

**Table 1**  
**Loads and Resources**  
**2018 through 2027**

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>aMW</b>										
Net Load	2,337	2,343	2,334	2,316	2,308	2,305	2,307	2,300	2,239	2,238
Long Term Sales	74	74	74	74	74	74	74	74	74	74
Short Term Firm Sales	-	-	-	-	-	-	-	-	-	-
Total Requirements	2,411	2,417	2,408	2,390	2,382	2,378	2,381	2,374	2,313	2,312
Long Term Purchases	50	23	24	23	15	23	11	11	10	9
Short Term Firm Purchase	203	-	-	-	-	-	-	-	-	-
Thermal Generation	1,914	1,914	1,915	1,914	1,914	1,914	1,915	1,914	1,914	1,914
Other Generation	518	526	558	490	490	491	491	490	490	490
Reserves	(135)	(144)	(147)	(162)	(162)	(164)	(162)	(162)	(160)	(161)
Total Resources after Reserves	2,550	2,320	2,349	2,265	2,257	2,264	2,254	2,253	2,254	2,253
Surplus / (Deficit)	139	(96)	(59)	(124)	(125)	(114)	(127)	(121)	(58)	(59)
Percent Surplus / (Deficit)	5.8%	-4.0%	-2.4%	-5.2%	-5.3%	-4.8%	-5.3%	-5.1%	-2.5%	-2.6%
<b>Peak (July)</b>										
Net Load	3,362	3,359	3,343	3,327	3,315	3,309	3,301	3,297	3,240	3,238
Long Term Sales	-	-	-	-	-	-	-	-	-	-
Short Term Firm Sales	-	-	-	-	-	-	-	-	-	-
Total Requirements	3,362	3,359	3,343	3,327	3,315	3,309	3,301	3,297	3,240	3,238
Long Term Purchases	60	16	12	10	18	19	11	11	11	11
Short Term Firm Purchase	225	-	-	-	-	-	-	-	-	-
Thermal Generation	1,998	1,998	1,998	1,998	1,998	1,998	1,998	1,998	1,998	1,998
Other Generation	916	948	980	825	817	816	835	837	823	825
Reserves	(175)	(172)	(174)	(161)	(167)	(167)	(170)	(168)	(167)	(168)
Total Resources after Reserves	3,023	2,789	2,816	2,673	2,666	2,666	2,674	2,678	2,665	2,667
Surplus / (Deficit)	(339)	(570)	(527)	(654)	(649)	(643)	(627)	(620)	(575)	(571)
Percent Surplus / (Deficit)	-10.1%	-17.0%	-15.8%	-19.7%	-19.6%	-19.4%	-19.0%	-18.8%	-17.7%	-17.6%
<b>Peak (January)</b>										
Net Load	3,637	3,645	3,629	3,613	3,608	3,605	3,606	3,609	3,553	3,556
Long Term Sales	-	-	-	-	-	-	-	-	-	-
Short Term Firm Sales	-	-	-	-	-	-	-	-	-	-
Total Requirements	3,637	3,645	3,629	3,613	3,608	3,605	3,606	3,609	3,553	3,556
Long Term Purchases	59	23	30	28	(14)	29	20	20	20	6
Short Term Firm Purchase	825	-	-	-	-	-	-	-	-	-
Thermal Generation	2,047	2,047	2,047	2,047	2,047	2,047	2,047	2,047	2,047	2,047
Other Generation	1,023	1,026	1,068	907	905	908	899	910	917	907
Reserves	(166)	(183)	(186)	(180)	(183)	(182)	(183)	(181)	(179)	(178)
Total Resources after Reserves	3,787	2,913	2,960	2,802	2,756	2,803	2,783	2,796	2,804	2,783
Surplus / (Deficit)	150	(731)	(669)	(810)	(852)	(802)	(823)	(813)	(748)	(773)
Percent Surplus / (Deficit)	4.1%	-20.1%	-18.4%	-22.4%	-23.6%	-22.2%	-22.8%	-22.5%	-21.1%	-21.7%

