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File #: 2507-140056

May 9, 2014

VIA ELECTRONIC FILING

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor North
P.O. Box 3265
Harrisburg, PA 17105-3265

**Re: Petition of PPL Electric Utilities Corporation for a Declaratory Order To Resolve
Uncertainty Regarding Whether Certain Applicants Qualify As a “Customer-
Generator” Eligible To Participate in Net Metering
Docket No. P-2014-**

Dear Secretary Chiavetta:

Enclosed please find the Petition of PPL Electric Utilities Corporation for a Declaratory Order To Resolve Uncertainty Regarding Whether Certain Applicants Qualify As a “Customer-Generator” Eligible To Participate in Net Metering. Copies will be provided as indicated on the Certificate of Service.

Respectfully submitted,

Christopher T. Wright

CTW/skr
Enclosure

cc: Certificate of Service

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing has been served upon the following persons, in the manner indicated, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

VIA FIRST CLASS MAIL

Bureau of Investigation & Enforcement
Commonwealth Keystone Building
400 North Street, 2nd Floor West
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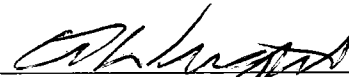
Office of Consumer Advocate
555 Walnut Street
Forum Place, 5th Floor
Harrisburg, PA 17101-1923

Office of Small Business, Advocate
300 North Second Street, Suite 1102
Harrisburg, PA 17101

William Napikoski
Mid-Atlantic Green Builders, LLC
51 Old 22 Road
Lewistown, PA 17044

David N. Hommrich
Sunrise Energy, LLC
141 Evandale Drive
Pittsburgh, PA 15220

Date: May 9, 2014



Christopher T. Wright

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Petition of PPL Electric Utilities :
Corporation for a Declaratory Order : P-2014-_____
To Resolve Uncertainty Regarding :
Whether Certain Applicants Qualify :
As a “Customer-Generator” Eligible :
To Participate in Net Metering :

**PETITION OF
PPL ELECTRIC UTILITIES CORPORATION**

TO THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PPL Electric Utilities Corporation (“PPL Electric”) hereby petitions the Pennsylvania Public Utility Commission (“Commission”), pursuant to 66 Pa.C.S. § 331(f) and 52 Pa. Code § 5.42, and respectfully requests that the Commission issue a declaratory order to resolve uncertainty regarding whether certain net metering applicants qualify as a “customer-generator” eligible to participate in net metering. On February 20, 2014, the Commission issued a Proposed Rulemaking Order that raised substantial uncertainty regarding the requirements to qualify as a “customer-generator” eligible to participate in net metering. *See Implementation of the Alternative Energy Portfolio Standards Act of 2004*, Docket No. L-2014-2404361 (Proposed Rulemaking Order entered February 20, 2014). Since the date of the Proposed Rulemaking Order, PPL Electric has received several net metering requests for alternative energy systems that may not be eligible for net metering under the Proposed Rulemaking Order. PPL Electric herein seeks a declaratory order to resolve the uncertainty regarding whether these net metering applicants qualify as “customer-generators” eligible to participate in net metering. In support thereof, PPL Electric states as follows:

I. INTRODUCTION

1. This Petition is filed by PPL Electric, a public utility that provides electric distribution, transmission, and provider of last resort services in Pennsylvania subject to the regulatory jurisdiction of the Commission.

2. PPL Electric’s address is PPL Electric Utilities Corporation, Two North Ninth Street, Allentown, Pennsylvania 18101.

3. PPL Electric’s Attorneys are:

Paul E. Russell (Pa. Bar I.D. 21643)
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PPL Electric’s attorneys are authorized to receive all notices, filings, and communications regarding this Petition.

4. PPL Electric furnishes electric service to approximately 1.4 million customers throughout its certificated service territory, which includes all or portions of twenty-nine counties and encompasses approximately 10,000 square miles in eastern and central Pennsylvania. PPL Electric is a “public utility” and an “electric distribution company” (“EDC”) as defined in Sections 102 and 2803 of the Pennsylvania Public Utility Code, 66 Pa.C.S. §§ 102, 2803.

5. The Alternative Energy Portfolio Standards Act (“AEPS Act”) became effective February 28, 2005, 73 P.S. §§ 1648.1 – 1648.8 and 66 Pa.C.S. § 2814. The AEPS Act includes, among other things, two key mandates: greater reliance on alternative energy sources in serving

Pennsylvania's retail electric customers, and the opportunity for customer-generators to interconnect and net meter small alternative energy systems. The Pennsylvania General Assembly charged the Commission with implementing and enforcing these mandates, with the assistance of the Pennsylvania Department of Environmental Protection. 73 P.S. §§ 1648.7(a) and (b).

6. Consistent with the requirements of the AEPS Act, the Commission adopted net metering regulations in 2008. 52 Pa. Code §§ 75.11, *et seq.* As required by the Commission's net metering regulations, Pennsylvania EDCs, including PPL Electric, adopted net metering tariff provisions.

7. Under the AEPS Act and the implementing regulations promulgated by the Commission, net metering is available to a customer-generator when any portion of the electricity generated by the alternative energy system is used to offset part or all of the customer-generator's requirements for electricity. PPL Electric's current net metering tariff provision similarly provides that net metering is available only to installations where any portion of the electricity generated by the renewable energy generating system offsets part or all of the customer-generator's requirements for electricity.

8. On February 20, 2014, the Commission issued its Proposed Rulemaking Order at Docket No. L-2014-2404361 to provide clarity and guidance in accordance with the intent of the AEPS Act. *See* Proposed Rulemaking Order, Slip Op. at p. 5. Pertinent to this Petition, the Proposed Rulemaking Order requires customer-generators to have load, independent of the alternative energy system, behind the meter and point of interconnection of the alternative energy system in order to be eligible to participate in net metering. The Proposed Rulemaking Order

stated that this requirement makes explicit what was previously implied in the AEPS Act and the Commission's net metering regulations. *See* Proposed Rulemaking Order, Slip Op. at p. 11.

9. As more fully described below, since the date the Commission issued its Proposed Rulemaking Order, PPL Electric has received four net metering applications for alternative energy systems that do not appear to have load that is independent of the proposed alternative energy systems. PPL Electric also anticipates that other alternative energy systems are likely to submit net metering applications pending final resolution of the Proposed Rulemaking Order.

10. PPL Electric herein seeks a declaratory order to resolve the uncertainty regarding whether these net metering applicants qualify as "customer-generators" eligible to participate in net metering.

II. LEGAL STANDARD

11. Section 331(f) of the Code, 66 Pa.C.S. § 331(f), and the Commission's regulations at 52 Pa. Code § 5.42 provide that the Commission may issue a declaratory order to terminate an actual controversy or to remove uncertainty.

12. Declaratory judgment is a means to declare rights, status, and other legal relations. *See* 42 Pa.C.S. §§ 7532, 7533. Declaratory judgment "is to be liberally applied to afford relief from uncertainty and insecurity." *Township of Derry v. Pa. Dep't of Labor & Industry*, 593 Pa. 480, 485, 932 A.2d 56, 59 (2007) (citing 42 Pa. C.S. § 7541(a)).

13. In order to establish a claim for declaratory relief, a petitioner "must allege an interest by the party seeking relief which is direct, substantial and present ... and must demonstrate the existence of an actual controversy related to the invasion or threatened invasion of one's legal rights." *Council 13, AFSCME v. Cmwlth.*, 954 A.2d 706, 716 (Pa. Cmwlth. 2008) (quotation omitted). Stated otherwise, "declaratory judgment must not be employed to determine rights in anticipation of events which may never occur or for consideration of moot cases or as a

medium for the rendition of an advisory opinion which may prove to be purely academic.” *Id.* (quoting *Gulnac v. South Butler County School District*, 526 Pa. 483, 488, 587 A.2d 699, 701 (1991)).

14. Given the substantial uncertainty regarding the requirements to qualify as a “customer-generator” eligible to participate in net metering, it is entirely unclear whether the existing and expected net metering applications received from alternative energy systems that do not appear to have independent, non-generational load are eligible for net metering.

15. PPL Electric submits that it has an immediate, substantial, and direct interest in the resolution of this question regarding whether these net metering applicants qualify as a “customer-generator” eligible to participate in net metering.

III. DISCUSSION

16. The Commission’s pending Proposed Rulemaking Order raises substantial uncertainty regarding the requirements to qualify as a “customer-generator” eligible to participate in net metering. Specifically, in its Proposed Rulemaking Order, the Commission has stated that the AEPS Act and the existing net metering regulations require, among other things, that an alternative energy system meet the following conditions to qualify as a “customer-generator” eligible to participate in net metering:

The first condition requires the customer-generator to have load, independent of the alternative energy system, behind the meter and point of interconnection of the alternative energy system. To be independent, the electric load must have a purpose other than to support the operation, maintenance or administration of the alternative energy system. This provision makes explicit what was previously implied in the AEPS Act and the regulations.

This requirement is implied in the AEPS Act definition of net metering where it states that net metering is the means of measuring the difference between the electricity supplied by an electric utility and the electricity generated by the customer-generator when any portion of the electricity generated by the

alternative energy generating system is used to offset part or all of the customer-generator's requirements for electricity. If there is no independent load behind the meter and point of interconnection for the alternative energy system, by definition, the customer-generator has no requirement for electricity to offset. In addition, this requirement is implied in the current regulations, where it states that EDCs shall offer net metering to customer-generators that generate electricity on the customer-generator's side of the meter. Again, there would be no need for a customer's electric meter if there was no independent demand for electricity.... Thus, to preclude utilities, such as merchant generators, from qualifying for net metering, we require load independent of the generation facility. To do otherwise would be contrary to the definition of a customer-generator that only includes nonutility owners and operators of alternative energy systems.

See Proposed Rulemaking Order, Slip Op. at p. 11.

17. On or about February 15, 2014, Mid Atlantic Green Builder, LLC submitted a net metering application for a new photovoltaic alternative energy system to be constructed in Lykens, Pennsylvania 17048 (hereinafter, the "Lykens Alternative Energy System"). Mid Atlantic Green Builder, LLC is listed as the "customer-generator" on the net metering application for the Lykens Alternative Energy System. Mid Atlantic Green Builder, LLC currently is not a distribution customer of PPL Electric. Further, the address provided for Mid Atlantic Green Builder, LLC is located outside of PPL Electric's service territory. As a result, it is unclear from the net metering application who will be the customer and, moreover, whether the Lykens Alternative Energy System would be subject to the 110% size limitation for third-party owned and operated systems. *See Net Metering – Use of Third Party Operators*, Docket M-2011-2249441 (Final Order entered March 29, 2012).

18. The Lykens Alternative Energy System will have a nameplate capacity of 3 megawatts ("MW"), which will produce approximately 4.5 million kilowatt hours ("kWh") annually. There currently is no electric load at the site proposed for the Lykens Alternative Energy System. Based upon the Lykens Alternative Energy System net metering application, the

Lykens Alternative Energy System is projected to have a daytime summer and winter peak demand of 4.5 kW and 5 kW, respectively. The load at the Lykens Alternative Energy System includes indoor and outdoor lighting, material handling, a microwave, water heating, refrigeration, a heat pump, security, and other miscellaneous load. Upon information and belief, the purpose of the load at the Lykens Alternative Energy System is to support the operation, maintenance, or administration of the alternative energy system. True and correct copies of the Lykens Alternative Energy System net metering application materials and application for new service are attached hereto as “**Appendix A.**”

19. On or about March 11, 2014, Sunrise Energy, LLC submitted a net metering application for a new photovoltaic alternative energy system to be constructed in Beavertown, Pennsylvania 17813 (hereinafter, the “Beavertown Alternative Energy System”). Sunrise Energy, LLC is listed as the “customer-generator” on the net metering application for the Beavertown Alternative Energy System. Sunrise Energy, LLC currently is not a distribution customer of PPL Electric. Further, the address provided for Sunrise Energy, LLC is located outside of PPL Electric’s service territory. As a result, it is unclear from the net metering application who will be the customer and, moreover, whether the Beavertown Alternative Energy System would be subject to the 110% size limitation for third-party owned and operated systems. *See Net Metering – Use of Third Party Operators*, Docket M-2011-2249441 (Final Order entered March 29, 2012).

20. The Beavertown Alternative Energy System will have a nameplate capacity of 1.95 MW, which will produce approximately 2.9 million kWh annually. There currently is no electric load at the site proposed for the Beavertown Alternative Energy System. Based upon the Beavertown Alternative Energy System net metering application, the Beavertown Alternative

Energy System is projected to have a daytime summer and winter peak demand of 0 kW. The load at the Beaverton Alternative Energy System includes outdoor lighting and security. Upon information and belief, the purpose of the load at the Beavertown Alternative Energy System is to support the operation, maintenance or administration of the alternative energy system. True and correct copies of the Beavertown Alternative Energy System net metering application materials and application for new service are attached hereto as “**Appendix B.**”

21. On or about March 30, 2014, Sunrise Energy, LLC submitted a net metering application for a new photovoltaic alternative energy system to be constructed in Berwick, Pennsylvania 18603 (hereinafter, the “Berwick Alternative Energy System”). Sunrise Energy, LLC is listed as the “customer-generator” on the net metering application for the Berwick Alternative Energy System. Sunrise Energy, LLC currently is not a distribution customer of PPL Electric. Further, the address provided for Sunrise Energy, LLC is located outside of PPL Electric’s service territory. As a result, it is unclear from the net metering application who will be the customer and, moreover, whether the Berwick Alternative Energy System would be subject to the 110% size limitation for third-party owned and operated systems. *See Net Metering – Use of Third Party Operators*, Docket M-2011-2249441 (Final Order entered March 29, 2012).

22. The Berwick Alternative Energy System will have a nameplate capacity of 1.95 MW, which will produce approximately 2.9 million kWh annually. There currently is no electric load at the site proposed for the Berwick Alternative Energy System. Based upon the Berwick Alternative Energy System net metering application, the Berwick Alternative Energy System is projected to have a daytime summer and winter peak demand of 0 kW. The load at the Berwick Alternative Energy System includes outdoor lighting and security. Upon information and belief,

the purpose of the load at the Berwick Alternative Energy System is to support the operation, maintenance or administration of the alternative energy system. True and correct copies of the Berwick Alternative Energy System net metering application materials and application for new service are attached hereto as “**Appendix C.**”

23. On or about April 16, 2014, Sunrise Energy, LLC submitted a net metering application for a new photovoltaic alternative energy system to be constructed in Beach Haven, Pennsylvania 18601 (hereinafter, the “Beach Haven Alternative Energy System”). Sunrise Energy, LLC is listed as the “customer-generator” on the net metering application for the Beach Haven Alternative Energy System. Sunrise Energy, LLC currently is not a distribution customer of PPL Electric. Further, the address provided for Sunrise Energy, LLC is located outside of PPL Electric’s service territory. As a result, it is unclear from the net metering application who will be the customer and, moreover, whether the Beach Haven Alternative Energy System would be subject to the 110% size limitation for third-party owned and operated systems. *See Net Metering – Use of Third Party Operators*, Docket M-2011-2249441 (Final Order entered March 29, 2012).

