

ORDINANCE NO. 2023-34

AN ORDINANCE ADOPTING RATES, TERMS, AND CONDITIONS FOR ELECTRIC SERVICE PROVIDED BY THE VILLAGE OF ARCANUM, OHIO

WHEREAS, the Village of Arcanum desires to establish and adjust its current rates, and terms, and conditions for providing electric service in the Rules and Regulations for Electric Service to Consumers of Arcanum Water and Light (Rules); and

WHEREAS, the Village of Arcanum understands the need to evaluate its rates, terms, and conditions for electric service in light of a de-regulated electric market as set forth by the State of Ohio; and

WHEREAS, the Village of Arcanum desires to maintain the best possible electric service to its customers, and also to operate a financially stable electric utility system;

NOW THEREFORE BE IT ORDAINED by the Council for the Village of Arcanum, Darke County, State of Ohio:

SECTION ONE: That the Rules and Regulations for Electric Service to Consumers of the Arcanum Water and Light (Exhibit "A" - Rates, Terms and Conditions of Electric Services) are hereby adopted, and to be effective for bills rendered on and after November 1, 2023.

SECTION TWO: That it is found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were passed in an open meeting of this Council, and that all deliberations of the Council and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements, including Section §121.22, Ohio Revised Code.

SECTION THREE: All previous resolutions and ordinances of Council related to the utility policy manual are hereby repealed.

Passed this 21st day of September, 2023.


Jerry L. Boolman, Council President Pro Tem


Bonnie L. Millard, Mayor

ATTEST:


Karen L. Deao, Fiscal Officer

1st Reading: 9/26/2023
2nd Reading:
3rd Reading:
Three Reading Rule Waived: 9/26/2023
Emergency Declared:

Exhibit A Ord. H2023-34

Rules and Regulations for Electric Service to Customers of the
Arcanum Water and Light

Rates, Terms and Conditions of Electric Services

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SECTION I - DEFINITIONS

As used herein:

1. "Village" shall mean the Village of Arcanum, Ohio;
2. "Council" shall mean the Village of Arcanum, Village Council;
3. "Utility" shall mean Arcanum Water & Light of the Village of Arcanum, Ohio;
4. "Customer" shall refer to an individual, partnership, corporation, or other legal entity receiving one class of service through one meter at one structure at one location, subject to these Rules and Regulations;
5. "Landlord/Customer" refers to the owner of the structure and/or location where a Customer is taking service, if the owner is different from the end user of service and the owner is responsible for payment of the electric bill for the structure and/or location;
6. "Month" shall mean the elapsed time between two successive meter readings, approximately thirty (30) days apart.

SECTION II- RATES AND CHARGES FOR SERVICE

RESIDENTIAL SERVICE

Availability of Service

Available for full domestic electric service through one meter to individual residential customers requiring single-phase service and where not more than 25 kVA of installed or allocated nameplate rated transformer capacity is required per Customer. Domestic service includes lighting, cooking, water heating, refrigeration, home heating clothes drying, etc. Such Residential Service is defined as normal year-round individual single-family homes, apartments, mobile homes and other individual single-family dwelling quarters, including incidental farm use.

Where electric service is supplied through one meter for combined residential and non-residential use, the Commercial Service Schedule shall apply.

Character of Service

The type of service furnished under this schedule shall be single-phase at a nominal potential of approximately 120/240 volts, three wire. At sole option of the utility, 120 volts, two wire service may be furnished.

Rates for Service

Meter Surcharge:	\$ 1.00 per meter per month
Customer Charge:	
Domestic (inside):	\$ 12.00 per meter per month
Rural (outside):	\$ 14.00 per meter per month
Distribution Charge All kWh:	
Domestic (Inside):	\$0.03305 per kWh
Rural (Outside):	\$0.03714 per kWh
Generation Charge All kWh:	
Domestic (Inside):	\$0.08790 per kWh
Rural (Outside):	\$0.08790 per kWh

Riders

Customers under this schedule shall be subject to the applicable Power Cost Adjustment (PCA) rider, Transition Cost Rider and kWh Tax Rider.

Minimum Charge

The minimum charge shall be the Meter Surcharge plus Customer Charge and any applicable charges associated with Customer electric consumption. Installation of Utility approved Customer-owned

renewable Generation Facilities shall not avoid Customer Charge, Meter Surcharge and applicable Distribution Charges. The Distribution Charge shall apply to energy delivered by the Utility and energy received by the Utility from Customer-owned Generation Facility, if applicable.

Terms of Payment

The net amount billed is due by the fifteenth (15th) of the month. Additional payment details are specified in Section IV (5). See Section II (7) for details regarding miscellaneous charges associated with past due accounts.

Other Terms and Conditions

See Sections II, III, IV and V for additional terms and conditions of electric service and miscellaneous fees.

COMMERCIAL SERVICE

Availability of Service

Available for general service for commercial, non-residential and industrial users, except for Large Power Service customers.

Character of Service

The type of service furnished under this schedule shall be single-phase at a nominal potential of approximately 120/240 volts, three wire, 240 or 480 volt, three-phase, three wire; or 120/208 or 277/480 volt, three-phase, four wire. If the Customer desires a voltage that is impractical for Utility to furnish, Customer shall furnish, at his expense, the necessary transformers to deliver such voltage.

Three-phase service may, at the Utility's option, be furnished where three-phase facilities of adequate capacity are already installed immediately adjacent to the point where service is to be delivered or where, as determined by the Utility, it is economically feasible to extend three-phase facilities.

Utility reserves the right to install demand metering equipment. Utility may install demand metering equipment if Customer's usage in any month exceeds 5,000 kWh, or if the installed or allocated transformer capacity is greater than 25 kVA.

Rates for Service

Meter Surcharge:	\$ 1.00 per meter per month
Customer Charge:	
Domestic (inside):	\$ 20.00 per meter per month
Rural (outside):	\$ 22.00 per meter per month
Distribution Charge All kWh:	
Domestic (Inside):	\$0.03838 per kWh
Rural (Outside):	\$0.03852 per kWh
Generation Charge All kWh:	
Domestic (Inside):	\$0.08790 per kWh
Rural (Outside):	\$0.08790 per kWh

Riders

Customers under this schedule shall be subject to the applicable Power Cost Adjustment (PCA) rider, Transition Cost Rider and kWh Tax Rider.

Minimum Charge

The minimum charge shall be the Meter Surcharge plus Customer Charge and any applicable charges associated with Customer electric consumption. Installation of Utility approved Customer-owned renewable Generation Facilities shall not avoid Customer Charge, Meter Surcharge and applicable

Distribution Charges. The Distribution Charge shall apply to energy delivered by the Utility and energy received by the Utility from Customer-owned Generation Facility, if applicable.

Terms of Payment

The net amount billed is due by the fifteenth (15th) of the month. Additional payment details are specified in Section IV (5). See Section II (7) for details regarding miscellaneous charges associated with past due accounts.

Other Terms and Conditions

See Sections II, III, IV and V for additional terms and conditions of electric service and miscellaneous fees.

LARGE POWER SERVICE

Availability of Service

Applicable to any customer having a kW usage of 100,000 kWh or greater during the previous twelve (12) calendar months. In addition, this schedule is applicable to all new Customers with an estimated annual usage of 100,000 kWh or greater, pending Board review and approval.

Character of Service

Secondary service will normally be supplied through a single set of service wires. The voltage shall, at Utility's option, be either 120/240 volt single-phase, three wire; 240 or 480 volt three-phase, three wire; or 120/208 or 277/480 volt three-phase, four wire. If the voltage requested is impractical for utility to furnish, Customer shall furnish, at his expense, such transformers as are necessary to deliver such voltage.

Where Customer installs power factor corrective equipment, Utility may require Customer to install, at his expense, such control devices as are necessary to prevent excessive or detrimental voltage variations on Utility's system.

Where substation capacity in excess of 150 kVA is required to supply Customer's existing and probable future requirements, Utility reserves the right to require Customer to install the necessary complete substation equipment to take service at Utility's specified primary voltage and this Large Power Service Schedule shall apply.

Service under this Schedule will be furnished only on a 12-month non-seasonal basis by contract in accordance with the following stipulations and in accordance with Utility's Rates, Terms and Conditions of Electric Service.

Rates for Service

Meter Surcharge:	\$ 1.00 per meter per month
Customer Charge:	
Domestic (inside):	\$ 70.00 per meter per month
Rural (outside):	\$ 70.00 per meter per month
Distribution Charge All kWh:	
Domestic (Inside):	\$0.03333 per kWh
Rural (Outside):	\$0.03333 per kWh
Generation Charge All kWh:	
Domestic (Inside):	\$0.08790 per kWh
Rural (Outside):	\$0.08790 per kWh

Primary Metering

Utility reserves the right to meter all service at either primary or secondary voltage. For billing purposes, Utility shall determine whether the metering is to be considered as being primary or secondary.

If Utility defines the service as being metered at primary voltage, the metered kWh and kW will be multiplied by 0.99 for billing purposes.

Riders

Customers under this schedule shall be subject to the applicable Power Cost Adjustment (PCA) rider, Transition Cost Rider and kWh Tax Rider.

Minimum Charge

The minimum charge shall be the Meter Surcharge plus Customer Charge and any applicable charges associated with Customer electric consumption. Installation of Utility approved Customer-owned renewable Generation Facilities shall not avoid Customer Charge, Meter Surcharge and applicable Distribution Charges. The Distribution Charge shall apply to energy delivered by the Utility and energy received by the Utility from Customer-owned Generation Facility, if applicable.

Terms of Payment

The net amount billed is due by the fifteenth (15th) of the month. Additional payment details are specified in Section IV (5). See Section II (7) for details regarding miscellaneous charges associated with past due accounts.

Other Terms and Conditions

See Sections II, III, IV and V for additional terms and conditions of electric service and miscellaneous fees.

2. SECURITY LIGHTING SERVICE

Availability

Available to customers where Utility's standard outdoor lighting unit can be installed on Utility's existing pole and does not require any extension or addition to Utility's existing secondary or primary distribution facilities, including transformer. Any relocation of a lighting unit shall be at customer's expense.

Where additional facilities are required, the customer shall pay, in advance, the total installation cost for the additional distribution facilities (poles, wires, transformer, and appurtenances) as are required. In all cases, the lighting fixture itself, including lamp, and pole if applicable, will be installed, owned, operated, and maintained by Utility.

This service is available only where there is reasonable assurance that the service to be furnished will be permanent. Utility reserves the right to refuse to furnish such service when, in Utility's opinion, the installation will not be of permanent character.

All applications for Outdoor Security Lighting Service shall be on a 12-month year-round service basis. Where the premises are occupied by a tenant, Utility reserves the right to require the Application for Service to be made by the property owner with bills to be sent to the premises to the attention of the tenant. However, the property owner shall be responsible for the payment of the bills.

Character of Service

The Utility will install, own, operate, and maintain, at its expense, the necessary mast arm mounted lighting unit and related appurtenances. The lighting unit shall be a luminaire, photo-electric or otherwise controlled so as to provide substantially dusk-to-dawn year-round operation per year.

Rates for Service

175 Watt or Less – Fixture Only	\$7.00 per month
175 Watt or Less with Pole	\$8.00 per month

Terms of Payment

The net amount billed is due by the fifteenth (15th) of the month.

Other Terms and Conditions

See Sections II, III, IV and V for additional terms and conditions of electric service and miscellaneous fees.

Current customers whom have a customer-owned pole will continue to have service provided, should the pole break or Utility deem the pole needs removed due to age, Utility will not replace the pole. Utility will either remove the pole and place the night light on Village owned existing pole, to be

determined by Utility Superintendent, the customer will then be charged \$7.00/month or Utility will remove the pole and light and customer will be charged \$0.00. Personally purchased light installed by an electrician or homeowner cannot be placed on Village owned utility pole, the night light shall be directly tied behind the customers meter socket and consumption will be included in monthly reading.

3. POWER COST ADJUSTMENT RIDER

All Rate Classes

Applicable

The calculation of monthly bills pursuant to the rates and charges therein shall be subject to adjustment for changes in the cost of fuel and purchased power by applying a Power Cost Adjustment (PCA) as a unit charge or credit to the total billed energy kilowatt-hours (kWh) on the bill.

Overview

This PCA calculation is intended to be based on forward-looking projections of fuel, purchased power, and other power supply-related costs and projections of customer sales (kWh) for the period. The calculation is further intended to be performed at a minimum six-month interval or more frequently, if required, to accomplish recovery of fuel-related costs in a timely manner. The calculation includes a provision to reconcile over or under-collection of cost from previous periods based on actual cost versus projected cost for the period.

The PCA calculation shall be performed in a manner consistent with this rider. The PCA calculation shall be reviewed at a minimum every six months. The PCA calculation shall be reviewed, and new projections shall be made for the subsequent six-month consumption periods (i.e., August and February of each year). Following such PCA review and calculation, the PCA shall be applied, as deemed necessary to accomplish recovery of the fuel, purchased power, and other power supply-related costs in a timely manner. The PCA shall be recalculated and applied at intervals more frequent than six months if actual fuel and purchased power costs vary significantly from projections.

Definition of Fuel Cost

The cost in dollars and cents of all projected fuel used in the production of electric energy during the applicable time period determined from the projected weighted average cost of such fuel applied to the projected quantity used. The projected weighted average cost of fuel as used shall be defined as the cost of fuel consumed in generating facilities priced at cost including freight, demurrage, and taxes, of fuel on hand at the beginning of the applicable time period, plus the projected cost of fuel received during the applicable time period, divided by the total quantity of fuel on hand and projected to be received.