**Table 2**

**Avoided Energy - \$/MWH**

Year	Winter Season				Summer Season						Winter Season	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

**GRID Production Cost Model Study**

2018	\$26.10	\$23.58	\$18.62	\$14.43	\$12.49	\$13.24	\$23.25	\$28.86	\$25.33	\$22.17	\$22.12	\$26.10
2019	\$26.67	\$23.48	\$19.23	\$15.59	\$13.76	\$13.19	\$23.12	\$27.30	\$25.16	\$20.80	\$22.66	\$26.35
2020	\$28.65	\$25.17	\$20.78	\$17.66	\$15.83	\$15.63	\$23.01	\$27.05	\$25.30	\$23.01	\$25.10	\$29.70
2021	\$30.25	\$26.71	\$22.05	\$19.03	\$16.87	\$16.74	\$24.14	\$28.29	\$26.43	\$24.10	\$26.39	\$31.35
2022	\$31.67	\$28.13	\$23.49	\$20.51	\$18.28	\$18.20	\$25.37	\$29.89	\$27.83	\$25.53	\$27.86	\$32.78
2023	\$33.12	\$29.58	\$24.94	\$21.80	\$19.89	\$19.65	\$26.86	\$31.38	\$29.30	\$26.91	\$33.06	\$36.27
2024	\$35.46	\$35.35	\$29.88	\$27.68	\$24.34	\$25.84	\$33.65	\$37.31	\$35.31	\$33.19	\$38.29	\$39.75
2025	\$37.72	\$41.15	\$34.83	\$33.49	\$28.89	\$32.17	\$40.34	\$43.03	\$41.72	\$39.16	\$39.67	\$40.69
2026	\$38.95	\$41.76	\$34.99	\$34.18	\$29.24	\$33.44	\$41.87	\$43.81	\$41.84	\$39.63	\$40.29	\$41.77
2027	\$39.69	\$42.49	\$35.26	\$34.40	\$29.92	\$33.69	\$42.51	\$44.24	\$42.75	\$41.26	\$42.84	\$43.82

**Annual Seasonal Average**

Year	Winter Season	Summer Season	Annual Average
2018	\$21.84	\$20.91	\$21.37
2019	\$22.34	\$20.57	\$21.45
2020	\$24.54	\$21.65	\$23.02
2021	\$25.99	\$22.78	\$24.37
2022	\$27.43	\$24.20	\$25.80
2023	\$29.83	\$25.68	\$27.73
2024	\$34.41	\$31.62	\$32.91
2025	\$37.89	\$37.56	\$37.72
2026	\$38.62	\$38.31	\$38.47
2027	\$39.73	\$39.07	\$39.28

Source: GRID Production Cost Computer Model Study - Dated November 29, 2017

**Table 3**  
**Capitalized Energy Costs**

Year	Combined Cycle CT Fixed Costs	Simple Cycle CT Fixed Costs	Capitalized Energy Costs	Capitalized Energy Costs 70.3% CF
	(\$/kW-yr)	(\$/kW-yr)	(\$/kW-yr)	(\$/MWH)
	(a)	(b)	(c)	(d)

**Avoided Resource**

Fixed Cost x 3 Months

2018	\$29.31
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**CCCT Proxy Resource**

Fixed Cost

2019	\$164.56	\$119.92	\$44.64	\$0.01
2020	\$168.87	\$123.03	\$45.84	\$0.01
2021	\$172.90	\$125.99	\$46.91	\$0.01
2022	\$176.87	\$128.88	\$47.99	\$0.01
2023	\$180.91	\$131.83	\$49.08	\$0.01
2024	\$185.04	\$134.87	\$50.17	\$0.01
2025	\$189.32	\$137.97	\$51.35	\$0.01
2026	\$193.46	\$141.01	\$52.45	\$0.01
2027	\$197.75	\$144.11	\$53.64	\$0.01

**Columns**

- (a) Table 8 Column (f) - Table 8 Page 2
- (b) Table 8 Column (f) - Table 8 Page 1
- (c) and (d) Capitalized energy costs are zero since fixed cost of CCCT is lower than the fixed cost of SCCT.