24. The Beach Haven Alternative Energy System will have a nameplate capacity of 1.95 MW, which will produce approximately 2.9 million kWh annually. There currently is no electric load at the site proposed for the Beach Haven Alternative Energy System. Based upon the Beach Haven Alternative Energy System net metering application, the Beach Haven Alternative Energy System is projected to have a daytime summer and winter peak demand of 0 kW. The load at the Beach Haven Alternative Energy System includes outdoor lighting and security. Upon information and belief, the purpose of the load at the Beach Haven Alternative Energy System is to support the operation, maintenance or administration of the alternative

energy system. True and correct copies of the Beach Haven Alternative Energy System net metering application materials and application for new service are attached hereto as “**Appendix D.**”

25. Based upon a review of the above-described net metering applications submitted for the Lykens, Beavertown, Berwick, and Beach Haven Alternative Energy Systems, it does not appear that there will be independent electric load that will have a purpose other than to support the operation, maintenance, or administration of the alternative energy system required by the Proposed Rulemaking Order. In addition, it is uncertain from the Proposed Rulemaking Order whether alternative energy systems sized such as the Lykens, Beavertown, Berwick, and Beach Haven Alternative Energy Systems will remain eligible for net metering.

26. Further, PPL Electric expects that other alternative energy systems similar to those described above will submit net metering applications pending final resolution of the Proposed Rulemaking Order.

27. Until the Commission’s final disposition of the Proposed Rulemaking Order, it is entirely unclear whether the alternative energy systems similar to those described above should be permitted to participate in net metering or whether they should be required to sell their excess electric generation on the wholesale electric market.

28. PPL Electric requests a declaratory order to resolve the uncertainty regarding whether the above-described applicants, as well as future applicants that do not appear to have load that is independent of the proposed alternative energy systems, qualify as “customer-generators” eligible to participate in net metering.

29. PPL Electric notes that, even if the Commission ultimately determines that these existing and future net metering applicants do not qualify as a “customer-generator” eligible to

participate in net metering, these alternative energy systems will still have the ability to sell their excess electric generation in the wholesale electric market. This will help to minimize any negative impacts to the operators of the alternative energy systems that do not have independent, non-generational load.

30. Based upon the foregoing, PPL Electric submits that it is just, reasonable, and in the public interest for the Commission to issue a declaratory order to resolve uncertainty regarding whether the existing and future net metering applicants that do not have load that is independent of the proposed alternative energy systems qualify as a “customer-generator” eligible to participate in net metering.


31. A copy of this Petition has been served upon the Commission’s Bureau of Investigation and Enforcement, the Office of Consumer Advocate, the Office of Small Business Advocate, as well as upon Mid Atlantic Green Builder, LLC and Sunrise Energy, LLC that submitted the pending net metering application.

IV. CONCLUSION

WHEREFORE, PPL Electric Utilities Corporation respectfully requests that the Pennsylvania Public Utility Commission issue a declaratory order to resolve the uncertainty regarding whether existing and future net metering applicants that do not have load independent of the alternative energy systems are eligible to participate in PPL Electric Utilities Corporation's net metering program.

Respectfully submitted,

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Date: May 9, 2014

Attorneys for PPL Electric Utilities Corporation

Appendix A

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: Mid Atlantic Green Builders, LLC.
Mailing Address: 51 Old 22 Road
City: Lewistown State: PA Zip Code: 17044
Contact Person (If other than Above): William Napikoski
Mailing Address (If other than Above): (same as above)
Telephone (Daytime): (717) 250-1795 (Evening): (717)248-1581
Facsimile Number: _____ E-Mail Address: wan_magb@yahoo.com

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

Name: William Napikoski
Mailing Address: 51 Old 22 Road
City: Lewistown State: PA Zip Code: 17044
Telephone (Daytime): (717) 250-1795 (Evening): (717)248-1581
Facsimile Number: _____ E-Mail Address: wan_magb@yahoo.com

The Customer-Generator Facility's Information:

Facility Address: TBD, next to : PO Box 105 Coaldale Road, ¼ mile west of Market Street at pole 29045/S45308
City: Wiconisco State: PA Zip Code: 17097
Nearest Crossing Street: Market Street
Electric Distribution Company ("EDC"): PPL Electric Utilities
Account #: _____ Meter #: _____
Existing Service Voltage: 480 VAC Existing Service Capacity: 1600 Amps 3 Phase
Current Annual Energy Consumption: 1500 kWh Estimated In-service Date 12/31/2014
Do you plan to export power? Yes
If Yes, Estimated Maximum: 3,000 kW_{AC}, Estimated Gross Annual Energy Production: 3000 kWh
One-line Diagram Attached (Required): yes Site Plan Attached (Required): No
Energy Source: Solar (PV) Gross Generator Rating: 3000 total kW_{AC}
Utility Accessible Disconnect or Lock Box Lock box

Requested Level of Review: level 4 Type of Generation Equipment: pv

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: Mid-Atlantic Green Builders, LLC.

Customer-Generator Signature: _____ Date: 2/15/2014

Printed Name: William Napikoski Title: Owner

**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: 3000 kW_{DC}

Nominal DC Voltage: 600 V_{DC}

Ampere Rating: 1600 Amps_{DC}

Inverter Information:

Inverter Manufacturer: Advance Energy

Inverter Type; grid interactive

Model Number of Inverter; AE 500 TX

Number of Units: 6

Inverter Rating: 500 kW_{AC}

Voltage Rating: 480 Volts_{AC}

Ampere Rating: 1000 Amps_{AC}

Power Factor: .95 %,

Number of Phases: 3

Frequency: 60 Hz,

IEEE1547/UL1741 Certification: YES

Evidence of Certification attached: Select

**Customer-Generator Equipment Information for Parallel Rotating Equipment Based Systems
(May be applicable to a Level 3 or 4 Review)**

It is anticipated that many projects proposing to utilize directly coupled rotating generation may not have the specific information necessary for the EDC to adequately evaluate the impact of the proposed facility on the EDC's electrical distribution system at the time of the initial application. Often times the equipment for which this information is needed hasn't been specified. The type information necessary may be conveyed during a scoping meeting or other correspondence early on during the project development. Depending on the nature of the project, this is often an iterative process. Different EDC's analytical systems may require that data be provided conforming to specific standard formats which will be conveyed by the EDC. While not all inclusive, examples of the information commonly required are as follows:

For Synchronous Machines: Copies of the Saturation Curve and the Vee Curve - Salient vs. Non-Salient - Torque: (lb-ft) - Rated RPM - Field Amperes at rated generator voltage and current and % PF over-excited - Maximum Leading and Lagging Reactive Output Power - Type of Exciter - Output Power of Exciter - Type of Voltage Regulator - Direct-axis Synchronous Reactance (X_d) ohms - Direct-axis Transient Reactance (X'_d) ohms - Direct-axis Sub-transient Reactance (X''_d) ohms - Rated Nominal Frequency

For Induction Machines: Rotor Resistance (R_r) ohms - Exciting Current (Amps) - Rotor Reactance (X_r) (ohms) - VARs (No Load) - Magnetizing Reactance (X_m) - Stator Resistance (R_s) - VARs (Full Load) - Stator Reactance (X_s) – Short Circuit Reactance (X''_d) - Number of Phases - Frame Size - Design Letter - Temp. Rise °C

Protective Equipment: The Customer-Generator shall design a protective scheme that will provide the protective functions specified in IEEE 1547 and submit it to the EDC for review & acceptance. The submittal shall include a single line drawing showing the location of instrument transformers (current and voltage) and the location of the relays, breakers and fuses. Indicate the manufacturer and model number of each type of device. Breaker data shall include continuous and interrupting ampere ratings. If relays are used, indicate function, the tripping source and its voltage.

Isolation Transformer: Manufacturer - Manufacturer reference number - Nominal Voltage Ratio
– High / Low Voltage Taps - Number of Units - Rated kVA – Percentage Impedance @ kVA base –
High / Low Voltage Winding Configuration

Level 2, 3 or 4 Interconnection Agreement

This Interconnection Agreement ("Agreement") is made and entered into this __, by PPL Electric Utilities, ("Electric Distribution Company" or "EDC"), and Mid-Atlantic Green Builders ("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 3,000 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 proceed to construct (including operational testing not to exceed 2 hours) the Customer-Generator Facility once the approval to install the Customer-Generator Facility has been received from the EDC. The Customer-Generator Facility shall be constructed in accordance with information provided in the Interconnection Application, IEEE 1547 and the Pennsylvania Public Utility Commission's Regulations.

The Applicant shall notify the EDC of any changes to the proposed Customer-Generator Facility that would be subject to the criteria for a Level 2, 3 or 4 review (E.G., Inverter Manufacturer/Model Number, Size, etc.).

Once an Interconnection Request is deemed complete, any modification to the proposed Customer-Generator Facility that would affect the application review criteria for a Level 2, 3 or 4 review that is not agreed to in writing by the EDC, shall require

submission of a new Interconnection Application, subject to the provisions of the Pennsylvania Public Utility Commission's rules and Regulations.

- 3) **Interconnection and Operation.** The Customer-Generator may interconnect and operate the Customer-Generator Facility with the EDC's system once all of the following have occurred:
- a) **Electrical Inspection:** Upon completing construction, the Customer-Generator shall have the Customer-Generator Facility inspected or otherwise certified by the local electrical wiring inspection authority having jurisdiction, that the facility meets the requirements of the National Electric Code.
 - b) **Certificate of Completion:** The Applicant shall provide the EDC with a completed copy of the Certificate of Completion, including evidence of the electrical inspection by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities.
 - c) **Inspection:** The EDC has either completed its inspection or waived the right to inspection in this Agreement. After receipt of the Certificate of Completion, the EDC may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Customer-Generator Facility and observe a Witness Test to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with its requirements.
 - d) **Metering:** Revenue quality metering equipment shall be installed and tested by the EDC. (Note: The EDC may allow interconnected operations prior to the meter installation.)
 - e) **Acceptance:** The EDC's representative has signed and returned the Certificate of Completion or provided notification by electronic mail or other acceptable means that the requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted for parallel operation.

- 4) **Periodic Testing.** All interconnection-related protective functions and associated batteries shall be periodically tested at intervals specified by the manufacturer, system integrator, or authority that has jurisdiction over the Customer-Generator Facility interconnection. Periodic test reports or a log for inspection shall be maintained.
- 5) **Safe Operations and Maintenance.** The Customer-Generator shall be fully responsible to operate, maintain, and repair the Customer-Generator Facility as required to ensure that the Customer-Generator Facility complies at all times with the interconnection standards it has been certified to meet.
- 6) **Access.** The EDC shall have access to the metering equipment and the disconnecting means of the Customer-Generator Facility at all times. The EDC shall provide reasonable notice to the Customer-Generator, when possible, prior to using its right of access. In an emergency or outage situation, where there is no access to an AC disconnecting means such as a switch or breaker, the EDC may disconnect the service to the premises.
- 7) **Exterior AC Disconnect Switch / Isolation Device.** Small generator facilities shall be capable of being isolated from the EDC by means of a lockable, visible-break isolation device accessible by the EDC. The isolation device shall be installed, owned and maintained by the Customer-Generator and located between the small generation facility and the point of interconnection. A draw-out type circuit breaker with a provision for padlocking at the draw-out position can be considered an isolation device for purposes of this requirement.

A Customer-Generator may elect to provide the EDC access to an isolation device that is contained in a building or area that may be unoccupied and locked or not otherwise readily accessible to the EDC, by installing a lockbox provided by the EDC that shall provide ready access to the isolation device. The Customer-Generator shall install the lockbox in a location that is readily accessible by the EDC and the Customer-Generator

shall permit the EDC to affix a placard in a location of its choosing that provides clear instructions to EDC operating personnel on access to the isolation device. The Customer-Generator, at its option, may provide and install both the lockbox and placard.

- 8) **Operations / Disconnection.** The EDC may temporarily disconnect the Customer-Generator Facility upon occurrence of the following conditions:
 - a) For scheduled outages upon reasonable notice,
 - b) For unscheduled outages or emergency conditions,
 - c) If the EDC determines that the Customer-Generator Facility does not operate in a manner consistent with this Application/Agreement,
 - d) If the EDC determines that continued operation of the Customer-Generator Facility is a safety hazard to the EDC's personnel or to the general public,
 - e) In the event the interconnection equipment used by the Customer-Generator Facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved and the EDC ascertains that the continued operation has the potential to cause a safety, reliability or a power quality problem.

- 9) **Indemnification.** The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, 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, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations under these terms and conditions on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

- 10) **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, relating to or

arising from any act or omission in its performance of these terms and conditions, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.

- 11) **Termination.** This Application/Agreement may be terminated under the following conditions:
 - a) By Customer-Generator. The Customer-Generator may terminate this Application/Agreement by providing written notice to the EDC.
 - b) By the EDC. The EDC may terminate this Application/Agreement if the Customer-Generator fails to remedy a violation of terms of this Application/Agreement upon written notice and a reasonable opportunity to cure.
- 12) **Permanent Disconnection.** In the event the Application/Agreement is terminated, the EDC shall have the right to disconnect its facilities or direct the Customer-Generator to disconnect its Customer-Generator Facility.
- 13) **Survival Rights.** This Application/Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill its rights or obligations that arose under the Application/Agreement.
- 14) **Assignment/Transfer of Ownership of the Customer-Generator Facility:** This Application/Agreement shall survive the transfer of ownership of the Customer-Generator Facility to a new owner unless the new owner terminates this Application/Agreement and so notifies the EDC in writing. The EDC will be responsible for contacting the new customer to execute a new Application/Agreement or assignment agreement, in order for the new owner to be treated as a Net Metering customer.

