# Simplified Interconnection Application

Persons interested in applying for the interconnection of a distributed energy resource (DER) to the Area EPS Operator's (Utility's) distribution system through the Simplified Process are to fill out this Simplified Interconnection Application. This application is to be used for inverter-based DER technologies with the capacity of 20 $kW_{ac}$ or less and is to be filled out completely by the applicant. The application shall be returned to the utility with the requested information and material and a non-refundable $125 application fee.

Proposed DER interconnections to the utility's distribution system submitted under the Simplified Process may be moved into the Fast Track Process if engineering screens are failed during the Simplified Interconnection Application review. The timeline for review of this application is as follows:

- Upon receipt of a Simplified Interconnection Application the utility has ten (10) Business Days to review the application for completeness.
- If the application is deemed incomplete, the utility shall notify the applicant of what additional information or material is required.
- The applicant has five (5) Business Days to return the missing information and/or material or their application may lose its queue position and be deemed withdrawn.
- The utility shall have a total of twenty (20) Business Days to review the Simplified Interconnection Application, not including time waiting for additional information or material necessary for the application to be deemed complete.
- The utility will notify the applicant if the proposed DER system is preliminarily approved for interconnection or if the proposed DER system will need to be moved into the Fast Track Process.

The Simplified Interconnection Application is to be filled out clearly and completely by the applicant or as noted in each section of the application. Sections that are noted with an asterisk (*) are required to be filled out along with **bolded items**.

## Checklist for Submission to Utility

*The items below shall be included with submittal of this Simplified Interconnection Application to the utility. Applications that fail to include all items will be deemed incomplete.*

| | **Included** |
|---|---|
| $125 non-refundable processing fee | ☐ Yes |
| One-line diagram (See Technical Specification Manual ("TSM") for more details) | ☐ Yes |
| Documentation showing site control | ☐ Yes |
| Site diagram showing DER system layout (See TSM for more details) | ☐ Yes |

Possible Additional Documentation (See TSM for more details)

- If requesting the DER export capacity to be limited, include information material explaining the limiting capabilities.
- Schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).
- Documentation that describes and details the operation of protection and control schemes (if applicable).
- Inverter specification sheet(s).

## Applicant *

| | |
|---|---|
| **First and last name:** | |
| **Name on electric service account, if different:** | |
| **Account number:** | **Meter number:** |
| **Mailing address:** | |
| **Email:** | **Phone:** |

## Application Agent *

| | |
|---|---|
| **Is the applicant using an application agent for this application?** ☐ Yes ☐ No | |
| *If Applicant is not using an application agent, please continue to next section.* | |
| Agent name: | |
| Agent's company name: | |
| Email: | Phone: |

## DER Location *

| | |
|---|---|
| **Is the proposed DER system to be located at the applicant's mailing address:** ☐ Yes ☐ No | |
| *If yes, please continue to the next section.* | |
| If no, will the proposed DER system be interconnected to an existing electric service? ☐ Yes ☐ No | |
| Please provide the address or GPS coordinates: | |
| If not an existing service, please state the proposed service entrance size (amps): | |

## General *

| | |
|---|---|
| **Choose one of the following and provide applicable data:** | |
| ☐ Application is for a new DER | |
| Aggregate DER nameplate rating of all generation and storage types ($kW_{ac}$): | |
| ☐ Application is for a capacity addition to an existing DER | |
| Capacity of existing DER ($kW_{ac}$): | Capacity proposed to be added ($kW_{ac}$): |
| ☐ Application is for a "Material Modification" to an existing DER (See M-MIP Process Overview, p. 21) | |
| If Material Modification to existing facility, please describe: | |

**Distributed Energy Resource will be used for what reason? (Check all that apply):**

☐ Net metering ☐ Only to supply power to applicant
☐ Only to supply power to Area EPS

**Installed DER system cost (before incentives): $**

## Distributed Energy Resource Information *

| | | | |
|---|---|---|---|
| **Phase configuration of Distributed Energy Resource(s):** ☐ Single-phase ☐ Three-phase | | | |
| **DER type (Check all that apply and list aggregate capacity of each type):** | | | |
| ☐ Solar photovoltaics | Size ($kW_{ac}$): | ☐ Wind | Size ($kW_{ac}$): |
| ☐ Storage | Size ($kW_{ac}$): | ☐ Other | Size ($kW_{ac}$): |
| Please specify other: | | | |

## Capacity Rating & Export Capacity*

**DER System Capacity Rating**

**Is the DER system's Capacity Rating to produce at the Point of DER Connection (PoC) the same as the Nameplate Rating:** ☐ Yes ☐ No

If no, what is the Capacity Rating of the DER system (*$kW_{ac}$*):

Is the Nameplate Rating being limited to the Capacity Rating by certified inverter settings? ☐ Yes ☐ No

If yes, are all of the DER's inverters being modified for limiting capacity? ☐ Yes ☐ No

If no, please specify which inverters will be modified and which inverters will not:

*Please attach a PDF detailing how the DER system's Capacity Rating is determined.*

**DER System Export Capacity**

**Is the Export Capacity at the Point of Common Coupling (PCC) the same as the Nameplate Rating?** ☐ Yes ☐ No

If no, what is the Export Capacity of the DER system (*$kW_{ac}$*):

**Does the proposed DER system include non-exporting storage?** ☐ Yes ☐ No

If yes, please provide details of the programming settings the storage system uses to be non-exporting.

