



# **CITY OF SAN AUGUSTINE**

## **DISTRIBUTED GENERATION GUIDELINES MANUAL**

DECEMBER - 2024

## **Introduction**

Distributed Generation (DG) technologies continue to develop and have reached a level of cost-effectiveness that has led an increasing number of energy consumers to consider the installation of DG systems, especially renewable DG systems. The City of San Augustine (COSA) has developed the policies and procedures contained in this Guidelines Manual to ensure DG installations in the COSA service area **meet procedural, technical, and operational requirements for the safe interconnection and parallel operation of these systems on the COSA electric distribution system.**

This Distributed Generation Guidelines Manual (DG Guidelines Manual) is intended to provide customers with accurate procedural, technical and policy information that will assist and guide customers through the interconnection process and support informed decisions at every stage or phase of this process.

The DG Guidelines Manual is organized in the following manner:

<b>Section</b>	<b>Purpose</b>
<b>1. Overview - Q&amp;A</b>	Answer basic questions that customers will likely ask / need to know prior to starting on a DG project.
<b>2. Definitions</b>	Define the main terms associated with DG to ensure customers understand the terms that are associated with COSA's DG policies, procedures, and requirements.
<b>3. Technical Requirements</b>	Provide the engineering-based technical requirements and specifications that all DG systems must meet prior to installation / interconnection of the DG system.
<b>4. Procedural and Policy Requirements</b>	Identify the process and policy requirements that must be satisfied to interconnect a DG system.
<b>5. Application Form</b>	The form that must be completed and submitted prior to a customer beginning the process to install a DG system.
<b>6. DG Agreement</b>	The agreement between the COSA and a customer that desires to install, interconnect and operate a DG system in parallel with the distribution system.
<b>7. DG Interconnection Diagrams</b>	Diagrams that illustrates key installation and interconnection requirements for standard configurations of DG systems.
<b>8. Large DG Systems (&lt;50 kW)</b>	Policy and procedural information for DG systems larger than 50 kW (AC).



***Section 1: Distributed Generation  
Overview - Q&A***

## ***What is the purpose of the City of San Augustine Distributed Generation (DG) Interconnection Guidelines?***

The City of San Augustine (COSA) Distribution Generation Interconnection Guidelines Manual was developed to establish the requirements and procedures for the safe installation, interconnection, and parallel operation of distributed generation facilities within the City's electric service area.

COSA's DG Interconnection Guidelines are aligned with the Texas Public Utility Commission's (PUC) DG rules and regulations (P.U.C. SUBST. R. 25.211, 25.212 and 25.217) as well as other statutory guidelines, including the Texas Public Utilities Regulatory Act (PURA), which provides for the interconnection and parallel operation of Distributed Renewable Generation with electric utilities in Texas.

The information contained in this Manual has been developed for COSA's customers that are interested in and/or considering the installation of interconnected distributed generation. COSA wants to ensure that our customers have all the technical and procedural information needed to have a full understanding of the requirements involved with this process in advance of any decision to install a DG system.

This Manual also provides information for COSA customers regarding the rate that COSA has put in place regarding the purchase of any energy that is generated by a DG system and delivered to the COSA distribution system.

***The bottom line: COSA is committed to the safe interconnection and operation of all DG installations on the COSA distribution system.***

## ***I am a City of San Augustine electric customer and considering installing a DG system. Where should I start?***

City of San Augustine (COSA) customers should contact the City very early in the "DG decision-making" process. Our representatives will be glad to take time to answer questions and provide both technical and procedural information regarding your potential DG installation. **The COSA DG Policy is clear: DG systems will not be allowed to interconnect and/or operate until the following steps have occurred:**

1. Customer must submit information and application to COSA for the proposed DG system(s). The COSA DG Application Form is included in the COSA DG Interconnection Guidelines Manual and is also available on the City's website ([www.cityofsanaugustinetx.gov](http://www.cityofsanaugustinetx.gov)) and at the City office.
2. The DG application must be reviewed and approved by COSA, prior to installation of the DG system. COSA must confirm that the proposed system meets the technical requirements and specifications and determine if the proposed DG installation requires an engineering study. In some cases, engineering studies are essential to ensure the safe and proper operation of the DG system. Engineering studies may also result in the denial of a DG application.
3. Once the DG system is installed COSA will confirm the installation is consistent with the DG Application and meets all COSA requirements. This inspection must take place prior to interconnecting the DG system with the COSA distribution system.
4. The customer must execute a DG Agreement (DGA) with COSA. A DGA is required prior to interconnecting the DG system with the COSA distribution system. The DGA confirms that the system meets all technical requirements and sets forth the rate at which COSA will purchase any energy that is delivered to COSA (energy in excess of the DG output that is used by the customer).