- 15) **No Third Party Beneficiaries** - This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 16) **No Waiver** - The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.
- 17) **Definitions.** The capitalized terms used herein, and the definitions of such terms, are as those used in ANNEX A, TITLE 52. PUBLIC UTILITIES, PART 1. PUBLIC UTILITY COMMISSION, Subpart C., FIXED SERVICE UTILITIES, CHAPTER 75: ALTERNATIVE ENERGY PORTFOLIO STANDARDS, Subchapter C: “INTERCONNECTION STANDARDS.”
- 18) **Notice.** Unless otherwise provided in this Application/Agreement, any written notice, demand, or request required or authorized in connection with this Application/Agreement (“Notice”) shall be deemed properly given if delivered in person, sent by Electronic Mail (E-mail), sent by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

If to EDC:

The contact listed on the EDC website as the primary contact for the EDC listed in the Customer-Generator’s Facility Information section on Attachment A of this Interconnection Agreement.

If to Customer-Generator:

The contact listed in the Legal Name and Mailing Address of Customer-Generator section on Attachment A of this Interconnection Application. The Customer-Generator is responsible for notifying the EDC of any change in the contact party information.

In the event the original applicant sells or otherwise transfers ownership of the property listed in the Customer-Generator Facility's Information section listed on Attachment A of the Interconnection Agreement, the original applicant shall provide the EDC with the appropriate contact information for the new owner of the property. Upon any subsequent transfer of ownership, the then current owner shall provide the EDC with the new owner's information.

- 19) **Governing Law and Regulatory Authority** - This Agreement shall be governed by, interpreted, construed, and enforced in accordance with the laws of the Commonwealth of Pennsylvania. This Agreement is subject to, and the Parties' obligations hereunder include, operating in full compliance with all valid, applicable federal, state, and local laws or ordinances, and all applicable rules, regulations, orders of, and tariffs approved by, duly constituted regulatory authorities having jurisdiction.

20) **Multiple Counterparts** -- This Agreement may be executed in two counterparts, each of which is deemed an original but all constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

PPL Electric Utilities

Mid-Atlantic Green Builders, LLC.

BY: _____

BY: _____

NAME: _____

NAME: William Napikoski

TITLE: BAS Specialist

TITLE: Owner

DATE: _____

DATE: _____

DESCRIPTION OF FACILITYFor 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: Mid-Atlantic Green Builders, LLC.Mailing Address: 51 Old 22 RoadCity: Lewistown State: PA Zip Code: 17044Contact Person (if other than Above): William NapikoskiMailing Address (if other than Above): (same as above)Telephone (Daytime): (717) 250-1795 (Evening): (717)248-1581Facsimile Number: _____ E-Mail Address: wan_magb@yahoo.com**Alternative Contact Information: (if different from Customer-Generator above)**Name: William NapikoskiMailing Address: 51 Old 22 RoadCity: Lewistown State: PA Zip Code: 17044Telephone (Daytime): (717) 250-1795 (Evening): (717)248-1581Facsimile Number: _____ E-Mail Address: wan_magb@yahoo.com**The Customer-Generator Facility's Information:**Facility Address: TBD next to : po box 105, Coaldale Road, ¼ mile west of Market Street at pole
29045/S45308City: Wiconisco State: PA Zip Code: 17097

Account #: _____ Meter #: _____

Do you plan to export power? YesIf Yes, Estimated Maximum: 3,000kW_{AC},Estimated Gross Annual Energy Production: 3,000kWhOne-line Diagram Attached (Required): YesSite Plan Attached (Required): noEnergy Source: Solar (PV)Gross Generator Rating: 3,000 kW_{AC}Utility Accessible Disconnect or Lock Box: LOCK BOX¹ Customers proposing to install generation greater than 2,000 kW are required to contact their EDC for the appropriate application procedures.

CERTIFICATE OF COMPLETION

For a Level 2, 3 or 4 Review Interconnection Agreement

Customer-Generator Information

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

Name: Mid-Atlantic Green Builders, LLC.

Mailing Address: 51 Old 22 Road

City: Lewistown State: PA Zip Code: 17044

Contact Person (If other than Above): William Napikoski

Mailing Address (If other than Above): (same as above)

Telephone (Daytime): (717) 250-1795 (Evening): (717)248-1581

Facsimile Number: E-Mail Address: wan_magb@yahoo.com

The Customer-Generator Facility's Information:

Facility Address: TBD next to po box 105 Coaldale Road, 1/4 mile west of Market street, at pole 29045/S45308

City Wiconisco State: PA Zip Code: 17097

Nearest Crossing Street: Market Street

Electric Distribution Company ("EDC"): PPL Electric Utilities

Account #: Meter #:

Inverter Type; GRID INTERACTIVE Energy Source: Solar Photovoltaic

Number of Units: 6 Manufacturer: Advance Energy

Model Number of Inverter: AE 500 TX Inverter Rating: 500 kWAC

(Attach additional sheets as necessary in the event of multiple units of various types/sizes)

Equipment Installation Contractor:

Check if owner-installed: ()

Name: TBD

Mailing Address:

City: State: Zip Code:

Contact Person (If other than Above):

Telephone (Daytime): (Evening):

Facsimile Number: E-Mail Address:

The undersigned asserts that the Equipment has been installed in accordance with of the Interconnection Application as well as all applicable codes and regulations.

Signed: Date:

Printed Name: William Napikoski Title: Owner Operator

Electrical Contractor: (if Different from Equipment Installation Contractor)

Name: TBD

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (if other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

The undersigned asserts that the Equipment has been installed in accordance with the Interconnection Application as well as all applicable codes and regulations.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

Electrical Inspection²:

The system has been installed and inspected in compliance with the provisions of the National Electrical Code and other applicable codes and standards as well as the local Building/Electrical Code of: _____

(Appropriate Governmental Authority)

By: _____ Date: _____

Customer-Generator Signature³:

The Customer-Generator Facility is complete and ready for interconnected operation in accordance with all of the provisions of the Interconnection Application/Agreement. The Customer-Generator acknowledges that it shall **not** operate the Facility until receipt of Final Acceptance (below), or as otherwise provided for by regulation.

Signed: _____ Date: _____

Printed Name: William Napikoski Title: Owner Operator

2 Completion of local inspections may be designated on inspection forms used by local inspecting authorities.

3 As a condition of interconnected operation, you are required to send/fax/e-mail a completed signed copy of this Certificate of Completion to your EDC at the address in the Terms & Conditions for Interconnection.

Final Acceptance to Interconnect Small Generator Facility (for Use by EDC Only)

The requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted upon signature and return of this Certificate of Completion or by notification by electronic mail or other acceptable means by the EDC.

Electric Distribution Company waives Witness Test? (Initial) Yes (____) No (____)

If no, Successful Witness Test Date: _____ Passed: (Initial) (____)

EDC Signature: _____ Date: _____

Printed Name: _____ Title: _____

PPL Electric Utilities
Business Accounts
827 Hausman Rd., Allentown, PA 18104-9392
Tel. 888.220.9991
businessaccounts@pplweb.com



May 9, 2014

Re:

Dear _____ :

Enclosed is PPL Electric Utilities' (PPL EU) application for electric service. To provide timely electric service to your facility, **an accurate and complete application is essential.**

Please complete the entire application and return it as soon as possible. Your application will be processed within two working days after we receive a satisfactorily completed application. We will then send you a confirmation letter informing you of your work order number. The work order number is unique to your job, will be used to track its status, and will remain active for one (1) year from today.

PPL EU normally supplies energy to one point of delivery to a premise. Service may be provided to a separate point of delivery at the customer's request, but the customer will pay the fully allocated cost of any primary or secondary facilities needed to service it.

PPL EU's service wires, transformers, meters and other equipment will be installed to meet the load requirements as provided to us on the submitted application and will have a limited excess capacity.

If you have any questions concerning this application, please contact Business Accounts at 1-888-220-9991 option 4, or refer to PPL EU's Rules for Electric Meter & Service Installations (REMSI) at:
<https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>

Return only the completed application at this time. Our confirmation letter will instruct you where to send drawings and other supporting information.

Sincerely,

Business Accounts Specialist

Check out our Energy Efficiency & Conservation Programs!
<http://www.pplelectric.com/e-power/>

APPLICATION FOR NEW AND UPGRADE OF THREE-PHASE SECONDARY/PRIMARY ELECTRIC SERVICE AND RELOCATION OF PPL FACILITIES

Your electric service request will be processed after this form is completed in its entirety and returned to PPL Electric Utilities. Timely completion of this form will avoid delay in providing service. PPL EU's Rules for Electric Meter & Service Installation (REMSI) is available on the PPL EU Website <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

TYPE OF REQUEST: NEW UPGRADE RELOCATION

Customer requested in service date for service or relocation: 12/31/2014

All fields on this page are required

CUSTOMER INFORMATION

CUSTOMER NAME:	<u>Mid Atlantic Green Builder, LLC.</u>	PHONE: (717) 250 -1795	Ext.
PPL ACCOUNT #:	-	METER #:	FAX NO: () -
EXISTING SERVICE ADDRESS:	<u>Pottsville St</u>	COUNTY:	<u>Dauphin</u>
CITY / STATE / ZIP:	<u>Lykens PA 17048</u>	TWP:	<u>Lykens</u>
CUSTOMER MAILING ADDRESS:	<u>PO Box 1266</u>		
CITY / STATE / ZIP:	<u>Lewistown, Pa. 17044</u>		
EMAIL ADDRESS:	<u>wan_magb@yahoo.com</u>		

By signing below, customer is accepting responsibility for monthly electric service billing:

Signature of Ratepayer: _____

Date: _____

Party responsible for any excess costs associated with providing electric service:

Customer General Contractor Electrical Contractor

If General Contractor or Electrical Contractor is checked, please provide name and mailing address for invoice to be sent to:

COMPANY: Mid Atlantic Green Builder, LLC.

NAME: Bill Napikoski

ADDRESS: PO Box 1266, Lewistown, Pa. 17044

SUBMITTAL INFORMATION

NAME & TITLE:	<u>Bill Napikoski, Owner</u>	PHONE: (717) 250 -1795	Ext.
COMPANY:	<u>Mid Atlantic Green Builder, LLC.</u>	FAX: () -	
ADDRESS:	<u>PO Box 1266, Lewistown, Pa. 17044</u>	CELL: () -	
E-MAIL:	<u>wan_magb@yahoo.com</u>		

PROJECT CONTACT INFORMATION

Same as Submitter See below

NAME & TITLE:		PHONE: () -	Ext.
COMPANY:		FAX: () -	
ADDRESS:		CELL: () -	
E-MAIL:			

RELOCATION INFORMATION

Do existing PPL Electric Utilities' facilities need to be moved to accommodate this project? YES NO
 If YES, please complete Relocation Information below and provide site plan if available :

RELOCATION ADDRESS: _____

FACILITIES TO BE RELOCATED: _____

REASON FOR RELOCATION: _____

RELOCATION AT PROPERTY OWNERS REQUEST? YES NO

DATE COST ESTIMATE NEEDED BY: _____

COMMENTS: _____

SERVICE INFORMATION

NEAREST PPL ELECTRIC UTILITES POLE NUMBER: 29045 N / S 45308 *Required

TOTAL SERVICE SIZE – AMPS: 2500

AIC REQUIRED (Fault Current): YES NO

- 3-PHASE, 120/240 VOLT, 4-WIRE
- 3-PHASE, 120/208 VOLT, 4-WIRE
- 3-PHASE, 277/480 VOLT, 4-WIRE
- 3-PHASE, 480 VOLT, 3-WIRE

- 3-PHASE, 7,200/12,470 VOLT, 4-WIRE
- 3-PHASE, 69,000 VOLT, or HIGHER
- 1-PHASE, 7,200 VOLT
- 1-PHASE, ≥ 600 AMP 120/208 V 120/240 V

Choose one:

- Single Line Supply
- Dual Line Supply (Charges will apply)

TYPE OF SERVICE LATERAL: (charges may apply)

- OVERHEAD
- UNDERGROUND FROM OVERHEAD (when diversified loads are <500 kVA)
- PPL SUPPLIES PAD-MOUNTED TRANSFORMER (when diversified loads are >500 kVA) **Secondary Voltage Only**
 Pad-Mounted Transformer may be requested when diversified loads are <500 kVA; however, full costs will apply.

METERING:

- SELF CONTAINED (required for 120/240 and 120/208 volt up to and including 600 amp, and 277/480 volt service up to and including 400 Amp svc.)
- PAD MOUNTED METERING CABINET
- CT CABINET
- SWITCHGEAR (drawing showing dimensions for termination and metering compartment required)
- POLE MOUNTED (12 kv only) / H FRAME (69 kv)

PRIMARY VOLTAGE ONLY

PROPOSED POINT OF CONTACT (POC) PROTECTION: Fuse Breaker

Please see link for approved POC devices: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/point-of-contact-requirements-for-high-voltage-facilities.aspx>

PRIMARY VOLTAGE ONLY

CUSTOMER TRANSFORMER INFORMATION

This information is not currently available, but will be submitted by 6/30/2014

Table 2:

Transformer Number	Transformer Size (kVA)	%R	%X	Voltages	
				Primary	Secondary
1					
2					
3					
4					
5					

BUSINESS/BUILDING INFORMATION

TYPE OF BUSINESS (Description): Office complex

OF SHIFTS: 2

BUILDING SQ. FT.: 400

OF STORIES IN BUILDING: 1

Will there be an addition to the building?

YES NO

Will the existing point of delivery (meter location) remain the same?

YES NO

Existing building sq. ft.: new

Sq. ft. being added: _____

Total building sq. ft.: _____

CONNECTED ELECTRIC LOAD

Our facilities will be designed and installed to provide for the customer's requirements based on the load information provided; therefore, accuracy is essential. Costs will be incurred from PPL EU for equipment requested that is not required to meet the customer's immediate load. **Please indicate connected loads in terms of kW, HP and Tons.**

Type of Load	Added	Removed (Upgrade Only)	Equipment Description
Lighting Indoor	10kW	kW	
Outdoor	.5 kW	kW	
1-Phase Miscellaneous	10 kW	kW	
1-Phase Motors (excludes HVAC)	1/16HP	HP	computers
3-Phase Motors (excludes HVAC)	2 HP	HP	material handler
3-Phase Miscellaneous (*Specify Equipment)	kW	kW	
Cooking	1.1 kW	kW	microwave
Water Heating	4.5 kW	kW	tank type 20 gal
Process Heating	kW	kW	
Refrigeration	1 kW	kW	
Space Heating	kW	kW	
Air Conditioning	1.5TONS	TONS	Heatpump
Welders	kW	kW	
Other (*Specify Equipment)	1.5 kW	kW	security

LARGEST MOTOR INFORMATION *Required

Note: Please make sure that all HP motor loads are included in the *Connected Electrical Load* section above. Do not include redundant motors such as back up motors for sewage plants.

