



Distributed Generation (DG) Manual

December 3, 2020 (7th Edition)
Revision 1.0



Appendix D

Application for Interconnection of DG



APPLICATION FOR INTERCONNECTION OF DISTRIBUTED GENERATION (DG Application)

Must be completed for any size or type of DG

1. All DG Owners must complete this Section regardless of size or type

DG Owner’s Name(s): _____

DG Owner’s Mailing Address (specific including zip code): _____

DG Site Address (include zip code): _____

DG Owner’s Email Address: _____

Account Number (if applicable): _____

Telephone (normal): _____ (emergency): _____

Information Prepared and Submitted By:

Name: _____

Address: _____

Contact Number (24hrs. / 7days a wk.): _____

Email: _____

Signature (required): _____ Date: _____

Name of DG Owner or DG Owner’s designated representative who can be contacted by CPS Energy at any time throughout ownership of DG system in case of emergency or important issues concerning the DG System.

DG Owner or DG Owner’s designated representative (if not same as above):
Contact Number (24hrs. / 7days a wk.):
Email:
Installer/Contractor (if not same as above):
Contact Number (24hrs. / 7days a wk.):
Email:



The following information shall be supplied by the DG Owner or DG Owner’s designated representative and/or contractor. All applicable items must be accurately completed in order that the DG Owner’s generating facilities may be effectively evaluated by CPS ENERGY for interconnection.

Is this DG System an upgrade to the existing DG System installed? Yes No

Number of units/Configuration of modules: _____

Module manufacturer: _____

Type (Synchronous, Induction, Backup or Inverter): _____

Fuel Source Type (Solar, Natural Gas, Wind, etc.): _____

Kilowatt rating for this installation (95° F): _____ kW_{ac}

Kilowatt rating for existing installation (95° F) (if applicable): _____ kW_{ac}

Total aggregated Kilowatt Rating for DG installation (95° F): _____ kW_{ac}

Kilovolt-Ampere Rating (95° F): _____ kVA_{ac} Power Factor: _____

Voltage Rating: _____ V_{ac} Amperage Rating: _____ A_{ac}

Frequency: _____ Hz Number of Phases: _____

If DG is a Grid-Tied system, amount expected to be exported to grid: _____ kW_{ac}

Instructions:

For DG Systems with total capacity (including aggregate) less than 25 kW_{ac} in a single parcel of property with single or multiple meters, complete section 2 and initial, sign, and date the last page of the application.

For DG Systems with total capacity (including aggregate) of 25 kW_{ac} and greater in a single parcel of property with single or multiple meters, or DG Systems of any size within the Downtown Network Area, complete sections 3 to 6 and initial, sign, and date the last page of the application.

2. DG Systems with Total Capacity (Including Aggregate) Less Than 25 KW_{ac} in a Single Parcel of Property with Single or Multiple Meters

- Submit the following information:
- Detailed operational one-line diagram
- Site plan



- Meter loop drawing (elevation view)/ Proposed Equipment Layout
- “Visible” disconnect device or breaker and include the following ratings as applicable: Full Load Rating, Momentary Rating, Interrupting rating
- Show all protective devices and include as applicable size, rating, manufacturer, type, style, model, settings

Note: All drawings to scale – email in PDF format to DG@CPSEnergy.com

Expected Start-up Date: _____

Please describe the Normal Operation of Interconnection, provide operating procedure: (examples: provide power to meet base load, demand management, standby, back-up, other)
Also, will the DG parallel continuously with CPS Energy? If only paralleling momentarily, for how long?

If the type is not an Inverter, provide RMS Symmetrical Short Circuit Current and X/R Ratio at Rated Voltage at point of common coupling for:

Line-to Ground Fault: _____ X/R: _____

3-Phase Fault: _____ X/R: _____

Wiring Configuration

Single or 3-Phase Winding Configuration
(Choose One)

- 3 Wire Delta
- 3 Wire Wye
- 4 Wire Wye
- Single Phase 2 wire
- Single Phase 3 wire

Neutral Grounding System Used: (Choose One)

- Ungrounded
 - Solidly Grounded
 - Ground Resistor = _____ Ohms
- Provide Grounding Transformer Data as well if applicable



6. Anti-Islanding Protection

CPS Energy Instructions: Please describe **in detail** the anti-islanding protection scheme, as well as, the worst-case time delay for shutting down the DG system. Indicate how long it takes the DG system to disconnect from the grid. Anti-islanding sensing must meet the NEC, IEEE 1547-2018, and UL 1741.

DG Owner Response: _____

Specify the type of DG system you are applying for below:

_____ I am applying for a DG Systems with total capacity (including aggregate) of less than 25 kW_{ac} in a single parcel of property with single or multiple meters

_____ I am applying for a DG Systems with total capacity (including aggregate) of 25 kW_{ac} or greater in a single parcel of property with single or multiple meters

Is the DG system on the Downtown Distribution Network system? Yes No

CPS Energy internal use only

CPS Energy Reviewer Comments:

CPS Energy Reviewer Name (Print): _____

Signature: _____ Date: _____



By executing this Application, the DG Owner, or its authorized representative, certifies that the information in the Application is true and accurate and DG Owner certifies that they have read, understand and agree to comply with all CPS Energy terms and conditions as stated or incorporated in the current DG Manual, including the Interconnection Requirements and the Interconnection Terms, applicable CPS Energy Rates and Riders, Rules and Regulations and Service Standards, which shall prevail over any inconsistent provisions in any form or acknowledgement submitted by the DG Owner. Any additional terms or different terms proposed by DG Owner are rejected unless expressly agreed to in writing by CPS Energy.

DG Owner or authorized representative printed name, Title/Position:

Signature: _____

Date: _____