**Table 4**  
**Total Avoided Energy Cost**

Year	Gas Fuel Costs Delivered	Energy Cost	Capitalized Energy Costs 70.3% CF	Total Avoided Energy Cost
	(\$/MMBtu)	(\$/MWH)	(\$/MWH)	(\$/MWH)
	(a)	(b)	(c)	(d)
		(a) x 6.410		(b) + (c)

**Avoided Resource**

2018	\$21.37
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**CCCT Proxy Resource**

2019	\$2.39	\$15.32	\$0.01	\$15.33
2020	\$2.38	\$15.26	\$0.01	\$15.26
2021	\$2.40	\$15.38	\$0.01	\$15.39
2022	\$2.42	\$15.51	\$0.01	\$15.52
2023	\$2.57	\$16.47	\$0.01	\$16.48
2024	\$3.30	\$21.15	\$0.01	\$21.16
2025	\$3.89	\$24.93	\$0.01	\$24.94
2026	\$3.88	\$24.87	\$0.01	\$24.88
2027	\$4.02	\$25.77	\$0.01	\$25.78

**Columns**

- (a) Table 8 Page 2 Column (g)
- (b) Table 8 Page 2 Column (i) Heat rate 6.410 MMBtu/MWh
- (c) Table 3 Column (d)
- (d) For 2018-2018 - Table 2

**Table 5**  
**Total Avoided Cost**

Year	Avoided Firm Capacity Costs	Total Avoided Energy Cost	Total Avoided Costs At Stated Capacity Factor		
			75%	85%	95%
	(\$/kW-yr)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(\$/MWH)
	(a)	(b)	(c)	(d)	(e)
			$(b)+(a)/(8.76 \times 0.75)$	$(b)+(a)/(8.76 \times 0.85)$	$(b)+(a)/(8.76 \times 0.95)$

**Avoided Resource**

2018	\$29.31	\$21.37	\$25.83	\$25.31	\$24.89
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**CCCT Proxy Resource**

2019	\$164.56	\$15.33	\$40.37	\$37.43	\$35.10
2020	\$168.87	\$15.26	\$40.97	\$37.94	\$35.56
2021	\$172.90	\$15.39	\$41.71	\$38.61	\$36.17
2022	\$176.87	\$15.52	\$42.44	\$39.27	\$36.77
2023	\$180.91	\$16.48	\$44.02	\$40.78	\$38.22
2024	\$185.04	\$21.16	\$49.33	\$46.01	\$43.40
2025	\$189.32	\$24.94	\$53.76	\$50.37	\$47.69
2026	\$193.46	\$24.88	\$54.33	\$50.86	\$48.13
2027	\$197.75	\$25.78	\$55.88	\$52.33	\$49.54

**Columns**

- (a) Short Run avoided Capacity costs: Table 3 Column (b),  
Long Run Avoided capacity Costs: Table 3 Column (a)
- (b) Table 4 Column (d)

**Table 6**  
**Illustrative Base Load - On- & Off Peak- Avoided Cost Prices (1)**

Year	Avoided Firm Capacity Costs	Capacity Cost Allocated to On-Peak Hours	Total Avoided Energy Cost	On-Peak 4,993 Hours	Off-Peak 3,767 Hours
	(\$/kW-yr)	(\$/MWH)	(\$/MWH)	(3)	(2)
	(a)	(b)	(c)	(d)	(e)
		(a) / (8.76 x 100.0% x 57%)		(b) + (c)	(b)