SECONDARY:

LARGEST MOTOR (A/C included): _____HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 50 hp

PRIMARY/TRANSMISSION:

LARGEST MOTOR (A/C included): _____HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 100 hp (12.47 kV)
COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 750 hp (69 kV)

Description of Equipment that the Motor Drives	HP	QTY #	Motor Starter (VFD/RVS/ NONE)	Estimated Starting Frequency		Nema Code OR Running Amps & LRA	Power Factor at Starting
				Starts/hr	Starts/hr		

Are any of these motors started simultaneously? No Yes If yes, which ones?

If known, project any electric loads that will be added to this service in the future:

Equipment Type: _____

Horsepower of kW of proposed equipment to be added: _____

When will equipment be added? (month/year): _____

HEATING & AIR CONDITIONING INFORMATION

PRIMARY SPACE HEATING SYSTEM: Electric Resistance Heat Pump Other: _____

TYPE OF AIR COND: None Chiller Split System/Rooftop

Primary Only:

Process Heating

Check type of heating process

Induction heat melting

Arc Furnace

Resistance Furnace

None

GENERATOR INFORMATION

Is there any type of generation equipment to be installed? (Check all that apply)

No

Yes, emergency standby

Yes, supplementing or offsetting PPL supply

Yes, sell excess power

If "Yes", please provide the following:

- Copy of the One Line Diagram showing generator connection to PPL electrical system.

- Transfer switch information (Manufacturer & Model #)*: _____

* Refer to REMSI for preapproved equipment listing.

- Size of generator: _____ 1500 _____ kW

- Type of transfer switch: Break before make Other: _____

This information is not currently available, but will be submitted by: 6 / 1 / 2014 *Date Required

*Refer to REMSI Sketch #41 Series Organization Map for additional information

ADDITIONAL CONTACT INFORMATION (if not previously provided)

GENERAL CONTRACTOR: Mid Atlantic Green Builder, LLC.

ADDRESS: PO Box 1266, Lewistown, Pa. 17044 PHONE: (717) 250 -1795 Ext.

FAX: () -

E-MAIL: wan_magb@yahoo.com CELL: () -

PROJECT ENGINEER: TBD

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

ELECTRICAL CONTRACTOR: TBD

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

SEND COMPLETED FORMS TO:

PPL Electric Utilities, Business Accounts

Attn: Krista Schmoyer

MAILING ADDRESS:

FAX NUMBER:

E-MAIL ADDRESS:

827 Hausman Rd., Allentown, PA 18104-9392

FAX: (484) 634-3260

Businessaccounts@pplweb.com

PHONE NUMBER: (888) 220-9991, Option 4

THREE-PHASE ELECTRIC SERVICE INSTALLATION AREAS OF RESPONSIBILITY

Refer to PPL's Rules for Electric Meter & Service Installation (REMSI) for detailed information – <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

Specific guidelines for electrical equipment installation and trenching specifications are in the Customer Reference Specifications: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi/customer-reference-specifications.aspx>

General Customer Responsibilities before project can be scheduled:

- Completed application for electric service
- Two copies of site plans showing preferred service location
- Two copies of detailed drawings for the switchgear showing dimensions for the termination and metering compartment, if applicable
- A plan of the electric equipment room indicating clearances, if applicable
- Date permanent service is requested

General Customer Responsibilities before service can be constructed or connected:

- Right of way/Easements
- Underwriter's inspection certificate (Electrical inspection cut-in card)
- Payment of applicable charges such as underground service, relocation of PPL Electric Utilities facilities, inadequate load for voltage requested, reengineering, line extensions, service extensions, and temporary service

All Underground Services: (customer responsibilities per PPL Electric Utilities Specs)

- Dig and prepare the trench (before digging call PA One Call -811, or 1-800-242-1776)
- Encase underground PVC in concrete or steel conduit
- Notify PPL Electric Utilities when trenching requirements have been completed
- Backfill the trench
- Provide and install meter base for self-contained metering
- Provide and install instrument transformer cabinet for secondary metering
- Install CTs, VTs, meter base, and benelex mounting for secondary metering
- Pay applicable charges

Underground Service: (PPL Electric Utilities responsibilities)

- Provide applicable charges
- Provide CTs, VTs, meter base, and benelex mounting for secondary metering
- Provide, install, and terminate the primary service conductors
- Provide wiring of CTs, VTs, and meter base for secondary metering

Overhead Service: (customer responsibilities)

- Provide and install service entrance wire
- Provide and install service wire conduits and clamps
- Provide and install ground rods and wire
- Install CTs, VTs, CT cabinet and benelex mounting, and meter base for secondary metering

Overhead Service: (PPL Electric Utilities responsibilities)

- Provide CTs, VTs, benelex, and meter base for secondary metering
- Provide wiring of CTs, VTs, and meter base for secondary metering
- Provide and install overhead service conductors

Appendix B

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: Sunrise Energy, LLC

Mailing Address: 151 Evandale Drive

City: Pittsburgh State: PA Zip Code: 15220

Contact Person (If other than Above): David N. Hommrich

Mailing Address (If other than Above): _____

Telephone (Daytime): 412-527-5072 (Evening): 412-527-5072

Facsimile Number: 412-564-9690 E-Mail Address: dhommrich@sunrise-energy.net

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: Parcel Ident. No. 17-10-059, Market Street, Spring Township, Snyder County, PA, adjacent to Beavertown substation, on State Route 522

City: Beavertown State: PA Zip Code: 17813

Nearest Crossing Street: Parkay Avenue

Electric Distribution Company ("EDC"): PPL Electric Utility Corporation

Account #: new service location Meter #: new service location

Existing Service Voltage: 480 VAC Existing Service Capacity: 2,400 Amps 3 Phase

Current Annual Energy Consumption: n/a kWh Estimated In-service Date: 9/15/2014

Do you plan to export power? Yes. Regularly.

If Yes, Estimated Maximum: 1,950 kW_{AC}, Estimated Gross Annual Energy Production: 2,418,000 kWh

One-line Diagram Attached (Required): Yes Site Plan Attached (Required): Yes

Energy Source: Solar, Photovoltaic Gross Generator Rating: 1,950 kW_{AC}

Utility Accessible Disconnect or Lock Box: Yes

Requested Level of Review: Level 2 Type of Generation Equipment: Inverter

Equipment Installation Contractor: Indicate by owner if applicable

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

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: Select

Amount: n/a

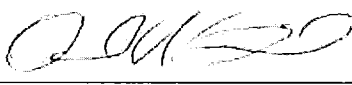
Customer-Generator Insurance Disclosure:

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.

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: Sunrise Energy, LLC

Customer-Generator Signature:  Date: 3/11/2014

Printed Name: David N. Hommrich Title: President

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

DC Source information:

Energy Source: Select Solar PV

DC Source Rating: 2,495 kW_{DC}

Nominal DC Voltage: 900 V_{DC}

Ampere Rating: 60 Amps DC (This number represents the nominal amps per 30 kVA inverter)

Inverter Information:

Inverter Manufacturer: Power-One

Inverter Type; Select Type

Model Number of Inverter; TRIO-27.6TL

Number of Units: 66

Inverter Rating: 30 kW_{AC}

Voltage Rating: 480 Volts_{AC}

Ampere Rating: 36 Amps_{AC}

Power Factor: (capable of 0.8 / 0.8 lead / lag)

Number of Phases: 3 phases

Frequency: 60 Hz,

IEEE1547/UL1741 Certification: Yes

Evidence of Certification attached: Yes

**Customer-Generator Equipment Information for Parallel Rotating Equipment Based Systems
(May be applicable to a Level 3 or 4 Review)**

It is anticipated that many projects proposing to utilize directly coupled rotating generation may not have the specific information necessary for the EDC to adequately evaluate the impact of the proposed facility on the EDC's electrical distribution system at the time of the initial application. Often times the equipment for which this information is needed hasn't been specified. The type information necessary may be conveyed during a scoping meeting or other correspondence early on during the project development. Depending on the nature of the project, this is often an iterative process. Different EDC's analytical systems may require that data be provided conforming to specific standard formats which will be conveyed by the EDC. While not all inclusive, examples of the information commonly required are as follows:

For Synchronous Machines: Copies of the Saturation Curve and the Vee Curve - Salient vs. Non-Salient - Torque: (lb-ft) - Rated RPM - Field Amperes at rated generator voltage and current and % PF over-excited - Maximum Leading and Lagging Reactive Output Power - Type of Exciter - Output Power of Exciter - Type of Voltage Regulator - Direct-axis Synchronous Reactance (X_d) ohms - Direct-axis Transient Reactance (X'_d) ohms - Direct-axis Sub-transient Reactance (X''_d) ohms - Rated Nominal Frequency

For Induction Machines: Rotor Resistance (R_r) ohms - Exciting Current (Amps) - Rotor Reactance (X_r) (ohms) - VARs (No Load) - Magnetizing Reactance (X_m) - Stator Resistance (R_s) - VARs (Full Load) - Stator Reactance (X_s) – Short Circuit Reactance (X''_d) - Number of Phases - Frame Size - Design Letter - Temp. Rise °C

Protective Equipment: The Customer-Generator shall design a protective scheme that will provide the protective functions specified in IEEE 1547 and submit it to the EDC for review & acceptance. The submittal shall include a single line drawing showing the location of instrument transformers (current and voltage) and the location of the relays, breakers and fuses. Indicate the

manufacturer and model number of each type of device. Breaker data shall include continuous and interrupting ampere ratings. If relays are used, indicate function, the tripping source and its voltage.

Isolation Transformer: Manufacturer - Manufacturer reference number - Nominal Voltage Ratio
– High / Low Voltage Taps - Number of Units - Rated kVA – Percentage Impedance @ kVA base –
High / Low Voltage Winding Configuration

APPLICATION FOR NEW AND UPGRADE OF THREE-PHASE SECONDARY/PRIMARY ELECTRIC SERVICE AND RELOCATION OF PPL FACILITIES

Your electric service request will be processed after this form is completed in its entirety and returned to PPL Electric Utilities. Timely completion of this form will avoid delay in providing service. PPL EU's Rules for Electric Meter & Service Installation (REMSI) is available on the PPL EU Website <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

TYPE OF REQUEST: NEW UPGRADE RELOCATION

Customer requested in service date for service or relocation: 9/15/2014

All fields on this page are required

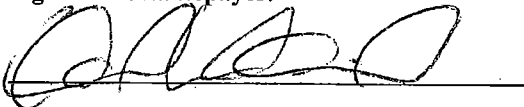
CUSTOMER INFORMATION

CUSTOMER NAME:	<u>Sunrise Energy, LLC</u>	PHONE: (412) 527 -5072	Ext.
PPL ACCOUNT #:	<u>new - servi</u>	METER #:	<u>new serv</u>
EXISTING SERVICE ADDRESS:	<u>new service</u>	FAX NO: (412) 564 -9690	
CITY / STATE / ZIP:	<u>Beavertown, PA</u>	COUNTY:	<u>Snyder County</u>
CUSTOMER MAILING ADDRESS:	<u>151 Evandale Drive</u>	TWP:	<u>Spring</u>
CITY / STATE / ZIP:	<u>Pittsburgh, PA 15220</u>		
EMAIL ADDRESS:	<u>dhommrich@sunrise-energy.net</u>		

By signing below, customer is accepting responsibility for monthly electric service billing:

Signature of Ratepayer:

Date:



3/10/14

Party responsible for any excess costs associated with providing electric service:

Customer General Contractor Electrical Contractor

If General Contractor or Electrical Contractor is checked, please provide name and mailing address for invoice to be sent to:

COMPANY: _____

NAME: _____

ADDRESS: _____

SUBMITTAL INFORMATION

NAME & TITLE:	<u>David N. Hommrich</u>	PHONE: (412) 527 -5072	Ext.
COMPANY:	<u>Sunrise Energy, LLC</u>	FAX: (412) 564 -9690	
ADDRESS:	<u>151 Evandale Drive, Pittsburgh, PA 15220</u>		CELL: (412) 527 -5072
E-MAIL:	_____		

PROJECT CONTACT INFORMATION

Same as Submitter See below

NAME & TITLE:	_____	PHONE: () -	Ext.
COMPANY:	_____	FAX: () -	
ADDRESS:	_____		CELL: () -
E-MAIL:	_____		

RELOCATION INFORMATION

Do existing PPL Electric Utilities' facilities need to be moved to accommodate this project? YES NO
 If YES, please complete Relocation Information below and provide site plan if available :

RELOCATION ADDRESS: _____

FACILITIES TO BE RELOCATED: _____

REASON FOR RELOCATION: _____

RELOCATION AT PROPERTY OWNERS REQUEST? YES NO

DATE COST ESTIMATE NEEDED BY: _____

COMMENTS: _____

SERVICE INFORMATION

NEAREST PPL ELECTRIC UTILITES POLE NUMBER: 15661 N / S 51634 *Required

TOTAL SERVICE SIZE – AMPS: _____ 20 MVA AIC REQUIRED (Fault Current): YES NO

- 3-PHASE, 120/240 VOLT, 4-WIRE
- 3-PHASE, 120/208 VOLT, 4-WIRE
- 3-PHASE, 277/480 VOLT, 4-WIRE
- 3-PHASE, 480 VOLT, 3-WIRE

- 3-PHASE, 7,200/12,470 VOLT, 4-WIRE
- 3-PHASE, 69,000 VOLT, or HIGHER
- 1-PHASE, 7,200 VOLT
- 1-PHASE, ≥ 600 AMP 120/208 V 120/240 V

- Choose one:
- Single Line Supply
 - Dual Line Supply (Charges will apply)

TYPE OF SERVICE LATERAL: (charges may apply)

- OVERHEAD
- UNDERGROUND FROM OVERHEAD (when diversified loads are <500 kVA)
- PPL SUPPLIES PAD-MOUNTED TRANSFORMER (when diversified loads are >500 kVA) Secondary Voltage Only
 Pad-Mounted Transformer may be requested when diversified loads are <500 kVA; however, full costs will apply.