Definition of Purchased Power Cost

The net cost in dollars and cents of all projected purchased power required during the applicable time period. The net cost of purchased power shall be the projected total cost of power and energy received from suppliers, including transmission service and ancillary services and dispatch fees and any power supply-related charges and the cost of credits for Excess Generation from Utility approved Customer-owned renewable Generation Facilities, less the projected amounts received for off-system sales of energy.

Determination of PCA Unit Charge or Credit

When fuel total cost and purchased power cost increase above or decrease below \$0.08790/kWh-sold, the rate for electric service shall be increased or decreased in accordance with the following formula:

Calculation:

$$PCA = \frac{P + R}{S} - B$$

Where:

- PCA = Power Charge factor, expressed in dollars per kWh-sold rounded to the nearest five decimal places.
- P = Total projected fuel cost and projected purchased power cost during the applicable time period expressed as dollars (\$) as defined in this schedule.
- S = Projected sales (kWh) excluding wholesale energy sales, for the applicable period for which the fuel and purchased power costs (P) are computed.
- R = Reconciliation of the actual cumulative over or under-recovery of fuel cost and purchased power cost from preceding applicable time periods including over or under-recovery of fuel cost and purchased power cost before the effective date of this Rider expressed as dollars (\$).
- B = Base power supply cost for the schedule of rates and charges provided by this Ordinance, B shall be \$0.08790/kWh-sold.

4. TRANSITION COST RIDER

Determination of Transition Costs

The Transition Cost Rider shall be calculated and implemented upon the offering of Open Access Service. The Village does not offer Open Access Service.

Transition costs shall be calculated yearly. Transition Costs are generally defined as the difference between purchased power costs of those sources where construction costs, market price at the time of contractual obligation, and/or other factors may cause the fixed and/or average cost of that power to be significantly higher than average market prices. The Transition Cost Rider may be adjusted each year based on projected market price, average cost of power from transition cost sources, fixed costs of contracted power, implementation costs of the offering of Open Access Service, and sales of the previous year. A reconciliation of over or under recovery of transition costs is taken forward to the next year as a debit or credit to transition costs. Projected transition cost recovery is allocated between demand and energy costs and credited to total demand and energy costs of generation. This credit ensures that there will be no double recovery of transition costs.

The Transition Cost Rider shall be applicable to all rate schedules.

5. KILOWATT-HOUR TAX RIDER

Applicability

The kWh tax is based on actual kWh delivered to all Customers for all service (including the municipality) on the distribution system, excluding Federal facilities. If no meter is used, usage shall be estimated.

Tax Rates:

First 2,000 kWh:	\$ 0.00465
Next 13,000 kWh:	\$ 0.00419
All Over 15,000 kWh:	\$ 0.00363

The above rates are based on a 30-day billing cycle. If the billing cycle is more or less than a 30days, the tax shall be based on the Daily Calculation.

The Daily Calculation shall be determined as follows:

- A. Determine the total number of kWh used during the billing cycle;
- B. Divide the total kWh by the number of days in the billing cycle (daily average usage);
- C. Multiply the daily average usage over the following rate blocks to calculate the average daily tax:

First 67 kWh:	\$ 0.00465
Next 433 kWh:	\$ 0.00419
All Over 500 kWh:	\$ 0.00363

- D. Multiply the average daily tax by the number of days in the billing cycle.

6. SOLAR RENEWABLE PARALLEL GENERATION RIDER

Applicable

Applicable to Utility approved photovoltaic (solar) electric Generation Facility connected in parallel with the Utility's Electric Distribution System in accordance with the Interconnection Standards and Interconnection Agreement. Terms and conditions for interconnection of Customer-owned Generation Facilities can be found in Exhibit B. Customers served under this Rider must also take service under the applicable retail rate tariff under which the customer would otherwise be served, absent the customer-owned solar electric Generation Facility.

This Rider applies to Customer-owned solar electric generation facilities of 100 kWAC or less that are intended primarily to offset part of the Customer electricity needs. The kWAC capacity limitation shall include the kWAC per hour output of any battery storage if the Customer battery is intended to be operated in parallel with the Utility electric system.

This rider is not applicable to temporary, shared, or resale service. This rider is applicable to service supplied at one point of delivery. This Rider is not applicable to any Customer-owned solar electric Generation Facilities that include a combination of solar facilities and synchronous generators not used for emergency purposes.

Availability

This Rider is available to Customer-owned solar electric generation facilities on a first-come, first-serve basis. This Rider is limited to the lesser of; (1) total aggregate participation of Utility approved Customer-owned renewable generation totaling 200 kWAC (2) 5% of the Utility's previous year peak demand (kW) (3) the total aggregate when including the total Utility approved Customer-owned behind-the-meter generation and Utility's own generation may cause reverse-power flow at the Utility's wholesale interconnection point(s). Service under this Rider will be furnished only on a 12-month non-seasonal basis in accordance with the following stipulations and in accordance with Utility's Rules and Regulations for Electric Service to Customers of Arcanum Water and Light or subsequent revisions thereof.

Conditions of Service

1. Customer-owned Generation Facilities must comply with the following requirements:
 - a. customer Generation Facility must be located on the Customer's premise(s);
 - b. is designed and installed to operate in parallel with the Utility's electric system without adversely affecting the operation of equipment and service of the Utility and its Customers and without presenting safety hazards to Utility and Customer personnel; and
 - c. is intended primarily to offset part of the Customer electricity needs.
2. The Customer's electric generating equipment shall be installed in accordance with the manufacturer's specifications as well as all applicable provisions of the National Electric Code (N.E.C.) and requirements of the local authority having jurisdiction. All equipment and installations shall comply with all applicable safety and performance standards established by the N.E.C., the Institute of Electrical and Electronic Engineers and Underwriters Laboratories, as well as any additional control and testing requirements adopted by the Utility or local authority having jurisdiction.

3. Utility has an approved Interconnection Agreement with the Customer.

Sales to Customer

Sales to Customer shall be electricity delivered to Customer from Utility measured by a single bidirectional electric meter or meters capable of recording the flow of electricity in each direction. Sales to a Customer-owned solar electric Generation Facility shall be consistent with the applicable retail rate tariff established by the Utility and in use by the Customer as if there were no Customer-owned solar electric Generation Facility.

Excess Generation from a Customer – Owned Generation Facility

All energy (kWh) supplied to the Utility by Customer-owned generating facilities shall be metered separately from the Utility’s service supplied to the Customer. Compensation of Excess Generation (kWh), as defined in the Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities, from an approved Customer-owned solar renewable Generation Facility shall be at the rate listed. The credit rate is to be reviewed annually and may be adjusted as deemed necessary by the electric Utility. The Utility will provide a monthly monetary billing credit for all Customer energy supplied to the Utility for the applicable period. The credit shall not apply to the monthly Power Cost Adjustment calculation nor to the Ohio Excise Tax.

The Customer monetary credit for Excess Generation for the applicable billing period will be netted against Customer charges for electric service supplied during the coincident billing period.

Credit for Excess Generation from an approved Customer solar Generation Facility shall be at the Utility’s avoided power supply cost rate as determined by the Utility and listed herein. The avoided power supply cost rate is determined annually. The avoided power supply cost is based on estimated avoided PJM Capacity, AES transmission charges and estimated hourly avoided energy costs. The Customer shall be credited at the following rate for Excess Generation.

2023 Credit Rate (per kWh received): \$0.05542/kWh
2024 Credit Rate (per kWh received): \$0.05775/kWh

In addition to the Credit Rate the Customer Excess Generation (kWh) to be charged the Distribution Charge under the applicable retail rate tariff under which the customer would otherwise be served, absent the customer-owned solar electric Generation Facility.

Billing

The billing period for excess energy from Customer solar Generation Facility shall be consistent with the billing period for Sales to Customer in accordance with Utility General Rules and Regulations. The Utility shall prepare an accounting of the Excess Generation (kWh) and associated credit (\$) for Excess Generation during each billing period and shall net the customer credit (\$) for Excess Generation on the applicable billing period. Should Customer’s bill for the billing period be less than zero the Customer’s credit (\$) shall be credited to the next billing period. Customer credit (\$) shall be carried forward month to month. Customer shall not receive credit for any remaining accumulated credit balance (\$), if any, for Excess Generation at the end of a 12-month billing period, starting January 1, and ending December 31. In the event Customer discontinues taking service from the electric Utility the monetary credit balance, if any, will be lost if not used by Customer.

Utility shall credit Customer the Credit Rate for the quantity delivered to the utility approved Interconnection Point within each billing period. No credit to Customer will be accounted for until an Interconnection Agreement has been approved by Utility.

There shall be no "net metering" for customer-owned solar Generation Facilities. Net metering is defined as measuring the difference between the electricity supplied by the Utility and the electricity generated by the Customer's Generation Facility and delivered to the Utility Electric Distribution System over the applicable billing period. The Utility does not buy the electricity produced from the Customer-owned solar Generation Facilities. A monetary credit is calculated and applied to the current bill, with any remaining credit carried forward to the next billing period. Customer will not receive compensation for any remaining accumulated credit (\$) at the end of a 12-month billing period, starting January 1, and ending December 31.

Utility is not obligated to credit Excess Generation to Customer for energy delivered to Utility should Customer fail to meet the requirements of the Interconnection Standards, Interconnection Agreement or become delinquent for payments due to the Village or Utility or not in good standing with the Utility or Village codes and ordinances.

The Utility's level payment option (Level Billing) is unavailable to Customers operating behind the meter Generation Facilities in parallel with the Utility electric system. Any Customer using the Utility Level Billing shall make payment in full for any outstanding balances as a result of the Level Billing prior to commencing operations of Customer's Generation Facility.

Metering

Electricity measured under this Rider shall be measured by suitable metering equipment approved by the Utility. The cost of such metering equipment and any necessary programming or reprogramming of an existing meter shall be at the expense of the Customer. Utility shall maintain ownership of metering equipment. Customer may install his/her own meter in addition to the Utility equipment at Customer's expense.

Contracts

An Interconnection Agreement between the Customer and the Utility shall be required in all cases. There shall be no "grandfathering" pertaining to tariff or rider rates applicable to Customers operating Utility approved customer-owned Generation Facilities unless approved by Utility.

7. MISCELLANEOUS FEES

Reconnection Charge

When a Customer has previously requested a disconnect and desires to be reconnected at the same address, or if a reconnection is made subsequent to a service disconnection made in violation of provisions of these Rules and Regulations, a reconnection charge of fifty (\$50.00) dollars will be made if the reconnection is made during regular business hours. If the reconnection is requested and made after regular business hours, the charge is One Hundred (\$100.00) dollars. Village Administrator or Utility Superintendent will contact Utility Clerk with name and address of customer whom needs billed for all after hour calls.

Late Payment Charge

If a bill payment is not received by the Utility offices or by the Utility's authorized agent on or before the specified payment date of the fifteenth (15th) of the month, a one-time, additional amount of 10% (ten percent) of the amount of the bill will become due and payable as part of the Customer's total obligation.

Returned Check Charge

Whenever a Customer pays a bill by check and the check is returned to the Utility by the Customer's financial institution for lack of sufficient funds in the Customer's account, the fee for returned checks shall be \$30.00 for checks issued for less than or equal to \$300.00, and 10% of the amount of the check for checks over \$300.00.

Meter Test Charge

The Utility shall test the meter at the request of the Customer. If the meter is found to be correct, as defined in Section III, No. 15, the Customer shall pay a fee of fifty dollars (\$50.00) for the testing. Village Administrator or Utility Superintendent will contact Utility Clerk with name and address of Customer whom needs billed for meter testing.

8. EMERGENCY GENERATING EQUIPMENT

The Utility permits the use of emergency generating equipment in the event the Utility's electric power supply is interrupted. Such generating equipment shall be installed strictly in conformance to Utility's specifications. Customer shall install all necessary double throw switching and protective devices so that it will be impossible for Customer to operate his generating equipment in parallel with Utility's system and thereby create a safety hazard on Utility's electric system. The entire generating equipment, wiring and switching devices and companion appurtenances shall at all times conform to Utility's Safety Standards.

Due to the possibility of a fatal accident occurring, Utility reserve the right to DISCONTINUE ITS SERVICE WITHOUT NOTICE if Customer's generating equipment installation does not at all times comply with these provisions and requirements.

9. INTERCONNECTION STANDARDS

[See Exhibit B]

10. SUPPLEMENTARY STANDBY POWER SUPPLIED BY UTILITY

When Customer utilizes other sources of energy supply, and desire that Utility provide back-up or standby capacity and/or service as a 2nd power supply source, such standby service will be furnished only by a Special Contract, setting forth the Minimum and Other Charges to be paid by Customer to Utility; including the Contract Term.

SECTION III - SERVICE AND PHYSICAL PROPERTY

1. SERVICE BOUNDARY

Exclusively, the Utility shall supply all electric service within the corporate limits of Arcanum. Subject to Article XVIII of the Ohio Constitution, the Utility may extend service to Customers outside the corporate limits of the Village.

2. APPLICATION FOR SERVICE

A copy of the schedules and standard terms and conditions under which service is rendered to Customers will be furnished upon request at the Utility Office. The Utility Office shall determine which schedule is applicable to serve Customers. Once an application for service is approved, service will be commenced and a copy of the service agreement will be furnished to the Customer upon request. If a Customer desires delivery of energy at more than one point, a separate agreement shall be required for each separate point of delivery. Service delivered at each point of delivery shall be billed separately under the applicable schedule.

The Customer and/or landlord, after making proper application for service, shall notify the Utility when the customer desires for service to be connected. In no case shall the Customer, Landlord/Customer, Customer's agent, or Customer's employee turn on service. Service shall be turned on, upon the date specified, by an authorized agent of the Utility. If the Utility finds itself unable to establish service on the date specified, it shall notify the Customer as much in advance as possible, and a new date shall be established by mutual agreement.

Where Landlord/Customers make application for service, the tenant(s) name(s) shall be included on the application.

