



# Rate Schedules

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## WATER SERVICE RATE

**Monthly Charge** – The monthly water charge for a customer is the sum of the “readiness to serve charge” the “commodity charge” and the “fire protection charge”. Such charges shall be determined as follows:

**Readiness to Serve Charge:**

Meter Size (Inches)	Per Billing Cycle Amount	Details
5/8	\$10.15	Per Meter
3/4	\$14.50	Per Meter
1	\$25.00	Per Meter
1 1/2	\$49.00	Per Meter
2	\$90.00	Per Meter
3	\$166.00	Per Meter
4	\$257.00	Per Meter
6	\$625.00	Per Meter
8	\$1,290.00	Per Meter
10	\$1,930.00	Per Meter

**Commodity Charge:** The Water Commodity Charge is \$1.59 per hundred cubic feet (CCF), or \$2.13 per thousand gallons. (A CCF is approximately 748 gallons.)

**Fire Protection Charge:** For customers with no private fire protection lines, there shall be no charge. For customers with private fire protection lines, the fire protection charge shall be as follows:

Service Line Size (Inches)	Fire Protection Charge per Billing Cycle	Details
4	\$30.00	Per Service
6	\$67.50	Per Service
8	\$120.00	Per Service
10	\$187.50	Per Service
12	\$270.00	Per Service

For services supplied with a Fire Booster Pump the Fire Protection Charge shall be increased by a factor of 1.5. No added charges will be made for water used for fire protection purposes.

**Rules and Regulations:** Service is governed by the ZBPW standard rules and regulations.

**NOTE:** The Board of Public Works is also authorized to enter into contracts with large water users with charges varying from those specified above if such customers pay a fixed minimum monthly reservation charge. All such contracts shall be subject to approval by the Zeeland Board of Public Works and the Zeeland City Council.



## RESIDENTIAL ELECTRIC SERVICE RATE A

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Availability – This rate is available to any customer desiring service for domestic and farm uses, which include only those purposes which are usual in individual private family dwellings, or separately metered apartments, and in the usual appurtenant buildings served through the residential meter.

Residences in conjunction with commercial or industrial enterprises, homes or dormitories for groups other than private family units, apartment buildings or multiple dwellings, and mobile homes in courts may take service on this rate only under terms and conditions contained in the Zeeland Board of Public Works standard rules and regulations

Nature of Service – This service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate – Shall be computed in accordance with the following charges:

Service Charge	\$12.50	per customer per month
Energy Charge	\$0.0636	per kilowatt-hour (kWh)

Minimum Bill – The sum of the service charge included in the month plus, Energy Optimization Fee (as defined in the Energy Optimization Fee Schedule.)

Term and Form of Contract – Open order. No written application or contract required.

Fuel and Purchased Power Cost Adjustment – This rate is subject to the Fuel and Purchased Power Cost adjustment factor added to the above energy charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Energy Optimization Fee – This rate is subject to the Energy Optimization Fee as defined on a separate rate schedule and incorporated herein by this reference.

Rules and Regulations – Service is governed by the ZBPW's standard rules and regulations.



## GENERAL SECONDARY ELECTRIC SERVICE RATE B

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Availability – This rate is available to any customer desiring secondary voltage service. This rate is also available for service to any customer where the Zeeland Board of Public Works, elects to provide one transformation from the available primary distribution voltage to another primary voltage desired by the customer. This rate is not available for auxiliary or standby service, for street lighting service or for resale purposes.

Nature of Service – This service is alternating current, 60 hertz, single or three phase. The secondary voltage is determined by the Zeeland Board of Public Works.

Monthly Rate – Shall be computed in accordance with the following charges:

Service Charge	\$26.50	per customer per month
Energy Charge	\$0.0778	per kilowatt-hour (kWh)

Minimum Bill – The sum of the service charge plus Energy Optimization Fee (as defined in the Energy Optimization Fee Schedule.)

Term and Form of Contract – Open order. No written application or contract required.

Metering – Where the ZBPW elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumptions as registered by the different meters will not be combined for billing purposes, but will be computed and billed separately.

Fuel and Purchased Power Cost Adjustment – This rate is subject to the Fuel and Purchased Power Cost adjustment factor added to the above energy charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Energy Optimization Fee – This rate is subject to the Energy Optimization Fee as defined on a separate rate schedule and incorporated herein by this reference.

Rules and Regulations – Service under this rate is governed by the ZBPW Rules and Regulations for Electric Service incorporated herein by this reference.



## GENERAL SECONDARY ELECTRIC SERVICE RATE C

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Availability – This rate is available to any customer desiring secondary voltage service where the billing demand is 5 kW or more. This rate is also available for service for any customer where the Zeeland Board of Public Works, here after referred to as ZBPW, elects to provide one transformation from the available primary distribution voltage to another primary voltage desired by the Zeeland Board of Public Works. The rate is not available for street lighting service or for resale purposes.