## ***What are the technical specifications and requirements for the interconnection of a DG system?***

The term “technical requirements” can be a little confusing in terms of the DG application, installation, and agreement process. Here are some key things to know and consider regarding technical requirements:

- ✓ COSA has adopted the technical requirements and specifications that are aligned and consistent with the Texas Public Utility Commission (PUC) DG Rule. These specifications set forth the requirements for the safe interconnection and operation of DG systems. These requirements also establish the criteria used to determine if an engineering study is needed.
- ✓ Many technical requirements are addressed / covered by having “pre-certified” equipment with appropriate IEEE, UL and other “stamps of approval” from the DG system manufacturer. For most systems, these certifications signal to COSA that the system being installed meets and/or exceeds technical engineering requirements for the major components of the system (e.g., the solar panels and inverter(s)).
- ✓ One important technical requirement is the NEC Article 690.12 Rapid Shutdown of PV Systems on Building. COSA will check to ensure that all relevant NEC requirements are met, including PV system circuits installed on or in buildings shall include a rapid shutdown function to reduce shock hazard for firefighters in accordance with 690.12(A) through 690.12(D).
- ✓ There are also technical requirements related to the installation. COSA has provided the requirements (technical and procedural) in this Manual. Several of these requirements are included in the DG Application Form and the DG Agreement. These documents are included in this Manual.

## ***Are there any DG system size restrictions or size thresholds to consider?***

- ✓ Yes. The Public Utility Commission of Texas (PUCT) defines DG as “10 MW or less”. While this definition is utilized by the COSA, the City has developed a policy that sets a threshold of 20 kW AC and 50 kW AC for certain policies that are provided in this DG Guidelines Manual.
- ✓ The City may perform an engineering review for DG systems larger than 20 kW AC, and for DG systems larger than 50 kW AC, the City may require an engineering study to determine if the proposed DG system will be allowed to interconnect to the City’s distribution system. A standard Distributed Generation Agreement (DGA) for systems 50 kW AC and smaller is included in the Guidelines document. Systems larger than 50 kW AC will be based on this standard DGA but may require additional terms and conditions.
- ✓ The City encourages customers considering the installation and interconnection of DG system to “right-size” these systems. A good rule to consider is to size DG systems at not larger than 30% of the premise (residence or business) peak demand. For most residences, this means a “right-sized DG system would be in the 2-5 kW AC range.

## ***Does COSA sell and/or install DG systems? Does COSA have listed DG vendors or contractors?***

COSA does not sell and/or install DG systems. The City is committed to the safe and reliable operation and maintenance of the COSA distribution system.

COSA understands that COSA customers look to the City for sound and unbiased information related to electric energy topics and issues. And with that in mind, COSA can provide general industry information to customers regarding distributed generation. However, ***COSA will not endorse or recommend systems, vendors, or contractors for DG system installations.***

## ***Will COSA allow energy from DG systems to be exported to the City's electric grid?***

Due to contract provisions in the City's power supply contract, **the City shall not allow the export of energy from DG systems to the City's grid.** All DG systems will be required to ensure DG capacity is sized to not export energy or have an "export control" installed on the DG system to prevent any export of energy to the City's electric distribution system.

## ***What fees are associated with a DG interconnection?***

COSA will require permit fees and an application fee for the interconnection, and parallel operation of a DG system on the COSA distribution system. Please contact:

### **City of San Augustine:**

- **Email:** [utilitysupport@cityofsanaugustinetx.gov](mailto:utilitysupport@cityofsanaugustinetx.gov)
- **Phone:** (936) 275-2121
- **Street Address:** 301 S Harrison St., San Augustine, TX 75972



