

Sample DER Manual Application Guide

Customer Energy Integration Team
December 2024

The package of Interconnection Application documents on [PPL Electric's Application Guide page](#) will include the Interconnection Application, Interconnection Agreement, Attachment A, and Attachment B in the same PDF.

- Attachment B (Certificate of Completion) is NOT needed when the application is submitted for review.

Below are the documents that are required with every application:

- Interconnection Application
- Interconnection Agreement
- Attachment A
- New Primary/Secondary Service Application
- One-Line Diagram
- Site Plan
- Equipment Data Sheets
- Completed W-9 Form

For applications greater than or equal to 500kW, more documents are required:

- Net Energy Metering Rider
- Customer Ownership Attestation
- Parasitic Load Estimate

Please use the following information in tandem with the available information on the [DER Interconnection General Info page](#) to complete your interconnection application.



Interconnection Application

INTERCONNECTION APPLICATION

For a Level 2, 3 or 4 Review – Applicants proposing to install generation approaching 2,000 kW or larger should contact the EDC for guidance in determining the appropriate application process.

(To be filled out and submitted prior to installation)

CUSTOMER GENERATOR CONTACT INFORMATION

Legal Name and Mailing Address of Customer-Generator: (if an Individual, Individual's Name)

Name: Fake Solar Project, LLC
Mailing Address: 2 N 9th Street
City: Allentown State: PA Zip Code: 18101
Contact Person (If other than Above): John Smith
Mailing Address (If other than Above):
Telephone (Daytime): 717-555-1234 (Evening):
Facsimile Number: E-Mail Address: jsmith@fakeemail.com

Alternative Contact Information: (if different from Customer-Generator above)

Name: Smith Contractor, LLC
Mailing Address: 2 N 9th Street
City: Allentown State: PA Zip Code: 18101
Telephone (Daytime): 717-555-1234 (Evening):
Facsimile Number: E-Mail Address: jsmith@fakeemail.com

The Customer-Generator Facility's Information:

Facility Address: 827 Hausman Road
City: Allentown State: PA Zip Code: 18104
Nearest Crossing Street: W Tilghman Street
Electric Distribution Company ("EDC"): Select Utility PPL Electric

Account #: New Service Meter #: New Service
Existing Service Voltage: ??? VAC Existing Service Capacity: ??? Amps 3 Phase
Current Annual Energy Consumption: ??? kWh Estimated In-service Date: 01/01/2027
Do you plan to export power? Yes
If Yes, Estimated Maximum: 3000 kW_{AC} Estimated Gross Annual Energy Production: 4000000 kWh
One-line Diagram Attached (Required): Yes Site Plan Attached (Required): Yes
Energy Source: Solar (PV) Gross Generator Rating: 3000 kW_{AC}
Utility Accessible Disconnect or Lock Box: AC Disconnect near meter
Requested Level of Review: Level 3 review Type of Generation Equipment: Inverter

The legal name of the Customer-Generator goes on the first line. It is **CRUCIAL** that the **SAME** name for the Customer-Generator here is used throughout the application documents.

The name may be the name of your company, or an LLC owned by that company. Whatever name is used here **MUST** remain the same throughout the application.

Account and meter # must indicate "New Service." Do not use TBA/TBD here.

Give an estimated date for requested in-service date.

List the total kW AC nameplate of the proposed renewable generation system.

List the proper Requested Level of Review in accordance with the guide on our [Net Metered Distributed Energy page](#).

Most projects over 2000 kW will fall into Level 3 if they plan to export power.



Interconnection Application

Equipment Installation Contractor: Indicate by owner if applicable ←
Name: Smith Contractor, LLC
Mailing Address: 2 N 9th Street
City: Allentown State: PA Zip Code: 18101
Contact Person (If other than Above): John Smith
Telephone (Daytime): 717-555-1234 (Evening): _____
Facsimile Number: _____ E-Mail Address: jsmith@fakeemail.com

Electrical Contractor: (If Applicable) Indicate if not applicable ←
Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Contact Person (If other than Above): _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Consulting Engineer: (If Applicable) Indicate if not applicable ←
Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Contact Person (If other than Above): _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Application Fee:
The Applicant shall deposit a not refundable application fee which is approved by the Pennsylvania Public Utility Commission and is listed on the EDC's Website. Depending on the level of review and nature of the energy generating equipment, additional study and review fees, as permitted by Pennsylvania Public Utility Commission Regulations may be required and are not a part of the aforementioned application fee.
Application Fee Enclosed: No Amount: \$6350 ←

Customer-Generator Insurance Disclosure:
General Liability Insurance coverage is not required under the Pennsylvania Public Utility Commission's Regulations. However, the Customer still has responsibility and/or liability for any damage(s) or injury(ies) caused by the Customer-Generator Facility and/or the Customer's Interconnection Facilities. The Customer-Generator is advised to consider obtaining appropriate coverage.

