

**MINNESOTA POWER
DISTRIBUTED GENERATION
RESPONSE TO SCENARIOS**

The following is Minnesota Power’s initial response to the request for a breakdown of costs/charges/deductions associated with DG installations under our current tariffs and rate schedules. Minnesota Power currently has a Rider for Parallel Generation applicable to cogenerators or small power producers rated at 100 kW or less and a Rider for Standby and Supplementary Service applicable to General Service or Large Light and Power Service schedules in an amount not to exceed 500 kW of reserved capacity. DG services outside of the application of these Riders are handled on a case-by-case basis and are subject to Minnesota Power’s rules and regulations.

SCENARIOS	FROM UTILITY TO CUSTOMER				DELIVERY SERVICES				FROM CUSTOMER TO UTILITY				
	INTERCONNECT SERVICES ¹				SUPPLY SERVICES				Purchased Energy				
	Engineering/Design Studies	Utility System Upgrades	Testing	Operating Services	Backup Services	Supplemental Service	Residual Retail Service	Economic Dispatch Service		Transmission Service	Distribution Service	Indirect Services	Ancillary Services
1 MW/ Natural Gas-Fired DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
1-2 MW (Variable) Load Natural Gas-Fired DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	Yes (2 MW)	Yes (1 MW)	Yes (3 MW)	N/A	Yes	Yes	Yes	Yes	N/A
1.9 MW ² Wind Energy DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	Yes (250 kW)	Yes (0-250 kW)	N/A	N/A	Yes	Yes	Yes	Yes	Yes (0.75 - 1.65 MW)
10 MW Natural Gas-Fired DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes (5 MW)
3 kW ² Solar Photovoltaics DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	Yes (1 kW)	Yes (0 - 1 kW)	N/A	N/A	Yes	Yes	Yes	Yes	Yes (2 kW) Rider for Parallel Generation
Multiple Installation ² 3-30 kW Natural Gas DG	1 (Optional), 2, 3	As required per engineering study	1, 2, 3	Optional	Yes (90 kW)	N/A	Yes (410 kW)	N/A	Yes	Yes	Yes	Yes	N/A

¹ Refer to “Distributed Generation – Menu of Services – From Utility to Customer” for numbered services.

² Refer to Rider for Standby and Supplementary Service. This Rider applies to the supply and delivery services related to the provision of energy and capacity from utility to customer only.

³ Refer to Rider for Parallel Generation. This Rider applies to the supply and delivery services related to the provision of energy and capacity between utility and customer.