



CenterPoint Energy  
P O Box 1700  
Houston, TX 77251-1700

**IF YOU ARE APPLYING FOR DISTRIBUTED GENERATION, PLEASE FOLLOW THE INSTRUCTIONS IN THE PARAGRAPHS BELOW. YOU WILL NEED TO COMPLETE AND SIGN AND THEN MAIL, FAX, OR EMAIL THE "APPLICATION FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION WITH THE UTILITY SYSTEM" AND "APPLICATION AND STUDY FEES ADDENDUM" TO THE ADDRESS, FAX NUMBER, OR EMAIL ADDRESS LISTED BELOW. DO NOT SEND IN THE "AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION" AT THIS TIME.**

**IF YOU WERE REQUESTED TO COMPLETE AN "AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION," PLEASE COMPLETE THE HIGHLIGHTED AREAS AND THEN PRINT AND SIGN IN THE TWO PLACES AND THEN MAIL, FAX, OR EMAIL THE "AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION" TO THE ADDRESS, FAX NUMBER, OR EMAIL ADDRESS LISTED BELOW.**

To run any distributed generation (DG) device that is connected to the CenterPoint Energy (CNP) system, you will first have to complete an application. You can go to our website at [www.centerpointenergy.com](http://www.centerpointenergy.com), and do a search for distributed generation. There you will find helpful information. Send hard copies to me at: Bellaire Service Center, CenterPoint Energy, P.O. Box 1700, Houston, TX 77251-1700. The fax number is 713-945-9164. Anything that you have that is electronic can be emailed to me at [Residential\\_DG@centerpointenergy.com](mailto:Residential_DG@centerpointenergy.com) or [Commercial\\_DG@centerpointenergy.com](mailto:Commercial_DG@centerpointenergy.com)

The application and addendum need to be filled out and returned to me. Two documents are part of the Public Utility Commission of Texas (PUCT) Substantive Rules. One document is an example of a one-line. Please let me know if there are any questions on your part.

Your supplier or contractor can be a source of information in filling out the application. Attached for your information are files for prospective customers who are considering installation of DG devices that would be operated directly with the CNP distribution grid. The PUCT has established state-wide rules for any such installation 0 - 10,000 kW and connected at a voltage up to 60,000 Volts. This would define a project under the PUCT rule requirements. Interconnection to the distribution grid will require review and compliance per the PUCT rules.

Basically, all DG projects must have design review prior to installation by CNP for compliance. Normally, there will be a study fee (established in the "CNP\_Distributed\_Generation\_Application.pdf"). We will notify you after the initial review if this is applicable. We will coordinate the technical review of the interconnection equipment. The review package and application should be sent to the address shown in the application. Information should include a one-line diagram showing the relationship of the DG unit tied into a breaker or breakers in the electrical panel and the CNP meter location. The AC disconnect switch should be between the inverter and electrical panel and must be a lockable, external handle, visible and readily accessible disconnect switch and typically installed within 10 feet of the CNP meter. If the AC disconnect switch is installed more than 10 feet from the CNP meter, a weather-resistant, easily-read placard must be installed within 10 feet of the CNP meter, clearly identifying the location of the AC disconnect switch. Manufacturer specifics for the machine (or inverter) and disconnect switch are necessary in the review. Depending on actual conditions at the site, possible CNP system modifications may be required to accommodate the interconnection which would be at customer expense. The determination of any possible modification costs or study fees would be detailed in the report of our review.

Finally, once an application has been accepted as being in compliance, you will be notified of our approval of the connection design for construction. A field inspection will be required to demonstrate the installation is built as planned **PRIOR TO ACTUAL SYNCHRONIZATION WITH THE CNP**

GRID. An interconnection agreement will be prepared and must be signed by the customer prior to energization.

I hope this initial information will be useful in your further development of the project. Feel free to have your prospective equipment supplier or installer contact us for clarification of technical questions in this review. An internet search for distributed renewable generation or solar panels, suppliers, and contractors in the Houston area should help you locate installers.

If you have further questions, please contact me at 713-945-4155.

The address to the PUCT substantive rules web site is included below for your convenience. <https://www.puc.texas.gov/industry/electric/business/dg/Dg.aspx>

**Jason R. Hulbert**  
**Supervising Engineer**  
**Distribution System Protection**  
**CenterPoint Energy**

CenterPoint Energy Houston Electric, LLC  
Applicable: Entire Service Area

CNP 8031

#### 6.1.2.4 INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

##### 6.1.2.4.1 DISTRIBUTED GENERATION SERVICE – RATE DGS

Company shall interconnect distributed generation pursuant to Public Utility Commission of Texas Substantive Rules 25.211 and 25.212.

A customer seeking interconnection and parallel operation of distributed generation with Company must complete and submit the Application for Interconnection and Parallel Operation of Distributed Generation with the Utility System.

#### PRE-INTERCONNECTION STUDY FEE SCHEDULE

Pre-certified distributed generation units that are up to 500 Kw that export not more than 15% of the total load on a single radial feeder and also contribute not more than 25% of the maximum potential short circuit current on a radial feeder are exempt from any pre-interconnection study fees. For all other DG applications, the study fees in the following table will apply.