List the contact information for the equipment installation contractor, electrical contractor, and consulting engineer on this page.

DO NOT leave these areas blank. If the information is not applicable or you haven't chosen a contractor yet, please fill in the box that says, "Indicate if not applicable."

Fill in the appropriate application fee. It can be calculated using the information on our [Net Metered Distributed Energy page](#).

DO NOT send any payment until you have received an invoice for the application.

PPL Electric strongly encourages payment submission within two weeks of receiving your invoice to ensure timely processing of your application and to reduce potential delays.



Interconnection Application

Customer-Generator Signature:

I hereby certify that to the best of my knowledge, all of the information provided in this Application is accurate.

Legal Name of Customer-Generator: Fake Solar Project, LLC ←

Customer-Generator Signature: John Smith Date: 11/06/2024

Printed Name: John Smith Title: Manager

Use the same Customer-Generator name that was used at the beginning of the Interconnection Application.

The Interconnection Application **MUST BE** signed when the application is submitted to PPL Electric for review.

Customer-Generator Equipment Information for Inverter Based Systems
(May be applicable to a Level 2, 3 or 4 Review)

DC Source information:

Energy Source: Solar (PV)

DC Source Rating: ??? kW_{DC}

Nominal DC Voltage: ??? V_{DC}

Ampere Rating: ??? Amps_{DC}

Inverter Information:

Inverter Manufacturer: Chint Power System (CPS)

Inverter Type: Grid Interactive

Model Number of Inverter: SCH125KTL-DO/US-600 ←

Number of Units: 24

Inverter Rating: 125 kW_{AC}

Voltage Rating: 600 Volts_{AC}

Ampere Rating: 127 Amps_{AC}

Power Factor: 99 %

Number of Phases: Three

Only inverters approved for use within our service territory may be used. You can find the Approved Smart Inverter List [here](#).



Interconnection Agreement

Level 2, 3 or 4 Interconnection Agreement

This Interconnection Agreement ("Agreement") is made and entered into this 6th day of November, 2024, by PPL Electric, ("Electric Distribution Company" or "EDC"), and Fake Solar Project, LLC ("**Customer-Generator**"), each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties". In consideration of the mutual covenants set forth herein, the Parties agree as follows:

- 1) **Scope of Agreement** -- This Agreement sets forth the conditions under which the EDC and the Customer-Generator agree that one or more generating facilities as further described in Attachment A, with an installed nameplate gross capacity of 3000 kW ("Facility" or "Facilities") may be interconnected to the EDC's distribution system. This Agreement is applicable to interconnection requests governed by the rules and Regulations of the Pennsylvania Public Utility Commission.
- 2) **Construction of the Customer-Generator Facility.** The Customer-Generator may

List the **same** Customer-Generator name on the line in the Interconnection Agreement. Please make sure the **entire name** is legible. The document may need to be adjusted to show the entire name.

List the total kW AC nameplate of the proposed renewable generation system. It needs to match the size that was listed on the Interconnection Application.



Attachment A

ATTACHMENT A

DESCRIPTION OF FACILITY

For a Level 2, 3 or 4 Review Interconnection Agreement ¹

CUSTOMER-GENERATOR CONTACT INFORMATION

Legal Name and Mailing Address of Customer-Generator: (if an Individual, Individual's Name)

Name: Fake Solar Project, LLC
Mailing Address: 2 N 9th Street
City: Allentown State: PA Zip Code: 18101
Contact Person (if other than Above): John Smith
Mailing Address (if other than Above):
Telephone (Daytime): 717-555-1234 (Evening):
Facsimile Number: E-Mail Address: johnsmith@fakeemail.com

Alternative Contact Information: (if different from Customer-Generator above)

Name:
Mailing Address:
City: State: Zip Code:
Telephone (Daytime): (Evening):
Facsimile Number: E-Mail Address:

The Customer-Generator Facility's Information:

Facility Address: 827 Hausman Road
City: Allentown State: PA Zip Code: 18104
Account #: New Service Meter #: New Service
Do you plan to export power? Yes, Significant annual export/No net-metering/IPP
If Yes, Estimated Maximum: 3000 kW_{AC} Estimated Gross Annual Energy Production: 4000000 kWh
One-line Diagram Attached (Required): Yes Site Plan Attached (Required): Yes
Energy Source: Solar (PV) Gross Generator Rating: 3000 kW_{AC}
Utility Accessible Disconnect or Lock Box: AC Disconnect near Meter

Most of the information on Attachment A should be the same information provided on the first page of the Interconnection Application.

The same name of the Customer-Generator goes here.

Account and Meter # must indicate "New Service."