METERING:

- SELF CONTAINED (required for 120/240 and 120/208 volt up to and including 600 amp, and 277/480 volt service up to and including 400 Amp svc.)
- PAD MOUNTED METERING CABINET
- CT CABINET
- SWITCHGEAR (drawing showing dimensions for termination and metering compartment required)
- POLE MOUNTED (12 kv only) / H FRAME (69 kv)

PRIMARY VOLTAGE ONLY

PROPOSED POINT OF CONTACT (POC) PROTECTION: Fuse Breaker

Please see link for approved POC devices: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/point-of-contact-requirements-for-high-voltage-facilities.aspx>

**PRIMARY VOLTAGE ONLY
 CUSTOMER TRANSFORMER INFORMATION**

This information is not currently available, but will be submitted by ___ / ___ / ___

Table 2:

Transformer Number	Transformer Size (kVA)	%R	%X	Voltages	
				Primary	Secondary
1					
2					
3					
4					
5					

BUSINESS/BUILDING INFORMATION

TYPE OF BUSINESS (Description): Service Depot

OF SHIFTS: 1

BUILDING SQ. FT.: Approx. 1,000

OF STORIES IN BUILDING: 1

Will there be an addition to the building?

YES NO

Will the existing point of delivery (meter location) remain the same?

YES NO

Existing building sq. ft.: new constr.

Sq. ft. being added: new constr.

Total building sq. ft.: new constr.

CONNECTED ELECTRIC LOAD

Our facilities will be designed and installed to provide for the customer's requirements based on the load information provided; therefore, accuracy is essential. Costs will be incurred from PPL EU for equipment requested that is not required to meet the customer's immediate load. Please indicate connected loads in terms of kW, HP and Tons.

Type of Load	Added	Removed (Upgrade Only)	Equipment Description
Lighting Indoor	0.10kW	kW	Overhead lighting
Outdoor	0.10 kW	kW	Security lighting
1-Phase Miscellaneous	kW	kW	
1-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Miscellaneous (*Specify Equipment)	kW	kW	
Cooking	kW	kW	
Water Heating	kW	kW	
Process Heating	kW	kW	
Refrigeration	kW	kW	
Space Heating	kW	kW	
Air Conditioning	TONS	TONS	
Welders	kW	kW	
Other (*Specify Equipment)	kW	kW	

LARGEST MOTOR INFORMATION *Required

Note: Please make sure that all HP motor loads are included in the *Connected Electrical Load* section above. Do not include redundant motors such as back up motors for sewage plants.

SECONDARY:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 50 hp

PRIMARY/TRANSMISSION:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 100 hp (12.47 kV)
COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 750 hp (69 kV)

Description of Equipment that the Motor Drives	HP	QTY #	Motor Starter (VFD/RVS/ NONE)	Estimated Starting Frequency		Nema Code OR Running Amps & LRA	Power Factor at Starting
				Starts/hr	Starts/hr		

Are any of these motors started simultaneously? No Yes If yes, which ones? n/a

If known, project any electric loads that will be added to this service in the future:

Equipment Type: n/a

Horsepower of kW of proposed equipment to be added: n/a

When will equipment be added? (month/year):

HEATING & AIR CONDITIONING INFORMATION

PRIMARY SPACE HEATING SYSTEM: Electric Resistance Heat Pump Other: n/a

TYPE OF AIR COND: None Chiller Split System/Rooftop

Primary Only:

Process Heating

Check type of heating process

Induction heat melting

Arc Furnace

Resistance Furnace

None

GENERATOR INFORMATION

Is there any type of generation equipment to be installed? (Check all that apply)

No

Yes, emergency standby

Yes, supplementing or offsetting PPL supply

Yes, sell excess power

If "Yes", please provide the following:

• Copy of the One Line Diagram showing generator connection to PPL electrical system.

• Transfer switch information (Manufacturer & Model #)*: _____

* Refer to REMSI for preapproved equipment listing.

• Size of generator: _____ kW

• Type of transfer switch: Break before make Other: _____

This information is not currently available, but will be submitted by: _____ / _____ / _____ *Date Required

*Refer to REMSI Sketch #41 Series Organization Map for additional information

ADDITIONAL CONTACT INFORMATION (if not previously provided)

GENERAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

PROJECT ENGINEER: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

ELECTRICAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

SEND COMPLETED FORMS TO:

PPL Electric Utilities, Business Accounts

Attn: Krista Schmoyer

MAILING ADDRESS:

827 Hausman Rd., Allentown, PA 18104-9392

FAX NUMBER:

FAX: (484) 634-3260

E-MAIL ADDRESS:

Businessaccounts@pplweb.com

PHONE NUMBER: (888) 220-9991, Option 4

Appendix C

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: Sunrise Energy, LLC
Mailing Address: 151 Evandale Drive
City: Pittsburgh State: PA Zip Code: 15220
Contact Person (If other than Above): David N. Hommrich
Mailing Address (If other than Above): _____
Telephone (Daytime): 412-527-5072 (Evening): 412-527-5072
Facsimile Number: 412-564-9690 E-Mail Address: dhommrich@sunrise-energy.net

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: Parcel Ident. No. 55-P3-A-9 1915-1080, Salem Blvd., East Berwick, PA, adjacent to East Berwick, PA substation, on State Route 11
City: Berwick State: PA Zip Code: 18603
Nearest Crossing Street: Bomboy Lane
Electric Distribution Company ("EDC"): PPL Electric Utility Corporation
Account #: new service location Meter #: new service location
Existing Service Voltage: 480 VAC Existing Service Capacity: 2,400 Amps 3 Phase
Current Annual Energy Consumption: n/a kWh Estimated In-service Date: 9/15/2014
Do you plan to export power? Yes. Regularly.
If Yes, Estimated Maximum: 1,950 kW_{AC}, Estimated Gross Annual Energy Production: 3,094,000 kWh
One-line Diagram Attached (Required): Yes Site Plan Attached (Required): Yes
Energy Source: Solar, Photovoltaic Gross Generator Rating: 1,950 kW_{AC}
Utility Accessible Disconnect or Lock Box: Yes

Requested Level of Review: Level 2 Type of Generation Equipment: Inverter

Equipment Installation Contractor: Indicate by owner if applicable

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

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: Select

Amount: n/a

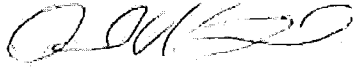
Customer-Generator Insurance Disclosure:

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.

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: Sunrise Energy, LLC

Customer-Generator Signature:  Date: 3/30/2014

Printed Name: David N. Hommrich Title: President

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

DC Source information:

Energy Source: Select Solar PV

DC Source Rating: 3,094 kW_{DC}

Nominal DC Voltage: 900 V_{DC}

Ampere Rating: 60 Amps DC (This number represents the nominal amps per 30 kVA inverter)

Inverter Information:

Inverter Manufacturer: Power-One

Inverter Type; Select Type

Model Number of Inverter; TRIO-27.6TL

Number of Units: 66

Inverter Rating: 30 kW_{AC}

Voltage Rating: 480 Volts_{AC}

Ampere Rating: 36 Amps_{AC}

Power Factor: (capable of 0.8 / 0.8 lead / lag)

Number of Phases: 3 phases

Frequency: 60 Hz,

IEEE1547/UL1741 Certification: Yes

Evidence of Certification attached: Yes

**Customer-Generator Equipment Information for Parallel Rotating Equipment Based Systems
(May be applicable to a Level 3 or 4 Review)**

It is anticipated that many projects proposing to utilize directly coupled rotating generation may not have the specific information necessary for the EDC to adequately evaluate the impact of the proposed facility on the EDC's electrical distribution system at the time of the initial application. Often times the equipment for which this information is needed hasn't been specified. The type information necessary may be conveyed during a scoping meeting or other correspondence early on during the project development. Depending on the nature of the project, this is often an iterative process. Different EDC's analytical systems may require that data be provided conforming to specific standard formats which will be conveyed by the EDC. While not all inclusive, examples of the information commonly required are as follows:

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For Induction Machines: Rotor Resistance (R_r) ohms - Exciting Current (Amps) - Rotor Reactance (X_r) (ohms) - VARs (No Load) - Magnetizing Reactance (X_m) - Stator Resistance (R_s) - VARs (Full Load) - Stator Reactance (X_s) – Short Circuit Reactance (X''_d) - Number of Phases - Frame Size - Design Letter - Temp. Rise °C

Protective Equipment: The Customer-Generator shall design a protective scheme that will provide the protective functions specified in IEEE 1547 and submit it to the EDC for review & acceptance. The submittal shall include a single line drawing showing the location of instrument transformers (current and voltage) and the location of the relays, breakers and fuses. Indicate the

manufacturer and model number of each type of device. Breaker data shall include continuous and interrupting ampere ratings. If relays are used, indicate function, the tripping source and its voltage.

Isolation Transformer: Manufacturer - Manufacturer reference number - Nominal Voltage Ratio – High / Low Voltage Taps - Number of Units - Rated kVA – Percentage Impedance @ kVA base – High / Low Voltage Winding Configuration

Level 2, 3 or 4 Interconnection Agreement

This Interconnection Agreement ("Agreement") is made and entered into this _____ day of _____, 2009, by The Select Utility, ("Electric Distribution Company" or "EDC"), and _____ ("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 _____ 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 proceed to construct (including operational testing not to exceed 2 hours) the Customer-Generator Facility once the approval to install the Customer-Generator Facility has been received from the EDC. The Customer-Generator Facility shall be constructed in accordance with information provided in the Interconnection Application, IEEE 1547 and the Pennsylvania Public Utility Commission's Regulations.

The Applicant shall notify the EDC of any changes to the proposed Customer-Generator Facility that would be subject to the criteria for a Level 2, 3 or 4 review (E.G., Inverter Manufacturer/Model Number, Size, etc.).

Once an Interconnection Request is deemed complete, any modification to the proposed Customer-Generator Facility that would affect the application review criteria for a Level 2, 3 or 4 review that is not agreed to in writing by the EDC, shall require

submission of a new Interconnection Application, subject to the provisions of the Pennsylvania Public Utility Commission's rules and Regulations.

- 3) **Interconnection and Operation.** The Customer-Generator may interconnect and operate the Customer-Generator Facility with the EDC's system once all of the following have occurred:
- a) **Electrical Inspection:** Upon completing construction, the Customer-Generator shall have the Customer-Generator Facility inspected or otherwise certified by the local electrical wiring inspection authority having jurisdiction, that the facility meets the requirements of the National Electric Code.
 - b) **Certificate of Completion:** The Applicant shall provide the EDC with a completed copy of the Certificate of Completion, including evidence of the electrical inspection by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities.
 - c) **Inspection:** The EDC has either completed its inspection or waived the right to inspection in this Agreement. After receipt of the Certificate of Completion, the EDC may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Customer-Generator Facility and observe a Witness Test to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with its requirements.
 - d) **Metering:** Revenue quality metering equipment shall be installed and tested by the EDC. (Note: The EDC may allow interconnected operations prior to the meter installation.)
 - e) **Acceptance:** The EDC's representative has signed and returned the Certificate of Completion or provided notification by electronic mail or other acceptable means that the requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted for parallel operation.

- 4) **Periodic Testing.** All interconnection-related protective functions and associated batteries shall be periodically tested at intervals specified by the manufacturer, system integrator, or authority that has jurisdiction over the Customer-Generator Facility interconnection. Periodic test reports or a log for inspection shall be maintained.
- 5) **Safe Operations and Maintenance.** The Customer-Generator shall be fully responsible to operate, maintain, and repair the Customer-Generator Facility as required to ensure that the Customer-Generator Facility complies at all times with the interconnection standards it has been certified to meet.
- 6) **Access.** The EDC shall have access to the metering equipment and the disconnecting means of the Customer-Generator Facility at all times. The EDC shall provide reasonable notice to the Customer-Generator, when possible, prior to using its right of access. In an emergency or outage situation, where there is no access to an AC disconnecting means such as a switch or breaker, the EDC may disconnect the service to the premises.
- 7) **Exterior AC Disconnect Switch / Isolation Device.** Small generator facilities shall be capable of being isolated from the EDC by means of a lockable, visible-break isolation device accessible by the EDC. The isolation device shall be installed, owned and maintained by the Customer-Generator and located between the small generation facility and the point of interconnection. A draw-out type circuit breaker with a provision for padlocking at the draw-out position can be considered an isolation device for purposes of this requirement.

A Customer-Generator may elect to provide the EDC access to an isolation device that is contained in a building or area that may be unoccupied and locked or not otherwise readily accessible to the EDC, by installing a lockbox provided by the EDC that shall provide ready access to the isolation device. The Customer-Generator shall install the lockbox in a location that is readily accessible by the EDC and the Customer-Generator

shall permit the EDC to affix a placard in a location of its choosing that provides clear instructions to EDC operating personnel on access to the isolation device. The Customer-Generator, at its option, may provide and install both the lockbox and placard.

- 8) **Operations / Disconnection.** The EDC may temporarily disconnect the Customer-Generator Facility upon occurrence of the following conditions:
- a) For scheduled outages upon reasonable notice,
 - b) For unscheduled outages or emergency conditions,
 - c) If the EDC determines that the Customer-Generator Facility does not operate in a manner consistent with this Application/Agreement,
 - d) If the EDC determines that continued operation of the Customer-Generator Facility is a safety hazard to the EDC's personnel or to the general public,
 - e) In the event the interconnection equipment used by the Customer-Generator Facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved and the EDC ascertains that the continued operation has the potential to cause a safety, reliability or a power quality problem.
- 9) **Indemnification.** The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, 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, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations under these terms and conditions on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.
- 10) **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, relating to or

arising from any act or omission in its performance of these terms and conditions, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.

- 11) **Termination.** This Application/Agreement may be terminated under the following conditions:
 - a) By Customer-Generator. The Customer-Generator may terminate this Application/Agreement by providing written notice to the EDC.
 - b) By the EDC. The EDC may terminate this Application/Agreement if the Customer-Generator fails to remedy a violation of terms of this Application/Agreement upon written notice and a reasonable opportunity to cure.
- 12) **Permanent Disconnection.** In the event the Application/Agreement is terminated, the EDC shall have the right to disconnect its facilities or direct the Customer-Generator to disconnect its Customer-Generator Facility.
- 13) **Survival Rights.** This Application/Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill its rights or obligations that arose under the Application/Agreement.
- 14) **Assignment/Transfer of Ownership of the Customer-Generator Facility:** This Application/Agreement shall survive the transfer of ownership of the Customer-Generator Facility to a new owner unless the new owner terminates this Application/Agreement and so notifies the EDC in writing. The EDC will be responsible for contacting the new customer to execute a new Application/Agreement or assignment agreement, in order for the new owner to be treated as a Net Metering customer.

