

Assumption - Identical customers except for conservation needs/potential

A	B	C	D	E	F	G	H
3	Council Target Conservation		70 (aMW)		613,200 (MWh)		
4	Conservation achieved through Self-funding		25 (aMW)		219,000 (MWh)		
5	Conservation achieved through Infrastructure money		20 (aMW)		175,200 (MWh)		
6	Council Target Less Conservation Achieved thru Infrastructure money		25 (aMW)		219,000 (MWh)		
7	Conservation Expensed		12.5 (aMW)		109,500 (MWh)		
8	Conservation Annual 1 Capitalized		12.5 (aMW)		109,500 (MWh)		
9	Per-Installed-MW Cost (\$/aMW)	\$	2,000,000				
10	Per-Installed-MW Cost (\$/MWh)	\$	228				(-\$2mm/8,760MWh)
11	Capital Cost (\$/MWh)	\$	55				(-\$228 + interest / 5 years)
12							
13	Conservation Expensed Acquisition (MWh)		109,500	=E7			
14	Conservation Expensed Acquisition Cost	\$	24,966,000	=C13*C10			
15	Conservation Annual 1 Capitalized Conservation (MWh)		109,500	=E8			
16	Conservation Annual 1 Capitalized Costs	\$	6,022,500	=C15*C11			
17	Conservation Infrastructure & Other BPA Conservation Costs (Legacy, Low-Income Weatherization, DSM Technologies, etc.)	\$	48,545,600				
18	Total Conservation Costs	\$	79,534,100	=C14+C16+C17			
19							
20	Customer #1 TOCA - Self Supply		25%				
21	Customer #2 TOCA - Self Supply with limited Cost-Effective Conservation		25%				
22	Customer #3 TOCA - Full Program Use		25%				
23	Customer #4 TOCA - Full Program Use with limited Cost-Effective Conservation		25%				
24	Sum of TOCAs		100%		=MAX(0,C28-E28)	50%	50%
25							
26							
27	Cust. #1 Utility Self-Supplied Conservation (MWh)		109,500	131,400	131,400		
28	Cust. #2 Utility Self-Supplied Conservation with limited Cost-Effective Conservation (MWh)		109,500	87,600	87,600	21,900	
29	Cust. #3 BPA Full Program Conservation (MWh)		109,500	131,400	-	109,500	65,700
30	Cust. #4 BPA Full Program Use with limited Cost-Effective Conservation (MWh)		109,500	87,600	-	109,500	43,800
31					(aMW)	27.5	12.5
32	Revenue Requirement less Conservation	\$	2,000,000,000				
33	Conservation Acquisition Costs	\$	30,988,500	=C14+C16			
34	BPA Infrastructure Acquisition + Other Conservation Costs	\$	48,545,600	=C17			
35	Total Revenue Requirement	\$	2,079,534,100	=C32+C33+C34			
36							
37	POSTED RATES - updated through 7(i) for each Rate Period						
38	Demand Revenue Credit	\$	(100,000,000)				
39	Load Shaping Revenue Credit	\$	(50,000,000)				
40	Conservation Revenue Credit	\$	(30,988,500)	=C37+C59+C61+C70+C72+C74+C83+C85+C87+C96+C98+C100*-1			
41	Composite Customer Rate (\$%/mo)	\$	1,582,121	=C35+C38+C39+C40)/12/(C24*100)			
42							
43	Conservation Program Overhead Costs (Share of: Acq. & Sector Support, Planning/Evaluation, Marketing)	\$	2,300,000				
44	Conservation Program Support (MWh)		240,900	=F27+F28+F29+F30			
45	Conservation Program Overhead Rate (\$/MWh)	\$	9.55	=C43/C44			
46							
47	Capital & Expense Acquisition (MWh)		219,000	=G29+H29+G30+H30			
48	Conservation Acquisition Overhead Adjustment	\$	10.50	=C43/C47			
49	Conservation Expense Acquisition Rate (\$/MWh)	\$	217.50	=C10-C48			
50	Conservation Annual 1 Capital Acquisition Rate (\$/MWh)	\$	44.50	=C11-C48			