The same total kW AC nameplate as listed on the Interconnection Application/Agreement goes here.



Net Energy Metering Rider (NEMR)

PPL EU

Net Energy Metering Rider – Application for Service¹

Customer's Name: Fake Solar Project, LLC

Service Point Address: 827 Hausman Road

City: Allentown State: PA Zip: 18104

Account Number: New Service

Contact Person: John Smith

Telephone Number: 717-555-1234

Address: 2 N 9th Street

City: Allentown State: PA Zip: 18101

Email Address: jsmith@fakeemail.com

The same Customer-Generator name goes here.

Account Number must say "New Service."

This application is for electric service under PPL EU's Net Energy Metering Rider for the above customer ("Customer"). The Customer qualifies for the Net Energy Metering Rider since its generator of electricity uses as its fuel approved under the Alternative Energy Portfolio Standards Act No. 2004-213 ("Act"), solar photovoltaic, solar thermal, wind power, hydropower, geothermal, biologically derived methane gas, biomass energy, coal mine methane, waste coal, demand-side management, municipal solid waste, by-products of the pulping process and wood manufacturing process, integrated combined coal gasification technology or a fuel cell/distributed generation that is located on the Customer's premises and operates in parallel with the Company's transmission and distribution systems and is intended primarily to offset part or all of the Customer's requirements for electricity.

The Customer-generator facility qualifies for the Rider as it is a Solar (PV) type generator, which is one of those qualifying facilities identified in the Rider and restated above. Total rated generating capacity of the Customer-generator to be used and billed under the Net Energy Metering Rider, is 3000 kW (Not to exceed 50 kW residential, 3 MW non-residential and up to 5 MW under certain conditions as specified in the Act).²

List the appropriate type of generator (e.g. Solar, Wind, CHP, etc.) for your project and the total kW AC nameplate.

The Customer acknowledges that it has read the Net Energy Metering Rider and agrees to all terms and conditions contained therein including without limitation those specified in the Company's interconnection tariff and the Company's interconnection requirements. The



Net Energy Metering Rider (NEMR)

customer agrees not to operate its generator in parallel with the Company’s electrical system without specific approval in accordance with the Company’s interconnection requirements.

The Customer understands and agrees that a meter, which is capable of registering the flow of electricity in each direction, must be in service at the facility. If a meter is not in service with this capability, the Customer must submit a written request to PPL EU, and provide reasonable time for installation and the EDC will not charge the Customer generator a fee or other type of charge unless the fee or charges would apply to other customers. (The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.)

The Customer acknowledges and agrees that operation of Customer’s generation facility is intended primarily to offset part or all of Customer’s electricity requirements in accordance with the Net Energy Metering Rider. **Customer further acknowledges and agrees that excessive generation by the Customer’s generation facility, as determined solely by the Company, is cause for disqualification for service under the Net Energy Metering Rider.**

The Net Energy Metering Rider may not be amended in any fashion, except for this highlighted sentence.

It is acceptable to strike the last sentence of this paragraph.

Requested By:
John Smith

Customer Name
John Smith

Authorized Signature
11/06/2024

Date

Approved By:

Company Signature

Name (Typed or Printed)

Date

Printed:



Net Energy Metering Rider - Addendum

Addendum

PPL EU

Net Energy Metering Rider – Application for Service Virtual Meter Aggregation – Additional Account Information ¹

Host Account Customer's Name: Fake Solar Project, LLC

Host Account Number: New Service

Dependent Account Customer's Name: None

Service Point Address: _____

City: _____ State: _____ Zip: _____

Account Number: _____

Distance from Host Account Property: _____

Dependent Account Customer's Name: _____

Service Point Address: _____

The same Customer-Generator name goes here.

Host Account Number must say "New Service."

If there is no Dependent Account Customer Name, write "None." Do not leave that line blank.



New Primary (or Secondary) Service Application

3. Print a copy for your records (Print button)

Type of Request	
<input checked="" type="checkbox"/> New - Permanent (Needs to establish a new bill account and meter) <input type="checkbox"/> New - Temporary (Construction Power etc.) <input type="checkbox"/> Relocation (Relocation of PPL facilities, see page 3) <input type="checkbox"/> Change (To an existing service and/or meter)	Requested In-Service Date: (Date when all connected loads provided in this application will be in service): 01 / 01 / 2027

Construction Status	
<input type="checkbox"/> In-Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Not Yet Started – Date when work is expected to start:	06 / 01 / 2024

Customer Information			
Customer Name:	Fake Solar Project, LLC	Phone #:	717-555-1234
Email:	jsmith@fakeemail.com		
Service Address:	827 Hausman Road	City/State/ZIP:	Allentown, PA 18104
Mailing/Billing Address:	2 N 9th Street, Allentown, PA 18101	Same as Service Address?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
This form can be signed by NEW customers to complete the ratepayer confirmation that is required for a new service. By signing below, the customer is accepting responsibility for monthly electric service billing.			
Signature of Customer:	<i>John Smith</i>	Date:	11 / 06 / 2024
Print Name:	John Smith		

The same Customer-Generator name goes here.

