

# Municipality Generator Interconnection Application

## Aggregated Meters – Single Applicant Application – Part I

**New Application**  
(Meaning no other generator installed)

**Revised Application**  
(Meaning existing interconnection to be modified)

A single customer aggregating multiple meters under the same account or different accounts regardless of physical location and rate class makes new / revised application this date \_\_\_\_\_ to the Municipality of \_\_\_\_\_ to install and operate a generating facility interconnected with the Municipal's utility system.

### **Section 1. Ownership Type:**

Customer Owned and Operated  Customer Leased and Operated  Third Party Owned and Operated

**Applicant must attach a fully executed contract between the vendor and the applicant. The Municipal Electric Utility has the right to promulgate rules and regulations and while we make best efforts to support our customers desire for net-metering the Municipal Electric Utility retains the right to decline any application that does not meet the requirements of this application, municipal tariff, or technical considerations.**

### **Section 2. Host Applicant Information:**

New Construction  Existing Construction   
(Meaning new home or business) (Meaning existing home or business)

Name: \_\_\_\_\_ Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Host Location (if different from Mailing Address): \_\_\_\_\_

Telephone (Daytime): Area Code \_\_\_\_ Number \_\_\_\_\_ (Evening) Area Code \_\_\_\_ Number \_\_\_\_\_

Host Location Age: \_\_\_\_\_ Power Account No. : \_\_\_\_\_

### **Section 3. Generator Technical Information**

Customer Type:  Residential  Non-Residential  Farm

The purpose of interconnection is to Net Energy Meter ("NEM")  Yes  No  
If No, the generator will not be NEM eligible and will be subject to additional tariff requirements.

NEM Applicants Only:

Is Generator under: 25 kW for Residential, 500 kW for Non-Residential, 100 KW for Farm?  Yes  No

Is Generator on a farm and applicant requests a waiver of the 100 kW limit?  Yes  No

Type NEM Qualifying Energy Source:  Solar  Wind  Hydro  Electric Car \_\_\_\_\_ #

Fuel Cell  Anaerobic digestion of organic material

Any approved interconnections already in service at this location: Yes  No

If yes use 3B. 3B is for changing: existing systems (expanding/shrinking) or approved but not yet installed systems.

**3A. Complete for New Generator Installations Only – See 3B. for Modifications**

3A. Generator Equipment and Operation Details (If multiple different products are used please detail each).

Generator Manufacturer:	
Generator Model Name:	
Generator Model Number:	
Generator Output (kW):	
Inverter Manufacturer:	
Inverter Model Name:	
Inverter Model Number:	
Inverter Power Rating (AC Watts):	
Number of Inverters:	
Inverter Efficiency %:	
Intended Inverter Location:	
System Rated Output (Total Generator Output x Inverter Efficiency)	
Customer Consumption (2 year average) from Appendix A consisting of all aggregated meters	
Generator Expected Annual Production (kWh)	

**If Generator is Photovoltaic include as well:**

Module Power Rating (DC @ STC): Should match Generator Output (kW)	
Number of Modules:	
Total Solar Output kW (Modules x Power Rating DC @ STC):	
Array Orientation (degrees): Note the size of each array that has different degrees.	
Array Tilt (degrees): Note the size of each array that has different degrees.	
Solar Shading Analysis May be Required (Solar Pathfinder or equivalent accepted): Solar Shading analysis should include readings at all four (4) points of each continuous array and one in the center. Shading analysis may be used by the utility in consideration of NEM benefits.	

**3B. Complete for Interconnection Modification Only – See 3A. for New Generators**

3B. Generator Equipment and Operation Details (If multiple different products are used please detail each).

Generator Details:	Existing / Approved System	Modification (Changes must detail what the new system will be)
Generator Manufacturer:		
Generator Model Name:		
Generator Model Number:		
Generator Output (kW):		
Inverter Manufacturer:		
Inverter Model Name:		
Inverter Model Number:		
Inverter Power Rating (AC Watts):		
Number of Inverters:		
Inverter Efficiency %:		
Intended Inverter Location:		
System Rated Output (Total Generator Output x Inverter Efficiency)		
Customer Consumption (2 year average) from Appendix A consisting of all aggregated meters		
Generator Expected Annual Production (kWh)		
<b>If Generator is Photovoltaic include as well:</b>		
Module Power Rating (DC @ STC): Should match Generator Output (kW)		
Number of Modules:		
Total Solar Output kW (Modules x Power Rating DC @ STC):		
Array Orientation (degrees): Note the size of each array that has different degrees.		
Array Tilt (degrees): Note the size of each array that has different degrees.		
Solar Shading Analysis May be Required (Solar Pathfinder or equivalent accepted): Solar Shading analysis should include readings at all four (4) points of each continuous array and one in the center. Shading analysis may be used by the utility in consideration of NEM benefits.		

