

## Blooming Prairie Public Utilities

### Grid Access Charge: Cost of Service and Rate Design

(a)	(b)	(c)	(d)	(e)	(f)
Line	Description	Residential	Commercial	Demand Billed	Notes
<b>Summary</b>					
1	Monthly Grid Access Charge per kW				
2	First 3.5 kW (DC nameplate rating)	<i>No Charge</i>	<i>No Charge</i>	<i>No Charge</i>	
3	kW in Excess of 3.5 kW	\$ 9.83	\$ 10.83	\$ 4.41	per kW (DC nameplate rating)
4	Not-to-Exceed	\$ 61.00	\$ 175.00	\$ 1,353.00	per Month
5					
6	Equivalent to DG installation of:	9.7	19.7	310.5	kW (DC nameplate rating)
<b>Cost of Service and Rate Design Analysis</b>					
7	<u>1. Cost of Service Study: Distribution Fixed Costs Not Recovered by Rate</u>				
8	Annual Revenue Requirements	\$ 1,417,937	\$ 903,327	\$ 1,816,146	CCOSS, Pg. 2, L38
9	Less: Annual Purchased Power Expense	\$ 607,696	\$ 511,312	\$ 1,415,366	CCOSS, Pg. 2, L17 + L21 + L27
10	Annual Distribution Fixed Costs	\$ 810,241	\$ 392,015	\$ 400,780	L8 - L9
11	Less: Annual Customer Charge Revenue	\$ 184,891	\$ 49,086	\$ 7,272	L27 x customers x 12 months
12	Distribution Fixed Costs Recovered in Energy Rate	\$ 625,351	\$ 342,929	\$ 393,508	L10 - L11
13	Annual Energy Sales (kWh)	÷ 6,965,030	3,468,408	9,778,133	CCOSS, Pg. 32, L3
14	Distribution Fixed Costs Recovered in Energy Rate	= \$ 0.0898	\$ 0.0989	\$ 0.0402	L12 ÷ L13
15					
16	<u>2. Conversion to per kW Rate</u>				
17	DG Capacity Factor (per DC rating)	15%	15%	15%	Per NREL PVWatts
18	Average Hours per Month	730	730	730	365 x 24 ÷ 12
19	<b>Monthly Rate per DC Nameplate Rating kW-mo.</b>	<b>\$ 9.83</b>	<b>\$ 10.83</b>	<b>\$ 4.41</b>	L14 x L17 x L18
20					
21	<u>3. DG Nameplate Rating kW Allowance (No Charge)</u>				
22		<b>3.50</b>	<b>3.50</b>	<b>3.50</b>	See footnote 1
23	<u>4. Monthly Charge Cap per DG Customer</u>				
24	Annual Distribution Fixed Costs	\$ 810,241	\$ 392,015	\$ 400,780	L10
25	Number of Customers	856	164	24	CCOSS, Pg. 32, L32
26	Distribution Fixed Costs per Customer per Month	\$ 78.88	\$ 199.66	\$ 1,377.82	L24 ÷ L25 ÷ 12
27	Less: Current Monthly Customer Charge	\$ 18.00	\$ 25.00	\$ 25.00	Per Current Rate Schedule
28	Monthly Charge Cap	\$ 60.88	\$ 174.66	\$ 1,352.82	L26 - L27
29	<b>Monthly Charge Cap - Rounded</b>	<b>\$ 61.00</b>	<b>\$ 175.00</b>	<b>\$ 1,353.00</b>	Round L28

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