

ELECTRIC TARIFF

**NorthWestern
Energy**

Canceling	<u>10th</u>	Revised	Sheet No.	<u>74.1</u>
	<u>9th</u>	Revised	Sheet No.	<u>74.1</u>

Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

APPLICABILITY: Applicable to any Seller with nameplate capacity of 3 MW or less who enters into a Power Purchase Agreement (Agreement) with the Utility for the sale of electric power to the Utility from a Qualifying Facility (QF) as defined under the Rules of the Commission.

The Utility shall purchase electrical energy for a term of not less than one month and not more than 15 years.

The QF-1 Tariff rates do not reflect Network Upgrade costs. Seller must apply for interconnection and enter into the applicable generation interconnection agreement with the Utility addressing those items in addition to entering into an Agreement under the terms of this Tariff.

RATE OPTIONS: Seller may select from the following two rate options and sub-options:

For all Rate Options, refer to Special Terms and Conditions Item 3 Disposition of RECs, Item 4 Wind Integration, and Item 5 Contingency Reserves.

The selected rate will be adjusted by the value of Contingency Reserves per the current Contingency Reserves Tariff CR-1. Subsequent to this adjustment, QFs must either self-provide or purchase Contingency Reserves as described in Item 5 under Special Terms and Conditions.

QFs selecting Option 1 Rates will be paid the Avoided Energy and Capacity Rate which corresponds to their resource type and Agreement length as reflected in Table 1 below.

(continued)



ELECTRIC TARIFF

**NorthWestern
Energy**

Canceling 11th Revised Sheet No. 74.2
10th Revised Sheet No. 74.2

Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

Option 1(a): Avoided Energy and Capacity Rates:

Option 1 Rates for Energy and Capacity						
Contract Length (years)	Solar		Wind		Hydro/other	
	Off-peak Rate (\$/kWh)	On-peak Rate (\$/kWh)	Off-peak Rate (\$/kWh)	On-peak Rate (\$/kWh)	Off-peak Rate (\$/kWh)	On-peak Rate (\$/kWh)
1	\$0.02036	\$0.02941	\$0.01890	\$0.02656	\$0.01881	\$0.07547
2	\$0.02066	\$0.02972	\$0.01927	\$0.02693	\$0.01919	\$0.07587
3	\$0.02140	\$0.03047	\$0.02006	\$0.02772	\$0.01997	\$0.07669
4	\$0.02229	\$0.03136	\$0.02095	\$0.02861	\$0.02086	\$0.07761
5	\$0.02286	\$0.03194	\$0.02152	\$0.02919	\$0.02143	\$0.07821
6	\$0.02334	\$0.03242	\$0.02198	\$0.02966	\$0.02190	\$0.07870
7	\$0.02380	\$0.03288	\$0.02243	\$0.03011	\$0.02235	\$0.07918
8	\$0.02419	\$0.03328	\$0.02282	\$0.03050	\$0.02273	\$0.07959
9	\$0.02453	\$0.03363	\$0.02317	\$0.03086	\$0.02309	\$0.07997
10	\$0.02485	\$0.03394	\$0.02349	\$0.03118	\$0.02340	\$0.08032
11	\$0.02514	\$0.03425	\$0.02380	\$0.03149	\$0.02371	\$0.08066
12	\$0.02542	\$0.03452	\$0.02409	\$0.03179	\$0.02401	\$0.08098
13	\$0.02568	\$0.03479	\$0.02437	\$0.03207	\$0.02429	\$0.08129
14	\$0.02594	\$0.03506	\$0.02466	\$0.03236	\$0.02458	\$0.08160
15	\$0.02619	\$0.03531	\$0.02492	\$0.03263	\$0.02485	\$0.08190

Payments: Rate x kWh metered during each Off-Peak Hours and On-Peak Hours period.

kWh = Metered kilowatt-hours supplied to the Utility for each Off-Peak Hours and On-Peak Hours period.

(continued)

Docket No.: D2016.5.39
Tariff Letter No. 332-E
Agenda No. 17-6-22 Vote 5-0

Effective for service rendered on or after
February 16, 2018
PUBLIC SERVICE COMMISSION
AA, Administrative Assistant



Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

Option 1(b): Agreement lengths: 1 month to 18 months – short-term.

RATE:

Energy (\$/kWh):

- i. Agreement lengths up to 1 year use Year 1 rates from above table.
- ii. Agreement lengths 1 year to 18 months use Year 2 rates from above table.

Payments: Hourly Rate x Hourly kWh

kWh = Metered kilowatt hours supplied to the Utility in each hour.

Option 2: Agreement length of up to 25 years.

Rate: This rate is equal to the published Intercontinental Exchange (ICE) Mid-C index price for Heavy Load Hours and Light Load Hours, less \$.00162/kWh basis adjustment between Mid-C and Montana, and applied to the Heavy Load and Light Load metered sales and purchases of Seller. Another Mid-C price index may be substituted if necessary, if ICE is no longer available.

Payments: Daily Heavy Load Hour and Light Load Hour Rate x Heavy Load and Light Load kWh

kWh = Metered kilowatt hours supplied to the Utility in each daily Heavy Load and Light Load period.