A	B	C	D	E	F	G	H
52	Customer #1 - Self Supply						
53	Composite Charge	\$ 474,636,400	=C20*100*12*C41				
54	Demand Charge	\$ 25,000,000	=C38*C20*-1				
55	Load Shaping Charge	\$ 12,500,000	=C39*C20*-1				
56	Conservation Program Overhead (MWh)	-	=F27				
57	Conservation Program Overhead Charge (\$)	\$ -	=\$C\$45*C56				
58	Conservation Expense Acquisition (MWh)	-	=G27				
59	Conservation Expense Acquisition Charge (\$)	\$ -	=\$C\$49*C58				
60	Conservation Annual 1 Capital Acquisition (MWh)	-	=H27				
61	Conservation Annual 1 Capital Acquisition Charge (\$)	\$ -	=\$C\$50*C60				
62	Net Bill	\$ 512,136,400	=C53+C54+C55+C57+C59+C61				\$ -
63	BPA Program \$ Available	\$ -	=\$C\$49*(C58+C60)				
64							
65	Customer #2 - Self Supply with limited Cost-Effective Conservation						
66	Composite Charge	\$ 474,636,400	=C21*100*12*C41				
67	Demand Charge	\$ 25,000,000	=C38*C21*-1				
68	Load Shaping Charge	\$ 12,500,000	=C39*C21*-1				
69	Conservation Program Overhead (MWh)	21,900	=F28				
70	Conservation Program Overhead Charge (\$)	\$ 209,091	=\$C\$45*C69				
71	Conservation Expense Acquisition (MWh)	-	=G28				
72	Conservation Expense Acquisition Charge (\$)	\$ -	=\$C\$49*C71				
73	Conservation Annual 1 Capital Acquisition (MWh)	-	=H28				
74	Conservation Annual 1 Capital Acquisition Charge (\$)	\$ -	=\$C\$50*C73				
75	Net Bill	\$ 512,345,491	=C66+C67+C68+C70+C72+C74				\$ -
76	BPA Program \$ Available	\$ -	=\$C\$49*(C71+C73)				
77							
78	Customer #3 - Full Use of BPA Program						
79	Composite Charge	\$ 474,636,400	=C22*100*12*C41				
80	Demand Charge	\$ 25,000,000	=C38*C22*-1				
81	Load Shaping Charge	\$ 12,500,000	=C39*C22*-1				
82	Conservation Program Overhead (MWh)	109,500	=F29				
83	Conservation Program Overhead Charge (\$)	\$ 1,045,455	=\$C\$45*C82				
84	Conservation Expense Acquisition (MWh)	65,700	=G29				
85	Conservation Expense Acquisition Charge (\$)	\$ 14,289,600	=\$C\$49*C84				
86	Conservation Annual 1 Capital Acquisition (MWh)	65,700	=H29				
87	Conservation Annual 1 Capital Acquisition Charge (\$)	\$ 2,923,500	=\$C\$50*C86				
88	Net Bill	\$ 530,394,955	=C79+C80+C81+C83+C85+C87				\$ 11,694,000
89	BPA Program \$ Available	\$ 28,579,200	=\$C\$49*(C84+C86)				
90							
91	Customer #4 - Full Use of BPA Program with limited Cost-Effective Conservation						
92	Composite Charge	\$ 474,636,400	=C23*100*12*C41				
93	Demand Charge	\$ 25,000,000	=C38*C23*-1				
94	Load Shaping Charge	\$ 12,500,000	=C39*C23*-1				
95	Conservation Program Overhead (MWh)	109,500	=F30				
96	Conservation Program Overhead Charge (\$)	\$ 1,045,454.55	=\$C\$45*C95				
97	Conservation Expense Acquisition (MWh)	43,800	=G30				
98	Conservation Expense Acquisition Charge (\$)	\$ 9,526,400	=\$C\$49*C97				
99	Conservation Annual 1 Capital Acquisition (MWh)	43,800	=H30				
100	Conservation Annual 1 Capital Acquisition Charge (\$)	\$ 1,949,000	=\$C\$50*C99				
101	Net Bill	\$ 524,657,255	=C92+C93+C94+C96+C98+C100				\$ 7,796,000
102	BPA Program \$ Available	\$ 19,052,800	=\$C\$49*(C97+C99)				
103							
104	Total Revenue Collected by BPA	\$ 2,079,534,100	=C75+C62+C88+C101				TRUE