921.70	\$7,165.88
D0	13.56	76,303.20	\$7,189.96
D0	15.02	56,833.50	\$7,342.27
D0	16.94	73,223.80	\$7,398.27
D0	15.99	52,181.40	\$9,674.97
D0	15.10	119,062.30	\$9,697.40
D0	23.59	29,643.40	\$9,774.61



2019 Basic CSOP By Rate Code

D0	8.79	57,601.30	\$5,126.13
D0	13.81	45,707.00	\$5,223.82
D0	9.02	59,057.00	\$5,255.66
D0	11.72	89,266.90	\$5,286.86
D0	8.12	53,177.60	\$5,442.32
D0	9.55	62,759.50	\$5,578.50
D0	12.96	50,422.30	\$5,588.54
D0	11.34	44,114.10	\$5,622.67
D0	13.07	50,846.00	\$5,635.46
D0	10.35	61,428.60	\$5,671.06
D0	14.12	60,346.40	\$6,396.30
D0	13.04	50,745.90	\$6,468.04
D0	14.35	15,012.40	\$6,505.78
D0	10.75	60,525.40	\$6,558.72
D0	10.77	60,615.50	\$6,568.47
D0	10.08	79,478.60	\$6,643.86
D0	12.71	54,847.10	\$6,657.85
D0	13.48	52,455.80	\$6,685.97
D0	12.31	42,297.20	\$7,651.98

Rate Code	kW Savings	kWh Savings	Incentives
D0	15.82	78,947.10	\$7,813.61
D0	53.61	386,190.70	\$7,848.00
D0	18.27	71,093.00	\$7,879.42
D0	14.84	66,896.60	\$7,959.17
D0	18.84	25,949.90	\$8,023.00
D0	18.68	72,683.90	\$8,055.77
D0	17.19	62,091.10	\$8,209.45
D0	19.12	74,370.60	\$8,242.78
D0	44.47	48,742.80	\$8,335.62
D0	19.01	77,082.40	\$8,376.20
D0	17.02	66,207.40	\$8,438.60

D0	1.85	108,444.00	\$9,809.86
D0	18.85	84,050.70	\$10,051.04
D0	19.02	107,042.00	\$10,086.44
D0	23.63	91,932.70	\$10,189.35
D0	21.68	99,452.00	\$10,209.25
D0	22.36	104,866.70	\$10,239.92
D0	22.96	99,669.30	\$10,491.28
D0	25.77	100,240.60	\$11,110.02
D0	25.84	100,541.90	\$11,143.44
D0	21.12	118,888.20	\$11,202.70
D0	15.79	72,965.30	\$7,467.58
D0	10.28	27,965.50	\$7,485.79
D0	16.79	126,680.30	\$7,525.07
D0	17.50	68,073.80	\$7,544.87
D0	14.62	61,491.20	\$7,552.72
D0	10.63	46,786.50	\$7,583.89
D0	17.69	68,832.20	\$7,628.93
D0	28.60	52,980.00	\$7,635.75
D0	22.60	106,855.30	\$12,448.23

Rate Code	kW Savings	kWh Savings	Incentives
D0	23.94	134,757.10	\$12,698.01
D0	20.86	117,428.20	\$12,724.96
D0	31.99	228,423.80	\$12,735.12
D0	24.44	108,867.20	\$13,024.40
D0	25.29	142,321.40	\$13,410.78
D0	25.36	142,757.10	\$13,451.80
D0	35.31	111,799.00	\$13,766.78
D0	32.18	138,855.10	\$14,040.44
D0	26.50	149,166.00	\$14,055.73
D0	25.05	164,064.60	\$14,600.67
D0	52.21	264,067.40	\$25,989.23



2019 Basic CSOP By Rate Code

D0	18.52	80,784.60	\$8,483.13
D0	18.19	19,402.00	\$8,512.26
D0	14.27	80,322.90	\$8,704.04
D0	20.28	78,884.60	\$8,743.07
D0	17.65	68,647.80	\$8,749.76
D0	16.94	76,155.00	\$9,071.65
D0	17.42	76,183.70	\$9,188.93
D0	19.72	91,833.90	\$9,364.40
D0	20.15	91,606.20	\$9,441.84
D0	19.27	74,971.40	\$9,555.79
D0	16.60	85,197.00	\$9,584.00
D0	18.33	79,206.50	\$9,606.08
D0	26.22	102,015.80	\$11,306.83
D0	22.89	114,344.10	\$11,313.70
D0	22.07	96,565.70	\$11,646.01
D0	22.14	124,596.90	\$11,740.61
D0	20.45	133,985.50	\$11,923.80
D0	22.24	103,004.70	\$12,108.25
D0	26.04	117,427.80	\$12,147.90
D0	23.29	131,053.00	\$12,348.95
D0	25.85	203,816.90	\$17,037.68

Rate Code	kW Savings	kWh Savings	Incentives
D0	34.29	64,320.50	\$17,169.57
D0	34.70	64,380.30	\$17,374.87
D0	39.82	172,033.80	\$17,386.16
D0	34.80	64,755.20	\$17,424.94
D0	34.19	141,077.60	\$17,483.70
D0	39.32	296,737.40	\$17,500.00
D0	35.47	66,498.90	\$17,760.42
D0	37.71	174,704.20	\$17,858.04
D0	20.04	82,246.30	\$18,060.10

D0	51.77	265,955.40	\$26,006.21
D0	52.56	295,824.00	\$27,875.13
D0	64.45	278,480.10	\$28,140.06
D0	48.62	318,529.10	\$28,346.93
D0	145.88	159,841.80	\$28,709.68
D0	104.68	193,311.50	\$29,316.38
D0	67.10	409,550.80	\$29,317.51
D0	55.83	314,221.00	\$29,608.66
D0	47.80	94,214.00	\$31,990.00
D0	47.63	340,420.70	\$33,796.52
D0	85.40	282,816.40	\$34,003.98
D0	64.75	364,401.40	\$34,337.06
D0	31.28	147,888.30	\$14,981.20
D0	16.22	69,104.70	\$15,417.39
D0	23.49	185,230.40	\$15,483.96
D0	33.09	153,764.80	\$15,696.57
D0	29.06	170,997.90	\$15,836.69
D0	25.97	146,165.70	\$15,838.98
D0	30.86	173,707.70	\$16,368.28
D0	18.36	120,861.20	\$16,905.69
D0	23.11	201,862.90	\$39,347.64

Rate Code	kW Savings	kWh Savings	Incentives
D0	113.59	593,705.70	\$40,381.47
D0	82.53	464,509.00	\$43,770.16
D0	41.61	268,840.80	\$44,675.46
D0	46.21	358,797.30	\$47,741.79
D0	75.53	595,447.40	\$49,775.21
D0	82.56	613,941.60	\$52,302.75
D0	37.17	327,769.20	\$55,418.32
D0	104.76	589,617.80	\$55,558.98
D0	106.01	596,658.70	\$56,222.47



2019 Basic CSOP By Rate Code

D0	93.61	102,592.30	\$18,423.74
D0	42.69	184,507.30	\$19,458.96
D0	34.94	228,907.00	\$20,371.20
D0	29.21	204,933.80	\$20,475.35
D0	41.35	216,909.70	\$21,026.85
D0	39.72	223,558.90	\$21,065.66
D0	40.03	225,290.60	\$21,228.84
D0	41.43	241,426.30	\$21,688.58
D0	43.94	222,730.50	\$21,901.35
D0	48.51	214,506.70	\$22,388.76
D0	49.44	221,228.80	\$22,965.96
D0	38.34	277,418.20	\$23,850.28
D0	51.30	237,660.00	\$24,292.59
D0	44.75	222,619.80	\$25,373.41
D0	59.67	390,872.80	\$34,785.06
D0	69.28	365,514.00	\$35,348.26
D0	62.31	408,151.10	\$36,322.70
D0	67.73	390,489.20	\$36,449.40
D0	81.40	351,686.30	\$37,095.16
D0	135.16	248,568.80	\$37,800.73
D0	65.52	429,234.20	\$38,199.00
D0	95.29	323,596.50	\$38,399.36
D6	146.39	632,722.10	\$66,726.68

Rate Code	kW Savings	kWh Savings	Incentives
D6	-	(2.90)	-\$0.22
D6	-	(0.20)	-\$0.02
D6	0.04	162.60	\$14.52
D6	-	779.10	\$74.10
D6	0.16	891.00	\$83.91
D6	0.32	1,236.50	\$110.39
D6	0.41	1,540.50	\$189.75