3. SERVICE NOT TRANSFERABLE

No person may commence the use of service until after making application therefore and requesting the Utility to turn on the service in accordance with paragraph (2) above. In the event of violation of this provision, in addition to other rights of the Utility, such person shall be liable for all electricity consumed in the premises. Any successor in interest to a Customer, including without limitation, heirs, executors, administrators, assignees, trustees, guardians, receivers, and conservators, shall be deemed to be a person who must make application for service, provided that any successor in interest whose rights arise from death or incompetence of the Customer shall have thirty (30) days in which to make application.

4. CUSTOMER INDEBTED TO UTILITY

Service will not be supplied to any premises, if at the time of application for service, the applicant is indebted to the Utility for service previously supplied at the same or other premises, until payment of such indebtedness or other arrangement satisfactory to the Utility shall have been made. Unpaid balances of previously rendered final bills may be transferred and included on the initial or subsequent bill for a like service account. Such transferred final bills, if unpaid, will be part of the past due balance of the transferred account and subject to the Utility's collections and disconnection procedures, The transfer of final bills is limited to like service, i.e. residential-to-residential, commercial-to-commercial, The Utility may not transfer a delinquent Commercial Service account to any account where any end user is a Residential Service Customer.

5. SERVICE CONNECTIONS

The Customer assumes all responsibility for property owned by the Customer on Customer's side of the point of delivery, generally anything from the utility easement or road right of way, and will hold the Utility harmless from and against all claims for injury or damage to persons or property occasioned by or in any way resulting from such service or the use thereof on the Customer's side of the point of delivery. The Customer must purchase any size meter socket from the Utility at a cost.

When service is from an overhead system, the Customer's wiring must extend at least 15 inches beyond the building. Where a Customer installs service entrance facilities which have capacity and layout specified by the Utility, and/or install and use certain utilization equipment specified by the Utility, the Utility may provide or offer to own facilities on the Customer's side of the point where service wires attach to the building. All inside wiring must be grounded in accordance with the requirements of the National Electrical Code, or the requirements of any local inspection service authorized by the Village of Arcanum. When a Customer desires that energy be delivered at a point or in a manner other than that designated by the Utility, the Customer shall pay the additional cost of same.

Where service is supplied from an underground distribution system which has been installed at the Utility's expense within the limits of a Village street, the Customer shall make arrangements with the Utility for the Utility to supply and install a continuous run of cable conductors, including necessary ducts from the manhole or connection box to the meter base. The Customer shall pay the cost of installing the portion of cable and duct from the property line to the terminus or cable outside the building. When a real estate developer desires an underground distribution system within the property, which he is developing or when a Customer desires an underground service, the real estate developer or the Customer shall bear the costs for such underground facilities.

6. CONTINUITY OF SERVICE

The Utility shall furnish necessary and adequate service and facilities. The Utility shall not be liable in damages for failure to supply electricity or for interruptions in service, and shall be relieved of its obligation to serve and may discontinue or modify service, if such failure or interruption is due to acts of God or the public enemy, military actions, wars, insurrections, riots, civil disturbances, vandalism, strikes, fires, floods, washouts, explosions, acts or orders of any civil, judicial or military authorities, and without limitation by the foregoing accidents, contingencies or other causes beyond the control of the Utility.

Without incurring any liability therefore, the Utility may also suspend service for such periods as may be reasonably necessary in order to make repairs to or changes in its facilities or other property; provided that the Utility shall keep a record of any interruption of service affecting its entire system, or a major division thereof, including a statement of time, duration and cause of interruption. It will also notify Customers affected by the interruption in advance of the contemplated work, and approximately how long the interruption will last.

Subject to Section IV, Item 10, the Utility shall not discontinue service to any Customer without giving the Customer reasonable notice. Such notice is delivered each month on the reverse side of the monthly utility bill.

In the event that there has been an interruption of service to any premises, however caused, the Utility shall, before restoring such service, ascertain and assure itself that precautions have been taken to prevent accidents.

7. CUSTOMERS LIABILITY

In the event of loss or injury to the property of the Utility through misuse by, or the negligence of, the Customer or agents of the same, the Customer thereof shall pay the cost of the necessary repairs or replacement to the Utility. No one except the agents of the Utility shall be allowed to make any internal or external adjustments of any meter or other piece of apparatus, which shall be the property of the Utility. The Utility shall have the right at all reasonable hours to enter the premises of the Customer for the purpose of installing, reading, removing, testing, replacing or otherwise disposing of its apparatus and property, and the right of entire removal of the Utility's property in the event of the termination of service for any cause.

8. SERVICE NOT TO BE DISTURBED

No Customer shall attach or use any appliance, which may result in the altering of service provided through the Utility's lines. Without prior approval from the Utility, no Customer shall attach or use any appliance or device, which will increase, decrease, or otherwise alter service provided through the Utility's lines to such extent as to interfere at any time with continuous service to other Customers.

9. NO CUSTOMER SHALL SELL TO ANOTHER

Service furnished by the Utility is for the sole use of the Customer and shall not be resold by the Customer except on written permission obtained from the Utility. The renting of premises with the cost of service included in the rental as an incidence of tenancy will not be considered a resale of such services.

10. ACCESS TO PREMISES

Neither the Utility nor its agents or employees shall enter into the interior of any structures on the premises of a Customer without the express permission of such Customer except in cases of emergency. Any agent or employee seeking entrance into or upon the premises of a Customer shall have and show symbols of identification. Any agent or employee seeking entrance to the interior of any structures on the premises shall advise the owner or occupant as to his purpose in doing so. Except in cases of emergency, no Customer shall be obligated to afford entrance or access to his premises except during normal business hours and then only to such parts of the premises as may be the location of Utility-owned property.

11. RIGHT-OF-WAY

The Customer, without reimbursement, will make or procure conveyance to the Utility of right-of-way or right of entry and installed lines satisfactory to the Utility to permit the Utility to cross property between the Utility's lines and the Customer's property at the location where service is to be furnished, including property owned or controlled by the Customer for the Utility's distribution lines, extensions thereof or appurtenances necessary or incidental to the supplying of service to the Customer.

12. METER FURNISHED

The Utility will furnish each Customer with a meter of such size and type as the Utility may determine will adequately serve the Customer's requirements. Such meter shall be and remain the property of the Utility, and the Utility shall have the right to replace it, as the Utility may deem necessary. Customer is responsible to pay the cost for any size meter socket.

13. METER LOCATION

The Utility shall determine the location of the meter. When changes in buildings or arrangements therein render the meter inaccessible or exposed to hazards, the Utility may require the Customer, at the Customer's expense, to relocate the meter setting together with any portion of the Customer's service line necessary to accomplish such relocation.

14. TAMPERING

As used in this section, "Tamper" means to interfere with, damage, or by-pass a utility meter, conduit, or attachment with the intent to impede the correct registration of a meter or the proper functions of a conduit or attachment so as to reduce the amount of utility service that is registered on the meter.

No customer shall tamper with a meter, conduit, or attachment of the Utility that has been disconnected by the Utility. The owner or Customer shall not permit anyone who is not an authorized agent of the Utility to connect or disconnect the Utility's meters, or in any way alter or interfere with the Utility's meters. Proof that a meter, conduit, or attachment of a utility has been tampered with is Prima-facie evidence that the person who is obligated to pay for the service rendered through the meter, conduit, or attachment and is in possession or control of the meter, conduit, or attachment at the time the tampering occurred has caused the tampering with intent to commit a theft offense.

Tampering with or bypassing a meter constitutes a theft offense that could result in the imposition of criminal sanctions. Pursuant to ORC. 4933.18 & 19.

15. METER TEST

All meters shall be tested at such intervals and using such methods as may be prescribed by generally accepted standards. The meter shall be removed from the Customer's premises for such test and a substitute meter, newly tested, shall be installed in its place. After the meter has been tested and before it is returned to service at the same or a different location, it shall be adjusted to be accurate within three percent (3%) plus or minus. If a customer requests for their meter to be tested a \$50 fee will be charged if the meter is found to be correct, refer to Section II Item 7.

The date of inspection shall be stamped on the meter.

16. CORRECT METER

A meter registering between three percent (3%) fast and three percent (3%) slow shall be deemed for all purposes to be registering correctly. A meter registering incorrectly shall be replaced by the Utility at its expense.

17. INTERIOR WIRING

The Customer shall install and maintain, at the Customer's expense, interior wiring from the meter into the said service. The Utility shall have no obligation to install, maintain, or repair said wiring.

18. APPLIANCES

The Customer shall install and maintain all electrical appliances. The Utility shall have no obligation to install, maintain, or repair appliances.

19. INSPECTION OF ALTERED WIRING

It shall be the duty of the Customer to notify the Utility promptly of any additions, changes, alterations, remodeling, or reconstruction affecting service on the Customer's premises.

20. NEW OR EXTENSION OF DISTRIBUTION LINES

Customer will be 100% responsible for the cost of materials for any work performed by Utility from the utility easement or road right-of-way. Customer shall sign a Cost Estimate Agreement before work is performed. As work is performed materials will be billed by Arcanum Water and Light and due within 30 days of date of invoice. If customer fails to pay the invoice within a timely manner (60-90 days per Village Administrator's discretion) Utility will have the right to disconnect service for non-payment until payment is received in full.

SECTION IV - METERING AND BILLING

1. QUANTITY OF SERVICE DELIVERED BY METER

A meter installed by the Utility, which shall be and remain the property of the Utility, will measure electricity. Subject to certain exceptions, enumerated below, consumption shall be determined on the basis of the meter registration and bills shall reflect the consumption so registered.

2. BILLING PERIODS

Bills will be rendered by the Utility to the Customer on a monthly basis. Non-receipt of bills by Customer does not release or diminish the obligation of Customer with respect to payment thereof. Meters are ordinarily read at monthly intervals, but may be read more or less frequently at the Utility's option.

3. ESTIMATED BILL

When the meter is not read, the Utility may estimate the quantity of electricity consumed and render a bill for such quantity.

4. INCORRECT METER READINGS/BILLING

During any period that an incorrect meter reading is established, the meter reading and bills based thereon shall be adjusted by the Utility on the basis of all available information concerning the use of service by the Customer.

Whenever the Utility has overcharged any customer as the result of a meter or metering inaccuracy or other continuing problem under its control, the Utility will, for the period of time that incorrect billings can be established, adjust the meter readings and billings to reflect available information concerning the actual use by the Customer. The reimbursement of overcharges shall take the form of a credit to the Customer's active account or by direct payment to final billed Customer whom no longer lives in the Village.

Except as provided below, any undercharge as a result of a meter or metering inaccuracy will be billed to the Customer. The Utility will, at the Customer's request, attempt to arrange a reasonable payment schedule in the event of undercharge. Should the amount of the adjustment be under bona fide dispute, the Utility shall continue to supply service and the Customer shall continue to pay all amounts billed until a final determination is reached.

Whenever the Utility has undercharged any customer as the result of a meter or metering inaccuracy or other continuing problem under its control, the Utility may only bill the customer for the amount of the unmetered electricity rendered in the three hundred sixty-five (365) days immediately prior to the date the Utility remedies the meter inaccuracy. The Utility, in the first bill to collect the amount for unmetered electric service, shall state the entire amount that it seeks to collect. The maximum portion of the undercharge for the unmetered electricity rendered that may be recovered from the customer in all billing month shall be determined by dividing the amount of the undercharge by twelve (or the corresponding number of adjustable months) and the quotient is the maximum portion of the undercharge that the Utility may recover from the customer in any billing month, in addition to either regular monthly charges of any type or regular level payment amounts billed in accordance with an agreement between the customer and the company. The time period over which the undercharge may be billed shall be twelve (or the corresponding number of adjustable months) consecutive months.

The Utility shall not recover any interest charge, service charge, or fee, whether or not a percentage is utilized for its computation, for the portion of the billings due to incorrect meter readings as provided for under this section.

Nothing in this section shall be construed to prevent the customer from paying an undercharge or any portion thereof in a time shorter than that stated in this section. Nothing in this section shall be construed to prevent the Utility from collecting an undercharge or any portion thereof in a time longer than that stated in this section. This section does not apply to any act that is a theft offense, as defined in Section III of their Rules and Regulations, that involves tampering with utility equipment or theft of utility service, or where a physical act of a customer or its agents causes inaccurate or not recording of the meter reading, or inaccurate or measurement of the electricity rendered.

5. PAYMENT OF BILLS

The customer shall pay bills at the Utility office during regular office hours, via USPS (postmarked by 15th), through financial institutions online bill pay, Automatic Payment Plan (deducted the 10th of the month), Online Payment Provider (fee will apply), or in night depository. Additional payment and billing details can be found in the Utility Billing Policy adopted with Ordinance No. 2017-68.

6. INITIAL AND FINAL METER READINGS

When service is terminated for any reason, the Utility will render a final bill addressed to the Customer's forwarding address, if known, or to the last known address, for the entire balance of the account, including a final reading performed by Utility on the date requested by resident or landowner.

When the Customer begins use of service, an initial bill is normally rendered for the period from the initial date of service to the first regular meter reading date, this period normally being less than thirty (30) days, except no bill will be rendered if the period is less than three (3) days. However, the Customer's usage for that unbilled period will be included and billed in the next month's bill.

7. DEPOSITS

Electric = \$200.00; Electric Heat = \$250.00, Water = \$25.00, Sewer = \$50.00, Refuse = \$25.00.

Deposits are required for all rental properties.

The Utility office shall have a reasonable time in which to ascertain that the obligations of the Customer have been fully performed before being required to return any deposit.

Deposit is kept on the account until a final reading for account is performed, the deposit is then applied to the final bill with any overage being refunded to the customer within thirty (30) Calendar days. There shall be no interest paid or accrued on deposits.