Project Contact Information					
<input checked="" type="checkbox"/> Customer <input type="checkbox"/> General Contractor <input type="checkbox"/> Electrical Contractor	Date Submitted		11 / 06 / 2024		
Contractor ID:	Email:		jsmith@fakeemail.com		
Full Name:	John Smith	Cell Phone:	717-555-1234		
Company:	Smith Contractor, LLC	Address:	2 N 9th Street		
City:	Allentown	State:	PA	Zip:	18101



New Primary (or Secondary) Service Application

Business/Building Information					
Type of Business (Description):	Solar Array		Daily Hours of Operation:	N/A	
Building Square Feet:	N/A		# Of Stories in Building:	N/A	
Will There Be an Addition to the Building?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Will The Existing Point of Delivery (Meter Location) Remain the Same?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Existing Building Sq. Ft:	N/A	Sq. Ft Being Added:	N/A	Total Sq. Ft:	N/A

While many customers submit projects that are solar arrays with limited structures on the property, we still need to see some description of the structure in this box.

Existing Service			
<input checked="" type="checkbox"/> Not applicable (New Service Only)			
PPL Electric Account #:		and/or	Meter #:

Relocation of PPL Electric Utilities Facilities Information			
<input checked="" type="checkbox"/> Not Applicable			
Facilities to be Relocated:			
Are these Transmission facilities (steel poles or associated wires)? : <input type="checkbox"/> Yes <input type="checkbox"/> No			
Relocation Address:			
Reason for Relocation:			
Relocation is at property owner's request:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date cost estimate is needed by:	
Comments:			

There must be a PPL Electric pole/grid number or coordinates of the Point of Interconnection here.

PPL Electric pole/grid numbers are formatted as the following: XXXXX(S/N)XXXXX.
(ex. 60925S46595)

Decimal format is preferable for coordinates.
(This 40.591982, -75.555310, not 40°35'31.1"N 75°33'19.1"W)

Primary Service Information			
Nearest PPL Electric Utilities Pole/Grid #: (Latitude/Longitude is also acceptable)	40.591982, -75.555310		
Example of PPL Electric's pole/grid number: 12345N54321 or 56789S98765			
New Service Size (Amps):	4000	AIC Required (Fault Current)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> 3-Phase, 7,200/12,400 Volts, 4-Wire		<input type="checkbox"/> 3-Phase, 69,000 Volts or Higher (Transmission)	
<input type="checkbox"/> 1-Phase, 7,200 Volts		<input type="checkbox"/> Alternate Supply Requested (Charges will apply)	



New Primary (or Secondary) Service Application

Connected Electrical Load		
Please indicate all connected loads in the table below. If information is missing or incomplete, your application will not be processed and could cause delays in providing service to your facilities. PPL will perform design based on provided loads not total transformation.		
Load Description	Total Net Load Addition	Equipment Description
Lighting - Indoor	kW	
Lighting - Outdoor	kW	
Motors (excludes HVAC)	HP	
Miscellaneous (*Specify Equipment)	kW	
Cooking	kW	
Water Heating / Tankless Water Heater	kW	
Process Heating	kW	
Electric Vehicle Chargers (See Page 5)	kW	
Refrigeration	kW	
Space Heating	kW	
Air Conditioning	TONS	
Welders (Supply Spec Sheets)	kW	
Other (Specify Equipment)	3000 kW	125 kW x 24 Solar Inverters

While inverters aren't usually considered "load," we need to see a description of the equipment that will be connected to the system provided here.

List the total kW AC nameplate and the size and number of inverters on this line.



Customer Ownership Attestation

Another requirement in the DER interconnection process is the submission of a dated customer ownership attestation document. This document should be on company letterhead and describe who will own the proposed DER system. Please see example language below. **Additional documentation may be requested.**

*I, **Name**, am the **Position for Business Entity**, which has entered into a ****generation type** installation contract with Developer (Customer)** to design and build a **X,XXX kW AC** sized ****generation type**** project located at **Location**.*

*I confirm that **Project Name, LLC** will be the owner and operator of the ****generation type**/distributed generation system that will interconnect to the distribution grid.***



Useful Links

- [PPL Electric Rules for Electric Meter & Service Installations \(REMSI\)](#)
- [DER Interconnection Generation Info](#)
- [DER Interconnection Application Guide](#)
- [DER Checklist](#)
- [PPL Approved Smart Inverters](#)
- [DER FAQs](#)