

# MPW Electric Rates

**Facilities Charge:**

This charge covers fixed costs that Muscatine Power and Water incurs to serve each customer, regardless of usage. These costs include service facilities, meter reading, bill distribution and payment processing.

**Energy Charge:**

This charge represents the cost for each unit of electrical energy used in kilowatt-hours (kWh).

**Energy Adjustment Clause: (Not currently applied.)**

The Energy Adjustment Charge (EAC) calculates the actual purchased energy cost and net wholesale margin (fuel cost less wholesale revenue) over 6 months per kWh of native system sales to retail customers. The base cost per kWh is subtracted from the actual cost per kWh. The difference represents the amount of the EAC and MPW's under-recovery or over-recovery per kWh of purchased energy cost and net wholesale contribution over that 6-month period. This clause applies to all kWh used during the month.

**Energy Credit:**

This credit only applies to customers with net metering. It is applied to kWh delivered to MPW by customer-owned, behind-the-meter generating facilities over the course of a year or a month, depending on the customer classification, over and above the energy the customer uses for that year or month. The rate is based on MPW's avoided cost, defined as its cost of purchased energy for the prior year or the month the net energy was delivered to MPW, again depending on customer classification.

**Demand Charge:**

This charge applies to some commercial and all industrial customers and is measured in kilowatts (kW). This is a measurement of electrical load, or the rate at which energy is used. Demand represents the amount of energy used in 30-minute intervals during a billing cycle. To measure demand, electric meters record the average demand usage over each 30-minute period and record the highest (peak) 30-minute period for the month. The billing demand is the greater of the actual demand in the current month or 75 percent of the highest actual demand in the preceding 11 months.

**Power Factor Adjustment:**

A power factor adjustment is made only for demand-metered customers if the power factor falls below 90 percent for a billing period. The power factor is the ratio of active power (kW, or the power measured by the meter) to apparent power (kilovolt-ampere, or kVA, which is the supplied power) and is necessary because some customers do not use power as efficiently as others.

## Residential Electric effective August 1, 2021

**Applies to:**

Residential customers in noncommercial dwellings for all domestic and noncommercial uses including lighting, heating, cooking, refrigeration, household appliances, air conditioning, and/or individual motors of 5 hp or less. If the customer regularly uses a portion of the electricity for business purposes, all energy used is nonresidential, unless the customer provides separate circuits to permit the separate metering and billing of energy used in the residential portion.

**Character of Service:**

Alternating Current (AC); 60 cycles, single phase; 120/240 volts.

**Monthly Rate:**

Facilities Charge.....\$19.40 per month  
Energy Charge:  
All kWh.....9.830¢ per kWh  
*Energy Adjustment Clause Applies*

**Electric Heat Discount:**

Customers using permanent electric heat qualify for a 1¢ per kWh discount for all electric use over 770 kWh per month. This discount is effective October through May. The electric home heating system must be installed permanently and must be the only heat source in the residence.

**Electric Water Heater Discount:**

Customers using electric water heaters (30-gallon capacity or greater) qualify for a 10 percent discount on their total monthly energy charge before the electric heat discount. The maximum discount is \$5.50 per month. When the water heater has a tank capacity of less than 50 gallons, we recommend a fast-recovery type with heating elements of not less than 3000 watts. We also recommend operating at a nominal voltage of 240 volts.

Discounts do not apply to any EAC or facilities charge.

**Minimum Bill:**

The Facilities Charge

## Residential Electric – Net Metered effective August 1, 2021

### Applies to:

Residential customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. Residential customers in noncommercial dwellings for all domestic and noncommercial uses including lighting, heating, cooking, refrigeration, household appliances, air conditioning, and individual motors of 5 hp or less. If the customer regularly uses a portion of the electricity for business purposes, all energy used is nonresidential, unless the customer provides separate circuits to permit the separate metering and billing of energy used in the residential portion.

### Character of Service:

AC; 60 cycles, single phase; 120/240 volts.

### Monthly Rate:

Facilities Charge..... \$29.67 per month  
Energy Charge:  
All kWh..... 8.560¢ per kWh  
*Energy Adjustment Clause Applies*

### Net Metering:

The Utility's meter tracks net energy delivered (kWh) by the Utility to the customer and net energy delivered to MPW (kWh) by the customer-owned generating facility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account and carried forward for use the next month. An annual "true up" occurs in February; MPW will provide the customer an Energy Credit for any banked kWh at a rate equivalent to the previous year's MPW purchased power cost. Banked credits will then reset to zero.