8. CHANGE OF ADDRESS OR PHONE NUMBER OF CUSTOMER

When a Customer changes his address or phone number, he shall give notice of his intent to do so to the Utility prior to the date of change. The Customer shall be responsible for all service supplied to the former premises until such notice has been received and the Utility has had a reasonable time, but not less than three (3) regular business days, to discontinue service.

9. CHANGE OF TENANCY OR OWNERSHIP

At such time as the Utility is notified of a change of tenancy or ownership, the Utility shall make a final meter reading and prepare and mail a final bill. The former Customer is responsible for all service supplied to the premises until such notice has been received and the Utility has had a reasonable time to make a final meter reading. Reasonable time is defined as being three (3) regular business days.

10. TERMINATION PROCEDURES

Customer bills are received on or near the 1st of each month. The customer bill is due on the 15th of each month. If payment is not received by the 23rd of the month termination will take place (if the 23rd falls on a weekend or holiday, termination will take place the first business day following the holiday/ weekend).

*if property is occupied and electric has been disconnected for any length of time the health department will be notified

11. CHARGES AND PAYMENT FOR TEMPORARY SERVICE

In addition to regular payments for electricity used, the Customer shall pay the cost for all material, labor, and other necessary expense incurred by the Utility in supplying service to the Customer at his request or any temporary purpose or use. The Utility may, at its option, require that any Customer for temporary service deposit with the Utility a sum equal to the Utility's estimate of the cost to be incurred by it for temporary service.

After the service has been discontinued and all actual costs determined, any sum deposited by the Customer in excess of the actual cost shall be refunded to him. If the Utility elects to leave in place any or all of the facilities provided, constructed or installed to render such temporary service, an amount of the Customer's deposit shall be returned to the Customer such that the Customer shall only be charged for the facilities not retained.

12. RIGHT TO DISCONTINUE SERVICE

The Utility shall have the right to discontinue service for any of the following reasons or purposes:

- (A) Refusing reasonable access to the Utility's facilities;
- (B) Non-payment of bills for service when bills are due;
- (C) Failure to furnish or maintain a required security deposit; and
- (D) Material violation of any of these Rules and Regulations not otherwise covered in this provision.

The Utility shall have the right, without notice, to discontinue service, and disconnect and remove from the premises of a consumer, the meter and any other property belonging to the Utility for any of the following reasons or purposes:

- (A) Non-use of service;
- (B) Fraudulent representation or practice and theft of service; and
- (C) Whenever deemed necessary by the Utility for safety reasons

13. DISPUTES

Disputes arising from these Rules and Regulations between Customers and the Utility shall be resolved, to the best of its ability, by Utility personnel. The Customer may appeal decisions or actions taken by Utility personnel to the Village Administrator for final resolution.

SECTION V - GENERAL

1. These Rules and Regulations are subject to, and include as part thereof, all orders, rules, and regulations applicable to the Utility from time-to-time issued or established by Arcanum Village Council under its emergency powers.
2. The Utility reserves the right to make such further policies regulating electric service in order to carry out the purposes of these Rules and Regulations as experience may suggest, and as the Utility may deem necessary or convenient in the conduct of its business.
3. These Rules and Regulations shall not apply during periods of shortage in the supply of electricity available to the Utility, to the extent that compliance by the Utility with such Rules and Regulations is precluded by the shortage in supply. During periods of shortage of supply to the Utility, restrictions on new service and curtailment of existing service shall be governed strictly by the Utility.
4. The Utility Committee may establish and maintain various policies concerning electric service, not covered in these Rules and Regulations. Those policies may be amended from time-to-time as needed.

SECTION VI - ELECTRIC CALCULATION WORKSHEETS

Large Power Electric Calculation Worksheet

Distribution Charge:

1. _____ = .03333 (inside or outside) x _____ (usage)

State of Ohio Tax:

2. _____ = .00465 x _____ (usage up to 2,000 kwh)
3. _____ = .00419 x _____ (additional usage to 13,000 kwh)
4. _____ = .00363 x _____ (usage over 15,000 kwh)

Generation and PCA charge:

5. _____ = .08790 (generation charge) x _____ (usage)
6. _____ = _____ (PCA-power cost adjustment) x _____ (usage)

Charges & Fees:

7. \$70.00 = Customer Charge
8. \$1.00 = Electric meter surcharge
_____ = Electric Total as shown on statement (Sum of 1 - 8)

**If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00

Industrial (5/8") Water Calculation Worksheet (per Ord. 2022-50)

1. \$18.50 = Minimum water charge
2. _____ = .0282/cf x _____ (usage)
3. \$1.00 = Water Meter Surcharge (per Ord. 2007-07)
_____ = Water Total as shown on statement (Sum of 1 – 3)

*Note: If outside the Village, minimum charge is \$38.00 instead of \$18.50

Industrial (5/8") Sewer Calculation Worksheet (per Ord. 2011-37)

1. \$26.67 = Minimum sewer charge for usage up to 167 c. ft. *
2. _____ = .0650 x _____ (additional usage to 333 c. ft.)
3. _____ = .0450 x _____ (usage over 334 c. ft.)
_____ = Sewer Usage Total as shown on statement (Sum of 1 – 3)

*Note: If outside the village, minimum sewer charge is \$56.67 instead of \$26.67

Additional Fees (Listed separately on statement)

\$1.00 = Storm Sewer Charge (per Ord. 1995-38)
\$22.00 = Sewer Reduction Charge (per Ord. 2017-24 & 25)

S:/Utility/Forms/Current Welcome Documents/Calculation Sheet-Industrial-02012023

WATER		
Size	Inside	Outside
1"	\$26.50	\$53.00
1 ¼"	\$32.00	\$64.00
1 ½"	\$40.00	\$80.00
2"	\$60.00	\$90.00
3"	\$250.00	\$375.00
(usage 1--999,999) @.0282/cf		
SEWER		
Size	Inside	Outside
1"	\$40.00	\$70.00
334 cu. Ft or more/hundred		\$.0450
1 ¼"	\$46.67	\$76.67
401 cu. Ft or more/hundred		\$.0450
1 ½"	\$56.67	\$85.39
501 cu. Ft or more/hundred		\$.0450
2"	\$73.33	\$103.33
668 cu. Ft or more/hundred		\$.0450
3"	\$108.33	\$138.33
1001 cu. Ft or more/hundred		\$.0450

Commercial Electric Calculation Worksheet

Distribution Charge:

- 1. _____ = 0.03838 (inside) x _____ (usage)
- 2. _____ = 0.03852 (outside) x _____ (usage)

State of Ohio Tax:

- 3. _____ = .00465 x _____ (usage up to 2,000 kwh)
- 4. _____ = .00419 x _____ (additional usage to 13,000 kwh)
- 5. _____ = .00363 x _____ (usage over 15,000 kwh)

Generation and PCA charge:

- 6. _____ = .08790 (generation charge) x _____ (usage)
- 7. _____ = _____ (PCA-power cost adjustment) x _____ (usage)

Charges & Fees:

- 8. _____ = Customer Charge (\$20.00 inside the village; \$22.00 outside the village)
- 9. \$1.00 = Electric meter surcharge
- _____ = Electric Total as shown on statement (Sum of 1 - 9)

**If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00

Commercial (5/8") Water Calculation Worksheet (per Ord. 2022-50)

- 1. \$18.50 = Minimum water charge
- 2. _____ = .0282/cf x _____ (usage)
- 3. \$1.00 = Water Meter Surcharge (per Ord. 2007-07)
- _____ = Water Total as shown on statement (Sum of 1 – 3)

*Note: If outside the Village, minimum charge is \$38.00 instead of \$18.50

Commercial (5/8") Sewer Calculation Worksheet (per Ord. 2011-37)

- 1. \$26.67 = Minimum sewer charge for usage up to 167 c. ft. *
- 2. _____ = .0650 x _____ (additional usage to 333 c. ft.)
- 3. _____ = .0450 x _____ (usage over 334 c. ft.)
- _____ = Sewer Usage Total as shown on statement (Sum of 1 – 3)

*Note: If outside the village, minimum sewer charge is \$56.67 instead of \$26.67

Additional Fees (Listed separately on statement)

\$1.00 = Storm Sewer Charge (per Ord. 1995-38)
\$22.00 = Sewer Reduction Charge (per Ord. 2017-24 & 25)

S:/Utility/Forms/Current Welcome Documents/Calculation Sheet-Commercial--
02012023

WATER		
Size	Inside	Outside
1"	\$26.50	\$53.00
1 ¼"	\$32.00	\$64.00
1 ½"	\$40.00	\$80.00
2"	\$60.00	\$90.00
3"	\$250.00	\$375.00
(usage 1--999,999) @.0282/cf		
SEWER		
Size	Inside	Outside
1"	\$40.00	\$70.00
334 cu. Ft or more/hundred		\$.0450
1 ¼"	\$46.67	\$76.67
401 cu. Ft or more/hundred		\$.0450
1 ½"	\$56.67	\$85.39
501 cu. Ft or more/hundred		\$.0450
2"	\$73.33	\$103.33
668 cu. Ft or more/hundred		\$.0450
3"	\$108.33	\$138.33
1001 cu. Ft or more/hundred		\$.0450

Residential Electric Calculation Worksheet

Distribution Charge:

- 1. _____ = 0.03305 (inside) x _____ (usage)
- 2. _____ = 0.03714 (outside) x _____ (usage)

State of Ohio Tax:

- 3. _____ = .00465 x _____ (usage up to 2,000 kwh)
- 4. _____ = .00419 x _____ (additional usage to 13,000 kwh)
- 5. _____ = .00363 x _____ (usage over 15,000 kwh)

Generation and PCA charge:

- 6. _____ = .08790 (generation charge) x _____ (usage)
- 7. _____ = _____ (PCA-power cost adjustment) x _____ (usage)

Charges & Fees:

- 8. _____ = Customer Charge (\$12.00 inside the village; \$14.00 outside the village)
- 9. \$1.00 = Electric meter surcharge
- _____ = Electric Total as shown on statement (Sum of 1 - 9)

****If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00**

Residential (5/8") Water Calculation Worksheet (per Ord. 2022-50)

- 1. \$18.50 = Minimum water charge
- 2. _____ = .0282/cf x _____ (usage)
- 3. \$1.00 = Water Meter Surcharge (per Ord. 2007-07)
- _____ = **Water Total** as shown on statement (Sum of 1 – 3)

***Note: If outside the Village, minimum charge is \$38.00 instead of \$18.50**

Residential (5/8") Sewer Calculation Worksheet (per Ord. 2011-37)

- 1. \$26.67 = Minimum sewer charge for usage up to 167 c. ft. *
- 2. _____ = .0650 x _____ (additional usage to 333 c. ft.)
- 3. _____ = .0450 x _____ (usage over 334 c. ft.)
- _____ = **Sewer Usage Total** as shown on statement (Sum of 1 – 3)

***Note: If outside the village, minimum sewer charge is \$56.67 instead of \$26.67**

Additional Fees (Listed separately on statement)

\$1.00 = Storm Sewer Charge (per Ord. 1995-38)
\$22.00 = Sewer Reduction Charge (per Ord. 2017-24 & 25)

Residential Electric Calculation Worksheet with Solar Renewable Parallel Generation Rider

Distribution Charge:

- 1. _____ = 0.03305 (inside) x _____ (Utility Delivered + Utility Received Energy, kWh)
- 2. _____ = 0.03714 (outside) x _____ (Utility Delivered + Utility Received Energy, kWh)

State of Ohio Tax:

- 3. _____ = .00465 x _____ (Utility Delivered up to 2,000 kwh)
- 4. _____ = .00419 x _____ (Utility Delivered to 13,000 kwh)
- 5. _____ = .00363 x _____ (Utility Delivered over 15,000 kwh)

Generation and PCA charge:

- 6. _____ = .08790 (generation charge) x _____ (Utility Delivered Energy, kWh)
- 7. _____ = _____ (PCA-power cost adjustment) x _____ (Utility Delivered Energy, kWh)

Charges & Fees:

- 8. _____ = Customer Charge (\$12.00 inside the village; \$14.00 outside the village)
- 9. \$1.00 = Electric meter surcharge

Excess Generation:

- 10. _____ = Excess Generation Credit (\$/kWh) x _____ (Utility Received Energy, kWh)
- _____ = Electric Total as shown on statement (Sum of 1 - 9) minus 10.

**If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00

Commercial Electric Calculation Worksheet with Solar Renewable Parallel Generation Rider

Distribution Charge:

1. _____ = 0.03838 (inside) x _____ (Utility Delivered + Utility Received Energy, kWh)
2. _____ = 0.03852 (outside) x _____ (Utility Delivered + Utility Received Energy, kWh)

State of Ohio Tax:

3. _____ = .00465 x _____ (Utility Delivered up to 2,000 kwh)
4. _____ = .00419 x _____ (Utility Delivered to 13,000 kwh)
5. _____ = .00363 x _____ (Utility Delivered over 15,000 kwh)

Generation and PCA charge:

6. _____ = .08790 (generation charge) x _____ (Utility Delivered Energy, kWh)
7. _____ = _____ (PCA-power cost adjustment) x _____ (Utility Delivered Energy, kWh)

Charges & Fees:

8. _____ = Customer Charge (\$20.00 inside the village; \$22.00 outside the village)
9. \$1.00 = Electric meter surcharge

Excess Generation:

10. _____ = Excess Generation Credit (\$/kWh) x _____ (Utility Received Energy, kWh)
_____ = Electric Total as shown on statement (Sum of 1 - 9) minus 10.