**Methods of Limiting Export Capacity**

**Is a certified power control system, reverse-power protection device or other device being used with the DER system?** ☐ Yes ☐ No

*Please upload documentation explaining how the proposed system will limit export to the distribution grid.*

## Safeguards/Assurances

**Can the DER system settings for DER system's Capacity Rating or the DER system's Export Capacity be modified by the DER system owner?** ☐ Yes ☐ No

If no, please specify what protocols are in place to prevent the DER system owner from modifying the DER system's capacity limiting settings:

| Inverter Interconnected System Information – non ESS (if applicable) * | |
|---|---|
| **Aggregate inverter rating ($kW_{ac}$):** | **Total number of inverters:** |
| **Phase configuration of inverter(s):** ☐ Single-phase ☐ Three-phase | |
| **Voltage of inverter(s):** | |
| **Inverter manufacturer:** | |
| 1. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 2. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 3. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 4. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |

| Power Control System Information (if applicable) | |
|---|---|
| **PCS Manufacturer:** | |
| **Model no.** | **Certification of Operating Mode** ☐ UL 3141 ☐ UL 1741-PCS |
| **Is the PCS combined with an inverter:** ☐ Yes ☐ No | |
| *If the PCS is combined with an inverter that is listed in the previous section, please skip the rest of this section.* | |
| **What Operating Mode will be used? Select only one Operating Mode**.<br>☐ Import Only ☐ Export Only ☐ No Exchange ☐ Unrestricted Exchanged | |
| If Export Only is checked, please choose from the following:<br>☐ ESS Export is Allowed ☐ Solar Export is Allowed ☐ Any Export is Allowed<br>☐ Limited Export is Allowed (please specify export limit amount in kW): | |

| Energy Storage System Information (if applicable) | |
|---|---|
| **ESS inverter energy rating ($kWh_{ac}$):** | **ESS inverter capacity rating ($kW_{ac}$):** |
| **How will the ESS be used? Select all use cases that apply**.<br>☐ Outage protection/backup power ☐ Demand reduction ☐ No export<br>☐ Time-of-use energy management ☐ Increased self-consumption ☐ Other | |
| Please specify other: | |
| **What operating modes will be used? Select only one operating mode**.<br>☐ Import only ☐ Export only ☐ No exchange ☐ Unrestricted exchanged | |
| If export only is checked, select all that apply.<br>☐ ESS export is allowed ☐ Solar export is allowed<br>☐ Limited export is allowed (please specify export limit amount in kW): | |
| **Is the ESS recharging limited to certain times of the day and/or after a power outage?** ☐ Yes ☐ No<br>If yes, please explain: | |
| *If the ESS shares an inverter that is listed in the previous section, please skip the rest of this section.* | |
| **Aggregate ESS inverter rating ($kW_{ac}$):** | **Total number of ESS inverters:** |
| **Phase configuration of ESS inverter(s):** ☐ Single-phase ☐ Three-phase | |
| **Voltage of ESS inverter(s):** | |
| **ESS inverter manufacturer:** | |
| 1. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 2. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 3. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |
| 4. Model no. | Certification<br>☐ UL 1741-SA ☐ UL 1741-SB ☐ UL 1741-SC |
| Inverter rating ($kW_{ac}$): | Number of units of this model: |

**Additional Documentation**

Please see the Area EPS Operator's Technical Specification Manual (TSM) for requirements that need to be on the one-line and site diagram and for example application documentation.

Please see the Minnesota Municipal Interconnection Process (M-MIP) for additional requirements related to site control and insurance documentation.

## *Interconnection Agreement **

*An approved interconnection applicant is referred to throughout the Municipal Minnesota Interconnection Process as an Interconnection Customer and will be provided one of two interconnection agreement forms from the Process to encapsulate the rights and obligations of the Interconnection Customer and the utility. For facilities that qualify to proceed through the Simplified Process, the Interconnection Customer may elect to utilize the simpler Uniform Contract form. Included in this contract are payment terms for purchase by the utility of excess power generated by the interconnected DER system. The Interconnection Customer has the option, however, to utilize the longer Municipal Minnesota Interconnection Agreement form in lieu of the Uniform Contract.*

| | |
|---|---|
| Would the applicant prefer to utilize the Municipal Minnesota Interconnection Agreement form in lieu of the Uniform Contract form? | ☐ Yes ☐ No |

## *Acknowledgements – Must be completed by applicant **

| | **Initials** |
|---|---|
| An Interconnection Customer has opportunities to request a timeline extension during the interconnection process. Failure by the Interconnection Customer to meet or request an extension for a timeline outlined in the Interconnection Process could result in a withdrawn queue position and the need to re-apply. | |
| Proposed DER interconnections to the utility's distribution system submitted under the Simplified Process may be moved into the Fast Track Process if engineering screens are failed during the interconnection application review. Interconnection Customers would be contacted regarding the next steps in the Fast Track Process. | |

## *Application Signature – Must be completed by Applicant **

I designate the individual or company listed as my Application Agent to serve as my agent for the purpose of coordinating with the Area EPS Operator on my behalf throughout the interconnection process.

_____
**Initials**

I hereby certify that, to the best of my knowledge, the information provided in this Interconnection Application is true and I have appropriate Site Control in conformance with the Interconnection Process. I agree to abide by the terms and conditions for Interconnecting an Inverter-based Distribution Energy Resource No Larger than 20 kW (Simplified Process) and return the Certification of Completion when the DER has been installed.

_____ _____
**Applicant Signature** **Date**

***** Please return completed application and include all documentation *****