

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
Summary					
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	\$ 9.23	\$ 9.24	\$ 3.27	per kW (DC nameplate rating)
4	Not-to-Exceed	\$ 54.00	\$ 146.00	\$ 1,772.00	per Month
5					
6	Equivalent to DG installation of:	9.3	19.3	545.2	kW (DC nameplate rating)
Cost of Service and Rate Design Analysis					
7	<u>1. Cost of Service Study: Distribution Fixed Costs Not Recovered by Rate</u>				
8	Annual Revenue Requirements	\$ 1,122,746	\$ 688,186	\$ 1,507,155	CCOSS, Pg. 2, L38
9	Less: Annual Purchased Power Expense	\$ 437,778	\$ 366,816	\$ 1,181,182	CCOSS, Pg. 2, L17 + L21 + L27
10	Annual Distribution Fixed Costs	\$ 684,968	\$ 321,371	\$ 325,973	L8 - L9
11	Less: Annual Customer Charge Revenue	\$ 142,022	\$ 40,469	\$ 3,818	L27 x customers x 12 months
12	Distribution Fixed Costs Recovered in Energy Rate	\$ 542,946	\$ 280,902	\$ 322,155	L10 - L11
13	Annual Energy Sales (kWh)	÷ 6,439,099	3,327,469	10,783,709	CCOSS, Pg. 32, L3
14	Distribution Fixed Costs Recovered in Energy Rate	= \$ 0.0843	\$ 0.0844	\$ 0.0299	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	Monthly Rate per DC Nameplate Rating kW-mo.	\$ 9.23	\$ 9.24	\$ 3.27	L14 x L17 x L18
20					
21	<u>3. DG Nameplate Rating kW Allowance (No Charge)</u>				
22		3.50	3.50	3.50	See footnote 1
23	<u>4. Monthly Charge Cap per DG Customer</u>				
24	Annual Distribution Fixed Costs	\$ 684,968	\$ 321,371	\$ 325,973	L10
25	Number of Customers	845	161	15	CCOSS, Pg. 32, L32
26	Distribution Fixed Costs per Customer per Month	\$ 67.52	\$ 166.77	\$ 1,793.03	L24 ÷ L25 ÷ 12
27	Less: Current Monthly Customer Charge	\$ 14.00	\$ 21.00	\$ 21.00	Per Current Rate Schedule
28	Monthly Charge Cap	\$ 53.52	\$ 145.77	\$ 1,772.03	L26 - L27
29	Monthly Charge Cap - Rounded	\$ 54.00	\$ 146.00	\$ 1,772.00	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.