***Section 2: Distributed Generation  
Definitions***

## DG Definitions

- **Automatic Disconnect Device:** A switch that is capable of opening and closing automatically at the Point of Interconnection that provides clear indication of the switch position, and when in the open position isolates the distributed generation Battery Storage System.
- **City Manager:** The City Manager and/or his/her duly authorized representative.
- **City DG Contact Person:** The person or persons designated by the City Manager to serve as the City's contact for all matters related to distributed generation interconnection.
- **Battery Storage System:** Technology developed for storing electric charge by using specially developed batteries so the stored energy can be utilized at a later time. The system typically utilizes an electro-chemical solution and includes batteries, inverters, and disconnect switches. The system may be connected to and serve critical loads when utility power is unavailable.
- **Commission:** The Public Utility Commission of Texas or its successor organization having jurisdiction over the matters herein contained.
- **Customer:** A person or entity interconnected or seeking interconnection to the San Augustine electric system for the purpose of receiving or exporting electric power from or to the San Augustine electric system.
- **DG Agreement (DGA):** An agreement between a customer and the City that sets forth the contractual conditions under which a company and a customer agree that one or more facilities may be interconnected with the City's electric system.
- **DG Application:** The form of application of a customer seeking interconnection and parallel operation of distributed generation with the City's electric system.
- **Distributed Generation (DG):** An electrical generating facility located at a customer's point of delivery (point of common coupling) of ten (10) megawatts (MW) or less and connected at a voltage less than sixty (60) kilovolts (kV) which may be connected in parallel operation to the City of San Augustine's electric system.
- **Distributed Renewable Generation:** Electric generation with a capacity of not more than 2,000 kilowatts provided by renewable energy technology, that is installed on a retail electric customer's side of the meter.
- **Distributed Generation Owner:** An owner of distributed generation, the customer on whose side of the meter distributed generation is installed and operated, regardless of whether the customer takes ownership of the distributed generation, or a person who by contract is assigned ownership rights to energy produced from distributed generation located at the premises of the customer on the customer's side of the meter.
- **Distributed Generation Export Controls:** Protective relays implementing a reverse power limiting function (known as Reverse Power Protection). Relays are sensing and computational devices which can signal a circuit breaker to trip based on measured quantities of voltage and current, dependent on the function(s) implemented.
- **Energy Delivered:** Electric energy, measured in kWh, sent / delivered to the Customer (premise) by the City of San Augustine.
- **Interconnection:** The physical connection of distributed generation to the utility system in accordance



with the requirements of this ordinance so that parallel operation can occur.

- **Interconnection study:** A study or studies that may be undertaken by the City in response to its receipt of a completed DG Application. Pre-interconnection studies may include, but are not limited to, service studies, coordination studies and utility system impact studies.
- **Manual Disconnect Device:** A manual switch at the Point of Interconnection that provides clear indication of the switch position, and when in the open position isolates the distributed generation from load unrelated to generation of electricity or operation of the facility.
- **Networked Services / Networked Secondary:** Two or more utility primary distribution feeder sources electrically tied together on the secondary (low voltage) side to form one power source for one or more customers. The service is designed to maintain service to the customers even after the loss of one of these primary distribution feeder sources.
- **Parallel Operation:** The operation of distributed generation by a customer while the customer is connected to the San Augustine electric system.
- **Point of Interconnection (Point of Service, Point of Common Coupling):** The point where the electrical conductors of the City of San Augustine utility system are connected to the customer's conductors and where any transfer of electric power between the customer and the City of San Augustine utility system takes place, such as switchgear near the meter.
- **Pre-certified Equipment:** A specific generating and protective equipment system or systems that have been certified as meeting the applicable parts of this ordinance relating to safety and reliability by an entity approved by the Commission.
- **Stabilized:** The San Augustine electric system shall be considered stabilized when, following a disturbance, the system returns to the normal range of voltage and frequency for a duration of two minutes.



***Section 3: Distributed Generation  
Technical Requirements***

# **Technical Requirements for the Installation and Parallel Operation of a DG System**

## **1. General Requirements**

- 1.1. All interconnections shall comply with P.U.C. SUBST. R. 25.212 and successors. In addition, all interconnections shall comply with applicable state and federal laws and regulations.
- 1.2. All interconnections shall comply with local building and electric codes as adopted by the City of San Augustine. Installation of all interconnections shall be inspected by the City of San Augustine. Inspection and approval of the installation by the City of San Augustine is a prerequisite and a continuing condition of interconnection and parallel operation of distributed generation.
- 1.3. Variations from the Technical Requirements herein must be reviewed and approved by the City of San Augustine prior to implementation. Variations in the point of interconnection must be approved by the City of San Augustine City Manager (or designee) and included in the executed DG Agreement.

## **2. Protection of line workers and City's system**

- 2.1. The distributed generation facility must have an interrupting device capable of interrupting the maximum available fault current, an interconnection disconnect device, a generator disconnect device, an over-voltage trip, an under-voltage trip, an over/under frequency trip, and a manual or automatic synchronizing check (for facilities with stand-alone capability).