Nature of Service – This service is alternating current, 60 hertz, single or three phase. The secondary voltage is determined by the Zeeland Board of Public Works.

Monthly Rate – Shall be computed in accordance with the following charges:

Facilities Charge	\$35.00	per month
Capacity Charge	\$14.00	per kilowatt (kW) of billing demand
Energy Charge	\$0.0351	per kilowatt-hour (kWh)

Minimum Bill – The sum of the capacity charge, (minimum billing demand of 5kW), plus Energy Optimization Fee (as defined in the Energy Optimization Surcharge Fee.)

Billing Demand – The billing demand shall be the kW supplied during the 15-minute period of maximum use during the month, but not less than 60% of the highest billing demand established during the preceding 11 months, nor less than 5kW.

Metering – Where the ZBPW elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumptions as registered by the different meters will not be combined for billing purposes, but will be computed and billed separately.

Power Factor – When the power factor during the period of maximum use in a billing month is less than 80 percent lagging, the ZBPW reserves the right to increase the capacity charge for such billing month in the ratio that 80 percent bears to such power factor. The ZBPW may, at its option, determine the power factor by test or by permanently installed measuring equipment.

Fuel and Purchased Power Cost Adjustment – This rate is subject to a Fuel and Purchased Power Cost adjustment factor added to the above energy charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Energy Optimization Fee – This rate is subject to the Energy Optimization Fee as defined on a separate rate schedule and incorporated herein by this reference.

Rules and Regulations – Service under this rate is subject to the ZBPW Rules and Regulations for Electric Service incorporated herein by this reference.



## COMMERCIAL AND INDUSTRIAL PRIMARY ELECTRIC SERVICE RATE D

Availability – This rate is available to any customer desiring primary voltage service for commercial or industrial use where the billing demand is 25kW or more. This rate is not available for street lighting service or for resale purposes.

Nature of Service – This service is alternating current, 60 hertz three phase. The primary voltage is determined by the Zeeland Board of Public Works.

Monthly Rate – Shall be computed in accordance with the following charges:

Facilities Charge	\$75.00	per month
Capacity Charge	\$11.50	per kilowatt (kW) of billing demand
Energy Charge	\$0.0368	per kilowatt-hour (kWh)

Minimum Bill – The sum of the capacity charge, plus Energy Optimization Fee (as defined in the Energy Optimization Fee Schedule.)

Billing Demand – The billing demand shall be the kW supplied during the 15-minute period of maximum use during the month, but not less than 60% of the maximum billing demand established during the last 11 months, nor a minimum of 25kW.

Term and Form of Contract – No written application of contract is required. A minimum term of one year is required.

Metering – Where the ZBPW elects to measure the service on the secondary side of the transformers, the metered kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter installation, the consumptions as registered by the different meter installations will not be combined for billing purposes, but will be computed and billed separately.

Equipment Supplied by Customer – The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond ZBPW primary voltage delivery point.

Power Factor – If the average power factor during the billing period is .900 or higher, the capacity charge will be reduced by 2%. The credit shall not be used to reduce the minimum charge or capacity charge when based upon 60% of the highest billing demand during the preceding 11 months.

If the average power factor during the billing period is less than .800, the capacity charge will be increased by the ratio between .800 and the customer's average power factor during the billing period.



## COMMERCIAL AND INDUSTRIAL PRIMARY ELECTRIC SERVICE RATE D

Fuel and Purchased Power Cost Adjustment – This rate is subject to the Fuel and Purchased Power Cost adjustment factor added to the above energy charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Energy Optimization Fee – This rate is subject to the Energy Optimization Fee as defined on a separate rate schedule and incorporated herein by this reference.

Rules and Regulations – Service under this rate is subject to the ZBPW Rules and Regulations for Electric Service incorporated herein by this reference.



## EXPERIMENTAL ELECTRIC VEHICLE CHARGING STATION RATE RATE E

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Availability – This rate is available to any customer using a public Zeeland Board of Public Works (ZBPW) Electric Vehicle Charging Station for the purpose of using said station for vehicle charging.

Public ZBPW charging station means an installation including vehicle supply connector(s), internal relays and contact designed specifically for the purpose of delivering from a supply source to an electric plug-in vehicle. This equipment meets or exceeds the following codes, standards, and recommended practices: National Electric Code Article 625, UL2594, UL2231-1, UL2231-2, NFPA 70, SAE J1772.

Nature of Service – This service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate – Shall be computed in accordance with the following charges:

Energy Charge        \$0.10 per kilowatt-hour (kWh)

Minimum Bill – The minimum charge is \$0.00 if no energy is used.

