Utility: Cooperative Light & Power

Year Basis: 2011 Test Year

Source: 2013 Rate and Cost of Service Study Update, Power System Engineering, Inc.

Energy-Only Rates											
				~ ~ ~	chedule #B						
		Schedule #			mmercial &						
		Residenti	al	1	ndustrial						
Line #	Description	Service			Service		Reference	Additional Notes			
1	Rate Class: Revenue Requirements	\$ 5,591	258	\$	936,300		CCOSS, Table 4.1				
2	Rate Class: Purchased Power Expense	\$ 3,123	188	\$	628,395		CCOSS, Table 4.2	Includes purchased transmission servic			
3											
4	Rate Class: Number of Customers	5,	272		466		CCOSS, Pg. 17,Column (c)	Must be from CCOSS			
5	Rate Class: Annual Energy kWh Sales	34,209	052		7,176,976		CCOSS, Pg. 17, Column (d)	Must be from CCOSS			
6											
7	Rate Class: Customer Charge \$/mo	\$ 2	9.00	\$	34.00		Current Rate Schedule				
8											
9	Solar Capacity Factor (DC nameplate rating)	15%		15%	15%	NREL PVWatts calculator average	of various locations in MN				
10											
11											
12											
13											
14		*:	**FIX	KED	ASSUMPTION	***DO NOT C	CHANGE****				
15	DG Nameplate Rating kW Allowance (No Charge)										
16	Mean Annual Consumption	10	185				kWh per year				
17	1st Standard Deviation	4,	555				kWh per year				
18	DG Capacity Factor (per DC rating)		15%				Per NREL PVWatts				
19	Annual Hours		760				per year				
20	DG kW Allowance		3.47				$L24 \div L25 \div L26$				
21	DG kW Allowance - Rounded		3.50		3.50	3.50	kW per DG consumer				

Cooperative Light & Power Grid Access Charge: Cost of Service and Rate Design

(a)	(b)		(c)		(d)	(e)		(f)
Line			Schedule #A Residential Service Summary		Schedule #B Commercial & Industrial Service			Notes
Line					Service			
1	Monthly Grid Access Charge per kW		~					
2	First 3.5 kW (DC nameplate rating)	1	Vo Charge		No Charge	No Charge		
3	kW in Excess of 3.5 kW	\$	2.03	\$	1.80	\$-		per kW (DC nameplate rating)
4 5	Not-to-Exceed	\$	10.00	\$	21.00	\$		per Month
5 6	Equivalent to DG installation of:		8.4		15.2			kW (DC nameplate rating)
	Cost	of Service	and Rate De	sig	n Analysis			
7	1. Cost of Service Study: Distribution Fixed Costs Not Recover	red by Rate						
8	Annual Revenue Requirements	\$	5,591,258	\$	936,300	\$ -		CCOSS, Table 4.1
9	Less: Annual Purchased Power Expense	\$	3,123,188	\$	628,395	\$ -		CCOSS, Table 4.2
10	Annual Distribution Fixed Costs	\$	2,468,070	\$	307,905	\$-		L8 - L9
11	Less: Annual Customer Charge Revenue	\$	1,834,656	\$	190,128	\$ -		L27 x customers x 12 months
12	Distribution Fixed Costs Recovered in Energy Rate	\$	633,414	\$	117,777	\$-		L10 - L11
13	Annual Energy Sales (kWh)	÷	34,209,052		7,176,976	-		CCOSS, Pg. 17, Column (d)
14	Distribution Fixed Costs Recovered in Energy Rate	= \$	0.0185	\$	0.0164	\$ -		L12 ÷ L13
15								
16	2. Conversion to per kW Rate		15%		15%	1	50/	Per NREL PVWatts
17	DG Capacity Factor (per DC rating)						5%	
18	Average Hours per Month	\$	730 2.03	0	730 1.80		30	365 x 24 ÷ 12 L14 x L17 x L18
19	Monthly Rate per DC Nameplate Rating kW-mo.	2	2.03	Э	1.80	. -	•	L14 X L1 / X L18
20			2.50		2.50		50	
21 22	3. DG Nameplate Rating kW Allowance (No Charge)		3.50		3.50	3	.50	See footnote 1
22 23	4. Monthly Charge Cap per DG Customer							
23 24	4. Monthly Charge Cap per DG Customer Annual Distribution Fixed Costs	\$	2,468,070	¢	307,905	¢		L10
24 25	Number of Customers	2		\$	307,905	ф -		
		¢	5,272	¢		د		CCOSS, Pg. 17,Column (c) L24 ÷ L25 ÷ 12
26 27	Distribution Fixed Costs per Customer per Month	\$	39.01 29.00			Ψ		L24 ÷ L25 ÷ 12 Per Current Rate Schedule
	Less: Current Monthly Customer Charge	\$				<u>\$</u> -		L26 - L27
28	Monthly Charge Cap	\$	10.01			\$ -		
29	Monthly Charge Cap - Rounded	\$	10.00	\$	21.00	\$ -	•	Round L28

Allowance (if any) represents installed kW associated with normal variance in residential average usage per customer at a 15.0% Capacity Factor.