- 15) **No Third Party Beneficiaries** - This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.

- 16) **No Waiver** - The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.

- 17) **Definitions.** The capitalized terms used herein, and the definitions of such terms, are as those used in ANNEX A, TITLE 52. PUBLIC UTILITIES, PART 1. PUBLIC UTILITY COMMISSION, Subpart C., FIXED SERVICE UTILITIES, CHAPTER 75: ALTERNATIVE ENERGY PORTFOLIO STANDARDS, Subchapter C: “INTERCONNECTION STANDARDS.”

- 18) **Notice.** Unless otherwise provided in this Application/Agreement, any written notice, demand, or request required or authorized in connection with this Application/Agreement (“Notice”) shall be deemed properly given if delivered in person, sent by Electronic Mail (E-mail), sent by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

If to EDC:

The contact listed on the EDC website as the primary contact for the EDC listed in the Customer-Generator’s Facility Information section on Attachment A of this Interconnection Agreement.

If to Customer-Generator:

The contact listed in the Legal Name and Mailing Address of Customer-Generator section on Attachment A of this Interconnection Application. The Customer-Generator is responsible for notifying the EDC of any change in the contact party information.

In the event the original applicant sells or otherwise transfers ownership of the property listed in the Customer-Generator Facility's Information section listed on Attachment A of the Interconnection Agreement, the original applicant shall provide the EDC with the appropriate contact information for the new owner of the property. Upon any subsequent transfer of ownership, the then current owner shall provide the EDC with the new owner's information.

- 19) **Governing Law and Regulatory Authority** - This Agreement shall be governed by, interpreted, construed, and enforced in accordance with the laws of the Commonwealth of Pennsylvania. This Agreement is subject to, and the Parties' obligations hereunder include, operating in full compliance with all valid, applicable federal, state, and local laws or ordinances, and all applicable rules, regulations, orders of, and tariffs approved by, duly constituted regulatory authorities having jurisdiction.

20) **Multiple Counterparts** -- This Agreement may be executed in two counterparts, each of which is deemed an original but all constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

Select Utility _____

Customer-Generator _____

BY: _____

BY: _____

NAME: _____

NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

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: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Mailing Address (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

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: _____

City: _____ State: PA Zip Code: _____

Account #: _____ Meter #: _____

Do you plan to export power? Select

If Yes, Estimated Maximum: _____ kW_{AC}, Estimated Gross Annual Energy Production: _____ kWh

One-line Diagram Attached (Required): Select Site Plan Attached (Required): Select

Energy Source: Select Gross Generator Rating: _____ kW_{AC}

Utility Accessible Disconnect or Lock Box: Select

¹ Customers proposing to install generation greater than 2,000 kW are required to contact their EDC for the appropriate application procedures.

CERTIFICATE OF COMPLETION

For a Level 2, 3 or 4 Review Interconnection Agreement

Customer-Generator Information

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

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Mailing Address (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

The Customer-Generator Facility's Information:

Facility Address: _____

City: _____ State: PA Zip Code: _____

Nearest Crossing Street: _____

Electric Distribution Company ("EDC"): Select Utility _____

Account #: _____ Meter #: _____

Inverter Type; Select Type Energy Source: Select _____

Number of Units: _____ Manufacturer: _____

Model Number of Inverter: _____ Inverter Rating: _____ kW_{AC}

(Attach additional sheets as necessary in the event of multiple units of various types/sizes)

Equipment Installation Contractor:

Check if owner-installed:

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

The undersigned asserts that the Equipment has been installed in accordance with of the Interconnection Application as well as all applicable codes and regulations.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

Electrical Contractor: (if Different from Equipment Installation Contractor)

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (if other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

The undersigned asserts that the Equipment has been installed in accordance with the Interconnection Application as well as all applicable codes and regulations.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

Electrical Inspection²:

The system has been installed and inspected in compliance with the provisions of the National Electrical Code and other applicable codes and standards as well as the local Building/Electrical Code of: _____

(Appropriate Governmental Authority)

By: _____ Date: _____

Customer-Generator Signature³:

The Customer-Generator Facility is complete and ready for interconnected operation in accordance with all of the provisions of the Interconnection Application/Agreement. The Customer-Generator acknowledges that it shall **not** operate the Facility until receipt of Final Acceptance (below), or as otherwise provided for by regulation.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

2 Completion of local inspections may be designated on inspection forms used by local inspecting authorities.

3 As a condition of interconnected operation, you are required to send/fax/e-mail a completed signed copy of this Certificate of Completion to your EDC at the address in the Terms & Conditions for Interconnection.

Final Acceptance to Interconnect Small Generator Facility (for Use by EDC Only)

The requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted upon signature and return of this Certificate of Completion or by notification by electronic mail or other acceptable means by the EDC.

Electric Distribution Company waives Witness Test? (Initial) Yes (____) No (____)

If no, Successful Witness Test Date: _____ Passed: (Initial) (____)

EDC Signature: _____ Date: _____

Printed Name: _____ Title: _____

APPLICATION FOR NEW AND UPGRADE OF THREE-PHASE SECONDARY/PRIMARY ELECTRIC SERVICE AND RELOCATION OF PPL FACILITIES

Your electric service request will be processed after this form is completed in its entirety and returned to PPL Electric Utilities. Timely completion of this form will avoid delay in providing service. PPL EU's Rules for Electric Meter & Service Installation (REMSI) is available on the PPL EU Website <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

TYPE OF REQUEST: NEW UPGRADE RELOCATION

Customer requested in service date for service or relocation: 9/15/2014

All fields on this page are required

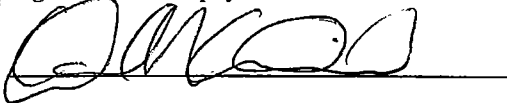
CUSTOMER INFORMATION

CUSTOMER NAME:	<u>Sunrise Energy, LLC</u>	PHONE: (412) 527 -5072	Ext.
PPL ACCOUNT #:	<u>new - servi</u>	METER #:	<u>new serv</u>
		FAX NO: (412) 564 -9690	
EXISTING SERVICE ADDRESS:	<u>new service</u>	COUNTY:	<u>Luzerne County</u>
CITY / STATE / ZIP:	<u>Berwick, PA 18603</u>	TWP:	<u>Salem</u>
CUSTOMER MAILING ADDRESS:	<u>151 Evandale Drive</u>		
CITY / STATE / ZIP:	<u>Pittsburgh, PA 15220</u>		
EMAIL ADDRESS:	<u>dhommrich@sunrise-energy.net</u>		

By signing below, customer is accepting responsibility for monthly electric service billing:

Signature of Ratepayer:

Date:



3/30/14

Party responsible for any excess costs associated with providing electric service:

Customer General Contractor Electrical Contractor

If General Contractor or Electrical Contractor is checked, please provide name and mailing address for invoice to be sent to:

COMPANY: _____

NAME: _____

ADDRESS: _____

SUBMITTAL INFORMATION

NAME & TITLE:	<u>David N. Hommrich</u>	PHONE: (412) 527 -5072	Ext.
COMPANY:	<u>Sunrise Energy, LLC</u>	FAX: (412) 564 -9690	
ADDRESS:	<u>151 Evandale Drive, Pittsburgh, PA 15220</u>		
E-MAIL:	<u>dhommrich@sunrise-energy.net</u>		

PROJECT CONTACT INFORMATION

Same as Submitter See below

NAME & TITLE: _____ PHONE: () - Ext.

COMPANY: _____ FAX: () -

ADDRESS: _____ CELL: () -

E-MAIL: _____

RELOCATION INFORMATION

Do existing PPL Electric Utilities' facilities need to be moved to accommodate this project? YES NO
 If YES, please complete Relocation Information below and provide site plan if available :

RELOCATION ADDRESS: _____

FACILITIES TO BE RELOCATED: _____

REASON FOR RELOCATION: _____

RELOCATION AT PROPERTY OWNERS REQUEST? YES NO

DATE COST ESTIMATE NEEDED BY: _____

COMMENTS: _____

SERVICE INFORMATION

NEAREST PPL ELECTRIC UTILITES POLE NUMBER: 42640 N / S 33105 **Required*

TOTAL SERVICE SIZE – AMPS: 2,400 / phase AIC REQUIRED (Fault Current): YES NO

- | | |
|---|---|
| <input type="checkbox"/> 3-PHASE, 120/240 VOLT, 4-WIRE | <input type="checkbox"/> 3-PHASE, 7,200/12,470 VOLT, 4-WIRE |
| <input type="checkbox"/> 3-PHASE, 120/208 VOLT, 4-WIRE | <input type="checkbox"/> 3-PHASE, 69,000 VOLT, or HIGHER |
| <input checked="" type="checkbox"/> 3-PHASE, 277/480 VOLT, 4-WIRE | <input type="checkbox"/> 1-PHASE, 7,200 VOLT |
| <input type="checkbox"/> 3-PHASE, 480 VOLT, 3-WIRE | <input type="checkbox"/> 1-PHASE, ≥ 600 AMP <input type="checkbox"/> 120/208 V <input type="checkbox"/> 120/240 V |

- Choose one:
 Single Line Supply
 Dual Line Supply (Charges will apply)

TYPE OF SERVICE LATERAL: (charges may apply)
 OVERHEAD
 UNDERGROUND FROM OVERHEAD (when diversified loads are <500 kVA)
 PPL SUPPLIES PAD-MOUNTED TRANSFORMER (when diversified loads are >500 kVA) **Secondary Voltage Only**
 Pad-Mounted Transformer may be requested when diversified loads are <500 kVA; however, full costs will apply.

METERING:
 SELF CONTAINED (required for 120/240 and 120/208 volt up to and including 600 amp, and 277/480 volt service up to and including 400 Amp svc.)
 PAD MOUNTED METERING CABINET
 CT CABINET
 SWITCHGEAR (drawing showing dimensions for termination and metering compartment required)
 POLE MOUNTED (12 kv only) / H FRAME (69 kv)

PRIMARY VOLTAGE ONLY
PROPOSED POINT OF CONTACT (POC) PROTECTION: Fuse Breaker
 Please see link for approved POC devices: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/point-of-contact-requirements-for-high-voltage-facilities.aspx>

**PRIMARY VOLTAGE ONLY
 CUSTOMER TRANSFORMER INFORMATION**

This information is not currently available, but will be submitted by ___ / ___ / ___

Table 2:

Transformer Number	Transformer Size (kVA)	%R	%X	Voltages	
				Primary	Secondary
1					
2					
3					
4					
5					

BUSINESS/BUILDING INFORMATION

TYPE OF BUSINESS (Description): Fabrication Shop # OF SHIFTS: 1
 BUILDING SQ. FT.: Approx. 5,000 # OF STORIES IN BUILDING: 1
 Will there be an addition to the building? YES NO
 Will the existing point of delivery (meter location) remain the same? YES NO
 Existing building sq. ft.: new constr. Sq. ft. being added: new constr. Total building sq. ft.: new constr.

CONNECTED ELECTRIC LOAD

Our facilities will be designed and installed to provide for the customer's requirements based on the load information provided; therefore, accuracy is essential. Costs will be incurred from PPL EU for equipment requested that is not required to meet the customer's immediate load. Please indicate connected loads in terms of kW, HP and Tons.

Type of Load	Added	Removed (Upgrade Only)	Equipment Description
Lighting Indoor	2.0kW	kW	Overhead lighting
Outdoor	2.0 kW	kW	Security lighting
1-Phase Miscellaneous	2.0 kW	kW	Computers / Phone System
1-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Miscellaneous (*Specify Equipment)	kW	kW	
Cooking	kW	kW	
Water Heating	kW	kW	
Process Heating	kW	kW	
Refrigeration	kW	kW	
Space Heating	10 kW	kW	Resistance Heating
Air Conditioning	TONS	TONS	
Welders	kW	kW	
Other (*Specify Equipment)	kW	kW	

LARGEST MOTOR INFORMATION *Required

Note: Please make sure that all HP motor loads are included in the *Connected Electrical Load* section above. Do not include redundant motors such as back up motors for sewage plants.

SECONDARY:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 50 hp

PRIMARY/TRANSMISSION:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 100 hp (12.47 kV)
 COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 750 hp (69 kV)

Description of Equipment that the Motor Drives	HP	QTY #	Motor Starter (VFD/RVS/ NONE)	Estimated Starting Frequency		Nema Code OR Running Amps & LRA	Power Factor at Starting
				Starts/hr	Starts/hr		

Are any of these motors started simultaneously? No Yes If yes, which ones? n/a

If known, project any electric loads that will be added to this service in the future:

Equipment Type: n/a

Horsepower of kW of proposed equipment to be added: n/a

When will equipment be added? (month/year):
 /

HEATING & AIR CONDITIONING INFORMATION

PRIMARY SPACE HEATING SYSTEM: Electric Resistance Heat Pump Other: _____

TYPE OF AIR COND: None Chiller Split System/Rooftop

Primary Only:

Process Heating

Check type of heating process

Induction heat melting

Arc Furnace

Resistance Furnace

None

GENERATOR INFORMATION

Is there any type of generation equipment to be installed? (Check all that apply)

No

Yes, emergency standby

Yes, supplementing or offsetting PPL supply

Yes, sell excess power

If "Yes", please provide the following:

• Copy of the One Line Diagram showing generator connection to PPL electrical system.