(continued)



ELECTRIC TARIFF

NorthWestern
Energy

	<u>2nd</u>	Revised	Sheet No.	<u>74.4</u>
Canceling	<u>1st</u>	Revised	Sheet No.	<u>74.4</u>

Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

SPECIAL TERMS AND CONDITIONS:

1) Definitions:

- A. "Agreement" means the Power Purchase Agreement between Seller and the Utility for a term of not less than one month.
- B. "Commission" means the Montana Public Service Commission.
- C. "Contingency Reserves" are an amount of spinning and nonspinning reserves (at least half must be spinning reserve) sufficient to meet the North American Electric Reliability Council (NERC) Disturbance Control Standard BAL-002 consistent with Western Electric Coordinating Council and Northwest Power Pool requirements.
- D. "Contract Length" means the length of a Seller's contract with NorthWestern measured in whole years. For contract terms not in whole years, the length of a Seller's contract will be rounded up to the next whole year for purposes of determining applicable rates.
- E. "Heavy Load Hours" means the weekday and Saturday hours ending 7 and through hour ending 22 inclusive, Pacific Prevailing Time, except NERC defined holidays. For purposes of this Tariff, Heavy Load Hours correspond to Peak hours as used on the ICE web site.
- F. "Intermittent" means generation resources with variable generation output from hour to hour. Specifically, wind and solar PV are considered to be Intermittent resources.
- G. "Light Load Hours" means those hours not included in the definition of Heavy Load Hours. For purposes of this Tariff, Light Load Hours correspond to Off-Peak hours as used on the ICE web site.
- H. "Network Upgrades" means additions, modifications, and upgrades to NorthWestern's transmission system required at or beyond the point at which the Small Generating Facility interconnects with the transmission system to accommodate the interconnection with the Small Generating Facility to NorthWestern's transmission system. Network Upgrades do not include Distribution Upgrades.
- I. "Off-Peak Hours" means those hours in the year not included in the definition of On-Peak Hours.
- J. "On-Peak Hours" means the Heavy Load hours for the months of January, February, July, August, and December.

(continued)

Commission Approved: January 3, 2018
Docket No.: D2016.5.39
Agenda No. 17-10-05

Effective for service rendered on or after
January 2, 2018

PUBLIC SERVICE COMMISSION
Administrative Assistant



ELECTRIC TARIFF

NorthWestern
Energy

Canceling	<u>3rd</u>	Revised	Sheet No.	<u>74.5</u>
	<u>2nd</u>	Revised	Sheet No.	<u>74.5</u>

Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

- K. "Other QF" means QF facilities other than hydroelectric, wind or solar powered resources.
 - L. "RECs" means renewable energy credit. One megawatt hour of renewable energy generation gives rise to one REC, and this REC embodies all environmental attributes of that renewable energy generation.
 - M. "Regulating Reserve" is spinning reserve immediately responsive to Automatic Generation Control (AGC) to provide sufficient regulating margin to allow the Balancing Authority to meet NERC's Control Performance Criteria (BAL-001).
 - N. "Seller," for purposes of this schedule, is any individual, partnership, corporation, association, government agency, political subdivision, municipality or other entity that:
 - a. Operates a QF; and
 - b. Has entered into an Agreement(s) with the Utility stipulating the terms and conditions of the interconnection and separately the sale of electric power to the Utility.
 - O. "Utility" means NorthWestern Energy.
 - P. "Wind Integration Services" means those services necessary to integrate wind generation into the Utility's electric transmission and/or distribution system(s) in a manner such that all operational and reliability criteria are met. Wind Integration Services include, but are not limited to, Regulating Reserves, imbalance service, and scheduling.
- 2) Net Billing Option: If Seller contracts for Net Billing and the Seller's consumption kWh exceeds its production kWh, Seller shall be billed for power supply for the consumption kWh in excess of the production kWh in accordance with the Utility's applicable rate schedule. If Seller's consumption kWh is less than its production kWh, Seller shall receive a power supply payment (credit) for the production kWh in excess of the consumption kWh at the Rates specified above.
- 3) Disposition of RECs: QFs retain RECs but may still separately attempt to negotiate for the sale of RECs to NWE or other interested parties at any time that an Agreement remains in effect. Any such negotiation occurs separate from the Power Purchase Agreement and does not create a reopener that refreshes the rates in the Agreement.

(continued)



ELECTRIC TARIFF

NorthWestern
Energy

Canceling	<u>4th</u>	Revised	Sheet No.	<u>74.6</u>
	<u>3rd</u>	Revised	Sheet No.	<u>74.6</u>

Schedule No. QF-1

QUALIFYING FACILITY POWER PURCHASE

- 4) Wind Integration: Sellers of Wind Energy must contractually agree to the provision of wind integration services for the term of the Agreement and may either self-supply sufficient within-hour regulating reserves under terms acceptable to NorthWestern or pay the Utility for these services according to the Wind Integration Tariff (WI-1). Payment to the Utility for selection of service through WI-1 will result in a deduction from the total monthly payment made to the QF to reflect the provision of integration services.

- 5) Contingency Reserves: QFs must either self-supply contingency reserves, or purchase the needed reserves from NorthWestern at the rate as specified according to the Contingency Reserves Tariff (CR-1). If the QF purchases reserves from NorthWestern, the CR-1 rate for the appropriate resource type will be deducted from the total monthly payment made to the QF to reflect the provision of contingency reserves.

- 6) Hourly Metering: Sellers are required to install interval metering capability if necessary to support the Rate Option chosen.

SERVICE AND RATES SUBJECT TO COMMISSION JURISDICTION: All rates and service conditions under this Rate Schedule are governed by the rules and regulations of the Public Service Commission of Montana and are subject to revision as the Commission may duly authorize in the exercise of its jurisdiction.



Commission Approved: January 3, 2018
 Docket No.: D2016.5.39
 Agenda No. 17-10-05

Effective for service rendered on or after
 January 2, 2018

PUBLIC SERVICE COMMISSION

Sharon Simpson
 Administrative Assistant