D0	111.56	620,249.80	\$58,729.57
D0	103.66	679,056.30	\$60,431.45
D0	140.30	270,589.90	\$62,219.00
D0	137.17	592,866.10	\$62,523.88
D0	108.39	585,388.90	\$64,487.20
D0	133.23	669,163.00	\$66,053.05
D0	126.35	711,132.50	\$67,009.15
D0	107.73	206,061.20	\$67,095.00
D0	137.07	705,308.60	\$68,918.28
D0	136.01	714,256.40	\$69,208.79
D0	143.60	689,563.20	\$69,386.87
D0	189.56	844,894.40	\$87,865.00
D0	219.51	948,757.20	\$100,056.00
D0	386.32	1,668,034.90	\$175,995.38
D0	383.62	1,694,472.00	\$176,938.86
D0	443.71	1,849,149.60	\$205,805.82
D0	640.96	1,209,857.00	\$91,944.98
D6	24.25	97,550.70	\$6,674.66
D6	22.02	14,153.40	\$7,836.96
D6	27.63	111,748.00	\$9,450.43
D6	47.39	144,209.80	\$27,684.55
D6	78.06	271,224.80	\$49,956.08
DC	8.46	44,696.70	\$4,321.07

Rate Code	kW Savings	kWh Savings	Incentives
DC	14.01	37,138.10	\$7,661.34
DC	34.24	132,840.90	\$7,411.79
DJ	(1.11)	(4,227.60)	-\$452.68
DJ	(0.48)	(1,811.90)	-\$194.02
DJ	-	(2.00)	-\$0.10
DJ	-	(0.60)	-\$0.06
DJ	0.08	207.00	\$22.55



2019 Basic CSOP By Rate Code

D6	0.43	1,643.30	\$202.41
D6	0.38	2,459.10	\$251.67
D6	0.33	4,204.40	\$497.32
D6	1.44	7,898.70	\$605.61
D6	1.08	7,108.10	\$726.31
D6	3.67	16,022.90	\$1,007.11
D6	6.24	26,985.20	\$2,726.50
D6	11.17	50,082.10	\$5,194.60
D6	13.33	51,653.20	\$5,736.64
DC	(0.48)	(1,811.90)	-\$194.02
DC	(0.23)	(871.40)	-\$93.00
DC	-	(3.90)	-\$0.20
DC	0.05	299.80	\$28.24
DC	0.11	470.60	\$40.61
DC	0.11	383.70	\$67.80
DC	0.54	2,054.00	\$252.99
DC	0.79	4,440.50	\$418.41
DC	1.23	3,544.30	\$458.96
DC	1.66	3,603.60	\$956.20
DC	5.14	18,681.70	\$2,140.73
DC	4.02	22,749.90	\$2,460.59
DC	5.54	32,706.40	\$2,924.64
DC	5.42	32,014.50	\$2,960.31
DC	7.85	9,319.10	\$3,681.14
DJ	2.40	4,430.00	\$572.39

Rate Code	kW Savings	kWh Savings	Incentives
DJ	1.90	2,589.00	\$807.03
DJ	2.15	6,379.60	\$814.21
DJ	1.57	3,731.10	\$818.58
DJ	1.48	4,183.10	\$832.87
DJ	5.64	6,182.00	\$945.22

DJ	0.08	209.70	\$30.76
DJ	0.06	381.10	\$38.73
DJ	0.28	-	\$94.64
DJ	4.58	18,023.20	\$3,619.69
DJ	8.03	8,387.80	\$3,737.02
DJ	8.65	13,777.50	\$3,859.57
DJ	9.57	38,771.20	\$4,213.30
DJ	8.50	19,562.20	\$4,366.06
DJ	10.50	21,453.30	\$5,134.80
DJ	9.39	57,268.90	\$6,015.71
DJ	16.38	47,128.80	\$6,115.88
DJ	13.30	87,137.50	\$6,248.08
DJ	13.28	61,104.00	\$6,264.29
DJ	14.24	58,726.70	\$6,328.95
DJ	12.47	32,177.90	\$6,735.54
DJ	14.76	38,832.40	\$8,043.49
DJ	0.41	1,667.20	\$173.25
DJ	0.49	1,382.80	\$182.44
DJ	0.85	3,439.70	\$301.23
DJ	0.64	3,581.20	\$337.45
DJ	0.51	3,351.30	\$342.84
DJ	1.49	2,735.00	\$354.03
DJ	1.34	5,488.40	\$416.21
DJ	0.73	4,113.00	\$445.70
DQ	0.04	212.50	\$13.83

Rate Code	kW Savings	kWh Savings	Incentives
DQ	0.17	976.60	\$73.72
DQ	0.44	-	\$149.27
DQ	0.49	1,848.60	\$227.71
DQ	0.40	2,637.30	\$269.91
DQ	0.55	833.00	\$276.13



2019 Basic CSOP By Rate Code

DJ	5.80	6,353.50	\$971.46
DJ	2.66	8,921.40	\$985.76
DJ	1.42	6,133.40	\$1,002.46
DJ	2.00	4,060.80	\$1,121.56
DJ	2.13	10,642.40	\$1,211.29
DJ	3.66	5,633.40	\$1,613.23
DJ	0.94	11,473.60	\$1,614.20
DJ	3.68	5,657.20	\$1,621.78
DJ	3.58	11,868.40	\$1,639.68
DJ	4.32	14,366.50	\$1,723.99
DJ	3.78	7,101.60	\$1,790.12
DJ	5.15	15,257.00	\$1,948.85
DJ	4.99	20,572.00	\$2,121.50
DJ	4.88	5,210.10	\$2,284.18
DJ	4.33	11,704.40	\$2,388.38
DJ	6.87	5,443.70	\$2,542.25
DJ	5.37	13,871.90	\$2,901.08
DJ	7.18	10,453.40	\$3,110.04
DJ	16.92	40,737.90	\$8,862.39
DJ	14.94	107,436.10	\$10,642.82
DJ	21.68	142,028.70	\$14,535.56
DJ	29.75	151,996.60	\$14,896.59
DJ	27.23	166,200.00	\$10,449.75
DQ	(0.16)	(956.10)	-\$104.47
DQ	(0.06)	(171.80)	-\$23.52
DQ	(0.05)	(201.00)	-\$21.38
DQ	2.60	7,306.00	\$960.00

Rate Code	kW Savings	kWh Savings	Incentives
DQ	2.27	8,578.30	\$963.64
DQ	1.82	10,243.70	\$965.25
DQ	1.86	8,275.90	\$990.86

DQ	0.63	3,554.50	\$323.25
DQ	0.64	3,597.40	\$338.96
DQ	0.70	3,941.80	\$371.41
DQ	0.65	4,235.80	\$433.50
DQ	1.28	4,922.10	\$441.75
DQ	12.98	23,955.60	\$3,095.01
DQ	12.61	23,304.00	\$3,364.72
DQ	6.27	38,602.10	\$3,515.24
DQ	1.45	28,145.70	\$3,664.54
DQ	22.67	24,611.80	\$3,788.83
DQ	7.31	41,151.10	\$3,877.63
DQ	6.63	18,302.60	\$4,250.34
DQ	23.60	25,866.20	\$4,423.41
DQ	9.63	39,064.90	\$4,881.27
DQ	8.12	47,170.60	\$5,048.64
DQ	12.16	43,508.80	\$5,779.89
DQ	14.16	63,893.30	\$7,598.24
DQ	18.55	80,006.10	\$7,768.07
DQ	1.14	7,456.60	\$464.94
DQ	0.98	5,524.90	\$520.61
DQ	1.23	3,282.30	\$530.83
DQ	1.64	708.80	\$634.41
DQ	1.74	4,900.30	\$643.93
DQ	1.82	1,743.50	\$703.44
DQ	1.37	8,304.50	\$735.66
DQ	2.26	6,370.40	\$837.17
DQ	111.84	496,268.50	\$39,566.45

Rate Code	kW Savings	kWh Savings	Incentives
E0	(5.32)	(37,269.20)	-\$3,369.46
E0	(0.56)	(4,194.30)	-\$417.22
E0	(0.09)	(362.60)	-\$44.03