## **3. Manual Disconnect**

- 3.1. The customer shall provide and install a manual load break switch that provides clear indication of the switch position to provide separation between the City of San Augustine electrical system and the customer's electrical generation system. The location of the disconnect switch must be approved by the City of San Augustine. The disconnect switch shall be easily visible, mounted separately from metering equipment, readily accessible to City of San Augustine personnel at all times, and capable of being locked in the open position with a City of San Augustine padlock. The City of San Augustine reserves the right to open the disconnect switch isolating the customer's electrical generating system (which may or may not include the customer's load) from City of San Augustine electrical system for any of the following reasons:
  - 3.1.1. To facilitate maintenance or repair of the City of San Augustine electrical system, or
  - 3.1.2. When emergency conditions exist on the City of San Augustine electrical system, or
  - 3.1.3. When the customer's electrical generating system is determined to be operating in a hazardous or unsafe manner or is or potentially can unduly affect the City of San Augustine electrical system waveform, or
  - 3.1.4. When the customer's electrical generating system is determined to be adversely affecting other electric consumers on the City of San Augustine electrical system, or
  - 3.1.5. Failure of the customer to comply with applicable codes, regulations, and standards in effect at the time, or
  - 3.1.6. Failure of the customer to abide by any contractual arrangement or operating agreement with the City of San Augustine.

#### **4. Rapid Shutdown of PV Systems**

- 4.1. Per NEC Article 690.12 Rapid Shutdown of PV Systems on Building: PV system circuits installed on or in buildings shall include a rapid shutdown function to reduce shock hazard for firefighters in accordance with 690.12(A) through 690.12(D).

#### **5. Power Quality**

- 5.1. Voltage: The City of San Augustine shall endeavor to maintain the distribution voltages on the electrical system but shall not be responsible for factors or circumstances beyond its control. The customer shall provide an automatic method of disconnecting generation equipment from the City of San Augustine electrical system within 10 cycles should a voltage deviation greater than +5% or -10% from normal be sustained for more than 30 seconds (1800 cycles) or a voltage deviation greater than +10% or -30% from normal be sustained for more than 10 cycles. If high or low voltage complaints or flicker complaints result from the operation of the customer's electrical generation, the customer's generating system shall be disconnected until the problem is resolved.
- 5.2. Frequency: The City of San Augustine shall endeavor to maintain a 60-hertz nominal frequency on the electrical system. The customer shall provide an automatic method of disconnecting generation equipment from the City of San Augustine electrical system within 15 cycles should a deviation in frequency of +0.5Hz or -0.7Hz from normal occur.
- 5.3. Harmonics: In accordance with IEEE 519, the total harmonic distortion (THD) of voltage shall not exceed 5% of a pure sine wave of 60-hertz frequency or 3% of the 60-hertz frequency for any individual harmonic when measured at the point of interconnection with the City of San Augustine electrical system. Also, the total current distortion shall not exceed 5% of the fundamental frequency sine wave. If harmonics beyond the allowable range result from the operation of the customer's electrical generation, the customer's generating system shall be disconnected until the problem is resolved.
- 5.4. Flicker: The distributed generation facility shall not cause excessive voltage flicker on the City of San Augustine electrical system. This flicker shall not exceed 3% voltage dip, in accordance with IEEE 519 (Section 10.5), as measured at the point of interconnection.
- 5.5. Power factor: The customer's electrical generation system shall be designed, operated and controlled at all times to provide reactive power requirements at the point of interconnection from 0.97 lagging to 0.97 leading power factor. Induction generators shall have static capacitors that provide at least 97% of the magnetizing current requirements of the induction generator field. The City of San Augustine may, in the interest of safety, authorize the omission of capacitors. However, where capacitors are used for power factor correction, additional protective devices may be required to guard against self-excitation of the customer's generator field.

#### **6. Loss of Source**

- 6.1. The customer shall provide approved protective equipment necessary to immediately, completely and automatically disconnect the customer's electrical generation equipment from the City of San Augustine electrical system in the event of a fault on the customer's system, a fault on the City of San Augustine system or loss of source on the City of San Augustine system. Such protective equipment shall conform to the criteria specified in UL 1741 and IEEE 1547.

- 6.2. The customer's generating system shall automatically disconnect from the grid within 10 cycles if the voltage on one or more phases falls and stays below 70% of nominal voltage for at least 10 cycles. The automatic disconnecting device may be of the manual or automatic reclose type and shall not be capable of reclosing until after the City of San Augustine service voltage and frequency are restored to within the normal operating range and the system is stabilized.
- 6.3. DG systems equipped with battery storage systems may be equipped with an automatic disconnect switch to isolate from the utility system. Subpanels isolated by the automatic disconnect switch may be energized from the battery storage system. Returning to utility power will be according to section 12.1.

## **7. Coordination and Synchronization**

- 7.1. The customer shall be solely responsible for coordination and synchronization of the customer's electrical generating system with all aspects of the City of San Augustine electrical system, and the customer assumes all responsibility for damage or loss that may occur from improper coordination and synchronization of its generating system with the City of San Augustine electrical system.