**Avoided Resource**

2018	\$29.31	\$5.87	\$21.37	\$27.24	\$21.37
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**CCCT Proxy Resource**

2019	\$164.56	\$32.96	\$15.33	\$48.29	\$15.33
2020	\$168.87	\$33.82	\$15.26	\$49.08	\$15.26
2021	\$172.90	\$34.63	\$15.39	\$50.02	\$15.39
2022	\$176.87	\$35.42	\$15.52	\$50.94	\$15.52
2023	\$180.91	\$36.23	\$16.48	\$52.71	\$16.48
2024	\$185.04	\$37.06	\$21.16	\$58.22	\$21.16
2025	\$189.32	\$37.92	\$24.94	\$62.86	\$24.94
2026	\$193.46	\$38.74	\$24.88	\$63.62	\$24.88
2027	\$197.75	\$39.60	\$25.78	\$65.38	\$25.78

**Columns**

- (a) Short Run avoided Capacity costs: Table 3 Column (b),  
Long Run Avoided capacity Costs: Table 3 Column (a)
- (b) Table 8 100.0% is the on-peak capacity factor of the Proxy Resource
- (c) Table 4 Column (d)

**Notes**

- (1) Total Avoided Costs at Stated Capacity Factor are provided for illustrative purposes and are not used for QF pricing.
- (2) Off-Peak is the average annual energy only cost including capitalized energy
- (3) On-Peak is average annual energy plus capacity costs

**Table 7**

**Comparison between Proposed and Current Avoided Costs**

**Comparison between Proposed and Current Avoided Costs**

BASE LOAD				WIND			SOLAR FIXED				SOLAR TRACKING		
Year	Total Avoided Costs with Capacity Costs included at 85.0% Capacity Factor			Total Avoided Costs with Capacity Costs included at 40.0% Capacity Factor			Year	Total Avoided Costs with Capacity Costs included at 18.5% Capacity Factor			Total Avoided Costs with Capacity Costs included at 29.0% Capacity Factor		
	Proposed (1) Avoided Costs (\$/MWH)	Current Avoided Costs (\$/MWH)	Difference (\$/MWH)	Proposed (1) Avoided Costs (\$/MWH)	Current Avoided Costs (\$/MWH)	Difference (\$/MWH)		Proposed (1) Avoided Costs (\$/MWH)	Current Avoided Costs (\$/MWH)	Difference (\$/MWH)	Proposed (1) Avoided Costs (\$/MWH)	Current Avoided Costs (\$/MWH)	Difference (\$/MWH)
	(a)	(b)	(c)=(a)-(b)	(a)	(b)	(c)=(a)-(b)		(a)	(b)	(c)=(a)-(b)	(a)	(b)	(c)=(a)-(b)
2018	\$24.72	\$28.00	(\$3.28)	\$24.72	\$28.00	(\$3.28)	2018	\$24.72	\$28.00	(\$3.28)	\$24.72	\$28.00	(\$3.28)
2019	\$34.11	\$28.84	\$5.27	\$34.11	\$28.84	\$5.27	2019	\$34.11	\$28.84	\$5.27	\$34.11	\$28.84	\$5.27
2020	\$34.54	\$30.01	\$4.53	\$34.54	\$30.01	\$4.53	2020	\$34.54	\$30.01	\$4.53	\$34.54	\$30.01	\$4.53
2021	\$35.13	\$34.00	\$1.13	\$35.13	\$34.00	\$1.13	2021	\$35.13	\$34.00	\$1.13	\$35.13	\$34.00	\$1.13
2022	\$35.71	\$35.24	\$0.47	\$35.71	\$35.24	\$0.47	2022	\$35.71	\$35.24	\$0.47	\$35.71	\$35.24	\$0.47
2023	\$37.13	\$38.72	(\$1.59)	\$37.13	\$38.72	(\$1.59)	2023	\$37.13	\$38.72	(\$1.59)	\$37.13	\$38.72	(\$1.59)
2024	\$42.28	\$42.25	\$0.03	\$42.28	\$42.25	\$0.03	2024	\$42.28	\$42.25	\$0.03	\$42.28	\$42.25	\$0.03
2025	\$46.56	\$43.63	\$2.93	\$46.56	\$43.63	\$2.93	2025	\$46.56	\$43.63	\$2.93	\$46.56	\$43.63	\$2.93
2026	\$46.96	\$44.50	\$2.46	\$46.96	\$44.50	\$2.46	2026	\$46.96	\$44.50	\$2.46	\$46.96	\$44.50	\$2.46
2027	\$48.35	\$45.48(x)	\$2.87	\$48.35	\$45.48(x)	\$2.87	2027	\$48.35	\$45.48(x)	\$2.87	\$48.35	\$45.48(x)	\$2.87