2019 Basic CSOP By Rate Code

DQ	2.96	8,326.60	\$1,094.15
DQ	2.26	3,270.00	\$1,154.34
DQ	2.31	10,378.70	\$1,236.87
DQ	1.81	12,283.70	\$1,240.82
DQ	3.74	21,044.70	\$1,389.36
DQ	3.91	10,992.10	\$1,444.35
DQ	4.11	11,563.00	\$1,519.36
DQ	4.02	17,388.00	\$1,757.06
DQ	4.50	6,042.30	\$1,902.50
DQ	4.73	20,397.90	\$2,062.95
DQ	3.69	18,282.90	\$2,087.43
DQ	5.50	3,761.00	\$2,275.91
DQ	4.99	5,331.10	\$2,337.24
DQ	6.53	4,331.80	\$2,338.18
DQ	4.55	25,672.20	\$2,416.90
DQ	4.56	8,538.10	\$2,481.17
DQ	5.48	27,216.50	\$2,698.61
DQ	6.41	10,763.00	\$2,913.94
DQ	7.75	6,836.00	\$2,935.03
DQ	4.80	29,312.20	\$3,078.81
DQ	12.63	43,851.70	\$7,892.90
DQ	15.90	96,393.30	\$8,825.42
DQ	17.91	100,811.10	\$9,499.35
DQ	22.73	86,246.90	\$9,677.12
DQ	24.71	99,258.90	\$12,457.83
DQ	29.59	55,538.40	\$14,816.20
DQ	79.84	344,168.60	\$36,340.68
DQ	211.88	232,221.90	\$41,702.26
E0	0.39	1,563.50	\$138.05

Rate Code	kW Savings	kWh Savings	Incentives
E0	0.53	-	\$178.49

E0	(0.06)	(348.70)	-\$39.30
E0	(0.01)	(45.70)	-\$5.15
E0	(0.01)	(28.80)	-\$2.45
E0	-	(35.20)	-\$2.00
E0	-	(1.60)	-\$0.15
E0	-	(0.70)	-\$0.07
E0	-	(0.10)	-\$0.01
E0	1.78	11,635.40	\$725.48
E0	1.25	8,191.80	\$729.02
E0	1.88	13,109.20	\$799.25
E0	2.50	12,346.00	\$859.86
E0	2.45	13,788.30	\$910.26
E0	2.02	8,087.70	\$1,016.37
E0	2.50	10,320.10	\$1,064.32
E0	2.21	16,701.20	\$1,140.81
E0	3.60	9,657.90	\$1,232.44
E0	1.82	13,089.10	\$1,259.87
E0	1.93	15,251.40	\$1,274.92
E0	4.04	10,816.80	\$1,380.33
E0	2.15	15,516.90	\$1,390.22
E0	-	3.00	\$0.18
E0	0.04	165.80	\$16.89
E0	0.07	551.90	\$32.32
E0	0.09	559.40	\$40.10
E0	0.08	523.50	\$46.58
E0	0.19	760.80	\$66.75
E0	0.19	1,055.00	\$69.64
E0	0.15	732.80	\$72.84
E0	3.34	21,902.10	\$1,949.12

Rate Code	kW Savings	kWh Savings	Incentives
E0	4.44	18,325.20	\$1,974.83



2019 Basic CSOP By Rate Code

EO	0.46	2,997.00	\$186.87
EO	0.29	2,296.70	\$191.98
EO	0.43	1,643.30	\$202.41
EO	0.47	3,021.60	\$217.56
EO	0.63	4,155.50	\$259.10
EO	0.49	2,773.50	\$260.57
EO	0.62	4,880.20	\$285.83
EO	0.89	5,817.70	\$362.74
EO	0.58	4,534.80	\$379.08
EO	0.60	4,693.20	\$392.34
EO	0.94	6,414.30	\$393.57
EO	0.57	4,316.40	\$420.84
EO	0.72	5,641.00	\$459.43
EO	1.26	497.60	\$481.22
EO	1.37	7,736.30	\$510.74
EO	0.84	6,591.80	\$536.86
EO	0.93	7,352.30	\$598.82
EO	1.16	6,540.30	\$616.29
EO	1.49	10,437.60	\$636.30
EO	1.41	5,340.40	\$657.82
EO	1.65	10,804.30	\$673.66
EO	1.40	7,249.40	\$706.33
EO	2.46	16,126.80	\$1,435.18
EO	3.09	4,329.70	\$1,519.81
EO	3.05	17,143.00	\$1,615.34
EO	3.21	18,042.60	\$1,700.13
EO	4.92	362.80	\$1,754.13
EO	1.07	15,843.50	\$1,822.27
EO	3.97	15,067.50	\$1,855.89
EO	3.55	20,002.00	\$1,884.74
EO	6.82	38,117.10	\$3,602.44

EO	4.74	19,538.80	\$2,014.76
EO	4.86	27,340.00	\$2,075.72
EO	3.99	22,458.80	\$2,116.28
EO	6.35	33,171.30	\$2,256.32
EO	3.16	23,857.50	\$2,263.96
EO	6.11	36,960.50	\$2,373.38
EO	6.40	21,017.90	\$2,537.70
EO	7.03	39,554.20	\$2,611.34
EO	5.32	26,319.00	\$2,614.40
EO	20.69	79,627.30	\$6,801.90
EO	0.79	77,648.00	\$6,871.20
EO	13.32	60,538.00	\$6,885.94
EO	12.59	34,736.90	\$7,014.59
EO	15.55	72,421.60	\$7,091.05
EO	13.52	76,074.10	\$7,168.35
EO	15.04	73,612.10	\$7,345.88
EO	16.83	72,764.20	\$7,351.86
EO	14.99	74,159.60	\$7,366.57
EO	16.76	26,495.00	\$7,459.79
EO	13.86	86,823.50	\$7,854.19
EO	11.94	47,586.30	\$8,045.39
EO	22.51	60,302.40	\$8,150.51
EO	5.15	29,005.00	\$2,733.10
EO	4.83	31,697.70	\$2,820.02
EO	7.98	6,546.20	\$2,974.98
EO	5.19	39,105.10	\$3,227.43
EO	7.55	30,586.40	\$3,323.78
EO	4.85	36,555.90	\$3,469.13
EO	9.60	25,723.40	\$3,476.80
EO	7.29	29,815.80	\$3,549.10
EO	23.89	89,065.60	\$10,079.81



2019 Basic CSOP By Rate Code

Rate Code	kW Savings	kWh Savings	Incentives
EO	10.95	50,729.80	\$3,632.82
EO	7.86	35,341.20	\$3,660.72
EO	11.46	3,951.60	\$3,753.08
EO	8.11	36,479.50	\$3,778.70
EO	4.49	16,454.80	\$3,801.31
EO	11.44	32,178.90	\$4,228.33
EO	2.55	26,738.50	\$4,474.92
EO	10.71	48,662.90	\$4,813.42
EO	9.18	51,676.20	\$4,869.38
EO	10.04	38,089.00	\$4,914.71
EO	11.50	17,478.70	\$5,052.32
EO	8.41	58,737.00	\$5,111.11
EO	10.00	53,244.10	\$5,130.57
EO	12.19	85,725.20	\$5,213.86
EO	9.02	59,056.90	\$5,255.69
EO	8.36	61,716.00	\$5,270.70
EO	3.21	37,118.90	\$5,287.52
EO	1.24	43,744.80	\$5,343.49
EO	12.96	49,046.40	\$5,509.79
EO	11.21	63,106.80	\$5,946.47
EO	11.37	63,968.20	\$6,027.64
EO	11.20	23,463.90	\$6,362.26
EO	8.35	26,940.40	\$6,607.76
EO	12.83	47,374.20	\$8,286.60
EO	23.25	101,061.80	\$8,565.34
EO	25.57	71,967.60	\$9,456.59
EO	14.34	93,921.60	\$9,612.18
EO	22.62	87,634.10	\$9,732.69
EO	18.42	103,670.40	\$9,768.69
EO	1.87	109,323.00	\$9,888.80
EO	16.40	92,290.00	\$10,000.75