## **8. Metering**

- 8.1. At the point of customer / premise interconnection, the City will provide a standard data recorder (meter) that can measure the "kWh Delivered" in intervals established by the City of San Augustine. If special (non-standard) metering is required, the City will identify this requirement and any cost to the customer prior to approval of the DG Application.

## **9. Export Controls**

- 9.1. DG system that are sized with capacity that may export energy in certain scenarios must have export controls that prevent the export of energy from the DG system (premise) to the City's electric distribution system.

## **10. Interconnection Study**

- 10.1. The City of San Augustine will determine whether an interconnection study is necessary, based on relevant engineering factors including the output of the system, the location of the system and other City of San Augustine distribution system factors. Interconnection studies, include service study, coordination study, and utility system impact study, as needed, and determined in the sole discretion of the City. If the interconnection study is deemed necessary, the City of San Augustine shall perform the study under reasonable terms and conditions agreed upon by both the customer and City of San Augustine and at the customer's sole expense.
- 10.2. Any modifications or additions to the City of San Augustine Electric system identified through the interconnection study as required for the safe and reliable interconnection of Customer's facility shall be solely at the Customer's expense. Customer shall not acquire any ownership in such modifications or additions to City of San Augustine distribution system.
- 10.3. The interconnection study may conclude the proposed system may not be approved / authorized by the City. In such cases, the City will make the study available to the customer and may also offer recommendations for modifications that could result in authorization to proceed with a revised system.

10.4. No study fee will be charged if the proposed generation site is not on a networked secondary and if all of the following apply:

10.4.1. The proposed generation equipment is pre-certified. Generation equipment that are less than 20 kW AC shall be considered pre-certified if a UL 1741 listed inverter that also meets IEEE 1547 specifications is used. For solar PV installations, to be pre-certified system must have UL 1703 listed PV modules, and

10.4.2. The proposed generation system does not expect to export more than 15% of total load on the feeder, and

10.4.3. The proposed generation system does not contribute more than 25% of the maximum possible short circuit current of the feeder.

**11. Protection.** The distributed generation facility must have interrupting devices capable of interrupting the maximum available fault current, an interconnection disconnect device, a generator disconnect device, an over-voltage trip, an under-voltage trip, an over/under frequency trip and a manual or automatic synchronizing check (for facilities with standalone capability). Facilities rated over 10kW, three-phase, must also have reverse power sensing and either a ground over-voltage or a ground over-current trip depending on the grounding system. Grounding shall be done in accordance with UL 1741, IEEE 1547, and NEC Article 250.

**12. Three-Phase Generators.**

12.1. Synchronous machines:

12.1.1. The distributed generation facility's circuit breakers shall be three-phase devices with electronic or electromechanical control.

12.1.2. The Customer is solely responsible for proper synchronization of its generator with the City of San Augustine system.

12.1.2.1. The excitation system response ratio shall not be less than 0.5.

12.1.2.2. The generator's excitation system shall conform to the field voltage versus time criteria specified in ANSI Standard C50. 13-1989.

12.2. Induction machines: The induction machines used for generation may be brought up to synchronous speed if it can be demonstrated that the initial voltage drop at the point of interconnection is within the flicker limits specified in this document.

**13. Inverters:**

13.1. Line-commutated inverters do not require synchronizing equipment.

13.2. Self-commutated inverters require synchronizing equipment.

**14. Standards.** The distributed generation equipment shall be designed, installed, operated, and maintained in accordance with, but not limited to, ANSI standards, UL standards, IEEE standards, the National Electrical Code, and any other applicable local, state, or federal codes and statutes. In the case of a conflict between the requirements in this document and any of those standards or codes, this document shall prevail.



***Section 4: Distributed Generation  
Procedural and Policy Requirements***

## **Process Overview**

- **Customer must submit information and application to COSA** for the proposed DG system(s). The COSA DG Application Form is included in the COSA DG Interconnection Guidelines Manual – and is also available on the City’s website ([www.cityofsanagustinetx.gov](http://www.cityofsanagustinetx.gov)) and at the City offices.
- The **DG application must be reviewed and approved by COSA, prior to installation** of the DG system. COSA must confirm that the proposed system meets the technical requirements and specifications and determine if the proposed DG installation requires an engineering study. In some cases, engineering studies are essential to ensure the safe and proper operation of the DG system. Engineering studies may also result in the denial of a DG application.
- Once the DG system is installed COSA will confirm the installation is consistent with the DG Application and meets all COSA requirements. This **inspection must take place prior to interconnecting the DG system** with the COSA distribution system.
- The **customer must execute a DG Agreement with COSA**. This agreement is required prior to interconnecting the DG system with the COSA distribution system. The DG Agreement confirms that the system meets all technical requirements and sets forth the rate at which COSA will purchase any energy that is delivered to COSA (in excess of the DG output that is used by the customer).