5-Year Nominal Levelized (2018 - 2022) @ 6.570% Discount Rate

\$/MWH \$32.54 \$30.97 \$1.57 \$32.54 \$30.97 \$1.57

10-Year Nominal Levelized (2017 - 2026)

\$/MWH \$37.33 \$35.92 \$1.41 \$37.33 \$35.92 \$1.41

Columns

- (a) Table 5 Column (d)
- (b) Current Commission approved rates that became effective February 15, 2016
- (x) Extrapolated at inflation

5-Year Nominal Levelized (2018 - 2022) @ 6.570% Discount Rate

\$/MWH \$32.54 \$30.97 \$1.57 \$32.54 \$30.97 \$1.57

10-Year Nominal Levelized (2017 - 2026)

\$/MWH \$37.33 \$35.92 \$1.41 \$37.33 \$35.92 \$1.41

Columns

- (a) Table 5 Column (d)
- (b) Current Commission approved rates that became effective February 15, 2016
- (x) Extrapolated at inflation

**Table 8  
Total Cost of Displaceable Resources**

Year	Estimated Capital Cost \$/kW (a)	Capital Cost at Real Levelized Rate \$/kW-yr (b)	Fixed O&M \$/kW-yr (c)	Variable O&M \$/MWH (d)	Total O&M at Expected CF \$/kW-yr (e)	Total Resource Fixed Costs \$/kW-yr (f)
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**SCCT Frame "F"x1 - West Side Options (1500')**

2016	\$616	\$45.43	\$48.46	\$6.62	\$67.59	\$113.02
2017		\$46.29	\$49.38	\$6.74	\$68.86	\$115.15
2018		\$47.12	\$50.27	\$6.86	\$70.10	\$117.22
2019		\$48.20	\$51.43	\$7.02	\$71.72	\$119.92
2020		\$49.45	\$52.77	\$7.20	\$73.58	\$123.03
2021		\$50.64	\$54.04	\$7.37	\$75.35	\$125.99
2022		\$51.80	\$55.28	\$7.54	\$77.08	\$128.88
2023		\$52.99	\$56.55	\$7.71	\$78.84	\$131.83
2024		\$54.21	\$57.85	\$7.89	\$80.66	\$134.87
2025		\$55.46	\$59.18	\$8.07	\$82.51	\$137.97
2026		\$56.68	\$60.48	\$8.25	\$84.33	\$141.01
2027		\$57.93	\$61.81	\$8.43	\$86.18	\$144.11
2028		\$59.20	\$63.17	\$8.62	\$88.09	\$147.29

Source: (a)(c)(d) Plant Costs - 2017 IRP - Table 6.1 & 6.2  
 (b) = (a) x 7.373% Payment Factor  
 (e) = (d) x (8.76 x 33%) + (c)  
 (f) = (b) + (e)