Rate Code	kW Savings	kWh Savings	Incentives
EO	20.55	104,368.70	\$10,254.03
EO	19.64	112,373.60	\$10,520.11
EO	19.72	110,981.50	\$12,026.31
EO	27.25	35,482.30	\$13,119.26
EO	22.64	148,307.60	\$13,198.39
EO	13.06	66,076.80	\$13,330.38
EO	7.83	115,928.60	\$13,333.30
EO	28.18	35,488.30	\$13,435.99
EO	26.96	116,360.00	\$13,529.52
EO	21.87	164,993.90	\$13,615.11
EO	111.64	442,995.70	\$32,172.56
EO	66.17	268,212.90	\$33,518.97
EO	3.43	277,055.50	\$35,990.64
EO	12.31	252,832.60	\$36,401.75
EO	90.72	424,670.60	\$43,210.78
EO	86.50	131,924.90	\$43,750.65
EO	90.32	495,019.60	\$47,140.22
EO	110.47	460,412.70	\$47,259.17
EO	4.37	406,945.40	\$52,605.16
EO	79.47	556,724.10	\$55,649.67
EO	0.76	453,725.40	\$57,054.24
EO	128.21	589,908.20	\$60,481.74
EO	117.03	658,638.60	\$62,062.75
EO	20.84	164,301.70	\$13,734.46
EO	28.21	108,470.20	\$13,904.54
EO	28.68	38,564.40	\$13,939.44
EO	29.08	39,406.30	\$14,168.65
EO	22.56	177,218.20	\$14,831.08
EO	30.15	150,415.40	\$14,890.16
EO	28.45	160,112.00	\$15,087.19
EO	9.14	108,599.20	\$15,378.57



2019 Basic CSOP By Rate Code

E0	30.09	169,361.80	\$15,958.74
----	-------	------------	-------------

Rate Code	kW Savings	kWh Savings	Incentives
E0	25.36	94,504.40	\$16,463.60
E0	14.27	134,687.40	\$17,014.40
E0	19.66	119,097.40	\$17,120.28
E0	33.60	189,110.70	\$17,819.68
E0	32.61	193,244.90	\$17,848.21
E0	34.12	147,455.30	\$17,883.20
E0	37.40	178,858.30	\$18,029.75
E0	41.17	166,876.50	\$18,134.17
E0	43.04	186,718.60	\$18,836.16
E0	35.06	214,012.10	\$19,546.68
E0	37.23	209,558.40	\$19,746.42
E0	46.18	364,110.60	\$20,957.02
E0	17.05	116,606.10	\$21,200.36
E0	59.59	241,391.60	\$21,530.22
E0	37.65	246,660.10	\$21,951.16
E0	52.07	81,757.90	\$26,593.13
E0	30.03	201,344.40	\$28,000.41
E0	50.32	309,578.60	\$28,190.06
E0	56.58	292,983.00	\$28,554.40
E0	46.62	335,772.50	\$28,910.75
E0	47.94	269,801.90	\$29,236.58
E0	39.74	299,886.60	\$29,238.70
E0	67.41	311,669.00	\$31,886.41
E0	96.03	757,100.60	\$63,288.22
E0	94.74	674,332.50	\$67,040.77
E0	18.77	618,352.50	\$84,636.63
E0	71.40	457,764.00	\$84,955.92
E0	197.65	802,217.80	\$87,122.02
E0	160.25	756,540.70	\$88,195.89

E0	215.57	929,937.00	\$112,882.46
----	--------	------------	--------------

Rate Code	kW Savings	kWh Savings	Incentives
E0	252.20	1,988,336.70	\$166,210.77
E0	478.83	2,094,075.90	\$98,675.72
E1	4.26	21,059.50	\$1,685.47
E1	24.59	123,407.30	\$13,389.49
EC	5.18	17,169.20	\$2,146.05
EC	11.33	36,990.00	\$4,257.15
EC	120.80	394,636.70	\$45,638.85
EJ	3.50	10,760.30	\$1,347.09
EJ	3.77	21,215.60	\$1,999.12
EJ	4.15	23,336.80	\$2,198.96
EJ	6.12	10,658.20	\$2,818.57
EJ	6.31	17,141.20	\$3,489.45
EJ	15.24	41,473.30	\$8,436.94
EJ	18.46	35,244.60	\$8,794.15
EJ	19.94	18,381.40	\$9,005.66
EJ	37.20	209,373.70	\$13,932.72
EQ	-	(16.80)	-\$0.98
EQ	0.04	-	\$12.61
EQ	2.08	5,925.40	\$1,175.88
EQ	4.75	5,809.80	\$1,953.44
EQ	3.89	6,544.90	\$2,089.36
EQ	4.56	8,419.40	\$2,145.90
EQ	3.89	26,448.80	\$2,254.92
EQ	7.86	36,706.30	\$4,300.67
EQ	8.37	56,855.20	\$4,993.77
EQ	9.85	53,471.90	\$5,110.64
EQ	11.62	24,107.30	\$6,575.58
EQ	2.31	71,476.80	\$9,837.01
EQ	3.99	80,488.20	\$10,426.47



2019 Basic CSOP By Rate Code

EO	33.62	607,695.00	\$89,058.88
EO	155.71	1,091,373.40	\$94,847.30
EO	265.26	1,267,145.30	\$127,794.54

EQ	16.13	64,004.70	\$10,841.82
EQ	20.22	132,467.20	\$11,788.65
EQ	42.85	129,053.60	\$16,328.26

Rate Code	kW Savings	kWh Savings	Incentives
EQ	192.94	306,306.70	\$79,028.05
JO	152.96	286,899.20	\$100,086.00
JO	101.92	2,342,844.50	\$315,442.52
KO	(6.87)	(51,816.30)	-\$4,570.91
KO	-	0.10	\$0.01
KO	1.57	12,186.40	\$717.51
KO	6.71	26,091.70	\$2,026.10
KO	7.95	32,242.10	\$3,503.66
KO	17.06	96,015.80	\$9,047.48
KO	20.97	103,751.80	\$10,306.10
KO	16.41	127,669.90	\$10,717.74
KO	32.51	256,269.00	\$21,422.26
KO	44.56	291,904.90	\$25,977.54
KO	43.51	328,295.80	\$27,089.75
KO	22.93	237,872.30	\$44,448.75
KO	155.34	1,144,305.40	\$97,790.19
KO	35.63	807,129.60	\$116,907.38
LO	0.74	5,596.40	\$567.71
LO	34.88	263,130.30	\$24,969.48
LO	40.90	917,657.10	\$130,659.12
LO	236.18	1,769,504.60	\$159,867.47
NO	215.87	2,743,835.10	\$410,022.59
Grand Total	18,668.53	93,296,462.50	\$10,219,382



2019 Retro-Commissioning Program By Rate Code

Rate Code	kW Savings	kWh Savings	Incentives
E0	-	1,787,403.00	5,875.00
Grand Total	-	1,787,403.00	5,875.00

1.00000

*Includes implementer incentives of \$147,989 for a total 2019 spend of \$153,864

Rate Code	kW Savings	kWh Rounded	Incentives
E0	0.0000	67,793.00	\$208.71
E0	0.0000	98,922.00	\$304.55
E0	0.0000	101,184.00	\$311.51
E0	0.0000	138,150.00	\$523.00
E0	0.0000	165,820.00	\$627.00
E0	0.0000	224,767.00	\$850.00
E0	0.0000	990,767.00	\$3,050.23
Grand Total	0.0000	1,787,403.00	\$5,875.00



2019 Retail Products Platform By Rate Code

2019 Retail Products Platform

Rate Code	kW Savings	kWh Savings	Incentives
D0	5,075.4	20,616,327.70	\$ 146,966.00
Grand Total	5,075.4	20,616,327.70	\$ 146,966.00

1.00000



Oncor's 2019 Energy Efficiency Measure Estimated Useful Life (EUL) NPV Calculation

WP/GDJ/2
Page1 of 2

Avoided Costs kW	\$80.00
WACC	7.44%
Escalation Rate	2.00%
EUL	
Avoided Costs kWh	\$0.05084

YR	kW	kWh
1	\$75.95	\$0.04827
2	\$148.05	\$0.09409
3	\$216.51	\$0.13759
4	\$281.49	\$0.17889
5	\$343.19	\$0.21810
6	\$401.76	\$0.25532
7	\$457.37	\$0.29066
8	\$510.16	\$0.32421
9	\$560.28	\$0.35606
10	\$607.86	\$0.38630
11	\$653.03	\$0.41500
12	\$695.92	\$0.44225
13	\$736.63	\$0.46813
14	\$775.28	\$0.49269
15	\$811.98	\$0.51601
16	\$846.81	\$0.53815
17	\$879.89	\$0.55917
18	\$911.28	\$0.57912
19	\$941.09	\$0.59806
20	\$969.39	\$0.61605
25	\$1,090.79	\$0.69320
30	\$1,184.41	\$0.75270