## **Customer Provided Information**

- The information regarding the characteristics of the DG System are as specified in the Application for Interconnection and Parallel Operation of Distributed Generation with the City of San Augustine electric system filed by the Customer with City of San Augustine;
- The DG System and associated other electrical components and devices meet National Electrical Code standards;
- All permits, inspections, approvals, and/or licenses necessary for the installation or operation of the DG System have been obtained. The DG System has been successfully tested to UL 1741 and IEEE 1547 standards or has been satisfactorily tested by an independent laboratory with published results.
- Customer shall provide manufacturer's data or other written proof acceptable to City of San Augustine to verify the accuracy of the foregoing warranties and representations. If any of foregoing warranties and representations are inaccurate, City of San Augustine may, without waiver of or prejudice to any other remedy, immediately disconnect the DG system from the City of San Augustine electric system and terminate this agreement.

## **Energy Purchases**

- City of San Augustine will not purchase from Customer the electrical output from the DG system. DG systems must have energy export controls (relays that prevent the export of energy from a DG system to the City’s electric distribution system).

## **Metering**

At the point of customer / premise interconnection, the City of San Augustine will provide a standard data recorder (meter) that can measure the “kWh Delivered” and the “kWh Received” in intervals established by the City of San Augustine. If special (non-standard) metering is required, the City of San Augustine will identify this requirement and any cost to the customer prior to approval of the DG Application.



### **Interconnection Study**

The City of San Augustine will determine whether an interconnection study is necessary, based on relevant engineering factors including the output of the system, the location of the system and other City of San Augustine distribution system factors. Interconnection studies, include service study, coordination study, and utility system impact study, as needed and determined in the sole discretion of City of San Augustine. If the interconnection study is deemed necessary, the City of San Augustine shall perform the study under reasonable terms and conditions agreed upon by both the customer and City of San Augustine and at the customer's sole expense.

Any modifications or additions to the City of San Augustine's Electric system identified through the interconnection study as required for the safe and reliable interconnection of Customer's facility shall be solely at the Customer's expense. Customer shall not acquire any ownership in such modifications or additions to City of San Augustine's distribution system.

The interconnection study may conclude the proposed system may not be approved / authorized by the City of San Augustine. In such cases, the City of San Augustine will make the study available to the customer and may also offer recommendations for modifications that could result in authorization to proceed with a revised system.

No study fee will be charged if the proposed generation site is not on a networked secondary and if all of the following apply:

- 1) The proposed generation equipment is pre-certified. Generation equipment that are less than 20 kW AC shall be considered pre-certified if a UL 1741 listed inverter that also meets IEEE 1547 specifications is used. For solar PV installations, to be pre-certified system must have UL 1703 listed PV modules, and
- 2) The proposed generation system does not expect to export more than 15% of total load on the feeder, and
- 3) The proposed generation system does not contribute more than 25% of the maximum possible short circuit current of the feeder.

### **DG System - Customer Responsibilities**

Customer shall be solely responsible for the design, installation, operation, maintenance, and repair of the DG System and Customer's interconnection facilities. The interconnection of the DG System to the City of San Augustine electrical system shall comply with the Public Utility Commission of Texas Substantive Rules §25.212 relating to Technical Requirements for Interconnection and Parallel Operation of On-Site Distributed Generation, (16 Texas administrative Code §25.212) or any successor rule addressing distributed generation. City of San Augustine shall inspect the DG System and the interconnection equipment. All costs to interconnect with the City of San Augustine electric system shall be the responsibility of Customer. City of San Augustine shall not be required to take or pay for any energy generated by the DG System until the DG System successfully passes City of San Augustine's system verification inspection and Customer shall have reimbursed City of San Augustine for all its interconnection costs. Maintenance of the DG System shall be performed in accordance with the applicable manufacturer's recommended maintenance schedule.

### **Right to Temporarily Curtail and/or Interrupt**

City of San Augustine shall not be obligated to accept and shall have the right to require Customer to temporarily curtail, interrupt, or reduce, deliveries of energy in order to construct, install, maintain, repair, replace, remove, investigate, inspect, or test any part of the interconnection facilities, equipment, or any part of the City of San Augustine electric system. City of San Augustine may disconnect, without notice, the DG System from the electric distribution system, if, in City of San Augustine's opinion, a hazardous condition exists, and such immediate action is necessary to protect persons, or City of San Augustine's facilities or other customers' facilities from damage or interference caused by Customer's DG System or lack of properly operating protective devices.