**If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00

Large Power Electric Calculation Worksheet with Solar Renewable Parallel Generation Rider

Distribution Charge:

- 1. _____ = 0.03333 (inside) x _____ (Utility Delivered + Utility Received Energy, kWh)
- 2. _____ = 0.03333 (outside) x _____ (Utility Delivered + Utility Received Energy, kWh)

State of Ohio Tax:

- 3. _____ = .00465 x _____ (Utility Delivered up to 2,000 kwh)
- 4. _____ = .00419 x _____ (Utility Delivered to 13,000 kwh)
- 5. _____ = .00363 x _____ (Utility Delivered over 15,000 kwh)

Generation and PCA charge:

- 6. _____ = .08790 (generation charge) x _____ (Utility Delivered Energy, kWh)
- 7. _____ = _____ (PCA-power cost adjustment) x _____ (Utility Delivered Energy, kWh)

Charges & Fees:

- 8. \$70.00 = Customer Charge
- 9. \$1.00 = Electric meter surcharge

Excess Generation:

- 10. _____ = Excess Generation Credit (\$/kWh) x _____ (Utility Received Energy, kWh)
- _____ = Electric Total as shown on statement (Sum of 1 - 9) minus 10.

**If you have a security light, this fee is also included in your electric charges. Standard light = \$7.00 w/pole \$8.00

Exhibit B

Interconnection Standards for Installation and Parallel Operation of Generation Facilities

**Interconnection Standards for
Installation and Parallel Operation of
Customer-Owned Renewable Electric
Generation Facilities of 150 kW or Less**

Village of Arcanum, Ohio

November 1, 2023

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PART 1. OVERVIEW

1. PURPOSE:

The purpose of this document is to establish standards for eligible customers ("Customer") to interconnect and operate Customer-owned renewable Generation Facilities in parallel with the Village of Arcanum Electric Utility ("Utility") Distribution System.

2. DEFINITIONS:

- a. **AC** – Alternating Current
- b. **Applicable Laws and Regulations** – All duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority, including the Ordinances of the Village of Arcanum and Electric General Rules and Regulations.
- c. **Commercial Operation Date** – The date on which the Generation Facility is operating and is in compliance with the requirements of these Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less as determined by the Utility.
- d. **Customer** – an electric customer interconnected to the Utility Electric Distribution System for the purpose of receiving retail electric service that also owns and operates an approved Generation Facility.
- e. **DC** – Direct Current
- f. **Electric Distribution System** – The Utility 15 kV or less rated facilities and equipment used to provide electric service to customers, including the Customer.
- g. **Excess Generation** – Energy delivered to Utility at any instance when a Customer's renewable Generation Facility produces more energy than is consumed by the Customer at the Metering Point.
- h. **Generation Facility** – For purposes of these Interconnection Standards, the Customer device for conversion of renewable energy to electricity that:
 - 1. Is fueled by solar or wind;
 - 2. Is owned by the Customer;
 - 3. Is located on the Customer's premises;
 - 4. Serves only the Customer's premises (serves no other customers);
 - 5. Is a Qualified Facility as defined herein;
 - 6. Is interconnected with and operates in parallel phase and synchronization with the Electric Distribution System and is in compliance with these Interconnection Standards;

7. Contains a Utility-approved mechanism(s) that automatically disconnects the Generation Facility and interrupts the flow of electricity to the Electric Distribution System in the event that electric service to the Customer is interrupted.
- i. **Generator Meter** – Revenue grade interval meter installed on the Customer-owned Generation Facility. Upon review Utility may require a Generator Meter be installed on or at the Generation Facility.
 - j. **Governmental Authority** – Any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include the Customer or any Affiliate thereof.
 - k. **Harmonic Distortion** – Distortion of the normal AC sine wave typically caused by non-linear loads or inverters.
 - l. **Interconnection Point** – The physical connection of a Generation Facility to the Utility Electric Distribution System.
 - m. **Interconnection Application** – The Customer request to interconnect a new Generation Facility, or to increase the capacity of, or make a material modification to the operating characteristics of an existing Generation Facility that is interconnected with the Electric Distribution System.
 - n. **Interconnection Standards** – Interconnection Standards shall mean all provisions, forms and related documents described in the collective parts of these Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less, or successor document.
 - o. **Metering Point** – The Utility-owned bidirectional electric meter as shown on the one-line diagram accompanying the Customer's Interconnection Application. This meter shall register the flow of electricity to and from the Customer Interconnection Point.
 - p. **Party** – Individually the Utility and the Customer; collectively the "Parties."
 - q. **Prudent Utility Practice** – Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Prudent Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region by the electric utility industry.

- r. **PURPA** – Public Utility Regulatory Policies Act of 1978 and any subsequent amendments or revisions.
- s. **Qualifying Facility** – For purposes of these Interconnection Standards, a Qualifying facility is defined as:
 - i. A customer-owned facility that is either:
 - (a) A small power production facility with a net power production capacity of five (5) MW or less, whose primary energy source is renewable (hydro, wind or solar), biomass, waste, or geothermal resources. In order to be considered a qualifying small power production facility, a facility must meet all of the requirements of 18 C.F.R. §§ 292.203(a), 292.203(c) and 292.204; or
 - (b) A cogeneration facility with a net power production capacity of twenty (20) MW or less, that sequentially produces electricity and another form of useful thermal energy (such as heat or steam) in a way that is more efficient than the separate production of both forms of energy. In order to be considered a Qualifying Facility, a facility must meet all of the requirements of 18 C.F.R. §§ 292.203(b) and 292.205 for operation, efficiency and use of energy output.
 - ii. A Qualifying Facility with a maximum net power production capacity of greater than one megawatt (1 MW) must be certified as a Qualifying Facility at FERC pursuant to 18 C.F.R. 292.207.
- t. **Reasonable Efforts** – With respect to an action required to be attempted or taken by a Party under the Interconnection Agreement, efforts that are timely and consistent with Prudent Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.
- u. **System Upgrades** – Additions, modifications, improvements, and upgrades to the Electric Distribution System or Customer service connection at or beyond the Interconnection Point to facilitate interconnection of the Customer Generation Facility.
- v. **Utility** – Village of Arcanum Electric Utility.
- w. **Village** – The Village of Arcanum, Ohio.
- x. **Voltage Flicker** – A variation of voltage sufficient in duration to allow visual observation of a change in electric light source intensity.

3. **ELIGIBILITY:**

- a. Must be an electric customer with a Customer-owned Utility approved Generation Facility as defined herein that is interconnected with and operates in parallel phase and synchronization with the Electric Distribution System.
- b. Customer's utility account must be in good standing and in compliance with Utility electric rate schedules and Rules and Regulations.

4. **PRE-APPLICATION REPORT:**

An applicant may submit a formal request along with a non-refundable fee of \$300 for a pre-application report on a proposed project at a specific site. The Utility shall provide the pre-application data described in subsection (a) to the applicant within ten business days of receipt of the written request and payment of the \$300 fee.

- a. Total AC capacity (kW) of substation/area bus, bank or circuit based on normal or operating ratings likely to serve the proposed site.
- b. Existing aggregate generation capacity (kWAC) interconnected to a substation/area bus, bank or circuit, which is the online amount of generation, likely to serve the proposed site.
- c. Aggregate queued generation capacity (kWAC) for substation a substation/area bus, bank or circuit, which is the amount of generation in the queue likely to serve the proposed site.
- d. Available capacity (kWAC) of substation/area bus or bank and circuit most likely to serve the proposed site, which is the total capacity less the sum of existing aggregate generation capacity and aggregate queued generation capacity.
- e. Substation nominal distribution voltage and/or transmission voltage, if applicable.
- f. Nominal distribution circuit voltage at the proposed site.
- g. Approximate circuit distance between the proposed site and the substation.
- h. Relevant line section(s) peak load estimate, and minimum load data, when available.
- i. Number and rating of protective devices and number and type (standard, bidirectional) of voltage regulating devices between the proposed site and the substation/area. Identify whether substation has a load tap changer.
- j. Number of phases available at the site.
- k. Limiting conductor ratings from the proposed point of interconnection to the distribution substation.
- l. Based on the proposed Interconnection Point, existing or known constraints such as, but not limited to, electrical dependencies at that location, short circuit interrupting capacity issues, power quality or stability issues on the circuit, capacity constraints, or secondary networks.

The pre-application report need only include pre-existing data. A pre-application report request does not obligate the Utility to conduct a study or other analysis of the proposed generator in the event that data is not readily available. If the Utility cannot complete some of a pre-application report due to lack of available data, the Utility shall provide the applicant with a pre-application report that includes the data that is available. The Pre-application Request can be found in Exhibit 1.

5. INTERCONNECTION REQUEST:

The Customer shall request interconnection of a Generation Facility by completing and submitting to the Utility the attached document entitled "Interconnection Application" together with the processing fee. The Utility may require additional information or clarification to evaluate the Customer Interconnection Request. Interconnection Applications will be reviewed by the Utility in the order in which they are received. The Interconnection Application shall be date-and time-stamped upon receipt. If an Interconnection Application is viewed as incomplete, the Utility will provide notice to the Customer that the Application is not complete, provide a description of the information needed to complete the Application, and include a statement that processing of the Interconnection Application cannot begin until the Interconnection Application is complete.

Any modification to the design or equipment configuration or to the interconnection site of the Generation Facility not agreed to in writing by the Utility and the Customer may be deemed a withdrawal of the Interconnection Request and may require submission of a new Interconnection Request, unless proper notification of each Party by the other and a reasonable time to cure the problems created by the changes are undertaken.

Documentation of site control must be submitted with the Interconnection Request. Site control may be demonstrated through:

- a. ownership of, or a leasehold interest in, or a right to develop a site for the purpose of constructing a Generation Facility;
- b. an option to purchase or acquire a leasehold site for such purpose; or
- c. an exclusivity or other business relationship between Customer and the property owner having the right to sell, lease or grant the Customer the right to possess or occupy the site for such purpose.

The Utility shall assign a queue position to each Interconnection Request based upon the date-and time-stamp of the Interconnection Request. The queue position of each Interconnection Request shall be used to determine cost responsibility for system upgrades.

6. ELECTRIC DISTRIBUTION SYSTEM IMPACT ANALYSIS:

The purpose of the Distribution System Impact Analysis is to determine if the Generation Facility will have an adverse impact on the Electric Distribution System equipment. If the proposed Generation Facility meets all of the requirements in a. through o. below, it will not be necessary to prepare a Feasibility Analysis and the proposed Generation Facility maybe installed without further analysis. After receiving a properly completed Interconnection Application, the Utility will analyze the potential impact of the proposed Generation Facility on the Electric Distribution System and on other Utility customers. Such analyses will be based on Prudent Utility Practice to determine thermal effects, voltage ranges, power quality, system stability, etc., and will include the following:

- a. The Customer Generation Facility's proposed interconnection point is on a radial distribution circuit.
- b. The proposed Generation Facility complies with IEEE 1547 and UL 1741 or successor standards.
- c. The proposed Generation Facility's capacity in aggregation with other generation on the circuit shall not exceed 15 percent (15%) of the line section annual peak demand (kW) as most recently measured at the substation during the previous 12-month period.
- d. The proposed Generation Facility, in aggregation with other generation on the distribution circuit, shall not contribute more than 10 percent (10%) to the distribution circuit's maximum fault current at the point on the primary voltage distribution line nearest the proposed Interconnection point.
- e. The proposed Generation Facility, in aggregation with other generation located on the distribution circuit, may not cause any distribution protective devices and equipment (including, but not limited to, substation breakers, fuse cutouts, and line reclosers, or other customer equipment on the electric distribution system to be exposed to fault currents exceeding 87.5 percent (87.5%) of the short circuit interrupting capability.
- f. No additional Generation Facilities shall be interconnected on a circuit that equals or exceeds 87.5 percent (87.5%) of its short circuit interrupting capability.
- g. No Generation Facility in combination with Utility-owned generation shall be interconnected that would cause reverse power at Utility's transmission interconnection points or cause the Utility to be in conflict with Utility's network transmission provider.
- h. When a proposed Generation Facility is single-phase and is to be interconnected on a center tap neutral on a 240-volt service, its addition shall not create an imbalance between the two sides of the 240-volt service of more than 20 percent of the nameplate rating of the service transformer.
- i. The proposed Generation Facility installation must be certified to pass an applicable non-islanding test, or use reverse power relays or other means to meet IEEE 1547 unintentional islanding requirements.
- j. On a three-phase, three-wire primary electric distribution line, a three- or single-phase generator shall be connected phase-to-phase.
- k. When the Applicant's facility is to be connected to three-phase, four-wire primary distribution lines, a three- or single-phase generator shall be connected line-to-neutral and shall be effectively grounded.
- l. When the proposed Generation Facility is to be interconnected on a single-phase shared secondary line, the aggregate generation capacity on the shared secondary line, including the proposed Generation Facility, shall not exceed 20 kW.
- m. For interconnection of a proposed Generation Facility to the load side of spot or area network protectors, the proposed Generation Facility must utilize an inverter-based

equipment package, and together with the aggregated other inverter-based generation, shall not exceed the lesser of five percent (5%) of a spot or area network's maximum load or fifty (50) kilowatts.

- n. Construction of facilities by the Utility on the Electric-Distribution System is not required to accommodate the customer-owned Generation Facility.
- o. The Generation Facility, in aggregate with other generation interconnected to the transmission side of a substation transformer feeding the circuit where the Generation Facility proposes to interconnect shall not exceed 10 MW in an area where there are transient stability limitations to generating units located in the general electrical vicinity (e.g. 3 or 4 transmission bases from the Interconnection Point).

Feasibility Analysis

If the proposed Generation Facility fails to meet one or more of the above requirements, the Customer may request that the Utility complete an analysis to determine the feasibility of interconnecting the proposed Generation Facility to the Electric Distribution System. The Feasibility Analysis shall include:

1. Initial identification of any circuit breaker short-circuit capability limits exceeded as a result of the interconnection.
2. Initial identification of any thermal overload or voltage limit violations resulting from the interconnection.
3. Initial review of grounding requirements and system protection.
4. A description and nonbinding estimated cost of facilities required to interconnect the Generation Facility to the Electric Distribution System in a safe and reliable manner.