<b>Non-Exporting</b>	<b>0 to 10 kW</b>	<b>10+ to 500 kW</b>	<b>500+ to 2000kW</b>	<b>2000+ to 10,000 kW</b>
1. Pre-certified, not on network	\$0	\$0	\$650	\$845
2. Non pre-certified, not on network	\$312	\$503	\$1,210	\$1,405
3. Pre-certified, on network	\$272	\$640	\$1,680	\$1,875
4. Not pre-certified, on network	\$525	\$1,150	\$2,240	\$2,435

<b>Exporting</b>	<b>0 to 10 kW</b>	<b>10+ to 500 kW</b>	<b>500+ to 2000kW</b>	<b>2000+ to 10,000 kW</b>
1. Pre-certified, not on network	\$75	\$220	\$870	\$1,065
2. Non pre-certified, not on network	\$312	\$769	\$1,430	\$1,625
3. Pre-certified, on network	\$272	\$860	\$1,900	\$2,095
4. Not pre-certified, on network	\$495	\$1,370	\$2,460	\$2,655

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**Prescribed Form for the Application for Interconnection and Parallel Operation of Distributed Generation**

Customers seeking to interconnect distributed generation with the utility system will complete and file with the company the following Application for Parallel Operation:

**APPLICATION FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION**

Return Completed Application to: CenterPoint Energy Houston Electric, LLC  
Attention: Jason R. Hulbert  
Distribution System Protection  
P.O. Box 1700  
Houston, TX 77251

Customer's Name: \_\_\_\_\_

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

Contact Person: \_\_\_\_\_

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

Telephone Number: \_\_\_\_\_

Service Point Address: \_\_\_\_\_

Information Prepared and Submitted By: \_\_\_\_\_

(Name and Address) \_\_\_\_\_

Signature \_\_\_\_\_

The following information shall be supplied by the Customer or Customer's designated representative. All applicable items must be accurately completed in order that the Customer's generating facilities may be effectively evaluated by CenterPoint Energy Houston Electric, LLC for interconnection with the utility system.

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**GENERATOR**

Number of Units: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Type (Synchronous, Induction, or Inverter): \_\_\_\_\_

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

AC Kilowatt Rating (95° F at location) \_\_\_\_\_

AC Kilovolt-Ampere Rating (95° F at location): \_\_\_\_\_

Power Factor: \_\_\_\_\_

Voltage Rating: \_\_\_\_\_

Number of Phases: \_\_\_\_\_

Frequency: \_\_\_\_\_

Do you plan to export power: \_\_\_\_\_ Yes / \_\_\_\_\_ NO

If Yes, maximum amount expected: \_\_\_\_\_

Do you wish CenterPoint Energy Houston Electric, LLC to report excess generation to your REP? \_\_\_\_\_ Yes / \_\_\_\_\_ No

Pre-Certification Label or Type Number (e.g., UL-1741 Utility Interactive or IEEE 1547.1):

\_\_\_\_\_

Expected Energization and Start-up Date: \_\_\_\_\_

Normal operation of interconnection: (examples: provide power to meet base load, demand management, standby, back-up, other (please describe)) \_\_\_\_\_

One-line diagram attached: \_\_\_\_\_ Yes

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For systems not using pre-certified inverters (e.g., inverters certified to UL-1741 or IEEE 1547.1), does CenterPoint Energy Houston Electric, LLC have the dynamic modeling values from the generator manufacturer? \_\_\_Yes \_\_\_No

If not, please explain: \_\_\_\_\_

(Note: For pre-certified equipment the answer is Yes. Otherwise, applicant must provide the dynamic modeling values if they are available)

Layout sketch showing lockable, "visible" disconnect device is attached:: \_\_\_\_\_Yes

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**Authorized Release of Information List**

By signing this Application in the space provided below, Customer authorizes CenterPoint Energy Houston Electric, LLC to release Customer’s proprietary information to the extent necessary to process this Application to the following persons:

	Name	Phone Number	Email Address
Project Manager			
Electrical Contractor			
Consultant			
Other			

CenterPoint Energy Houston Electric, LLC

[CUSTOMER NAME]

BY: \_\_\_\_\_

BY: \_\_\_\_\_

PRINTED NAME:

PRINTED NAME:

Jason R. Hulbert

\_\_\_\_\_

TITLE: Supervising Engineer  
Distribution System Protection

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

APPLICATION AND STUDY FEES ADDENDUM

*Please provide the following information for the generating facility.*

*(For Solar (PV) Only)*

**Panel Wattage / Number of Panels:** \_\_\_\_\_

ESI ID (from electric bill): \_\_\_\_\_

Inverter Capacity: \_\_\_\_\_ kW

Inverter peak efficiency rating: \_\_\_\_\_ %

Generation capacity: \_\_\_\_\_ **DC** kW Rating

Generation maximum output: \_\_\_\_\_ kW **AC**  
(should equal **Kilowatt Rating** from pg. 5 of the application)

**NOTE:** The application review package shall include a electrical one-line diagram showing the relationship of the generation unit tied into a breaker or breakers in the electrical panel and the CenterPoint Energy (CNP) meter location. The Safety Disconnect switch shall be between the inverter and electrical panel and must be lockable with an external handle, visible and readily accessible, and within 10 feet of the CenterPoint Energy Meter. If Disconnection switch is installed more than 10 feet from the CenterPoint Energy meter, a weather-resistant, easily-read placard shall be install on the CenterPoint Energy meter, clearly identifying the location of the safety switch.