Will a generator disconnect device, accessible to the Municipal Utility, be installed?  Yes  No

**If the Generator Owner elects not to install a manual disconnect device accessible to the Municipal Utility, the Generator Owner assumes all risks and consequences when a service meter must be “pulled” to disconnect the generator thereby also interrupting all utility electric service to the Customer site.**

#### **Section 4. Generator/Equipment Certification**

Generating systems that use inverter technology must be compliant with IEEE 929 and *Underwriters Lab. UL 1741*. Generating systems must be compliant with the Municipality’s Power Delivery’s Technical Considerations Covering Parallel Operations of Customer Owned Generation. **By signing below, the Host Applicant certifies that the installed generating equipment meets the appropriate preceding requirements and can supply documentation that confirms compliance. The Host Applicant also agrees that if any details about the generator system as detailed in Section 3 change, it is the Host Applicant’s sole responsibility to notify the Municipal Utility of those changes by submitting a revised Interconnection Application prior to commencing or completing construction / modification. The Host Applicant agrees to wait to receive approval from the Municipal Utility of any revised Interconnection Application before proceeding with construction. Failure to notify the Municipal Utility in advance of system changes prior to submitting the Final As-Built Details could cause approval delays or denial of interconnection if the revised system is not compliant with NEM and/or Municipal Utility requirements.**

#### **Section 5. Net Energy Metering**

Net Energy Metering is a service to customers which allows customers to generate electricity for their own needs (from an eligible on-site generating facility) and to deliver excess electric into the municipal electric system and then allows the customer to take electric from the municipal electric system when the customer cannot produce the electric required to sustain their own needs.

The customer sited generating system shall be designed to produce no more than 110% of the initial aggregate design load. The initial design load shall be the calculated average of the two previous twelve-month periods of actual aggregate electric usage at the time of installation of electric generating equipment. For new building construction, the initial design load will equate to the electric consumption of units of similar size and characteristics at the time of installation of energy generating equipment as determined appropriate by the Municipal Electric Utility.

#### **Section 6. Applicant Signature**

**The Host Applicant hereby certifies that, to the best of my knowledge, all the information provided in this Part I Interconnection Application is true and correct.**

Signed (Applicant): \_\_\_\_\_ Date: \_\_\_\_\_

Print name: \_\_\_\_\_

**Call your municipal electric service to find out who should receive this Part I Interconnection Application. Make sure to include all application sections (1 – 8) and Appendix A & B with new / revised submissions.**







**Appendix B: Single Owner Aggregation Locations:**

**New Submission**       **Revised Submission**

**Date of Submission** \_\_\_\_\_

The Priority Selection of (1), (2), (3), (4), (5) etc. will be used to specify rank order in which any kwh credits are applied. Once the net requires of each facility are satisfied any remain kwh credits will be applied to the next priority facility. Every time list priority changes a complete revised list must be submitted to the utility. These changes may occur no more often than once annually and with 90 day written notice to the utility.

**Host Facility: Priority: 1**       **New Construction**       **Existing Construction**

Applicant Name: \_\_\_\_\_

Address: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Nighttime Phone: \_\_\_\_\_

Host Facility Age & Type (Single Family, Apt, Business Type): \_\_\_\_\_

Power Account No.: \_\_\_\_\_

Customer Type:     Residential       Non-Residential       Farm (Farm Waiver  )

Any approved interconnections already in service at this location:  Yes  No

If yes please detail: \_\_\_\_\_

Host Applicant Signature: \_\_\_\_\_



**Appendix B: Additional Single Owner Aggregation Locations:**

**Initial Submission**     **Revised Submission**

**Date of Submission** \_\_\_\_\_

The Priority Selection of (1), (2), (3), (4), (5) etc. will be used to specify rank order in which any kwh credits are applied. Once the net requires of each facility are satisfied any remain kwh credits will be applied to the next priority facility. Every time list priority changes a complete revised list must be submitted to the utility. These changes may occur no more often than once annually and with 90 day written notice to the utility. Use this document to revise priorities or change selections.

Directions: Print and complete as many copies of this form as necessary to account for all aggregate meters other than the host.

**Aggregate Facility: Priority:** \_\_\_\_\_      **New Construction**                      **Existing Construction**

Applicant Name: \_\_\_\_\_

Address: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Nighttime Phone: \_\_\_\_\_

Facility Age & Type (Single Family, Apt, Business Type): \_\_\_\_\_

Power Account No.: \_\_\_\_\_

Customer Type:     Residential                       Non-Residential                       Farm

Any approved interconnections already in service at this location:  Yes  No

If yes please detail: \_\_\_\_\_

Quantity of kwh credits attributed to this customer \_\_\_\_\_

Applicant Signature: \_\_\_\_\_

# Municipality Generator Interconnection Application -Short Form

## Part II - Final As-Built Details

A single customer aggregating multiple meters under the same account or different accounts regardless of physical location and rate class at a single premise makes final application this date \_\_\_\_\_ to the Municipality of \_\_\_\_\_ to install and operate a generating facility interconnected with the Municipal's utility system.