The actual cost of the Feasibility Analysis shall be paid by the Customer. The Utility will provide an estimated cost of the Feasibility Analysis to Customer and Customer shall advance 50% of such estimate to Utility if Customer wants Utility to prepare a Feasibility Analysis. When Feasibility Analysis cost exceeds 50% of the estimated cost, Utility shall bill Customer as such fees are incurred.

System Impact Study

If the Feasibility Analysis concludes that interconnection of the proposed Generation Facility would create an adverse system impact, a System Impact Study is required.

A System Impact Study shall evaluate the impact of the proposed Generation Facility interconnection on the safety and reliability of the Electric Distribution system. The study shall:

1. Identify and detail the system impacts that result if the proposed Generation Facility is interconnected without project or system modifications.

2. Consider the adverse system impacts or potential impacts identified in the Feasibility Analysis.
3. Consider all Generating Facilities that, on the date the System Impact Study is commenced, are directly interconnected with the Electric Distribution System.
4. Consider pending Interconnection Applications of Generation Facilities requesting interconnection to the Electric Distribution System.

The System Impact Study shall consider the following criteria:

1. A load flow study.
2. A short circuit analysis.
3. A stability analysis.
4. Voltage drop and flicker studies.
5. Protection and set point coordination studies.
6. Grounding reviews.

The Utility shall state the underlying assumptions of the Study and share the results of the analyses with the Customer, including the following:

1. Any potential impediments to providing the requested interconnection service.
2. Any required Electric Distribution System Upgrades and the estimated cost and time to engineer and construct said System Upgrades.

The actual cost of the System Impact Study shall be paid by the Customer. The Utility will provide an estimated cost of the System Impact Study to Customer and Customer shall advance 50% of such estimate to the Utility if Customer wants the Utility to prepare a System Impact Study. When System Impact Study cost exceeds 50% of the estimated cost, the Utility shall bill Customer as such fees are incurred.

7. SYSTEM UPGRADES:

The Utility shall not be obligated to make upgrades or improvements to its Electric Distribution System to accommodate the Customer's Generation Facility. Where System Upgrades are required prior to interconnection of the Generation Facility as identified in the System Impact Study, the Utility will provide the Customer with an estimated schedule and the Customer's cost for said System Upgrades.

8. INTERCONNECTION AGREEMENT:

After the Customer and the Utility have identified and mutually agreed on the project scope including the Generation Facility, System Upgrades and estimated costs (if any), the Customer and the Utility shall execute the attached document entitled "Interconnection Agreement." The Interconnection Agreement shall be between the Utility and the Customer and shall not include third parties. Prior to commencement of System Upgrades required to allow interconnection of the Customer-owned Generation Facility, Customer shall deposit with the Utility an amount equal to the estimated cost of said System

Upgrades. See "Section 4. Interconnection Costs" of the Interconnection Agreement (Part 4) for additional information.

9. CODES AND PERMITS:

- a. The Customer shall be responsible for procuring all building, operating, environmental or other permits for the Generation Facility and for the necessary ancillary structures to be installed that are required by any Governmental Authority having jurisdiction.
- b. The Generation Facility and interconnecting equipment shall meet all requirements in "Part 2. Technical Requirements" of these Interconnection Standards.
- c. The construction and facilities shall meet all applicable building and electrical codes.

10. CERTIFICATE OF COMPLETION:

Upon completion of the Generation Facility and prior to the Commercial Operation Date of said Facility, the Customer shall complete and submit a signed copy of the attached document entitled "Certificate of Completion."

11. NORMAL OPERATION:

The Customer may begin Commercial Operation of the Generation Facility upon receipt of written approval from the Utility.

PART 2. TECHNICAL REQUIREMENTS

1. CHARACTER OF SERVICE:

The electric service shall be 60 cycles per second (60 Hertz) alternating current (AC) at supply voltages and number of phases under the applicable rate schedule that would apply if the Customer did not have an interconnected Generation Facility.

2. CODE REQUIREMENTS:

The Generation Facility shall meet all requirements established by the National Electrical Code (NEC), National Electrical Safety Code (NESC), Institute of Electrical and Electronics Engineers (IEEE), Underwriters Laboratories (UL), and the Occupational Safety and Health Administration. Specific applicable codes are shown in Section 8 of this Part 2 below as "Standards for Interconnection, Safety and Operating Reliability."

3. GENERATION FACILITY CONTROL:

The control system of the Generation Facility shall comply with IEEE and UL specifications and standards for parallel operation with the Electric Distribution System and in particular as follows:

- a. Power output control system shall automatically disconnect from the Electric Distribution System upon loss of System voltage and shall not reconnect until System voltage has been restored.
- b. Power output control system shall automatically disconnect from the Electric Distribution System if system voltage fluctuates beyond plus or minus ten percent (10%) and phase angle beyond plus or minus (10%).
- c. Generation Facility shall be operated such that the voltage unbalance attributable to the Generation Facility does not exceed 2.5% at the Interconnection Point.
- d. Generation Facility shall be operated within a power factor range from 0.9 leading to 0.9 lagging. Operation outside this range is acceptable provided the reactive power of the Generation Facility is used to meet the reactive power needs of the electrical loads within the Customer's facility. The Customer shall notify Utility if it is using Generation Facility for power factor correction.
- e. Power output control system shall automatically disconnect from the Electric Distribution System if the generator fails to operate within the operating frequency range of 59.5 – 60.5 Hz.
- f. Inverter output Harmonic Distortion shall meet IEEE and UL standards.
- g. The Generation Facility shall meet applicable IEEE and UL standards concerning impacts to the Electric Distribution System with regard to Harmonic Distortion, Voltage Flicker, power factor, direct current injection and electromagnetic interference.

4. **SYSTEM PROTECTION:**

The owner of the Customer-owned Generation Facility is responsible for providing adequate protection to electric Utility facilities for conditions arising from the operation of generation under all Utility distribution system operating conditions. The owner is also responsible for providing adequate protection to its facility under any Utility distribution system operating condition whether or not its customer owned generator is in operation. Conditions may include but are not limited to:

- a. Loss of a single phase of supply.
- b. Distribution system faults,
- c. Equipment failures,
- d. Abnormal voltage or frequency,
- e. Lightning and switching surges,
- f. Excessive harmonic voltages,
- g. Excessive negative sequence voltages,
- h. Separation from supply,
- i. Synchronizing generation,
- j. Re-synchronizing the Owner's generation after electric restoration of the supply.

5. **FAULT CURRENT DISCONNECTION:**

The Generation Facility shall be equipped with protective equipment designed to automatically disconnect from the Electric Distribution System during fault current conditions and remain disconnected until System voltage and frequency have stabilized.

Circuit Breaker – If a main circuit breaker (or circuit switcher) between the interconnection transformer and the Utility Electric Distribution System is required, the device must comply with the applicable current ANSI Standard from the C37 series of standards that specifies the requirements for circuit breakers, reclosers and interrupting switches.

Terminating Structure – When a new interconnection line is required, the Customer shall provide a suitable structure to terminate the interconnection line. The Customer is responsible for ensuring that terminating structure or substation structural material strengths are adequate for all requirements, incorporating appropriate safety factors. Utility will provide line tension information for maximum dead-end. The structure must be designed for the maximum line tension along with an adequate margin of safety.

Substation electrical clearances shall meet or exceed the requirements of the National Electrical Safety Code. Installation of disconnect switches, bus support insulators and other equipment shall comply with accepted industry practices.

Surge arresters shall be selected to coordinate with the BIL rating of major equipment components and shall comply with recommendations set forth in the applicable current

ANSI Standard C62.2 that specifies the requirements for surge arresters and other surge protection devices.

6. RECLOSING COORDINATION:

The Generation Facility shall be coordinated with Electric Distribution System reclosing devices by disconnecting from the System during de-energized System operation. The Generation Facility shall remain disconnected until System voltage and frequency have stabilized.

7. EXTERNAL GENERATION FACILITY AC DISCONNECT SWITCH:

The Customer shall install an external alternating current (AC) disconnect switch within six (6) feet of the Utility electric meter(s) that is visible and readily accessible to Utility representatives at all times. This switch shall be clearly labeled as "Generator AC Disconnect Switch" or equivalent N.E.C. requirement. The switch shall be capable of being locked in an open position and shall prevent the Generation Facility from supplying power to the Electric Distribution System while in the open position.

8. STANDARDS FOR INTERCONNECTION, SAFETY AND OPERATING RELIABILITY:

The interconnection of a Generation Facility and associated equipment to the Electric Distribution System shall meet the applicable provisions of the following publications or successor standards:

- a. IEEE1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (including use of IEEE 1547.1 testing protocols to establish conformity). The following standards shall be used as guidance in applying IEEE 1574:
 1. IEEE Standard 519-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems
 2. IEC/TR3 61000-3-7 Assessment of emission limits for fluctuating loads in MV and HV power systems
- b. UL 1741 Standard for Inverters, Converters and Controllers for Use in Independent Power Systems
- c. NFPA 70 (2017), National Electrical Code
- d. IEEE Standard 929-2000, *IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems*
- e. IEEE Standard C37.90.1-1989 (R1994), *IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems*
- f. IEEE Standard C37.90.2 (1995), *IEEE Standard Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers*
- g. IEEE Standard C37.108-1989 (R2002), IEEE Guide for the Protection of Network Transformers

- h. IEEE Standard C57.12.44-2000, IEEE Standard Requirements for Secondary Network Protectors
- i. IEEE Standard C62.41.2-2002, *IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits*
- j. IEEE Standard C62.45-1992 (R2002), *IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits*
- k. IEEE Standard 100-2000, IEEE Standard Dictionary of Electrical and Electronic Terms
- l. ANSI C84.1-1995 *Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)*
- m. NEMA MG 1-1998, Motors and Generators, Revision 3
- n. IEEE Standard 2030.2, Guide for the Interoperability of Energy Storage Systems Integrated with the Electric Power Infrastructure (Including use of IEEE 2030.3 testing protocols to establish conformity).

9. ACCESS AND INSPECTION BY UTILITY:

Customer shall provide the Utility reasonable opportunity to inspect the Generation Facility prior to its interconnection and Commercial Operation Date and to witness initial testing and commissioning of the Generation Facility. The Utility may witness any commissioning tests required by IEEE 1547/UL 1741.

Following initial testing and inspection of the Generation Facility and upon reasonable advance notice to Customer, the Utility shall have access at all reasonable times to the Generation Facility to perform on-site inspections to verify that the installation, maintenance and operation of the Generation Facility complies with the requirements of these Interconnection Standards. The Utility cost of such inspection(s) shall be at Utility expense; however, the Utility shall not be responsible for any cost Customer may incur as a result of such inspection(s). Upon written request, Customer shall inform the Utility of the next scheduled maintenance and allow the Utility to witness the maintenance program and any associated testing.

The Utility shall at all times have immediate access to the external Generator AC Disconnect Switch to isolate the Generation Facility from the Electric Distribution System.

10. GENERATION FACILITY OPERATION:

- a. Customer shall install, operate, and maintain, at Customer's sole cost and expense, the Generation Facility in accordance with the manufacturer's suggested practices for safe, efficient and reliable operation of the Generation Facility in parallel with the Electric Distribution System. Customer shall bear full responsibility for the installation, maintenance and safe operation of the Generation Facility. Upon request from the Utility, Customer shall supply copies of periodic test reports or inspection logs.

- b. Customer shall be responsible for protecting, at Customer's sole cost and expense, the Generation Facility from any condition or disturbance on the Electric Distribution System, including, but not limited to, voltage sags or swells, system faults, outages, loss of a single phase of supply, equipment failures, and lightning or switching surges.
- c. Customer agrees that, without prior written permission from the Utility, no changes shall be made to the configuration of the Generation Facility as approved by the Utility, and no relay or other control or protection settings shall be set, reset, adjusted or tampered with, except to the extent necessary to verify that the Generation Facility complies with Utility-approved settings.
- d. Customer shall operate the Generation Facility in such a manner as not to cause undue voltage fluctuations, power quality issues, intermittent load characteristics or to otherwise interfere with the operation of the Electric Distribution System. At all times when the Generation Facility is operated in parallel with the Electric Distribution System, Customer shall operate said Generation Facility in such a manner that no disturbance will be produced thereby to the service rendered by the Utility to any of its other customers or to any electric system interconnected with the Electric Distribution System. Customer understands and agrees that the interconnection and operation of the Generation Facility pursuant to these Interconnection Standards is secondary to, and shall not reduce the safety, quality, or reliability of electric service provided by the Utility.
- e. Customer's control equipment for the Generation Facility shall immediately, completely, and automatically disconnect and isolate the Generation Facility from the Electric Distribution System in the event of a fault on the Electric Distribution System, a fault on Customer's electric system, or loss of a source or sources on the Electric Distribution System. The automatic disconnecting device included in such control equipment shall not be capable of reclosing until after service is restored on the Electric Distribution System. Additionally, if the fault is on Customer's electric system, such automatic disconnecting device shall not be reclosed until after the fault is isolated from the Customer's electric system.