YR	kW	kWh
1.1	\$83.33	\$0.05296
1.2	\$90.67	\$0.05762
1.3	\$97.98	\$0.06226
1.4	\$105.24	\$0.06688
1.5	\$112.47	\$0.07147
1.6	\$119.66	\$0.07604
1.7	\$126.81	\$0.08059
1.8	\$133.93	\$0.08511
1.9	\$141.01	\$0.08961
2.1	\$155.06	\$0.09854
2.2	\$162.03	\$0.10297
2.3	\$168.96	\$0.10738
2.4	\$175.86	\$0.11176
2.5	\$182.72	\$0.11612
2.6	\$189.55	\$0.12046
2.7	\$196.34	\$0.12478
2.8	\$203.10	\$0.12907
2.9	\$209.82	\$0.13334
3.1	\$223.16	\$0.14182
3.2	\$229.78	\$0.14602
3.3	\$236.36	\$0.15021
3.4	\$242.91	\$0.15437
3.5	\$249.42	\$0.15851
3.6	\$255.90	\$0.16263
3.7	\$262.35	\$0.16672
3.8	\$268.76	\$0.17080
3.9	\$275.15	\$0.17485

YR	kW	kWh
4.1	\$287.81	\$0.18290
4.2	\$294.09	\$0.18689
4.3	\$300.34	\$0.19087
4.4	\$306.56	\$0.19482
4.5	\$312.74	\$0.19875
4.6	\$318.90	\$0.20266
4.7	\$325.02	\$0.20655
4.8	\$331.11	\$0.21042
4.9	\$337.16	\$0.21427
5.1	\$349.18	\$0.22191
5.2	\$355.15	\$0.22570
5.3	\$361.08	\$0.22947
5.4	\$366.98	\$0.23322
5.5	\$372.86	\$0.23695
5.6	\$378.70	\$0.24066
5.7	\$384.51	\$0.24436
5.8	\$390.29	\$0.24803
5.9	\$396.04	\$0.25168
6.1	\$407.45	\$0.25894
6.2	\$413.12	\$0.26254
6.3	\$418.75	\$0.26611
6.4	\$424.35	\$0.26968
6.5	\$429.93	\$0.27322
6.6	\$435.47	\$0.27674
6.7	\$440.99	\$0.28025
6.8	\$446.48	\$0.28374
6.9	\$451.94	\$0.28721



Oncor's 2019 Energy Efficiency Measure Estimated Useful Life (EUL) NPV Calculation

WP/GDJ/2
Page2 of 2

YR	kW	kWh
7	\$462.77	\$0.29409
7	\$468.15	\$0.29751
7	\$473.50	\$0.30091
7	\$478.82	\$0.30429
8	\$484.11	\$0.30765
8	\$489.37	\$0.31100
8	\$494.61	\$0.31432
8	\$499.82	\$0.31764
8	\$505.00	\$0.32093
8	\$515.29	\$0.32747
8	\$520.39	\$0.33071
8	\$525.47	\$0.33394
8	\$530.52	\$0.33715
9	\$535.55	\$0.34034
9	\$540.54	\$0.34352
9	\$545.52	\$0.34668
9	\$550.46	\$0.34982
9	\$555.38	\$0.35295
9	\$565.15	\$0.35915
9	\$569.99	\$0.36223
9	\$574.81	\$0.36529
9	\$579.61	\$0.36834
10	\$584.38	\$0.37137
10	\$589.12	\$0.37439
10	\$593.84	\$0.37739
10	\$598.54	\$0.38037
10	\$603.21	\$0.38334

YR	kW	kWh
10.1	\$612.48	\$0.38923
10.2	\$617.08	\$0.39216
10.3	\$621.66	\$0.39506
10.4	\$626.21	\$0.39796
10.5	\$630.74	\$0.40083
10.6	\$635.24	\$0.40370
10.7	\$639.73	\$0.40655
10.8	\$644.18	\$0.40938
10.9	\$648.62	\$0.41220
11.1	\$657.42	\$0.41779
11.2	\$661.79	\$0.42057
11.3	\$666.13	\$0.42333
11.4	\$670.45	\$0.42607
11.5	\$674.75	\$0.42881
11.6	\$679.03	\$0.43152
11.7	\$683.28	\$0.43423
11.8	\$687.52	\$0.43692
11.9	\$691.73	\$0.43959
12.1	\$700.08	\$0.44490
12.2	\$704.23	\$0.44754
12.3	\$708.35	\$0.45016
12.4	\$712.46	\$0.45277
12.5	\$716.54	\$0.45536
12.6	\$720.60	\$0.45794
12.7	\$724.64	\$0.46051
12.8	\$728.66	\$0.46306
12.9	\$732.65	\$0.46560

YR	kW	kWh
13.1	\$740.59	\$0.47064
13.2	\$744.52	\$0.47314
13.3	\$748.44	\$0.47563
13.4	\$752.33	\$0.47811
13.5	\$756.21	\$0.48057
13.6	\$760.06	\$0.48302
13.7	\$763.90	\$0.48546
13.8	\$767.71	\$0.48788
13.9	\$771.51	\$0.49029
14.1	\$779.04	\$0.49508
14.2	\$782.77	\$0.49745
14.3	\$786.49	\$0.49981
14.4	\$790.19	\$0.50216
14.5	\$793.87	\$0.50450
14.6	\$797.53	\$0.50683
14.7	\$801.17	\$0.50914
14.8	\$804.79	\$0.51144
14.9	\$808.39	\$0.51373
15.1	\$815.54	\$0.51828
15.2	\$819.09	\$0.52053
15.3	\$822.62	\$0.52277
15.4	\$826.13	\$0.52500
15.5	\$829.62	\$0.52722
15.6	\$833.09	\$0.52943
15.7	\$836.55	\$0.53163
15.8	\$839.99	\$0.53381
15.9	\$843.41	\$0.53599

YR	kW	kWh
16.1	\$850.20	\$0.54030
16.2	\$853.57	\$0.54244
16.3	\$856.92	\$0.54457
16.4	\$860.25	\$0.54669
16.5	\$863.56	\$0.54879
16.6	\$866.86	\$0.55089
16.7	\$870.14	\$0.55298
16.8	\$873.41	\$0.55505
16.9	\$876.65	\$0.55711
17.1	\$883.10	\$0.56121
17.2	\$886.30	\$0.56324
17.3	\$889.48	\$0.56526
17.4	\$892.64	\$0.56727
17.5	\$895.79	\$0.56927
17.6	\$898.92	\$0.57126
17.7	\$902.03	\$0.57324
17.8	\$905.13	\$0.57521
17.9	\$908.22	\$0.57717
18.1	\$914.33	\$0.58106
18.2	\$917.37	\$0.58299
18.3	\$920.39	\$0.58491
18.4	\$923.39	\$0.58682
18.5	\$926.38	\$0.58872
18.6	\$929.35	\$0.59060
18.7	\$932.31	\$0.59248
18.8	\$935.25	\$0.59435
18.9	\$938.18	\$0.59621
19.1	\$943.99	\$0.59990
19.2	\$946.87	\$0.60174
19.3	\$949.74	\$0.60356
19.4	\$952.59	\$0.60537
19.5	\$955.43	\$0.60717
19.6	\$958.25	\$0.60897
19.7	\$961.05	\$0.61075
19.8	\$963.85	\$0.61253
19.9	\$966.63	\$0.61429



Oncor's 2019 Energy Efficiency Program Costs

a	b	c	d	e	f	g
Program	Total Energy Efficiency Expenditures as shown in Table 10 of 2020 EEPR	Total Energy Efficiency Incentives (Direct) as shown in Table 10 of 2020 EEPR	Direct Administration Expenditures	Allocated Administration Expenditures Excluding Rate Case Expenses*	Allocated R & D	Total Program Costs c + d + e + f
Home Energy Efficiency SOP	\$9,481,474	\$8,436,929	\$401,202	\$640,994	\$12,805	\$9,491,930
Solar PV - Residential	\$2,320,030	\$2,007,054	\$159,932	\$152,485	\$3,046	\$2,322,517
Residential Load Management SOP	\$1,221,073	\$1,118,156	\$17,654	\$84,952	\$1,697	\$1,222,459
Hard-to-Reach SOP	\$6,792,528	\$6,038,597	\$293,468	\$458,782	\$9,165	\$6,800,012
Targeted Weatherization Low-Income SOP (SB 712)	\$4,838,135	\$4,428,681	\$71,753	\$336,468	\$6,721	\$4,843,623
Retail Platform MTP - Residential	\$3,105,106	\$2,846,178	\$41,897	\$216,239	\$4,320	\$3,108,634
Commercial Load Management SOP	\$2,499,548	\$2,280,000	\$45,690	\$173,223	\$14,559	\$2,513,472
Commercial SOP (Basic)	\$11,958,203	\$10,219,382	\$959,563	\$776,412	\$65,256	\$12,020,613
Commercial SOP (Custom)	\$383,838	\$304,852	\$55,740	\$23,161	\$1,947	\$385,700
Solar PV - Commercial	\$3,100,545	\$2,751,931	\$138,770	\$209,078	\$17,572	\$3,117,351
Small Business Direct Install	\$2,060,366	\$1,880,379	\$36,602	\$142,861	\$12,007	\$2,071,849
Retail Platform MTP - Commercial	\$160,378	\$146,966	\$2,205	\$11,166	\$938	\$161,275
Retro-Commissioning MTP	\$192,699	\$153,864	\$27,102	\$11,690	\$982	\$193,638
Research & Development	\$151,015	\$0	\$0	\$0	\$0	\$0
Total Energy Efficiency	\$48,264,938	\$42,612,969	\$2,251,578	\$3,237,511	\$151,015	\$48,253,073