• Transfer switch information (Manufacturer & Model #)*: _____

** Refer to REMSI for preapproved equipment listing.*

• Size of generator: _____ kW

• Type of transfer switch: Break before make Other: _____

This information is not currently available, but will be submitted by: _____ / _____ / _____ *Date Required

**Refer to REMSI Sketch #41 Series Organization Map for additional information*

ADDITIONAL CONTACT INFORMATION (if not previously provided)

GENERAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

PROJECT ENGINEER: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

ELECTRICAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

SEND COMPLETED FORMS TO:

PPL Electric Utilities, Business Accounts

Attn: Krista Schmoyer

MAILING ADDRESS:

827 Hausman Rd., Allentown, PA 18104-9392

FAX NUMBER:

FAX: (484) 634-3260

E-MAIL ADDRESS:

Businessaccounts@pplweb.com

PHONE NUMBER: (888) 220-9991, Option 4

Appendix D

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: Sunrise Energy, LLC

Mailing Address: 151 Evandale Drive

City: Pittsburgh State: PA Zip Code: 15220

Contact Person (If other than Above): David N. Hommrich

Mailing Address (If other than Above): _____

Telephone (Daytime): 412-527-5072 (Evening): 412-527-5072

Facsimile Number: 412-564-9690 E-Mail Address: dhommrich@sunrise-energy.net

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: Parcel Ident. No. 55-O4-A-87 2000-1002, Bellbend Road, Beach Haven, PA

City: Beach Haven State: PA Zip Code: 18601

Nearest Crossing Street: Salem Blvd.

Electric Distribution Company ("EDC"): PPL Electric Utility Corporation

Account #: new service location Meter #: new service location

Existing Service Voltage: 480 VAC Existing Service Capacity: 2,400 Amps 3 Phase

Current Annual Energy Consumption: n/a kWh Estimated In-service Date: 9/15/2014

Do you plan to export power? Yes. Regularly.

If Yes, Estimated Maximum: 1,950 kW_{AC}, Estimated Gross Annual Energy Production: 3,094,000 kWh

One-line Diagram Attached (Required): Yes Site Plan Attached (Required): Yes

Energy Source: Solar, Photovoltaic Gross Generator Rating: 1,950 kW_{AC}

Utility Accessible Disconnect or Lock Box: Yes

Requested Level of Review: Level 2

Type of Generation Equipment: Inverter

Equipment Installation Contractor: Indicate by owner if applicable

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

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: Select

Amount: n/a

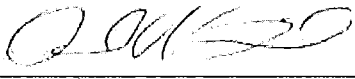
Customer-Generator Insurance Disclosure:

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.

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: Sunrise Energy, LLC

Customer-Generator Signature:  Date: 4/16/2014

Printed Name: David N. Hommrich Title: President

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

DC Source information:

Energy Source: Select Solar PV

DC Source Rating: 3,094 kW_{DC}

Nominal DC Voltage: 900 V_{DC}

Ampere Rating: 60 Amps DC (This number represents the nominal amps per 30 kVA inverter)

Inverter Information:

Inverter Manufacturer: Power-One

Inverter Type; Grid Interactive

Model Number of Inverter; TRIO-27.6TL

Number of Units: 66

Inverter Rating: 30 kW_{AC}

Voltage Rating: 480 Volts_{AC}

Ampere Rating: 36 Amps_{AC}

Power Factor: (capable of 0.8 / 0.8 lead / lag)

Number of Phases: 3 phases

Frequency: 60 Hz,

IEEE1547/UL1741 Certification: Yes

Evidence of Certification attached: Yes

**Customer-Generator Equipment Information for Parallel Rotating Equipment Based Systems
(May be applicable to a Level 3 or 4 Review)**

It is anticipated that many projects proposing to utilize directly coupled rotating generation may not have the specific information necessary for the EDC to adequately evaluate the impact of the proposed facility on the EDC's electrical distribution system at the time of the initial application. Often times the equipment for which this information is needed hasn't been specified. The type information necessary may be conveyed during a scoping meeting or other correspondence early on during the project development. Depending on the nature of the project, this is often an iterative process. Different EDC's analytical systems may require that data be provided conforming to specific standard formats which will be conveyed by the EDC. While not all inclusive, examples of the information commonly required are as follows:

For Synchronous Machines: Copies of the Saturation Curve and the Vee Curve - Salient vs. Non-Salient - Torque: (lb-ft) - Rated RPM - Field Amperes at rated generator voltage and current and % PF over-excited - Maximum Leading and Lagging Reactive Output Power - Type of Exciter - Output Power of Exciter - Type of Voltage Regulator - Direct-axis Synchronous Reactance (X_d) ohms - Direct-axis Transient Reactance (X'_d) ohms - Direct-axis Sub-transient Reactance (X''_d) ohms - Rated Nominal Frequency

For Induction Machines: Rotor Resistance (R_r) ohms - Exciting Current (Amps) - Rotor Reactance (X_r) (ohms) - VARs (No Load) - Magnetizing Reactance (X_m) - Stator Resistance (R_s) - VARs (Full Load) - Stator Reactance (X_s) - Short Circuit Reactance (X''_d) - Number of Phases - Frame Size - Design Letter - Temp. Rise °C

Protective Equipment: The Customer-Generator shall design a protective scheme that will provide the protective functions specified in IEEE 1547 and submit it to the EDC for review & acceptance. The submittal shall include a single line drawing showing the location of instrument transformers (current and voltage) and the location of the relays, breakers and fuses. Indicate the

manufacturer and model number of each type of device. Breaker data shall include continuous and interrupting ampere ratings. If relays are used, indicate function, the tripping source and its voltage.

Isolation Transformer: Manufacturer - Manufacturer reference number - Nominal Voltage Ratio – High / Low Voltage Taps - Number of Units - Rated kVA – Percentage Impedance @ kVA base – High / Low Voltage Winding Configuration

Level 2, 3 or 4 Interconnection Agreement

This Interconnection Agreement ("Agreement") is made and entered into this _____ day of _____, 2009, by The Select Utility, ("Electric Distribution Company" or "EDC"), and _____ ("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 _____ 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 proceed to construct (including operational testing not to exceed 2 hours) the Customer-Generator Facility once the approval to install the Customer-Generator Facility has been received from the EDC. The Customer-Generator Facility shall be constructed in accordance with information provided in the Interconnection Application, IEEE 1547 and the Pennsylvania Public Utility Commission's Regulations.

The Applicant shall notify the EDC of any changes to the proposed Customer-Generator Facility that would be subject to the criteria for a Level 2, 3 or 4 review (E.G., Inverter Manufacturer/Model Number, Size, etc.).

Once an Interconnection Request is deemed complete, any modification to the proposed Customer-Generator Facility that would affect the application review criteria for a Level 2, 3 or 4 review that is not agreed to in writing by the EDC, shall require

submission of a new Interconnection Application, subject to the provisions of the Pennsylvania Public Utility Commission's rules and Regulations.

- 3) **Interconnection and Operation.** The Customer-Generator may interconnect and operate the Customer-Generator Facility with the EDC's system once all of the following have occurred:
- a) **Electrical Inspection:** Upon completing construction, the Customer-Generator shall have the Customer-Generator Facility inspected or otherwise certified by the local electrical wiring inspection authority having jurisdiction, that the facility meets the requirements of the National Electric Code.
 - b) **Certificate of Completion:** The Applicant shall provide the EDC with a completed copy of the Certificate of Completion, including evidence of the electrical inspection by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities.
 - c) **Inspection:** The EDC has either completed its inspection or waived the right to inspection in this Agreement. After receipt of the Certificate of Completion, the EDC may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Customer-Generator Facility and observe a Witness Test to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with its requirements.
 - d) **Metering:** Revenue quality metering equipment shall be installed and tested by the EDC. (Note: The EDC may allow interconnected operations prior to the meter installation.)
 - e) **Acceptance:** The EDC's representative has signed and returned the Certificate of Completion or provided notification by electronic mail or other acceptable means that the requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted for parallel operation.

- 4) **Periodic Testing.** All interconnection-related protective functions and associated batteries shall be periodically tested at intervals specified by the manufacturer, system integrator, or authority that has jurisdiction over the Customer-Generator Facility interconnection. Periodic test reports or a log for inspection shall be maintained.

- 5) **Safe Operations and Maintenance.** The Customer-Generator shall be fully responsible to operate, maintain, and repair the Customer-Generator Facility as required to ensure that the Customer-Generator Facility complies at all times with the interconnection standards it has been certified to meet.

- 6) **Access.** The EDC shall have access to the metering equipment and the disconnecting means of the Customer-Generator Facility at all times. The EDC shall provide reasonable notice to the Customer-Generator, when possible, prior to using its right of access. In an emergency or outage situation, where there is no access to an AC disconnecting means such as a switch or breaker, the EDC may disconnect the service to the premises.

- 7) **Exterior AC Disconnect Switch / Isolation Device.** Small generator facilities shall be capable of being isolated from the EDC by means of a lockable, visible-break isolation device accessible by the EDC. The isolation device shall be installed, owned and maintained by the Customer-Generator and located between the small generation facility and the point of interconnection. A draw-out type circuit breaker with a provision for padlocking at the draw-out position can be considered an isolation device for purposes of this requirement.

A Customer-Generator may elect to provide the EDC access to an isolation device that is contained in a building or area that may be unoccupied and locked or not otherwise readily accessible to the EDC, by installing a lockbox provided by the EDC that shall provide ready access to the isolation device. The Customer-Generator shall install the lockbox in a location that is readily accessible by the EDC and the Customer-Generator

shall permit the EDC to affix a placard in a location of its choosing that provides clear instructions to EDC operating personnel on access to the isolation device. The Customer-Generator, at its option, may provide and install both the lockbox and placard.

- 8) **Operations / Disconnection.** The EDC may temporarily disconnect the Customer-Generator Facility upon occurrence of the following conditions:
- a) For scheduled outages upon reasonable notice,
 - b) For unscheduled outages or emergency conditions,
 - c) If the EDC determines that the Customer-Generator Facility does not operate in a manner consistent with this Application/Agreement,
 - d) If the EDC determines that continued operation of the Customer-Generator Facility is a safety hazard to the EDC's personnel or to the general public,
 - e) In the event the interconnection equipment used by the Customer-Generator Facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved and the EDC ascertains that the continued operation has the potential to cause a safety, reliability or a power quality problem.
- 9) **Indemnification.** The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, 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, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations under these terms and conditions on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.
- 10) **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, relating to or

arising from any act or omission in its performance of these terms and conditions, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.

- 11) **Termination.** This Application/Agreement may be terminated under the following conditions:
 - a) By Customer-Generator. The Customer-Generator may terminate this Application/Agreement by providing written notice to the EDC.
 - b) By the EDC. The EDC may terminate this Application/Agreement if the Customer-Generator fails to remedy a violation of terms of this Application/Agreement upon written notice and a reasonable opportunity to cure.

- 12) **Permanent Disconnection.** In the event the Application/Agreement is terminated, the EDC shall have the right to disconnect its facilities or direct the Customer-Generator to disconnect its Customer-Generator Facility.

- 13) **Survival Rights.** This Application/Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill its rights or obligations that arose under the Application/Agreement.

- 14) **Assignment/Transfer of Ownership of the Customer-Generator Facility:** This Application/Agreement shall survive the transfer of ownership of the Customer-Generator Facility to a new owner unless the new owner terminates this Application/Agreement and so notifies the EDC in writing. The EDC will be responsible for contacting the new customer to execute a new Application/Agreement or assignment agreement, in order for the new owner to be treated as a Net Metering customer.

- 15) **No Third Party Beneficiaries** - This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 16) **No Waiver** - The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.
- 17) **Definitions.** The capitalized terms used herein, and the definitions of such terms, are as those used in ANNEX A, TITLE 52. PUBLIC UTILITIES, PART 1. PUBLIC UTILITY COMMISSION, Subpart C., FIXED SERVICE UTILITIES, CHAPTER 75: ALTERNATIVE ENERGY PORTFOLIO STANDARDS, Subchapter C: “INTERCONNECTION STANDARDS.”
- 18) **Notice.** Unless otherwise provided in this Application/Agreement, any written notice, demand, or request required or authorized in connection with this Application/Agreement (“Notice”) shall be deemed properly given if delivered in person, sent by Electronic Mail (E-mail), sent by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

If to EDC:

The contact listed on the EDC website as the primary contact for the EDC listed in the Customer-Generator’s Facility Information section on Attachment A of this Interconnection Agreement.

If to Customer-Generator:

The contact listed in the Legal Name and Mailing Address of Customer-Generator section on Attachment A of this Interconnection Application. The Customer-Generator is responsible for notifying the EDC of any change in the contact party information.

In the event the original applicant sells or otherwise transfers ownership of the property listed in the Customer-Generator Facility's Information section listed on Attachment A of the Interconnection Agreement, the original applicant shall provide the EDC with the appropriate contact information for the new owner of the property. Upon any subsequent transfer of ownership, the then current owner shall provide the EDC with the new owner's information.

- 19) **Governing Law and Regulatory Authority** - This Agreement shall be governed by, interpreted, construed, and enforced in accordance with the laws of the Commonwealth of Pennsylvania. This Agreement is subject to, and the Parties' obligations hereunder include, operating in full compliance with all valid, applicable federal, state, and local laws or ordinances, and all applicable rules, regulations, orders of, and tariffs approved by, duly constituted regulatory authorities having jurisdiction.

20) **Multiple Counterparts** -- This Agreement may be executed in two counterparts, each of which is deemed an original but all constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

Select Utility _____

Customer-Generator _____

BY: _____

BY: _____

NAME: _____

NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

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: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (if other than Above): _____

Mailing Address (if other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

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: _____

City: _____ State: PA Zip Code: _____

Account #: _____ Meter #: _____

Do you plan to export power? Select

If Yes, Estimated Maximum: _____ kW_{AC}, Estimated Gross Annual Energy Production: _____ kWh

One-line Diagram Attached (Required): Select Site Plan Attached (Required): Select

Energy Source: Select Gross Generator Rating: _____ kW_{AC}

Utility Accessible Disconnect or Lock Box: Select

¹ Customers proposing to install generation greater than 2,000 kW are required to contact their EDC for the appropriate application procedures.

CERTIFICATE OF COMPLETION

For a Level 2, 3 or 4 Review Interconnection Agreement

Customer-Generator Information

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

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

The Customer-Generator Facility's Information:

Facility Address:
City: State: PA Zip Code:
Nearest Crossing Street:
Electric Distribution Company ("EDC"): Select Utility
Account #: Meter #:
Inverter Type; Select Type Energy Source: Select
Number of Units: Manufacturer:
Model Number of Inverter: Inverter Rating: kWAC
(Attach additional sheets as necessary in the event of multiple units of various types/sizes)

Equipment Installation Contractor:

Check if owner-installed: ()

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

The undersigned asserts that the Equipment has been installed in accordance with of the Interconnection Application as well as all applicable codes and regulations.