11. RIGHT TO DISCONNECT GENERATION FACILITY:

The Utility shall have the right and authority to disconnect and isolate the Generation Facility without notice at Utility's sole discretion if the Utility believes that any of the following has occurred or is occurring:

- a. Electric service to Customer's premises is discontinued for any reason;
- b. Adverse electrical effects (such as power quality problems) on the Electric Distribution System and/or the electrical equipment of other Utility customers attributed to the Generation Facility as determined by the Utility.
- c. Electric Distribution System emergencies or maintenance requirements

- d. Hazardous conditions existing on the Electric Distribution System as a result of the operation of the Generation Facility or protective equipment
- e. Failure of the Customer to maintain required insurance and to provide the Utility with proof of insurance within ten (10) days of request.
- f. Utility identification of uninspected or unapproved equipment or modifications to the Generation Facility after initial approval.
- g. Recurring abnormal operation, substandard operation or inadequate maintenance of the Generation Facility.
- h. Noncompliance with the obligations under the Interconnection Agreement. In non-emergency situations, the Utility shall give Customer notice of noncompliance including a description of the specific noncompliance condition and allow Customer a reasonable time to cure the noncompliance prior to disconnecting and isolating the Generation Facility.
- i. In the event that the Utility disconnects the Generation Facility for routine maintenance, the Utility shall make reasonable efforts to reconnect the Generation Facility as soon as practicable.
- j. The Customer retains the option to temporarily disconnect its Generation Facility from the Electric Distribution System at any time. Such temporary disconnection shall not constitute termination of the Interconnection Agreement unless the Customer exercises its termination rights under Section 15 of Part 2.

12. RATES AND OTHER CHARGES:

- a. Customer must participate in the applicable Utility Renewable Parallel Generation Rider as a condition of interconnecting a Customer-owned Generating Facility.
- b. Customer must complete and submit to the Utility the Renewable Electric Generation Application For Service in Part 7. The Utility shall not approve a Customer-owned Generation Facility Interconnection Application that does not include a completed Renewable Electric Generation Application For Service.
- c. Terms and conditions of service are contained in the applicable Renewable Parallel Generation Rider and Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less.
- d. Customer must participate in the electric Utility's applicable Renewable Parallel Generation Rider if the customer wishes to receive compensation for any Excess Generation delivered to the Utility.

13. INSURANCE:

Customer shall at its own expense obtain and continuously maintain bodily injury, property damage liability and general liability insurance, without any exclusion for liabilities related to the interconnection undertaken pursuant to the Interconnection Agreement. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable liabilities

and risks related to the Generation Facility, the ownership and operation of such Generation Facility, and the interconnection itself. Such insurance must be obtained from an insurance provider authorized to do business in the State of Ohio. Customer shall provide proof of insurance to the Utility not later than ten (10) days prior to the commercial operation date of the Generation Facility. Utility shall not interconnect the Generation Facility absent submission by the Customer of proof of insurance in accordance with these Interconnection Standards. Thereafter Customer shall provide proof of insurance to the Utility within ten (10) days of such request by the Utility. Utility receipt of proof of insurance does not imply an endorsement of the terms and conditions of said coverage. Customer shall promptly notify the Utility whenever an accident or incident occurs resulting in injuries or damages that are included within the scope of coverage of such insurance, whether or not Customer intends to submit a claim under such policy.

14. LIMITATION OF LIABILITY AND INDEMNIFICATION:

a. Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees and court fees, relating to or arising from any act or omission in its performance of the Interconnection Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall the Utility or the Village be liable for any indirect, special, consequential, or punitive damages.

b. Indemnity

Customer assumes all liability for, and shall indemnify, defend and hold the Utility and the Village harmless from, any and all claims, losses, costs, and expenses of any kind or character, direct or indirect, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, labor costs, and all other obligations by or to third parties arising out of or resulting from the design, construction, operation or maintenance of the Generation Facility, or the Customer's actions or omissions in breach of its obligations under the Interconnection Agreement. Such indemnity shall include, but is not limited to, financial responsibility for: (a) Utility monetary losses; (b) reasonable costs and expenses of defending an action or claim made by a third party; (c) damages related to the death or injury of a third party; (d) damages to Utility property; (e) damages to the property of a third party; (f) damages for the disruption of the business of a third party. The limitations of liability provided in this paragraph do not apply in cases of gross negligence or intentional wrongdoing. If the Utility or the Village incurs any costs as to which the indemnity provided in this section b. applies, the Utility or Village shall invoice the Customer for such costs in writing. Customer shall remit payment to the Utility or the Village, as appropriate, within 45 calendar days of the date of such invoice.

15. EFFECTIVE TERM AND TERMINATION RIGHTS:

The Interconnection Agreement shall become effective when executed by both Parties and shall continue in effect until terminated in accordance with the provisions of this Section. The Interconnection Agreement may be terminated for the following reasons:

- a. Electric service to Customer's premises is discontinued for any reason. If electric service is disconnected for any reason or a change occurs in the account holder, a new Interconnection Application must be submitted to the electric Utility for consideration;
- b. Customer may terminate the Interconnection Agreement at any time by giving the Utility at least sixty (60) days' prior written notice stating Customer's intent to terminate the Agreement at the expiration of such notice period;
- c. the Utility may terminate the Interconnection Agreement at any time following Customer's failure to generate energy from the Generation Facility in parallel with the Electric Distribution System by the later of two (2) years from the date of execution of the Interconnection Agreement or twelve (12) months after completion of the interconnection;
- d. either Party may terminate the Interconnection Agreement at any time by giving the other Party at least sixty (60) days' prior written notice that the other Party is in default of any of the material terms and conditions of the Interconnection Agreement or these Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less, so long as the notice specifies the basis for termination and there is reasonable opportunity for the Party in default to cure the default; or
- e. The Utility may terminate the Interconnection Agreement at any time by giving Customer at least sixty (60) days' prior written notice in the event that there is a change in an applicable rule or statute affecting the Agreement.

Upon termination of the Interconnection Agreement, Customer's Generation Facility shall be permanently disconnected from the Electric Distribution System.

Termination of the Interconnection Agreement shall not relieve either party of its liabilities and obligations, owed or continuing at the time of said termination.

16. TERMINATION OF ANY APPLICABLE PRIOR AGREEMENT:

From and after the date when service commences under the Interconnection Agreement, the Agreement shall supersede any oral and/or written agreement or understanding between the Utility and Customer concerning the interconnection service covered by the Agreement. Any such prior agreement or understanding shall be deemed to be terminated as of the date interconnection service commences under the Interconnection Agreement.

17. FORCE MAJEURE:

For purposes of the Interconnection Agreement, the term "Force Majeure" means any cause or event not reasonably within the control of the Party claiming Force Majeure, including,

but not limited to, the following: acts of God, strikes, lockouts, or other industrial disturbances; acts of public enemies; orders or permits or the absence of the necessary orders or permits of any kind which have been properly applied for from the government of the United States, the State of Ohio, any political subdivision or municipal subdivision or any of their departments, agencies or officials, or any civil or military authority; unavailability of a fuel or resource used in connection with the generation of electricity; extraordinary delay in transportation; unforeseen soil conditions; equipment, material, supplies, labor or machinery shortages; epidemics; landslides; lightning; earthquakes; fires; hurricanes; tornadoes; storms; floods; washouts; drought; arrest; war; civil disturbances; explosions; breakage or accident to machinery, transmission lines, pipes or canals; partial or entire failure of utilities; breach of contract by any supplier, contractor, subcontractor, laborer or materialman; sabotage; injunction; blight; famine; blockade; or quarantine. A Force Majeure event does not include an act of negligence or intentional wrongdoing.

If either Party is rendered wholly or partially unable to perform its obligations under the Interconnection Agreement because of Force Majeure, both Parties shall be excused from whatever obligations under the Agreement are affected by the Force Majeure (other than the obligation to pay money) and shall not be liable or responsible for any delay in the performance of, or the inability to perform, any such obligations for so long as the Force Majeure continues. The Party suffering an occurrence of Force Majeure shall, as soon as is reasonably possible after such occurrence, give the other Party written notice describing the particulars of the occurrence and shall use reasonable efforts to remedy its inability to perform; provided, however, that the settlement of any strike, walkout, lockout or other labor dispute shall be entirely within the discretion of the Party involved in such labor dispute.

PART 3. INTERCONNECTION APPLICATION

Application No. _____

Customer-Owned Generation Facility 150 kW_{AC} or Less

This Application for Interconnection of a Customer-Owned Generation Facility with a design capacity of 150 kW_{AC} or less is considered complete when it provides all applicable and correct information required below. The Utility may require additional information or clarification to evaluate the Interconnection Application.

Processing Fee

☐ A non-refundable processing fee of \$300 plus \$1.00 per kW of the applicants nameplate rating for all kW above 25 kW must accompany this Application.

Customer

Name: _____ Utility Account Number: _____

Address: _____

Town: _____ State: _____ Zip: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

Is the Generation Facility owned by the Customer listed above? ☐ Yes ☐ No

Contact (if different from Customer)

Name: _____

Address: _____

Town: _____ State: _____ Zip: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

Description of Proposed Installation and Operation

Give a general description of the proposed installation, including how you plan to operate the Generation Facility.

Generation Facility Information

Location (if different from above): _____
Energy Source: ☐ Solar ☐ Wind ☐ Battery/Storage ☐ Other _____
Total Nameplate Rating: (kW) _____ (kVA) _____
Generation Facility Capacity: (kW_{AC}) _____ (kVA_{AC}) _____
Generation Facility Output: (kWh-annual) _____
Single Phase _____ Three Phase _____

Inverter Data

Manufacturer: _____ Model: _____
Rate Power Factor (%): _____ Rated Voltage (Volts): _____ Rated Amperes: _____
Inverter Type (square wave, modified sine wave, pure sine wave): _____
Harmonic Distortion: Maximum Single Harmonic (%) _____
Maximum Total Harmonic (%) _____
Note: Attach all available calculations, test reports, and specification sheets

Prime Mover (Solar, Wind, etc.)

Unit Number: _____ Type: _____
Manufacturer: _____
Serial Number: _____

Is the Generation Facility equipment UL 1741 certified and IEEE 1547 compliant? ☐ Yes ☐ No
[Note: Requires a Yes for an application to be considered complete.]

If Yes, attach manufacturer’s documentation and technical specification sheet showing UL 1741 certification

Have all necessary government permits and approvals been obtained for the project prior to this application?
☐ Yes ☐ No [Note: Requires a Yes for an application to be considered complete.]

Utility Accessible Exterior Generation Facility AC Disconnect Switch Provided (Required) ☐ Yes ☐ No
Location of Utility Accessible Exterior Generation Facility AC Disconnect Switch _____

(e.g. Two feet west of electric meter)

Estimated Installation Date: _____ Estimated Commercial Operation Date: _____

List components of the Generation Facility equipment package:

Equipment Type	Certifying Entity
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____

Equipment Installation Contractor: Indicate by owner if applicable ☐

Name: _____
Mailing Address: _____
Town: _____ State: _____ Zip Code: _____
Contact Person (If other than Above): _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Electrical Contractor: (As Applicable) Indicate if not applicable ☐

Name: _____
Mailing Address: _____
Town: _____ State: _____ Zip Code: _____
Contact Person (If other than Above): _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Consulting Engineer: (As Applicable) Indicate if not applicable ☐

Name: _____
Mailing Address: _____
Town: _____ State: _____ Zip Code: _____
Contact Person (If other than Above): _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Provide a one line diagram of the Generation Facility. The one line diagram is a basic drawing of an electric circuit in which one or more conductors are represented by a single line and each electrical device and major component of the installation, from the Generation Facility to the Interconnection Point, are noted by symbols. See attached example.

For this application to be considered complete, adequate documentation and information must be submitted that will allow Utility to determine the impact of the Generation Facility on Utility's Electric Distribution System and to confirm compliance by Customer with the provisions set forth in the Interconnection Standards and other applicable requirements. Typically this should include the following:

1. Single-line diagram of the Customer's system showing all electrical equipment from the generator to the Interconnection Point with Utility's Electric Distribution System.
2. Site Plans showing the physical location of major equipment.
3. Relevant ratings of equipment.
4. If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
5. For Certified equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
6. A description of how the Generation Facility will be operated including all modes of operation.

This application is subject to further consideration and study by Utility and the possible need for additional documentation and information from Customer.

Copies of specifications for all Generation Facility equipment (generators, inverters, protective relays, etc.), and any other applicable drawings or documents necessary for the proper design of the interconnection must be submitted with this Application.

Customer Signature

I hereby certify that, to the best of my knowledge, the information provided in this Interconnection Application is true. I agree to abide by the terms and conditions of the Utility’s Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less and will return the Certificate of Completion to the Electric Utility when the Generation Facility has been installed and prior to commencing operation of said Generation Facility.

Signature: _____ Date: _____

-----Utility Use-----

Contingent Approval to Interconnect the Generation Facility

Interconnection of the Generation Facility is approved contingent upon Customer compliance with all of the terms and conditions of the Utility’s Interconnection Standards and upon return of the Certificate of Completion prior to commencement of Commercial Operation of said Generation Facility.