Energy Credit.....per-kWh rate will be determined in February based on the prior year's MPW avoided costs

### Electric Heat Discount:

Customers using permanent electric heat qualify for a 1¢ per kWh discount for all electric use over 770 kWh per month. This discount is effective October through May. The electric home heating system must be installed permanently and must be the only heat source in the residence.

### Electric Water Heater Discount:

Customers using electric water heaters (30-gallon capacity or greater) qualify for a 10 percent discount on their total monthly energy charge before the electric heat discount. The maximum discount is \$5.50 per month. When the water heater has a tank capacity of less than 50 gallons, we recommend a fast-recovery type with heating elements of not less than 3000 watts. We also recommend operating at a nominal voltage of 240 volts.

Discounts do not apply to any EAC or facilities charge.

### Minimum Bill:

The Facilities Charge

*\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.*

## Commercial I Electric effective August 1, 2021

### Applies to:

Commercial customers and multifamily dwellings, unless separately metered, where the load is less than 50 kW demand. If only single-phase service is supplied, the individual motor size is limited to 5 hp. Each service is billed separately.

### Character of Service:

AC; 60 cycles, single phase; 120/240 volts; and where available, three phase; 120/208 or 277/480 volts.

### Monthly Rate:

Facilities Charge..... \$24.00 per month  
Energy Charge:  
All kWh..... 10.231¢ per kWh  
*Energy Adjustment Clause Applies*

### Electric Heat Discount:

In the months of October through May, customers using permanent electric heat may qualify for a 20 percent discount on the total monthly energy charge (excluding adjustment clause) before the water heating discount. To qualify for this discount, at least 50 percent of the total electric load of the premises is load of the building(s), which includes the permanent electric heat facilities. The electric heat system must be installed permanently and must be the only heat source in the building(s).

### Electric Water Heater Discount:

Customers using electric water heaters (30-gallon capacity or greater) qualify for a 10 percent discount on the total monthly energy charge before the electric heat discount. The maximum discount is \$6.60 per month. When the water heater has a tank capacity of less than 50 gallons, we recommend a fast-recovery type with heating elements of not less than 3000 watts. We also recommend operating at a nominal voltage of 240 volts. *Discounts do not apply to any EAC or facilities charge.*

### Minimum Bill:

The Facilities Charge

## Commercial I Electric – Net Metered effective August 1, 2021

### Applies to:

Commercial customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. Commercial customers and multifamily dwellings, unless separately metered, where the load is less than 50 kW demand. If only single-phase service is supplied, the individual motor size is limited to 5 hp. Each service is billed separately.

### Character of Service:

AC; 60 cycles, single phase; 120/240 volts; and where available, three phase; 120/208 or 277/480 volts.

### Monthly Rate:

Facilities Charge ..... \$57.59 per month

Energy Charge:

All kWh ..... 8.750¢ per kWh

*Energy Adjustment Clause Applies*

### Net Metering:

The Utility's meter tracks net energy delivered (kWh) by the Utility to the customer and net energy delivered to MPW (kWh) by the customer-owned generating facility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account and carried forward for use the next month. An annual "true up" occurs in February; MPW will provide the customer an Energy Credit for any banked kWh at a rate equivalent to the previous year's MPW purchased power cost. Banked credits will then reset to zero.

Energy Credit ..... per-kWh rate will be determined in February based on the prior year's MPW avoided costs

### Electric Heat Discount:

In the months of October through May, customers using permanent electric heat may qualify for a 20 percent discount on the total monthly energy charge (excluding adjustment clause) before the water heating discount. To qualify for this discount, at least 50 percent of the total electric load of the premises is load of the building(s), which includes the permanent electric heat facilities. The electric heat system must be installed permanently and must be the only heat source in the building(s).

### Electric Water Heater Discount:

Customers using electric water heaters (30-gallon capacity or greater) qualify for a 10 percent discount on the total monthly energy charge before the electric heat discount. The maximum discount is \$6.60 per month. When the water heater has a tank capacity of less than 50 gallons, we recommend a fast-recovery type with heating elements of not less than 3000 watts. We also recommend operating at a nominal voltage of 240 volts. *Discounts do not apply to any EAC or facilities charge.*

### Minimum Bill:

The Facilities Charge

\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.