Signed: Date:

Printed Name: Title:

Electrical Contractor: (if Different from Equipment Installation Contractor)

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Contact Person (If other than Above): _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

The undersigned asserts that the Equipment has been installed in accordance with the Interconnection Application as well as all applicable codes and regulations.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

Electrical Inspection²:

The system has been installed and inspected in compliance with the provisions of the National Electrical Code and other applicable codes and standards as well as the local Building/Electrical Code of: _____

(Appropriate Governmental Authority)

By: _____ Date: _____

Customer-Generator Signature³:

The Customer-Generator Facility is complete and ready for interconnected operation in accordance with all of the provisions of the Interconnection Application/Agreement. The Customer-Generator acknowledges that it shall **not** operate the Facility until receipt of Final Acceptance (below), or as otherwise provided for by regulation.

Signed: _____ Date: _____

Printed Name: _____ Title: _____

2 Completion of local inspections may be designated on inspection forms used by local inspecting authorities.

3 As a condition of interconnected operation, you are required to send/fax/e-mail a completed signed copy of this Certificate of Completion to your EDC at the address in the Terms & Conditions for Interconnection.

Final Acceptance to Interconnect Small Generator Facility (for Use by EDC Only)

The requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted upon signature and return of this Certificate of Completion or by notification by electronic mail or other acceptable means by the EDC.

Electric Distribution Company waives Witness Test? (Initial) Yes (____) No (____)

If no, Successful Witness Test Date: _____ Passed: (Initial) (____)

EDC Signature: _____ Date: _____

Printed Name: _____ Title: _____

PPL Electric Utilities
Business Accounts
827 Hausman Rd., Allentown, PA 18104-9392
Tel. 888.220.9991
businessaccounts@pplweb.com



May 9, 2014

Dave Hommrich

Re: New Service

Dear Dave:

Enclosed is PPL Electric Utilities' (PPL EU) application for electric service. To provide timely electric service to your facility, **an accurate and complete application is essential.**

Please complete the entire application and return it as soon as possible. Your application will be processed within two working days after we receive a satisfactorily completed application. We will then send you a confirmation letter informing you of your work order number. The work order number is unique to your job, will be used to track its status, and will remain active for one (1) year from today.

PPL EU normally supplies energy to one point of delivery to a premise. Service may be provided to a separate point of delivery at the customer's request, but the customer will pay the fully allocated cost of any primary or secondary facilities needed to service it.

PPL EU's service wires, transformers, meters and other equipment will be installed to meet the load requirements as provided to us on the submitted application and will have a limited excess capacity.

If you have any questions concerning this application, please contact Business Accounts at 1-888-220-9991 option 4, or refer to PPL EU's Rules for Electric Meter & Service Installations (REMSI) at:
<https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>

Return only the completed application at this time. Our confirmation letter will instruct you where to send drawings and other supporting information.

Sincerely,

Krista Schmoeyer

Business Accounts Specialist

Check out our Energy Efficiency & Conservation Programs!
<http://www.pplelectric.com/e-power/>

APPLICATION FOR NEW AND UPGRADE OF THREE-PHASE SECONDARY/PRIMARY ELECTRIC SERVICE AND RELOCATION OF PPL FACILITIES

Your electric service request will be processed after this form is completed in its entirety and returned to PPL Electric Utilities. Timely completion of this form will avoid delay in providing service. PPL EU's Rules for Electric Meter & Service Installation (REMSI) is available on the PPL EU Website <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

TYPE OF REQUEST: NEW UPGRADE RELOCATION

Customer requested in service date for service or relocation: 9/15/2014

All fields on this page are required

CUSTOMER INFORMATION

CUSTOMER NAME:	<u>Sunrise Energy, LLC</u>	PHONE: (412) 527 -5072	Ext.
PPL ACCOUNT #:	<u>new - servi</u>	METER #:	<u>new serv</u>
EXISTING SERVICE ADDRESS:	<u>new service</u>	COUNTY:	<u>Luzerne County</u>
CITY / STATE / ZIP:	<u>Beach Haven, PA 18601</u>	TWP:	<u>Salem</u>
CUSTOMER MAILING ADDRESS:	<u>151 Evandale Drive</u>		
CITY / STATE / ZIP:	<u>Pittsburgh, PA 15220</u>		
EMAIL ADDRESS:	<u>dhommrich@sunrise-energy.net</u>		

By signing below, customer is accepting responsibility for monthly electric service billing:

Signature of Ratepayer: _____

Date: _____

Party responsible for any excess costs associated with providing electric service:

Customer General Contractor Electrical Contractor

If General Contractor or Electrical Contractor is checked, please provide name and mailing address for invoice to be sent to:

COMPANY: _____

NAME: _____

ADDRESS: _____

SUBMITTAL INFORMATION

NAME & TITLE:	<u>David N. Hommrich</u>	PHONE: (412) 527 -5072	Ext.
COMPANY:	<u>Sunrise Energy, LLC</u>	FAX: (412) 564 -9690	
ADDRESS:	<u>151 Evandale Drive, Pittsburgh, PA 15220</u>		
E-MAIL:	<u>dhommrich@sunrise-energy.net</u>		

PROJECT CONTACT INFORMATION

Same as Submitter See below

NAME & TITLE: _____ PHONE: () - Ext.

COMPANY: _____ FAX: () -

ADDRESS: _____ CELL: () -

E-MAIL: _____

RELOCATION INFORMATION

Do existing PPL Electric Utilities' facilities need to be moved to accommodate this project? YES NO
 If YES, please complete Relocation Information below and provide site plan if available :

RELOCATION ADDRESS: _____

FACILITIES TO BE RELOCATED: _____

REASON FOR RELOCATION: _____

RELOCATION AT PROPERTY OWNERS REQUEST? YES NO

DATE COST ESTIMATE NEEDED BY: _____

COMMENTS: _____

SERVICE INFORMATION

NEAREST PPL ELECTRIC UTILITES POLE NUMBER: 44317 N / S 33553 *Required

TOTAL SERVICE SIZE – AMPS: 2,400 / phase AIC REQUIRED (Fault Current): YES NO

- 3-PHASE, 120/240 VOLT, 4-WIRE
- 3-PHASE, 120/208 VOLT, 4-WIRE
- 3-PHASE, 277/480 VOLT, 4-WIRE
- 3-PHASE, 480 VOLT, 3-WIRE

- 3-PHASE, 7,200/12,470 VOLT, 4-WIRE
- 3-PHASE, 69,000 VOLT, or HIGHER
- 1-PHASE, 7,200 VOLT
- 1-PHASE, ≥ 600 AMP 120/208 V 120/240 V

Choose one:

- Single Line Supply
- Dual Line Supply (Charges will apply)

TYPE OF SERVICE LATERAL: (charges may apply)

- OVERHEAD
- UNDERGROUND FROM OVERHEAD (when diversified loads are <500 kVA)
- PPL SUPPLIES PAD-MOUNTED TRANSFORMER (when diversified loads are >500 kVA) Secondary Voltage Only
 Pad-Mounted Transformer may be requested when diversified loads are <500 kVA; however, full costs will apply.

METERING:

- SELF CONTAINED (required for 120/240 and 120/208 volt up to and including 600 amp, and 277/480 volt service up to and including 400 Amp svc.)
- PAD MOUNTED METERING CABINET
- CT CABINET
- SWITCHGEAR (drawing showing dimensions for termination and metering compartment required)
- POLE MOUNTED (12 kv only) / H FRAME (69 kv)

PRIMARY VOLTAGE ONLY

PROPOSED POINT OF CONTACT (POC) PROTECTION: Fuse Breaker

Please see link for approved POC devices: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/point-of-contact-requirements-for-high-voltage-facilities.aspx>

**PRIMARY VOLTAGE ONLY
 CUSTOMER TRANSFORMER INFORMATION**

This information is not currently available, but will be submitted by ____ / ____ / ____

Table 2:

Transformer Number	Transformer Size (kVA)	%R	%X	Voltages	
				Primary	Secondary
1					
2					
3					
4					
5					

BUSINESS/BUILDING INFORMATION

TYPE OF BUSINESS (Description): Shop / Supply Depo

OF SHIFTS: 1

BUILDING SQ. FT.: Approx. 5,000

OF STORIES IN BUILDING: 1

Will there be an addition to the building?

YES NO

Will the existing point of delivery (meter location) remain the same?

YES NO

Existing building sq. ft.: new constr.

Sq. ft. being added: new constr.

Total building sq. ft.: new constr.

CONNECTED ELECTRIC LOAD

Our facilities will be designed and installed to provide for the customer's requirements based on the load information provided; therefore, accuracy is essential. Costs will be incurred from PPL EU for equipment requested that is not required to meet the customer's immediate load. **Please indicate connected loads in terms of kW, HP and Tons.**

Type of Load	Added	Removed (Upgrade Only)	Equipment Description
Lighting Indoor	2.0kW	kW	Overhead lighting
Outdoor	2.0 kW	kW	Security lighting
1-Phase Miscellaneous	2.0 kW	kW	Computers / Phone System
1-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Motors (excludes HVAC)	HP	HP	
3-Phase Miscellaneous (*Specify Equipment)	kW	kW	
Cooking	kW	kW	
Water Heating	kW	kW	
Process Heating	kW	kW	
Refrigeration	kW	kW	
Space Heating	10 kW	kW	Resistance Heating
Air Conditioning	TONS	TONS	
Welders	kW	kW	
Other (*Specify Equipment)	kW	kW	

LARGEST MOTOR INFORMATION *Required

Note: Please make sure that all HP motor loads are included in the *Connected Electrical Load* section above. Do not include redundant motors such as back up motors for sewage plants.

SECONDARY:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 50 hp

PRIMARY/TRANSMISSION:

LARGEST MOTOR (A/C included): 0 HP COMPLETE SECTION BELOW FOR ALL MOTORS ≥ 100 hp (12.47 kV)
COMPLETE SECTION BELOW FOR ALL MOTORS > 750 hp (69 kV)

Description of Equipment that the Motor Drives	HP	QTY #	Motor Starter (VFD/RVS/ NONE)	Estimated Starting Frequency		Nema Code OR Running Amps & LRA	Power Factor at Starting
				Starts/hr	Starts/hr		

Are any of these motors started simultaneously? No Yes If yes, which ones? n/a

If known, project any electric loads that will be added to this service in the future:

Equipment Type: n/a

Horsepower of kW of proposed equipment to be added: n/a

When will equipment be added? (month/year):

HEATING & AIR CONDITIONING INFORMATION

PRIMARY SPACE HEATING SYSTEM: Electric Resistance Heat Pump Other: _____

TYPE OF AIR COND: None Chiller Split System/Rooftop

Primary Only:

Process Heating

Check type of heating process

- Induction heat melting
- Arc Furnace
- Resistance Furnace
- None

GENERATOR INFORMATION

Is there any type of generation equipment to be installed? (Check all that apply)

- No
- Yes, emergency standby
- Yes, supplementing or offsetting PPL supply
- Yes, sell excess power

If "Yes", please provide the following:

- Copy of the One Line Diagram showing generator connection to PPL electrical system.
- Transfer switch information (Manufacturer & Model #)*: _____
* Refer to REMSI for preapproved equipment listing.
- Size of generator: _____ kW
- Type of transfer switch: Break before make Other: _____

This information is not currently available, but will be submitted by: _____ / _____ / _____ *Date Required

*Refer to REMSI Sketch #41 Series Organization Map for additional information

ADDITIONAL CONTACT INFORMATION (if not previously provided)

GENERAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

PROJECT ENGINEER: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

ELECTRICAL CONTRACTOR: Customer

ADDRESS: _____ PHONE: () - Ext.

FAX: () -

E-MAIL: _____ CELL: () -

SEND COMPLETED FORMS TO:

PPL Electric Utilities, Business Accounts

Attn: Krista Schmoyer

MAILING ADDRESS:

FAX NUMBER:

E-MAIL ADDRESS:

827 Hausman Rd., Allentown, PA 18104-9392

FAX: (484) 634-3260

Businessaccounts@pplweb.com

PHONE NUMBER: (888) 220-9991, Option 4

THREE-PHASE ELECTRIC SERVICE INSTALLATION AREAS OF RESPONSIBILITY

Refer to PPL's Rules for Electric Meter & Service Installation (REMSI) for detailed information – <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi.aspx>.

Specific guidelines for electrical equipment installation and trenching specifications are in the Customer Reference Specifications: <https://www.pplelectric.com/at-your-service/electric-rates-and-rules/remsi/customer-reference-specifications.aspx>

General Customer Responsibilities before project can be scheduled:

- Completed application for electric service
- Two copies of site plans showing preferred service location
- Two copies of detailed drawings for the switchgear showing dimensions for the termination and metering compartment, if applicable
- A plan of the electric equipment room indicating clearances, if applicable
- Date permanent service is requested

General Customer Responsibilities before service can be constructed or connected:

- Right of way/Easements
- Underwriter's inspection certificate (Electrical inspection cut-in card)
- Payment of applicable charges such as underground service, relocation of PPL Electric Utilities facilities, inadequate load for voltage requested, reengineering, line extensions, service extensions, and temporary service

All Underground Services: (customer responsibilities per PPL Electric Utilities Specs)

- Dig and prepare the trench (before digging call PA One Call -811, or 1-800-242-1776)
- Encase underground PVC in concrete or steel conduit
- Notify PPL Electric Utilities when trenching requirements have been completed
- Backfill the trench
- Provide and install meter base for self-contained metering
- Provide and install instrument transformer cabinet for secondary metering
- Install CTs, VTs, meter base, and benelex mounting for secondary metering
- Pay applicable charges

Underground Service: (PPL Electric Utilities responsibilities)

- Provide applicable charges
- Provide CTs, VTs, meter base, and benelex mounting for secondary metering
- Provide, install, and terminate the primary service conductors
- Provide wiring of CTs, VTs, and meter base for secondary metering

Overhead Service: (customer responsibilities)

- Provide and install service entrance wire
- Provide and install service wire conduits and clamps
- Provide and install ground rods and wire
- Install CTs, VTs, CT cabinet and benelex mounting, and meter base for secondary metering

Overhead Service: (PPL Electric Utilities responsibilities)

- Provide CTs, VTs, benelex, and meter base for secondary metering
- Provide wiring of CTs, VTs, and meter base for secondary metering
- Provide and install overhead service conductors

VERIFICATION

I, James M. Rouland, being the Supervisor – Energy Procurement, at PPL Electric Utilities Corporation, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief and that I expect PPL Electric Utilities Corporation to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 relating to unsworn falsification to authorities.

Date: 5/7/2014

Signature: 