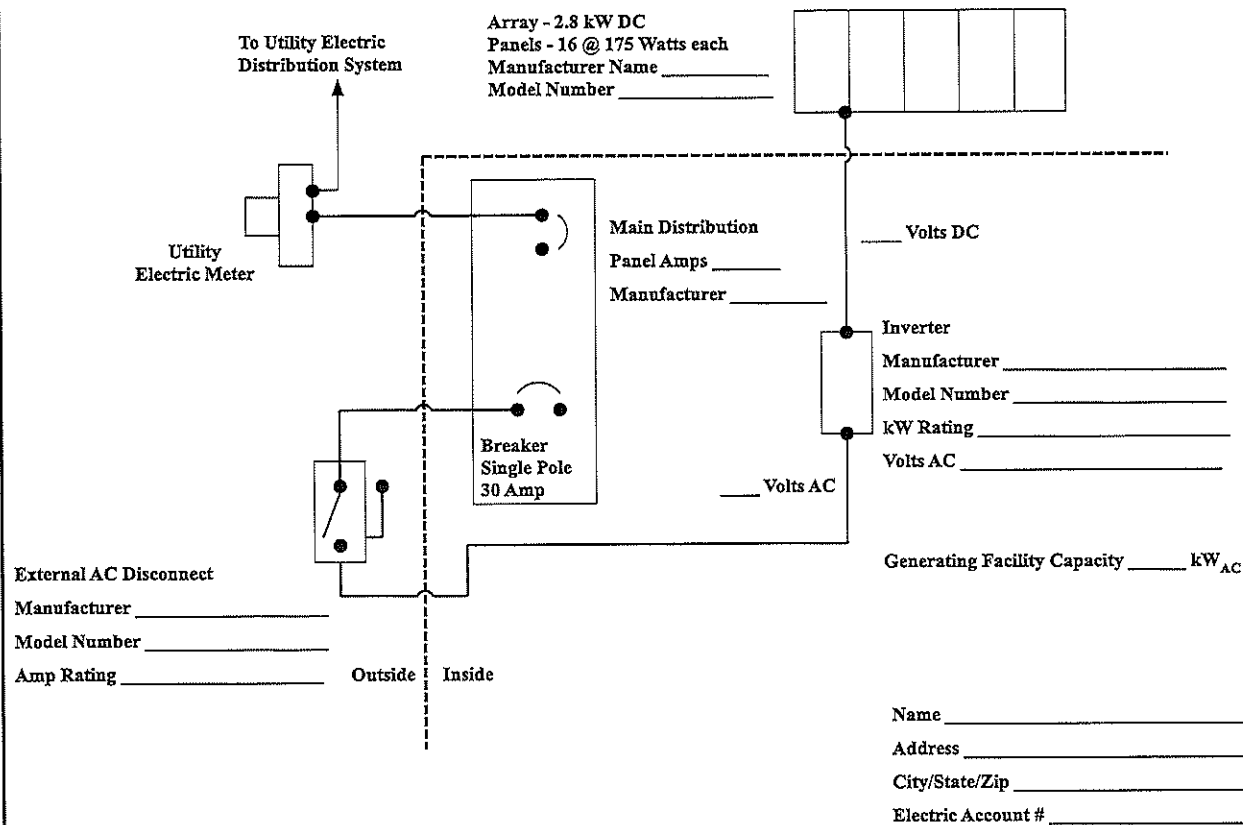
Utility Signature: _____

Title: _____ Date: _____

Application Number: _____

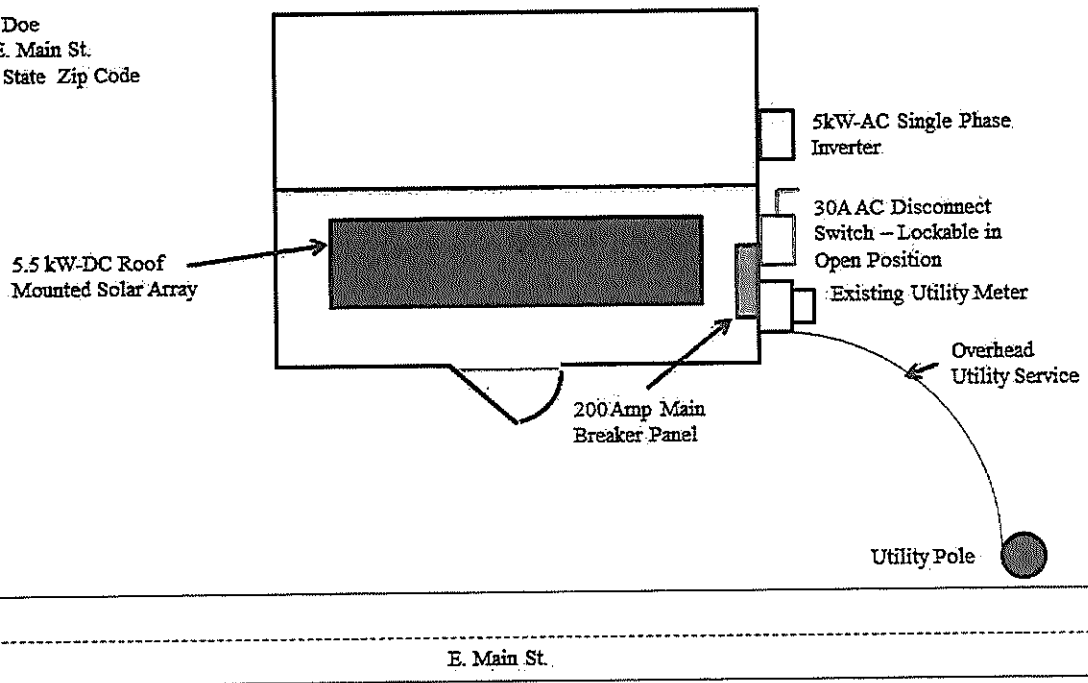
Utility waives inspection/witness test? ☐Yes ☐No Initial _____

One Line Diagram Example



Sample Site Layout

John Doe
111 E. Main St.
City, State Zip Code



PART 4. INTERCONNECTION AGREEMENT

Application No. _____

**Village of Arcanum Electric Utility
Customer-Owned Renewable Electric Generation Facility**

This Agreement, ("Agreement") is entered into by and between the Village of Arcanum Electric Utility ("Utility") and _____, ("Customer"). The Customer electric account subject to this Agreement is Account Number _____. Customer and Utility are referenced in this Agreement collectively as "Parties" and individually as "Party."

Recitals

WHEREAS, the Utility owns and operates an Electric Distribution System serving the Village of Arcanum, Ohio, and surrounding area;

WHEREAS, Customer owns or desires to install, own and operate a Utility-approved renewable, electric Generation Facility with a rated output of _____ kW_{AC}, interconnected with and operating in parallel with the Utility Electric Distribution System;

Agreement

NOW, THEREFORE, in consideration of the covenants and promises herein, the Parties mutually agree as follows:

1. **SCOPE OF AGREEMENT:**
This Agreement governs the terms and conditions under which the Generation Facility will interconnect with and operate in parallel with the Electric Distribution System.
2. **DEFINITIONS:**
The definitions used in this Interconnection Agreement are those found in Part 1, Section 2 of the Utility Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less.
3. **PARALLEL OPERATION:**
Customer shall not interconnect or commence parallel operation of the Generation Facility until written Approval to Energize the Generation Facility under Part 6 of these Interconnection Standards has been provided by the Utility. The Utility shall have the right to have representatives present during initial testing of the Generation Facility and its protective apparatus.

4. INTERCONNECTION COSTS:

Prior to commencement of System Upgrades that are required to allow interconnection of the Customer-owned Generation Facility, Customer shall deposit with the Utility an amount equal to the estimated cost of said System Upgrades. If the actual costs of said System Upgrades are less than the amount deposited by the Customer, the Utility shall refund the difference to the Customer within 60 days of completing said System Upgrades. If the actual costs of said System Upgrades exceed the amount deposited by the Customer, the Utility shall bill the Customer for the difference. Customer agrees to pay the invoiced amount within 30 days of the invoice date. The utility will supply, own, and maintain all necessary meters and associated equipment utilized for billing. In addition, and for the purposes of monitoring customer generation and load, the utility may install at its expense, load research metering. The customer shall supply, at no expense to the utility, a suitable location for meters and associated equipment used for billing and for load research. All costs related to installation of said meter or meters shall be borne by the Customer.

5. INTERRUPTION OR REDUCTION OF DELIVERIES:

The Utility may require the Customer to interrupt or reduce energy deliveries when the Utility determines, in its sole discretion, that curtailment, interruption or reduction is necessary because of maintenance, safety, emergency, Force Majeure or compliance with Prudent Utility Practice. No compensation or credit will be provided to the Customer by the Utility for such interruptions or reductions in energy deliveries.

6. ADVERSE OPERATING EFFECTS:

The interconnection of the Generation Facility shall not reduce the reliability and quality of Utility Electric Distribution System service. This includes, but is not limited to power quality issues such as Harmonic Distortion, Voltage Flicker and frequency deviations. The Utility shall notify the Customer as soon as practicable if, based on Prudent Utility Practice, operation of the Generation Facility causes disruption in or deterioration of service to other Utility electric customers or if operating the Generation Facility could damage the Electric Distribution System. If, after notice, the Customer fails to timely remedy the adverse operating effect, the Utility may disconnect the Generation Facility with no further notice.

7. COMPLIANCE WITH INTERCONNECTION STANDARDS REQUIREMENTS:

Customer has read the Utility Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less, as adopted by the Utility, and agrees to comply with all requirements included therein, including, but not limited to, all insurance and indemnity provisions identified in Paragraphs 13 and 14 of Part 2 therein.

8. **ACCESS TO PREMISES:**
The Utility shall have access to the Customer premises or property and to the Generation Facility's external AC generator disconnect switch as permitted in its policies, Rules and Regulations and Interconnection Standards.
9. **GOVERNING LAW:**
This Agreement shall be interpreted and governed under the laws of the State of Ohio, the Ordinances of the Village of Arcanum, and Utility Electric Rates and Regulations.
10. **DOCUMENTS:**
This Agreement incorporates all other provisions and related documents of these Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less as the same may be amended from time to time.
11. **NOTICES:**
All written notices shall be directed as follows:

Customer:	Village of Arcanum:
Name: _____	Name: _____
Address: _____	Title: _____
Town/State/Zip: _____	Town/State/Zip: _____

12. **TERM OF AGREEMENT:**
This Agreement shall be in effect when executed by the Customer and the Village of Arcanum Electric Utility and shall remain in effect thereafter month to month unless terminated in accordance with the provisions of Section 15 of "Part 2 Technical Requirements".

IN WITNESS WHEREOF, the Parties hereto have caused two originals of this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

Customer:	Village of Arcanum:
_____	_____
Signature	Signature
_____	_____
Print Name	Print Name and Title
_____	_____
Date	Date

PART 5. CERTIFICATE OF COMPLETION

Application No. _____

**Village of Arcanum Electric Utility
Customer-Owned Renewable Electric Generation Facility**

Is the Generation Facility installed, tested and ready for operation? Yes _____ No _____

Customer: _____ Utility Account Number: _____

Address: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

Location of the Generation Facility (if different from above): _____

Has the Generation Facility been installed in accordance with all applicable building codes, permits and ordinances (if applicable)? Yes _____ No _____

Electrician/Service Company:

Name: _____

Address: _____

Town/State/Zip: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

License number: _____

Date electric Utility approved Interconnection Application: _____

Application Number: _____

Inspection:

The Generation Facility has been installed and inspected in compliance with all applicable electrical codes.

A copy of the signed electrical inspection form is attached. ☐ Yes ☐ No
(If inspection form is not attached)

Signature of Inspector: Date

Printed name of Inspector

Insurance:

The Generation Facility is covered with an insurance policy as described in the Technical Requirements, 13 and 14 of Part 2. A copy of proof of insurance is attached. ☐ Yes ☐ No

PART 6. APPROVAL TO ENERGIZE GENERATION FACILITY

Application No. _____

**Village of Arcanum Electric Utility
Customer-Owned Renewable Electric Generation Facility**

The Village of Arcanum Electric Utility, having entered into an Interconnection Agreement for the Generation Facility described in the Application noted by number above and having received a Certificate of Completion with proper documentation of the electrical inspection hereby authorizes the Generation Facility to be energized:

Electric Utility Signature: _____

Title: _____ Date: _____

PART 7. RENEWABLE ELECTRIC GENERATION APPLICATION FOR SERVICE

Application No. _____

Village of Arcanum Electric Utility

Customer Name: _____
Service Address: _____
Town: _____ State: _____ Zip: _____
Utility Account Number: _____
Contact Person: _____
Telephone Number: _____
Address: _____
Town: _____ State: _____ Zip: _____
E-Mail Address: _____

This application is for electric service under the applicable Village of Arcanum Electric Utility (“Utility”) Rider for customer-owned parallel generation. The Customer elects to operate the Generation Facility defined in Utility Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less under the following rider:

Rider – Solar Renewable Parallel Generation ☐

The Generation Facility meets the definitions and requirements of said Interconnection Standards. Total rated output of the Generation Facility is _____ kW_{AC}. Customer acknowledges that he/she has read the applicable rider and agrees to all terms and conditions contained therein, including without limitation those specified in the Interconnection Standards for Installation and Parallel Operation of Customer-Owned Renewable Electric Generation Facilities of 150 kW or Less. Specifically, the Customer understands and agrees that an electric meter or meters capable of registering the flow of electricity in each direction must be in service at the Generation Facility. If a Utility-approved meter with this capability is not in service, Customer must submit a written request to the Utility to acquire, install, maintain, and read an approved meter at the Customer’s cost. All costs related to installation of said meter or meters shall be borne by the Customer.

Customer acknowledges that he/she understands and agrees to the applicable rider language and that rates are subject to change. Customer further acknowledges there shall be no “grandfathering” pertaining to rate schedule and rider rates and language of customers operating Utility approved Customer-owned Generation Facility.

Requested By:

Customer Name

Authorized Signature

Date

Approved By:

Name

Utility Signature

Date

Rejected:

Name

Utility Signature

Reason for Rejection

Date

Exhibit 1

Interconnection Service – Pre-application Request

I am considering the installation of a ____ kW_{AC} Generation Facility that will require interconnection service with Utility’s Electric Distribution System. I am requesting a pre-application report for the site listed below. I understand the pre-application report will only include pre-existing data that is available as of the date it is prepared and that Utility is not obligated to conduct a study or other analysis in the event the data is not readily available. I also acknowledge the data is subject to change and may not be applicable at the time an interconnection service application is submitted. Enclosed is the \$300 nonrefundable pre-application request fee.

Please proceed with preparing the Interconnection Service Pre-application Report.

Account Number: _____

Street Address: _____

Town: _____

Print Customer Name: _____

Customer Signature: _____

Date: _____

Type of Generation: _____