Commercial Incentives	\$17,737,374
Residential Incentives	\$24,875,595
Total Incentives	\$42,612,969

* Rate Case expenses of \$11,865 paid in 2019 for recovery in 2020

R & D % Commercial	75%
R & D % Residential	25%



**Oncor's Energy Efficiency Research and Development and Evaluation
Measurement and Verification Allocation for 2021 Program Year**

WP/GDJ/4
Page 1 of 1

a	b	c	d	e	f
Program	Total Energy Efficiency Expenditures as shown in Table 6 of 2020 EEPR	Total Energy Efficiency Incentives as shown in Table 6 of 2020 EEPR	R & D Allocation	Evaluation, Measurement & Verification Allocation*	Total Energy Efficiency Expenditures (b + d)
Home Energy Efficiency SOP	\$10,434,600	\$9,113,190	\$12,052		\$10,446,652
Solar PV SOP - Residential	\$1,539,920	\$1,348,950	\$1,784		\$1,541,704
Hard-to-Reach SOP	\$7,554,350	\$6,628,480	\$8,766		\$7,563,116
Targeted Weatherization Low-Income SOP (SB 712)	\$5,200,000	\$4,624,080	\$6,115		\$5,206,115
Residential Load Management SOP	\$1,186,500	\$1,050,000	\$1,389		\$1,187,889
Retail Platform - Residential	\$4,576,055	\$4,160,050	\$5,502		\$4,581,557
Residential New Home MTP	\$1,500,000	\$1,430,000	\$1,891		\$1,501,891
Commercial SOP	\$8,405,181	\$7,353,614	\$48,088		\$8,453,269
Commercial Load Management SOP	\$2,394,000	\$2,100,000	\$13,733		\$2,407,733
Solar PV SOP - Commercial	\$2,323,820	\$2,038,440	\$13,330		\$2,337,150
Small Business Direct Install MTP	\$3,453,630	\$3,139,660	\$20,531		\$3,474,161
Retail Platform - Commercial	\$240,845	\$218,950	\$1,432		\$242,277
Retro-Commissioning MTP	\$1,164,800	\$1,040,000	\$6,801		\$1,171,601
Commercial HVAC Distributor MTP	\$1,496,820	\$1,313,000	\$8,586		\$1,505,406
Total Energy Efficiency Costs	\$51,470,521	\$45,558,414	\$150,000	\$735,989	\$52,356,510
				2019 Over Recovery	(\$1,756,778)
Commercial Incentives	\$17,203,664			EECRF Municipal Rate Case Expenses for 2019 in Docket No. 49594	\$9,940
Residential Incentives	\$28,354,750			Requested Energy Efficiency Performance Bonus for 2019	\$14,249,500
Total Incentives	\$45,558,414			Total 2021 EECRF	\$64,859,172
Estimated EM&V Expenses for Evaluation of 2020 Program Year as Provided by PUCT Staff	\$735,989				
R & D % Commercial	75%				
R & D % Residential	25%				
Total R & D	\$150,000				

* EM&V total costs shown for the 2021 program year are estimated and are actual expenses incurred in 2019 for review of the 2018 program year. The actual 2021 program year expenses for review of the 2020 program year may differ from those incurred in 2019 for the review of the 2018 program year expenses. The estimated 2021 EM&V costs are allocated by rate class as shown in Exhibit GDJ-2.



Program Year 2018 EMV Cost Allocations By Rate Class

WP/GDJ/5
Page 1 of 1

Program	2018 kW	2018 kWh	kW %	kWh %	Priority Weight	Priority %	Blended %	kWh Cost	Priority Cost	Blended Cost
Commercial Load Management SOP	60,000	180,000	39%	0%	5	17%	8%	\$643	\$122,665	\$61,654
Commercial SOP (Basic)	13,477	67,549,695	9%	33%	3	10%	21%	\$241,255	\$73,599	\$157,427
Commercial SOP (Custom)	4,074	27,547,542	3%	13%	3	10%	12%	\$98,387	\$73,599	\$85,993
Retail Platform MTP	203	1,023,413	0%	0%	1	3%	2%	\$3,655	\$24,533	\$14,094
Small Business Direct Install MTP	2,294	13,367,902	1%	6%	3	10%	8%	\$47,744	\$73,599	\$60,671
Solar PV SOP	2,840	11,632,080	2%	6%	1	3%	4%	\$41,544	\$24,533	\$33,039
Hard-to-Reach SOP	7,850	18,815,742	5%	9%	3	10%	10%	\$67,201	\$73,599	\$70,400
Targeted Weatherization Low-Income	1,443	2,539,187	1%	1%	1	3%	2%	\$9,069	\$24,533	\$16,801
Home Energy Efficiency SOP	25,257	39,127,496	16%	19%	3	10%	14%	\$139,745	\$73,599	\$106,672
Residential Demand Response SOP	32,900	197,400	21%	0%	5	17%	8%	\$705	\$122,665	\$61,685
Retail Platform MTP	3,864	19,444,838	2%	9%	1	3%	6%	\$69,448	\$24,533	\$46,990
Solar PV SOP	1,096	4,646,400	1%	2%	1	3%	3%	\$16,595	\$24,533	\$20,564
Total	155,298	206,071,695	100%	100%		100%	100%	\$735,989	\$735,989	\$735,989

	Sector	Residential	Secondary ≤ 10 kW	Secondary > 10 kW	Primary > 10 kW Distribution	Primary > 10 kW Substation	Transmission Service Non- Profit	
Program Year 2018 EM&V Costs By Program and Rate Class			Rate Code B0, B1, B4	Rate Code D0, D1, D4, D6, DC, DJ, DK, DQ, DR, E0, E1, E4, E6, EC, EJ, EQ	Rate Code J0, K0, K1, K4	Rate Code L0	Rate Code N0, N4	Total
Commercial Load Management SOP	Nonresidential	\$0	\$0	\$36,307	\$19,760	\$5,587	\$0	\$61,654
Commercial SOP (Basic)	Nonresidential	\$0	\$8,629	\$137,572	\$10,124	\$0	\$1,102	\$157,427
Commercial SOP (Custom)	Nonresidential	\$0	\$0	\$44,569	\$41,424	\$0	\$0	\$85,993
Retail Platform MTP	Nonresidential	\$0	\$0	\$14,094	\$0	\$0	\$0	\$14,094
Small Business Direct Install MTP	Nonresidential	\$0	\$0	\$60,671	\$0	\$0	\$0	\$60,671
Solar PV SOP	Nonresidential	\$0	\$1,028	\$30,895	\$1,116	\$0	\$0	\$33,039
Hard-to-Reach SOP	Residential	\$70,400	\$0	\$0	\$0	\$0	\$0	\$70,400
Targeted Weatherization Low-Income	Residential	\$16,801	\$0	\$0	\$0	\$0	\$0	\$16,801
Home Energy Efficiency SOP	Residential	\$106,672	\$0	\$0	\$0	\$0	\$0	\$106,672
Residential Demand Response SOP	Residential	\$61,685	\$0	\$0	\$0	\$0	\$0	\$61,685
Retail Platform MTP	Residential	\$46,990	\$0	\$0	\$0	\$0	\$0	\$46,990
Solar PV SOP	Residential	\$20,564	\$0	\$0	\$0	\$0	\$0	\$20,564
Total		\$323,112	\$9,657	\$324,107	\$72,424	\$5,587	\$1,102	\$735,989