### Section 9. Installation Details

Generating System was installed by:       Owner       State Licensed Electrician

Installing Electrician: \_\_\_\_\_ Firm: \_\_\_\_\_ License No.: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: Area Code: \_\_\_\_\_ Number: \_\_\_\_\_

Installation Completion Date: \_\_\_\_\_ Interconnection Date: \_\_\_\_\_  
 (System connected but shall not be active/live.  
 System not approved by Utility at this point.)

Supply certification that the generating system has been installed and inspected in compliance with the local Building/Electrical code of the municipality of \_\_\_\_\_.

Signed (Inspector): \_\_\_\_\_ Date: \_\_\_\_\_  
 (In lieu of signature of Inspector, a copy of the final inspection certificate may be attached)

### Generator Technical Information

The Host Applicant certifies that the system described below is the Final As-Built Design and **does match any revised application submitted by the applicant and approved by the municipality prior to the interconnection date.**

Generator Equipment and Operation Details (If multiple different products are used please detail)

Generator Manufacturer:	
Generator Model Name:	
Generator Model Number:	
Generator Output (kW):	
Inverter Manufacturer:	
Inverter Model Name:	
Inverter Model Number:	
Inverter Power Rating (AC Watts):	

Number of Inverters:	
Inverter Efficiency %:	
Intended Inverter Location:	
System Rated Output (Total Generator Output x Inverter Efficiency)	
<b>If Generator is Photovoltaic include as well:</b>	
Module Power Rating (DC @ STC): Should match Generator Output (kW)	
Number of Modules:	
Total Solar Output kW (Modules x Power Rating DC @ STC)	
Array Orientation (degrees): Note size of each array with different degrees.	
Array Tilt (degrees): Note size of each array with different degrees.	
<b>May be Required: Completed Generator Installation Pictures. Must show whole generator, inverters, electric permits</b>	

**Section 10. Applicant Certifications**

The Host Applicant hereby certifies that, to the best of my knowledge, all the information provided in the Final As-Built Details is true and correct. I agree to install a Warning Label provided by the Municipality on or near my service meter location. I also agree to submit a new or revised Interconnection Application and comply with all governing permitting requirements before adding to in any way or subtract from in any way the current approved electric generating system; including but not limited to expanding, replacing, or removing all or a portion of the current system, adding a new generator type, and/or replacing in anyway the generator system inverter. I further agree to notify the utility in writing through official certified mail at least 30 days before I sell or transfer ownership of the system to another owner to allow the municipal electric utility to update records and determine if the new owner agrees to the generation and interconnection responsibilities associated with the transfer of ownership. A new property owner, of property that up until the time of sale had an approved Interconnection Agreement in place for net-metering, has 30 days to submit a new Interconnection Agreement for net-metering in his/her name. If the new owner fails to submit an Interconnection Agreement within 30 days of property transfer, certain net-metering transfer rights may be discontinued.

Failure for non-compliance to these certifications will be considered a violation of the net-metering agreement and may result in the disconnection of the electric generator at the discretion of the municipal electric utility. The sale or transfer of the electric generator shall not compromise law.

The Host Applicant further certifies and understands that municipal utility review and approval of this application does not constitute an endorsement of actual equipment performance nor does it endorse its benefits or economics.

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Call your municipal electric service to find out who should receive this Part II Interconnection Application. Make sure to include all application sections (9 – 12) with final submissions.

**Section 11. Final Approval or Non-Approval for Interconnection and System Operation**

The Municipal Utility:  Approves  Approves w/conditions  Does NOT Approve

The interconnection of a \_\_\_\_\_ generator as detailed in the Final As-Built Details and located at (installation address) \_\_\_\_\_.

The Municipal Utility has verified the applicant’s average electric consumption in Appendix A.  Yes  No

The Municipal Utility has verified at the time of installation that the installed electric generator is designed to produce no more than 110% of the applicant’s/customer’s average annual electric consumption as calculated in Appendix A.  Yes  No

Signed (Municipal Utility): \_\_\_\_\_ Date: \_\_\_\_\_

Print Name & Title: \_\_\_\_\_

Approval with Conditions: \_\_\_\_\_  
\_\_\_\_\_

Reason of Not Approving: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Approval to connect to the municipal system indicates only that the minimum requirements for a safe proper interconnection have been satisfied. Such approval does not imply that the Generator Owner’s facility meets all federal, state and local standards or regulations.**

**Section 12. Municipal Internal Notifications**

Send Applicant Warning Label for installing on/ near service meter:  Yes

Notify Billing Dept. of Interconnected Generation:  Yes

Notify District Engineering of Interconnected Generation:  Yes

Notify System Protection of Interconnected Generation:  Yes

Notify Municipal Building Department:  Yes

**A copy of the approved Part II Final As-Built Details must be sent to the Delaware Municipal Electric Corporation (“DEMEC”).**  Yes

**DEMEC  
P.O. Box 310  
Smyrna, DE 19977**