Term and Form of Contract – Open order. No written application or contract required.





## VOLUNTARY GREEN PRICING PROGRAM RATE G

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Availability – This rate is available to any Zeeland Board of Public Works customer on a first serve basis. Availability may be limited.

Monthly Rate – Renewable Energy is a dollar charge per kilowatt-hour (kWh) premium in addition to normal rate charges available in 100 kWh blocks or in 10% increments of total monthly consumption.

Energy Charge Premium      \$0.00939      per kWh

Term and Conditions of Service – The minimum term available to all customers is twelve continuous complete billing periods. Customer must commit to a percentage or number of 100kWh blocks. Written application required.

Rules and Regulations – Service is governed by the ZBPW's standard rules and regulations.

Approved: April 2018



**STREET LIGHT SERVICE  
RATE S**

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Availability – Available to any political subdivision or agency for street lighting service for any system consisting of one or more luminaires where the ZBPW has an existing distribution system with secondary voltage available. Luminaires may be installed with no limitations as to spacing between luminaires. Where overhead line extension is required to serve one or more luminaires, the ZBPW will supply up to 350 linear feet of line extension per luminaire served from such distribution.

Nature of Service – The ZBPW will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy.

Monthly Rate: The monthly rate per luminaire with fixture and setting, shall be as follows:

**High Pressure Sodium Luminaire**

<u>SIZE</u>	<u>RATE</u>
100 Watt or less	\$8.90
150 Watt	\$9.50
250 Watt	\$11.20
400 Watt	\$14.85
1000 Watt	\$19.75

**Mercury Vapor Luminaire**

<u>SIZE</u>	<u>RATE</u>
100 Watt	\$6.25
175 Watt	\$7.15
250 Watt	\$10.25
400 Watt	\$21.75
1000 Watt	\$21.75

**LED Luminaire**

<u>SIZE</u>	<u>RATE</u>
1-40 Watt	\$7.05
41-100 Watt	\$7.50
101-200 Watt	\$11.50
201-300 Watt	\$15.35



## FUEL AND PURCHASED POWER COST ADJUSTMENT

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The Fuel and Purchased Power Cost Adjustment permits the monthly adjustment of rates for the cost of energy incurred in supplying retail customers. All ZBPW rates are subject to the "Fuel and Purchased Power Cost Adjustment". In applying the adjustment, the applicable rate per kWh shall be increased or decreased by the amount of the adjustment.

Fuel and Purchased Power Cost Adjustment – the amount per kWh by which the applicable rates shall be adjusted for billing each month. The adjustment will be applied monthly based on a 12 month rolling average.

Energy Cost – those costs incurred in supplying retail electricity. Such costs include fuel burned, energy cost associated with firm power purchases, market power costs, and costs associated with power supply and dispatching including but not limited to transmission, and dispatching.

Over/Under Recovery – the difference between actual Energy Cost including a loss adjustment of 6% that the previous 12 month average fuel cost and purchase power cost is above or below a Base Energy Cost of \$0.045 per kWh delivered to the distribution system. The adjustment shall apply to the second billing month following the calendar month in which the fuel is burned and/or energy procured.

Base Energy Cost – the average Energy Cost included in the energy rates for the various rate schedules. Such amount shall not be recovered by means of the Fuel and Purchased Power Cost Adjustment. The current Base Energy Cost is \$0.045 per kWh.



## ENERGY OPTIMIZATION FEE

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The Energy Optimization Fee is designed to recover ZBPW Energy Optimization Plan program costs as required by Public Act 295 of 2008.

The Energy Optimization Fee will be reviewed and revised periodically in accordance with 2008 PA295.

The Energy Optimization Fee will appear as a line item on the customer's bill.

Monthly Energy Optimization Fees beginning in August 2017 are as follows:

<b>ZBPW RATE</b>	<b>Energy Optimization Fee</b>
Residential Rate A	\$0.50 per month per customer
General Secondary Service Rate B	\$3.50 per month per customer
General Secondary Service Rate C	\$32.50 per month per customer
Commercial & Industrial Primary Service RATE D	\$0.00065 per kilowatt-hour (kWh)
Electric Vehicle Charging RATE E	N/A



## NET METERING SCHEDULE NM SERVICE RIDER

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**Purpose** – The purpose of this rider is to enable Zeeland Board of Public Works (ZBPW) customers who generate electricity using qualified renewable energy sources to connect to the ZBPW’s electric distribution system and to send electricity back to the electric grid at times when their on-site generation exceeds their own use.