Nonresidential Rate Class allocation based on incentive ratios by Program found in Workpapers WP/MRS/1 in Docket No. 49594



Program Year 2019 EMV Cost Allocations*

WP/GDJ/6

Page 1 of 1

Program	kW	kWh	kW%	kWh%	Priority Weight	Blended %	kWh Cost	Blended Cost
Basic Commercial SOP	10,557	55,520,837	7%	25%	3	17%	\$190,087	\$123,833
Commercial Load Management SOP	60,000	180,000	37%	0%	3	4%	\$616	\$29,098
Custom Commercial SOP	3,465	20,338,921	2%	9%	3	8%	\$69,635	\$63,607
Retail Platform MTP	656	2,837,591	0%	1%	5	7%	\$9,715	\$52,840
Retro-Commissioning MTP	0	3,000,000	0%	1%	3	5%	\$10,271	\$33,925
Small Business Direct Install MTP	2,179	13,365,283	1%	6%	3	7%	\$45,759	\$51,669
Solar PV SOP	1,534	4,979,022	1%	2%	1	2%	\$17,047	\$18,120
Hard-to-Reach SOP	12,105	18,686,710	7%	9%	3	8%	\$63,978	\$60,778
Targeted Weatherization Low-Income SOP	2,750	4,075,304	2%	2%	3	5%	\$13,953	\$35,766
Home Energy Efficiency SOP	21,310	36,706,893	13%	17%	3	12%	\$125,674	\$91,626
Residential Demand Response SOP	32,900	197,400	20%	0%	3	4%	\$676	\$29,127
Retail Platform MTP	12,470	53,914,221	8%	25%	5	19%	\$184,587	\$140,276
Solar PV SOP	1,492	4,827,683	1%	2%	1	2%	\$16,529	\$17,861

\$748,525

* EM&V Costs for the Evaluation of Program Year 2019 were approved in Docket No. 49594



Oncor's 2019 Energy Efficiency Performance Bonus and Cost-Effectiveness Costs

WP/GDJ/7
Page 1 of 1

a	b	c	d	e	f	g	h	i	j
Program	Total Energy Efficiency Expenditures as shown in Table 10 of 2020 EEPR	Total Energy Efficiency Incentives (Direct) as shown in Table 10 of 2020 EEPR	Direct Administration Expenditures	Allocated Administration Expenditures	Allocated R & D	EM&V Cost Allocation as Provided by Evaluator*	Allocated Performance Bonus	Total Costs for Bonus Calculation (c+d+e+f+g+h)	Total Costs for Cost-Effectiveness Calculation (c+d+e+f+g+h) Minus Municipal Rate Case Expenses
Solar PV - Residential	\$2,320,030	\$2,007,054	\$159,932	\$153,044	\$3,046	\$17,861	\$324,057	\$2,664,994	\$2,664,427
Hard-to-Reach SOP	\$6,792,528	\$6,038,597	\$293,468	\$460,463	\$9,165	\$60,778	\$949,975	\$7,812,446	\$7,810,785
Home Energy Efficiency SOP	\$9,481,474	\$8,436,929	\$401,202	\$643,343	\$12,805	\$91,626	\$1,326,981	\$10,912,886	\$10,910,565
Targeted Weatherization Low-Income SOP (SB 712)	\$4,838,135	\$4,428,681	\$71,753	\$337,701	\$6,721	\$35,766	\$675,627	\$5,556,249	\$5,555,068
Residential Load Management SOP	\$1,221,073	\$1,118,156	\$17,654	\$85,263	\$1,697	\$29,127	\$173,301	\$1,425,198	\$1,424,895
Retail Platform MTP - Residential	\$3,105,106	\$2,846,178	\$41,897	\$217,031	\$4,320	\$140,275	\$449,858	\$3,699,559	\$3,698,772
SOP	\$2,499,548	\$2,280,000	\$45,690	\$173,858	\$14,559	\$29,098	\$352,057	\$2,895,262	\$2,894,646
Commercial SOP (Basic)	\$11,958,203	\$10,219,382	\$959,563	\$779,258	\$65,256	\$123,833	\$1,681,556	\$13,828,848	\$13,825,908
Commercial SOP (Custom)	\$383,838	\$304,852	\$55,740	\$23,246	\$1,947	\$63,607	\$62,210	\$511,602	\$511,493
Solar PV - Commercial	\$3,100,545	\$2,751,931	\$138,770	\$209,844	\$17,572	\$18,120	\$434,151	\$3,570,388	\$3,569,629
Small Business Direct Install	\$2,060,366	\$1,880,379	\$36,602	\$143,385	\$12,007	\$51,669	\$294,032	\$2,418,074	\$2,417,560
Retail Platform MTP - Commercial	\$160,378	\$146,966	\$2,205	\$11,207	\$938	\$52,840	\$29,646	\$243,802	\$243,750
Retro-Commissioning MTP	\$192,699	\$153,864	\$27,102	\$11,733	\$982	\$33,925	\$31,508	\$259,114	\$259,059
Research & Development	\$151,015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Energy Efficiency	\$48,264,938	\$42,612,969	\$2,251,578	\$3,249,376	\$151,015	\$748,525	\$6,784,959	\$55,798,422	\$55,786,557

Commercial Incentives	\$17,737,374
Residential Incentives	\$24,875,595
Total Incentives	\$42,612,969

Total Admin. Costs	\$5,500,954
Direct Admin. Costs	\$2,251,578
Allocated Admin	\$3,249,376

R & D % Commercial	75%
R & D % Residential	25%

Bonus Collected in 2019	\$6,784,959
-------------------------	-------------

Municipal Rate Case Expenses Paid in 2019	\$11,865
---	----------

2019 EM&V Cost Allocation	\$748,525
---------------------------	-----------

* EM&V Cost Allocation for the 2019 Program Year provided by the PUCT Evaluator can be found in WP/GDJ/6



Testimony
Workpapers
Of
Matthew A. Troxle



**Oncor Electric Delivery Company LLC
Energy Efficiency Revenues and Actual Billing Determinants
For the Year Ended December 31, 2019**

Energy Efficiency Rate Class	(a)	(b)
	2019 EECRF Billed Revenue¹	2019 Actual Billing Determinants (kWh)
Residential	\$ 34,425,354	45,544,414,896
Secondary Service < 10 kW	\$ 433,218	1,875,682,161
Secondary Service > 10 kW	\$ 19,557,083	47,026,520,484
Primary Service < 10 kW	\$ (377)	33,001,688
Primary Service > 10 kW		
Distribution Line	\$ 3,097,901	16,615,134,576
Substation	\$ 5,929	4,740,274,898
Transmission		
Non Profit (N0, N1, N4, N5)	\$ 102,169	1,106,944,362
For Profit (N6, N7, N8, N9)	\$ -	16,006,508,186
Lighting	\$ -	408,970,295
Total	\$ 57,621,277	133,357,451,546

¹ Energy Efficiency Revenues Billed Through the EECRF Factors as Approved in Docket Nos. 47235 and 48421

Source: Company's Books and Records



Oncor Electric Delivery Company LLC
Application of 2021 Energy Efficiency Cost Recovery Factor

2019 (Over)/Under Collection of Energy Efficiency Costs

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (c)-[(d)-(e)]+(f)+(g)	(i) = (h) * 1.0199	(j) = (i) * 1.0235
	2019 Actual Energy Efficiency Program Costs, see Exhibit GDJ-2	2019 EECRF Revenue, see WP/MAT/1 (a)	2017 Performance Bonus Allocation ¹	Municipal Rate Case Expense Incurred in 2017 ²	2017 (Over)/Under Recovery of Energy Efficiency Costs ³	2019 (Over)/Under Recovery of Energy Efficiency Costs	2019 (Over)/Under Recovery of Energy Efficiency Costs with 2019 Interest*	2019 (Over)/Under Recovery of Energy Efficiency Costs with 2019 & 2020 Interest*	
Energy Efficiency Rate Class	Column	Program Cost	Amount	Amount	Amount	Amount	Amount	Amount	
Residential Service	(b)	28,112,287	34,425,354	4,154,477	38,051	1,439,424	(681,115)	(694,669)	(710,994)
Secondary Service ≤ 10 kW	(c)	219,344	433,218	106,256	623	(253,384)	(360,379)	(367,551)	(376,188)
Secondary Service > 10 kW	(d)	17,816,505	19,557,083	2,188,215	8,518	(642,651)	(186,496)	(190,207)	(194,677)
Primary Service ≤ 10 kW		0	(377)	0	0	(1,291)	(914)	(932)	(954)
Primary Service > 10 kW									
Distribution Line	(e)	1,931,737	3,097,901	311,365	6,077	(339,532)	(1,188,254)	(1,211,900)	(1,240,380)
Substation	(f)	425,820	5,929	5,425	7	(38,184)	387,139	394,843	404,122
Transmission Service									
Non Profit	(g)	483,369	102,169	19,221	25	(127,205)	273,241	278,678	285,227
For Profit		0	0	0	0	0	0	0	0
Lighting Service		0	0	0	0	0	0	0	0
Total		48,989,062	57,621,277	6,784,959	53,301	37,177	(1,756,778)	(1,791,738)	(1,833,844)

¹ Allocation of performance bonus as approved in Oncor's 2019 EECRF Docket No. 48421, see FoF 29. See witness J. Michael Sherburne direct testimony (Revised 6-25-18), Exhibit JMS-2 (Revised 6-25-18), p. 13 of Stipulation and Settlement Agreement.