**Manufacturer specifics for the inverter and the safety disconnect switch are necessary in the application review.**

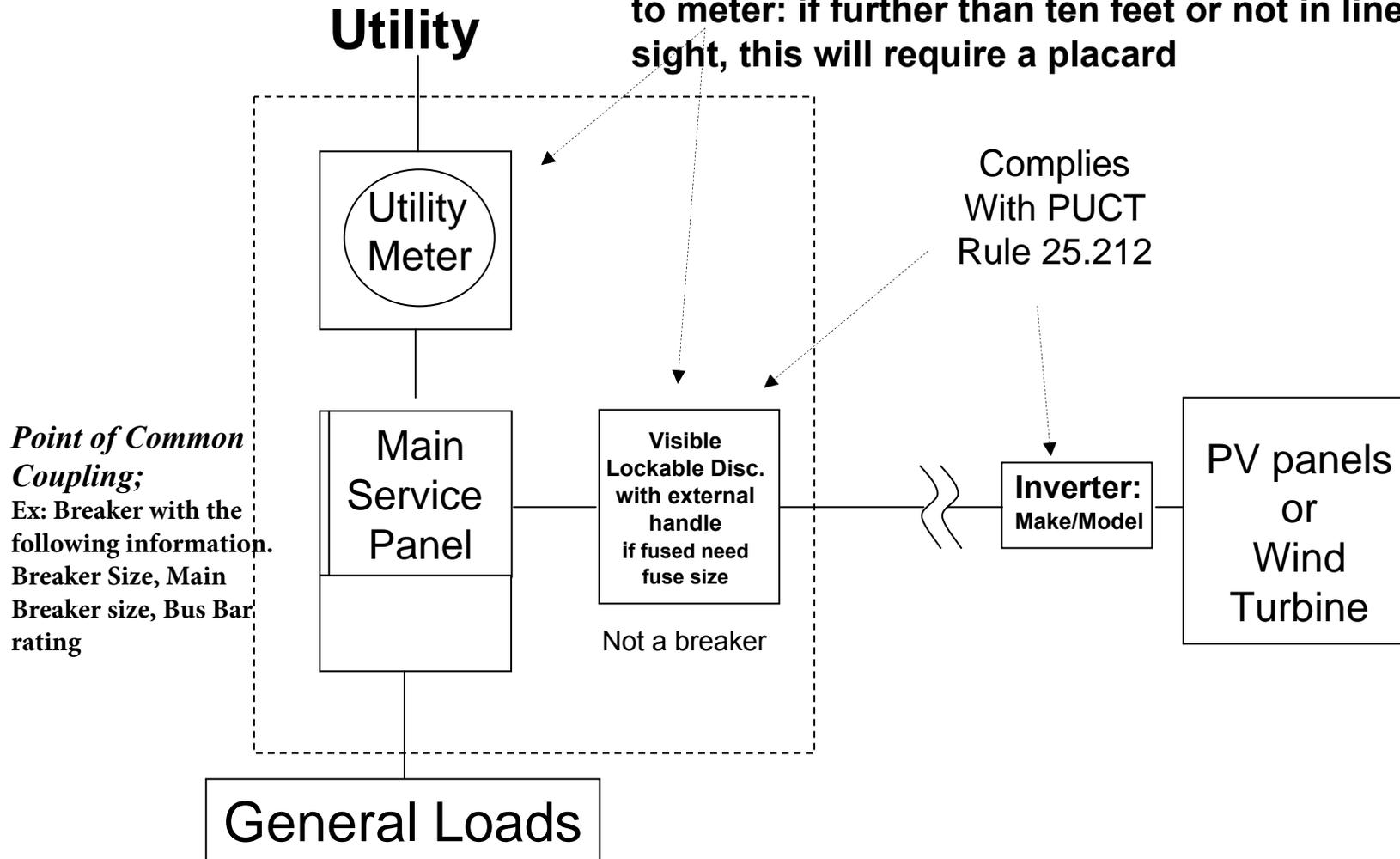
*If there are any questions, please call us at 713-945-4155  
To submit applications via email please use one of the email  
provided below.*

*Residential\_DG@centerpointenergy.com*

*Commercial\_DG@centerpointenergy.com*

# Example One-Line Diagram For Small Distributed Generation Installations

Visible lockable AC disconnect in close proximity to meter: if further than ten feet or not in line of sight, this will require a placard



**Point of Common Coupling;**  
Ex: Breaker with the following information.  
Breaker Size, Main Breaker size, Bus Bar rating

Complies With PUCT Rule 25.212