**SCCT Frame "F"x1 - West Side Options (1500')**

2016 \$	228	MW Plant capacity
	\$616	Plant capacity cost - in \$/kW
	\$14.06	Fixed O&M & Capitalized O&M
	<u>\$34.40</u>	Fixed Pipeline
	\$48.46	Fixed O&M including Fixed Pipeline & Capitalized O&M (\$/kW-Yr)
	\$6.62	Variable O&M Costs including O&M Capitalized in \$/MWh
	7.373%	Payment Factor
	33%	Capacity Factor
	57.9%	Capacity Factor - On-peak 33.0% / 57% (percent of hours on-peak)

**Table 8  
Total Cost of Displaceable Resources**

Year	Estimated Capital Cost \$/kW (a)	Capital Cost at Real Levelized Rate \$/kW-yr (b)	Fixed O&M \$/kW-yr (c)	Variable O&M \$/MWH (d)	Total O&M at Expected CF \$/kW-yr (e)	Total Resource Fixed Costs \$/kW-yr (f)	Fuel Cost \$/MMBtu (g)	Total Resource Energy Cost \$/MWh (h)	Total Resource Costs \$/MWh (i)
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**CCCT (Dry "G/H",1x1) - West Side Options (1500')**

2016	\$1,363	\$98.90	\$43.70	\$2.02	\$56.14	\$155.04			
2017		\$100.78	\$44.53	\$2.06	\$57.22	\$158.00			
2018		\$102.59	\$45.33	\$2.10	\$58.26	\$160.85			
2019		\$104.95	\$46.37	\$2.15	\$59.61	\$164.56	\$2.39	\$15.32	\$42.04
2020		\$107.68	\$47.58	\$2.21	\$61.19	\$168.87	\$2.38	\$15.26	\$42.68
2021		\$110.26	\$48.72	\$2.26	\$62.64	\$172.90	\$2.40	\$15.38	\$43.46
2022		\$112.80	\$49.84	\$2.31	\$64.07	\$176.87	\$2.42	\$15.51	\$44.23
2023		\$115.39	\$50.99	\$2.36	\$65.52	\$180.91	\$2.57	\$16.47	\$45.85
2024		\$118.04	\$52.16	\$2.41	\$67.00	\$185.04	\$3.30	\$21.15	\$51.20
2025		\$120.75	\$53.36	\$2.47	\$68.57	\$189.32	\$3.89	\$24.93	\$55.67
2026		\$123.41	\$54.53	\$2.52	\$70.05	\$193.46	\$3.88	\$24.87	\$56.28
2027		\$126.13	\$55.73	\$2.58	\$71.62	\$197.75	\$4.02	\$25.77	\$57.88

Source: (a)(c)(d) Plant Costs - 2017 IRP - Table 6.1 & 6.2

- (b) = (a) x 7.256% Payment Factor
- (e) = (d) x (8.76 x 70.3%) + (c)
- (f) = (b) + (e)
- (g) Table 9 - Column (a)
- (h) = 6,410 MMBtu/MWH x (g)
- (i) = (f) / (8.76 x 70.3% + (h))

**CCCT (Dry "G/H",1x1) - West Side Options (1500')**

CCCT Statistics	MW	Percent	Cap Cost	Fixed
CCCT (Dry "G/H",1x1)	385	88.3%	\$1,484	\$44.50
CCCT Duct Firing (Dry "G/H",1x1)	51	11.7%	\$443	\$37.67
Capacity Weighted	436	100.0%	\$1,363	\$43.70

CCCT Statistics	MW	CF	aMW	Percent	Variable	Heat Rate
CCCT (Dry "G/H",1x1)	385	78.0%	301	98.0%	\$2.06	6,362
CCCT Duct Firing (Dry "G/H",1x1)	51	12.0%	6	2.0%	0.15	9,012
Energy Weighted	436	70.3%	307	100.0%	\$2.02	6,410