² Allocation of Municipal Rate Case Expense as approved in Oncor's 2019 EECRF Docket No. 48421, see FoF 29. See witness J. Michael Sherburne direct testimony, Exhibit JMS-3, p. 179 of Application.

³ Allocation of over-recovery of 2017 energy efficiency costs as approved in Oncor's 2019 EECRF Docket No. 48421, see FoF 29. See witness J. Michael Sherburne direct testimony, Exhibit JMS-4, p. 180 of Application.

* Interest rates for 2019 and 2020 are based on Orders in Project No. 45319 applicable to overbillings and underbillings. The interest rate for overbillings and underbillings is 1.99% in 2019 and 2.35% in 2020.



**Oncor Electric Delivery Company LLC
Annual Growth in Demand and Energy Consumption ***

Calendar Year	Energy Consumption (MWh) at Meter				Peak Demand (MW) at Source								EE Demand Goal (MW) at Meter	
	Total System		Eligible Residential & Commercial		Total System		Industrial Opt-Out / Ineligible		Eligible Residential & Commercial		Annual Growth (MW)	5-Yr Avg Growth (MW)	30% of 5-Yr Avg Growth**	0.4% of 5-Yr Avg Peak Demand**
	Actual	Actual, Weather-Adjusted	Actual	Actual, Weather-Adjusted	Actual	Actual, Weather-Adjusted	Secondary / Primary Voltage	Transmission Voltage	Actual	Actual, Weather-Adjusted	Actual, Weather-Adjusted	Actual, Weather-Adjusted	Actual, Weather-Adjusted	Actual, Weather-Adjusted
2014	114,905,829	113,939,185	101,640,875	100,674,230	24,102	26,033	393	1,196	22,514	24,444				
2015	116,594,625	116,554,605	102,634,272	102,594,252	25,511	26,158	414	1,232	23,865	24,513	68.4			
2016	115,791,379	117,927,439	100,977,674	103,113,734	25,766	26,598	429	1,326	24,010	24,843	330.3			
2017	117,017,075	119,776,460	100,971,312	103,730,697	25,148	26,245	486	1,393	23,269	24,366	(476.9)			
2018	130,007,690	128,631,337	111,336,170	109,959,816	27,471	27,201	539	1,516	25,415	25,145	779.3			
2019	133,357,452	133,307,591	112,552,481	112,502,621	27,174	28,733	524	1,884	24,767	26,326	1,180.3	376.3	106.5	94.5
2020	133,762,656	134,520,860		113,276,878										
2021		136,053,394		114,544,958										

Energy Efficiency Goal Calculation Scenarios	System Peak (MW) Actual, Weather-Adjusted (a)	Industrial Opt-Out / Ineligible (MW) Secondary / Primary Voltage (b)	Transmission Voltage (c)	System Growth / EE Goal Calculation (d)=(a)+(b)+(c)
	5-Yr Avg Growth (MW)	540.1	-26.2	-137.6
	30% of 5-Yr Avg Growth**	152.9	-7.4	-38.9
	0.4% of 5-Yr Avg Peak Demand**	101.8	-1.8	-5.5

2019 MWh	Residential	Sec ≤ 10 kW	Sec > 10 kW	Pri ≤ 10 kW	Pri > 10 kW	Pri-Substn	Transmission	Lighting	Retail
Actual (at Meter)	45,544,415	1,875,682	47,026,520	33,002	16,615,135	4,740,275	17,113,453	408,970	133,357,452
Weather-Adj									
2019 (10-year)	45,238,089	1,868,397	47,276,925	33,002	16,628,481	4,740,275	17,113,453	408,970	133,307,591
Opt-Out/Ineligible	0	(57,335)	(332,062)	(14,405)	(2,626,729)	(1,358,962)	(16,006,508)	(408,970)	(20,804,971)
2019 W-A Eligible	45,238,089	1,811,062	46,944,862	18,597	14,001,753	3,381,313	1,106,944	0	112,502,621
2020 Forecast (1+11)									
Total	44,816,682	1,872,569	47,456,505	34,930	16,851,313	4,797,256	17,529,938	403,464	133,762,656
Weather Adj	619,196	7,728	130,971	0	308	0	0	0	758,204
2020 W-A Total	45,435,878	1,880,297	47,587,477	34,930	16,851,621	4,797,256	17,529,938	403,464	134,520,860
Opt-Out/Ineligible	0	(57,700)	(334,243)	(15,246)	(2,661,977)	(1,375,297)	(16,396,054)	(403,464)	(21,243,982)
2020 W-A Eligible	45,435,878	1,822,597	47,253,233	19,683	14,189,644	3,421,958	1,133,884	0	113,276,878
2021 Forecast									
Total	46,238,895	1,922,068	47,946,789	35,358	16,892,580	4,819,555	17,795,067	403,082	136,053,394
Opt-Out/Ineligible	0	(58,982)	(336,767)	(15,433)	(2,668,447)	(1,381,690)	(16,644,034)	(403,082)	(21,508,436)
2021 Eligible	46,238,895	1,863,086	47,610,022	19,924	14,224,133	3,437,865	1,151,033	0	114,544,958

* Various table values may differ from prior years due to refinement of historic demand values from ERCOT and revisions arising from the weather adjustment process. Additional revisions may arise from adjustments related to the consumption and peak demand of exempt industrial premises opting out of energy efficiency programs.

** Reflects line loss of: 5.655%

Source: Derived from Oncor Electric Delivery Company LLC's 2020 Energy and Demand Plans



**Oncor Electric Delivery Company LLC
Application of 2021 Energy Efficiency Cost Recovery Factor**

Calculation of Line Loss Factor

Oncor Annual Peak (2015-2019)		Load Research (kW)				Line Loss Factors ¹			Weighted Average Line Loss Factors			
Date/time	Line	(a) Secondary	(b) Primary	(c) Transmission	(d)=(a)+(b)+(c) Total	(e) Secondary	(f) Primary	(g) Transmission	(h)* Secondary	(i)* Primary	(j)* Transmission	(k)=(h)+(i)+(j) Total
8/26/2019 17:30	1	20,951,524	2,629,361	2,040,533	25,621,418	5.76209%	4.25234%	1.98790%	4.71119%	0.4364%	0.1583%	5.307%
7/19/2018 16:30	2	21,778,156	2,462,675	1,651,794	25,892,625	5.73121%	4.21193%	1.88660%	4.8205%	0.4006%	0.1204%	5.341%
7/28/2017 17:00	3	20,321,516	2,045,533	1,524,966	23,892,015	6.34345%	4.16748%	2.00692%	5.3955%	0.3568%	0.1281%	5.880%
8/11/2016 16:45	4	20,712,584	2,011,126	1,465,684	24,189,394	6.28331%	4.10177%	1.90666%	5.3802%	0.3410%	0.1155%	5.837%
8/10/2015 16:30	5	20,921,289	2,023,939	1,364,981	24,310,209	6.33822%	4.15672%	1.96178%	5.4547%	0.3461%	0.1102%	5.911%
												5.655%
												5-yr avg

* The 2019 weighted average for Secondary is calculated using this equation: $(a1/d1)*e1$. The equation for the 2019 weighted average for Primary is: $(b1/d1)*f1$.
The equation for the 2019 weighted average for Transmission is: $(c1/d1)*g1$. A similar equation is used for each voltage group and each year from 2015 to 2018.

¹ Actual loss factors used in ERCOT Wholesale Settlement at the time of Oncor Annual Peak