## Commercial II Electric effective August 1, 2021

### Applies to:

Customers with peak demand of 50 kW to 999 kW.

### Character of Service:

AC; 60 cycles, three phase; 2400/4160 or 7960/13,800 volts. Utility will furnish transformers for one step down only at one specified voltage for each transformer bank at 120/208, 277/480, or 2400/4160 volts. Customer supplies all service connections and extensions from transformer secondaries.

### Monthly Rate:

Demand Charge.....\$10.03 per kW

#### Energy Charge:

First 200 kWh/kW of Actual Demand.....6.381¢ per kWh

All Additional kWh Used per Month.....4.380¢ per kWh

*Energy Adjustment Clause Applies*

### Actual Demand:

The actual demand is the highest integrated kW demand for any 30-minute period occurring in the current billing month plus any power factor adjustment.

### Power Factor:

For billing purposes, the actual demand is increased by 1 percent for each 1 percent that the average monthly power factor is below 90 percent lag.

### Billing Demand:

The billing demand is the greater of the actual demand in the current month or 75 percent of the highest actual demand in the preceding 11 months.

### Minimum Bill:

The Demand Charge

### Net Metering:

*Only applicable to those customers that have gone through the net metering application process for behind-the-meter, customer-owned generation and have had the application approved by MPW and the equipment installed.*

Applies to Commercial II customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. The Utility's meter tracks energy delivered (kWh) by the Utility to the customer and energy produced (kWh) by the customer-owned generating facility received by the Utility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account monthly, with a one-month lag.

Energy Credit.....per-kWh rate will vary by month

\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.

## Commercial II Irrigation Electric effective May 1, 2022

### Applies to:

Customers with peak demand of 50 kW to 999 kW that use electricity predominately for agricultural irrigation.

### Character of Service:

AC; 60 cycles, three phase; 2400/4160 or 7960/13,800 volts. Utility will furnish transformers for one step down only at one specified voltage for each transformer bank at 120/208, 277/480, or 2400/4160 volts. Customer supplies all service connections and extensions from transformer secondaries.

### Monthly Rate:

#### October through April Usage (7 months)

Facilities Charge.....\$24.00 per month

Energy Charge:

All kWh.....10.231¢ per kWh

*Energy Adjustment Clause Applies*

#### May through September Usage (5 months)

Demand Charge.....\$10.03 per kW

Energy Charge:

First 200 kWh/kW of Actual Demand.....6.381¢ per kWh

All Additional kWh Used per Month.....4.380¢ per kWh

*Energy Adjustment Clause Applies*

### Actual Demand:

The actual demand is the highest integrated kW demand for any 30-minute period occurring in the current billing month plus any power factor adjustment.

### Power Factor:

For billing purposes, the actual demand is increased by one percent for each one percent that the average monthly power factor is below 90 percent lag.

### Billing Demand:

The billing demand is the greater of the actual demand in the current month or 75 percent of the highest actual demand in the preceding 11 months.

### Minimum Bill:

October through April.....The Facilities Charge

May through September.....The Demand Charge

### Net Metering:

*Only applicable to those customers that have gone through the net metering application process for behind-the-meter, customer-owned generation and have had the application approved by MPW and the equipment installed.*

Applies to Commercial II customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. The Utility's meter tracks energy delivered (kWh) by the Utility to the customer and energy produced (kWh) by the customer-owned generating facility received by the Utility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account monthly, with a one-month lag.

Energy Credit.....per-kWh rate will vary by month

\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.

## Industrial I Electric effective August 1, 2021

**Applies to:**

Customers with peak demand of 1,000 kW to 7,499 kW.

**Character of Service:**

AC; 60 cycles, three phase; 2400/4160 or 7960/13,800 volts. Utility will furnish transformers for one step down only at one specified voltage for each transformer bank at 120/208, 277/480, or 2400/4160 volts. Customer supplies all service connections and extensions from transformer secondaries.

**Monthly Rate:**

Demand Charge.....\$10.75 per kW  
Energy Charge:  
First 200 kWh/kW of Actual Demand.....5.969¢ per kWh  
All Additional kWh Used per Month.....3.664¢ per kWh  
*Energy Adjustment Clause Applies*

**Actual Demand:**

The actual demand is the highest integrated kW demand for any 30-minute period occurring in the current billing month plus any power factor adjustment.