Rounded

**Table 8  
Total Cost of Displaceable Resources**

**Sources, Inputs and Assumptions**

	CCCT	Duct Firing	Plant Costs - 2017 IRP - Table 6.1 & 6.2
	385	51	MW Plant capacity
2016 \$	\$1,484	\$443	Plant capacity cost
2016 \$	\$21.71	\$5.39	Fixed O&M & Capitalized O&M
2016 \$	\$22.79	\$32.28	Fixed Pipeline
2016 \$	\$44.50	\$37.67	Fixed O&M including Fixed Pipeline & on-going capital cost
2016 \$	\$2.06	\$0.15	Variable O&M Costs & Capitalized Variable O&M (\$/MWh)
	6,362	9,012	Heat Rate in btu/kWh
	7.256%	7.256%	Payment Factor
	78%	12%	Capacity Factor
		70.3%	Energy Weighted Capacity Factor

100.0% Capacity Factor - On-peak 70.3% / 57% (percent of hours on-peak)

<b>Company Official Inflation Forecast Dated 2017 3rd Quarter</b>			
2016	1.3%	2022	2.3%
2017	1.9%	2023	2.3%
2018	1.8%	2024	2.3%
2019	2.3%	2025	2.3%
2020	2.6%	2026	2.2%
2021	2.4%	2027	2.2%
		2028	2.2%

**Table 9**  
**Natural Gas Price - Delivered to Plant**  
**\$/MMBtu**

Year	Burnertip West Side Gas Fuel Cost
	(a)
2018	\$2.50
2019	\$2.39
2020	\$2.38
2021	\$2.40
2022	\$2.42
2023	\$2.57
2024	\$3.30
2025	\$3.89
2026	\$3.88
2027	\$4.02

**Source**

Official Market Price Forecast dated September 2017

**Avoided Cost Prices**  
**Intended to be Cut and Pasted Directly into the Tariff**

Deliveries During Calendar Year	Capacity Price \$/kW-Month	Energy Payment \$/MWh
2018	\$2.44	\$21.37
2019	\$13.71	\$15.33
2020	\$14.07	\$15.26
2021	\$14.41	\$15.39
2022	\$14.74	\$15.52
2023	\$15.08	\$16.48
2024	\$15.42	\$21.16
2025	\$15.78	\$24.94
2026	\$16.12	\$24.88
2027	\$16.48	\$25.78

Capacity Price \$/kW-yr
\$29.31
\$164.56
\$168.87
\$172.90
\$176.87
\$180.91
\$185.04
\$189.32
\$193.46
\$197.75

Capacity Price \$/MWh
\$3.35
\$18.79
\$19.28
\$19.74
\$20.19
\$20.65
\$21.12
\$21.61
\$22.08
\$22.57

\$/kW-month	\$11.54	
¢/kWh		\$16.73

Discount Rate - 2017 IRP  
6.570%

**Natural Gas Price Delivered to Plant (\$/MMBtu)  
FORWARD PRICE CURVE SUMMARY**

**Quotes Dated:** September 29, 2017

**Sample of source data**

Month	West Side Gas	Year
Jan-18	2.842	2018
Feb-18	2.802	2018
Mar-18	2.660	2018
Apr-18	2.346	2018
May-18	2.278	2018
Jun-18	2.291	2018
Jul-18	2.341	2018
Aug-18	2.345	2018
Sep-18	2.326	2018
Oct-18	2.361	2018
Nov-18	2.621	2018
Dec-18	2.750	2018
Jan-19	2.790	2019
Feb-19	2.780	2019
Mar-19	2.696	2019
Apr-19	2.194	2019
May-19	2.126	2019
Jun-19	2.150	2019
Jul-19	2.193	2019
Aug-19	2.204	2019
Sep-19	2.205	2019
Oct-19	2.244	2019
Nov-19	2.450	2019
Dec-19	2.628	2019

Year	Burnertip Annual Average Price \$/MMBtu
2018	2.50
2019	2.39
2020	2.38
2021	2.40
2022	2.42
2023	2.57
2024	3.30
2025	3.89
2026	3.88
2027	4.02