### **City Access**

Customer hereby grants City of San Augustine access on and across its property at any reasonable time to inspect the DG System and the interconnection equipment, to read or test meters and metering equipment, and to operate, maintain and repair City of San Augustine's facilities. No inspection by City of San Augustine of the DG System or the interconnection facilities shall impose on City of San Augustine any liability or responsibility for the operation, safety or maintenance of the DG system or Customer's interconnection facilities.

### **Liability Insurance Requirements**

For Facilities 50 kW and Smaller: The Customer is not required to provide a certificate of insurance coverage to City of San Augustine. It is recommended, however, that the Customer carry liability insurance coverage which insures the Customer against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation, and maintenance of the Customer's generating equipment.

For Facilities Larger than 50 kW: The insurance requirements will be determined based on the size of the system and the engineering analysis. It is recommended that the Customer carry liability insurance coverage which insures the Customer against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation, and maintenance of the Customer's generating equipment.



***Section 5: Distributed Generation  
Interconnection Application***

## APPLICATION AND CUSTOMER INFORMATION

This application is for the coordination of interconnection of a distributed generation (DG system) between “Customer”, the City of San Augustine and the electrician / contractor doing the proposed work. The following needs to be filled out completely and clearly.

<b>Date</b>	
<b>First Name (Customer)</b>	
<b>Last Name (Customer)</b>	
<b>Account Number</b>	
<b>Premise Type</b>	<input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other
<b>Phone</b>	
<b>Email</b>	
<b>Installation Address</b> (physical address)	

## DG SYSTEM INFORMATION

<b>Total Nameplate Rating (kW)</b>		<b>Over 50 kW?</b>	<b>Yes</b>	<b>No</b>
<b>(If Solar DG) Panel Manufacturer</b>				
<b>Inverter Manufacturer</b>				
<b>Does system have a battery backup?</b>				
<b>IEEE and/or UL Certification(s)</b> (list all or attach documentation)				
<b>Rapid Shutdown of PV Systems on Building</b> (provide documentation)				
<b>Please provide the system engineering and/or manufacturers drawings and specifications</b>	<input type="checkbox"/> System one-line diagram <input type="checkbox"/> Additional system documentation			

## INFORMATION PREPARED AND SUBMITTED BY

<b>License Number</b> (Master Electrician, Electrical Engineer, or Homestead Owner)	
<b>Company Name</b>	
<b>Phone</b>	
<b>Email</b>	
<b>Project Contact Person</b>	
<b>Signature</b>	
<b>Date</b>	

## NOTES TO APPLICANT

1. It is understood that permit charges must be paid in accordance with City of San Augustine permit requirements.
2. Charges will be available after the application has been reviewed. Charges are required to be paid and application for service be made prior to issuance of permit.
3. If work has not been completed within a 180-day period – the application will be voided.
4. If additional work is required by the City of San Augustine – there will be additional charges that will need to be paid.
5. **ALLOW A MINIMUM OF TEN WORKING DAYS FOR PROCESSING**
6. Return to City of San Augustine: 301 S Harrison St., San Augustine, TX 75972; (936) 275-2121

## CITY OF SAN AUGUSTINE APPROVAL

<b>By:</b>	
<b>Title:</b>	
<b>Date:</b>	
<b>Notes:</b>	



***Section 6: Distributed Generation  
Agreement ( $\leq 50\text{kW AC}$ )***

FOR THE INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION IN THE CITY OF SAN AUGUSTINE

THIS AGREEMENT is entered into by and between the City of San Augustine (City) and \_\_\_\_\_ Customer (Customer).

City of San Augustine owns and operates a municipal electric utility engaged in the distribution of electricity serving the City of San Augustine and portions of San Augustine County, Texas; and Customer intends to construct, own, operate, maintain, and connect to the City of San Augustine electric distribution system, a Distributed Generation system (DG System) with a nameplate rating less than or equal to 50kW AC at address:

\_\_\_\_\_; and the parties hereto wish to contract for the purchase and sale of the electrical output from the DG System, and the terms of its interconnection with the City of San Augustine electric distribution system. THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereby contract and agree with each other as follows:

**Article 1.0** | This Agreement shall be effective as of the date of execution by the latter of the two parties (the Effective Date) and, subject to the other terms of this Agreement, shall continue in effect for a period of one year, and month to month thereafter.