**Power Factor:**

For billing purposes, the actual demand is increased by 1 percent for each 1 percent that the average monthly power factor is below 90 percent lag.

**Billing Demand:**

The billing demand is the greater of the actual demand in the current month or 75 percent of the highest actual demand in the preceding 11 months.

**Contract:**

A contract may be required. Terms of contracts are from one to 10 years, subject to individual determination.

**Minimum Bill:**

The Demand Charge

**Net Metering:**

*Only applicable to those customers that have gone through the net metering application process for behind-the-meter, customer-owned generation and have had the application approved by MPW and the equipment installed.*

Applies to Industrial I customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. The Utility's meter tracks energy delivered (kWh) by the Utility to the customer and energy produced (kWh) by the customer-owned generating facility received by the Utility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account monthly, with a one-month lag.

Energy Credit.....per-kWh rate will vary by month

\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.

## Industrial II Electric effective August 1, 2021

### Applies to:

Consumers with peak demand of 7,500 kW or more.

### Character of Service

AC; 60 cycles, three phase; 2400/4160 or 7960/13,800 volts. Utility will furnish transformers for one step down only at one specified voltage for each transformer bank at 120/208, 277/480, or 2400/4160 volts. Customer supplies all service connections and extensions from transformer secondaries.

### Monthly Rate:

Demand Charge ..... \$10.58 per kW  
Energy Charge:  
First 200 kWh/kW of Actual Demand ..... 5.165¢ per kWh  
Additional kWh (up to 10 million) ..... 3.797¢ per kWh  
All Additional kWh Used per Month ..... 3.660¢ per kWh  
*Energy Adjustment Clause Applies*

### Actual Demand:

The actual demand is the highest integrated kW demand for any 30-minute period occurring in the current billing month plus any power factor adjustment.

### Power Factor:

For billing purposes, the actual demand is increased by 1 percent for each 1 percent that the average monthly power factor is below 90 percent lag.

### Billing Demand:

The billing demand is the greater of the actual demand in the current month or 75 percent of the highest actual demand in the preceding 11 months.

### Contract:

A contract may be required. Terms of contracts are from one to 10 years, subject to individual determination.

### Minimum Bill:

The Demand Charge

### Net Metering:

*Only applicable to those customers that have gone through the net metering application process for behind-the-meter, customer-owned generation and have had the application approved by MPW and the equipment installed.*

Applies to Industrial II customers with Utility-approved customer-owned generating facilities\* (e.g., solar panels, wind turbines). Customer Renewable Generation installations cannot exceed the greater of (1) 50 kW<sub>AC</sub> or (2) three times the customer's historical or projected peak demand up to a maximum of 1 MW<sub>AC</sub>. The Utility's meter tracks energy delivered (kWh) by the Utility to the customer and energy produced (kWh) by the customer-owned generating facility received by the Utility. When a customer uses more kWh in a month than produced, the net kWh delivered by MPW will be billed at the current applicable rate. When a customer-owned facility produces more kWh than used, the excess kWh will be credited to the account monthly, with a one-month lag.

Energy Credit ..... per-kWh rate will vary by month

\* Requires a Utility-approved Interconnection Agreement for Customer Renewable Generation.

### Security Lights (Standard and LED) and Streetlights effective August 1, 2021

We require a one-year contract. The Utility furnishes and installs a 150-watt security light, one wooden pole, up to 120 feet of overhead conductor, energy and maintenance for each security light agreement in areas served by overhead facilities. Any excess facilities require a one-time charge from the customer.

#### Monthly Rate per Light Fixture:

##### Residential:

Standard.....	\$17.11
40W LED.....	\$17.11
55W LED.....	\$17.11
70W LED.....	\$17.11
250W.....	\$27.75
400W.....	\$26.60

##### Commercial:

Standard.....	\$17.11
40W LED.....	\$17.11
55W LED.....	\$17.11
70W LED.....	\$17.11

Metered.....\$7.01

Streetlights – Fruitland.....\$26.95

#### Sales Tax:

MPW assesses Iowa sales and local option taxes on electric bills when applicable.

#### Late Payment Penalty:

MPW allows customers one late payment each year without penalty. We assess a penalty of 1.5 percent on the total electric balance for additional late payments in the same year.