**Availability** – Customers served under this rider must also take service from the ZBPW under an otherwise applicable standard rate. The ZBPW Net Metering Program and offering of this rider, will be in effect and available until total nameplate capacity of all participating generators is equal to the maximum program limit of 1% of the ZBPW peak load for the preceding calendar year. Service under this rider will be on a first come first serve basis.

**Conditions of Service** - a qualifying net metering facility is an electrical generating facility that complies with ALL of the following requirements:

- Customer must generate electricity using a renewable energy resource including but not limited to: biomass, solar, photovoltaic or wind. Other renewable energy resources must be approved in advance.
- Generating facility must be located on customer’s premises.
- Is intended primarily to offset all or part of customer’s own electric load requirements.
- Is designed and installed to operate in parallel with the ZBPW’s system without adversely affecting the operation of the equipment and service to the ZBPW and its customers.
- Does not present a safety hazard to ZBPW personnel or the customer.
- Installation complies with all requirements in the “Expedited Generator Interconnection Requirements” or “Generator Interconnection Requirements” as appropriate, and all documents referred therein.
- ZBPW personnel shall be provided access to the generation facility during normal business hours and during all emergency situations.
- If the project is proven to be a source of electrical interference, and interference exceeds generally accepted industry standards, the generator owner shall be responsible to eliminate the interference.
- Generation systems will be sized not to exceed customer’s annual electric needs for the location of renewable system.
- Must complete all applicable Interconnect Applications.
- Upon acceptance of an Interconnect Application, contracts must be executed before the net metering facility may be interconnected.
- Customer is responsible to ensure proposed generation equipment and installation meet all applicable federal, state and local laws, regulations, ordinances and zoning requirements before acquiring and installing generating equipment.
- ZBPW at its discretion will make final determination of the acceptable size of the renewable energy generating system eligible for this rider.

**Monthly Rate:** All Net Metering customers will be billed a monthly service charge of \$5.00 per month to recover the costs associated with operating the Net Metering Program.

Monthly charges shall be calculated based on the applicable rate for all capacity, energy, along with applicable fees and charges.

**Monthly Credits:** For all classes except “Residential”, monthly credits shall be calculated for all energy delivered by the customer to the ZBPW based on the energy costs avoided by the ZBPW as a result of the customer’s participation. The per unit value of the energy avoided by the ZBPW shall be determined as the monthly average “System Cost” as defined in ZBPW’s



## NET METERING SCHEDULE NM SERVICE RIDER

average monthly Fuel and Purchase Power Cost Adjustment Calculation for the period the credit is applied.

Residential Net Metering as defined in the "Expedited Generator Interconnection Requirements" shall be credited at the full retail rate.

Net Energy Billing Terms and Conditions: The ZBPW shall measure the net electricity produced or consumed by the customer during each billing period, in accordance with ZBPW's normal metering practices.

If the electricity supplied by the ZBPW to the customer exceeds the electricity generated and delivered into the ZBPW's electric system by the customer during the billing period, or any portion thereof, then the customer shall be billed at the rate under which the customer takes service for electricity supplied by the ZBPW. The customer shall also be billed the appropriate customer charges paid by other customers in the same rate class for each meter including, such as Service Charge, Energy, Capacity, Energy Optimization, reactive power and any other charges applicable to energy use and applicable adjustments and fees.

If the electricity generated and delivered into the ZBPW's electric system by the customer during the billing period, or any portion thereof, exceeds the electricity supplied by the ZBPW to the customer, then the customer shall be:

- Billed for the appropriate customer charges as other customers in the same rate class for each meter including but not limited to: Service Charge, Energy, Capacity, Energy Optimization, reactive power and any other charges applicable to energy use and applicable adjustments and fees; and
- credited for the net excess kilowatt-hours generated and delivered into the ZBPW's electric system by the customer during the billing period, with this kilowatt-hour credit appearing on the customer's bill for the following period(s) as an off-set for the period's consumption. The kilowatt-hour credit will be used to offset any future consumption with the consumption credit not to be carried forward for more than 12 monthly billing cycles.
- Any remaining unused kilowatt-hour credit accumulated by the customer during a continuous twelve-month period shall be granted to the ZBPW without any compensation in June of each year.

Terms and Conditions: This rider is subject to the ZBPW Rules and Regulations for Electric Service and all provisions of the standard rate under which the customer takes service. This Rider is subject to provisions of the Generator Interconnection Application, submitted by the customer; the Interconnection Agreement to be executed prior to initiating service under this rider; the Net Metering Agreement to be executed prior to initiating service under this rider; the Generator Interconnection Requirements or Expedited Generator Interconnection requirements, as appropriate; and Interconnection Study Agreement; and Contact List; and the ZBPW's Rate Schedules, Customer-Generator Service Policies, and General Rules and Regulations, all of which may be modified by the ZBPW from time to time.