**Article 2.0** | The DG System will be installed at Customer's premises at the address specified above. Customer shall install, operate, and maintain the DG System in full and faithful compliance with all applicable federal, state, and local laws, ordinances, rules and regulations, and generally accepted industry codes and standards, including, but not limited to the National Electrical Safety Code and the National Electrical Code. Customer shall promptly notify City upon receipt of any citation or other official notice of alleged violation of laws, ordinances, rules, and regulations concerning the DG System.

**Article 3.0** | Customer warrants and represents that:

**3.01** | The information regarding the characteristics of the DG System are as specified in the Application for Interconnection and Parallel Operation of Distributed Generation with the City Electric system filed by the Customer with City;

**3.02** | The DG System and associated other electrical components and devices meet National Electrical Code standards;

**3.03** | All permits, inspections, approvals, and/or licenses necessary for the installation or operation of the DG System have been obtained. The DG System has been successfully tested to UL 1741 and IEEE 1547 standards or has been satisfactorily tested by an independent laboratory with published results.

**3.04** | Customer shall provide manufacturer's data or other written proof acceptable to City to verify the accuracy of the foregoing warranties and representations. If any of foregoing warranties and representations are inaccurate, City may, without waiver of or prejudice to any other remedy, immediately disconnect the DG system from the City electric system and terminate this agreement.

**Article 4.0** | At the point of customer / premise interconnection, the City will provide a standard data recorder (meter) that can measure the "kWh Delivered" in intervals established by the City. If special (non-standard) metering is required, the City will identify this requirement and any cost to the customer prior to approval of the DG Application.

**Article 5.0** | The City will determine whether an interconnection study is necessary, based on relevant engineering factors including the output of the system, the location of the system and other City distribution

system factors. Interconnection studies, include service study, coordination study, and utility system impact study, as needed and determined in the sole discretion of City. If the interconnection study is deemed necessary, the City shall perform the study under reasonable terms and conditions agreed upon by both the customer and City and at the customer's sole expense.

Any modifications or additions to the City's Electric system identified through the interconnection study as required for the safe and reliable interconnection of Customer's facility shall be solely at the Customer's expense. Customer shall not acquire any ownership in such modifications or additions to City's distribution system.

The interconnection study may conclude the proposed system may not be approved / authorized by the City. In such cases, the City will make the study available to the customer and may also offer recommendations for modifications that could result in authorization to proceed with a revised system.

No study fee will be charged if the proposed generation site is not on a networked secondary and if all of the following apply:

- 1) The proposed generation equipment is pre-certified. Generation equipment that are less than 20 kW AC shall be considered pre-certified if a UL 1741 listed inverter that also meets IEEE 1547 specifications is used. For solar PV installations, to be pre-certified system must have UL 1703 listed PV modules, and
- 2) The proposed generation system does not expect to export more than 15% of total load on the feeder, and
- 3) The proposed generation system does not contribute more than 25% of the maximum possible short circuit current of the feeder.

**Article 6.0** | Customer shall be solely responsible for the design, installation, operation, maintenance, and repair of the DG System and Customer's interconnection facilities. The interconnection of the DG System to the City electrical system shall comply with the Public Utility Commission of Texas Substantive Rules §25.212 relating to Technical Requirements for Interconnection and Parallel Operation of On-Site Distributed Generation, (16 Texas administrative Code §25.212) or any successor rule addressing distributed generation. City shall inspect the DG System and the interconnection equipment. All costs to interconnect with the City electric system shall be the responsibility of Customer. City shall not be required to take or pay for any energy generated by the DG System until the DG System successfully passes City's Field Inspection and Customer shall have reimbursed City for all its interconnection costs. Maintenance of the DG System shall be performed in accordance with the applicable manufacturer's recommended maintenance schedule.

**Article 7.0** | City shall not be obligated to accept and shall have the right to require Customer to temporarily curtail, interrupt, or reduce, deliveries of energy in order to construct, install, maintain, repair, replace, remove, investigate, inspect, or test any part of the interconnection facilities, equipment, or any part of the City electric system. City may disconnect, without notice, the DG System from the electric distribution system, if, in City's opinion, a hazardous condition exists, and such immediate action is necessary to protect persons, or City's facilities or other customers' facilities from damage or interference caused by Customer's DG System or lack of properly operating protective devices.

**Article 8.0** | Customer hereby grants City access on and across its property at any reasonable time to inspect the DG System and the interconnection equipment, to read or test meters and metering equipment, and to



operate, maintain and repair City’s facilities. No inspection by City of the DG System or the interconnection facilities shall impose on City any liability or responsibility for the operation, safety or maintenance of the DG system or Customer's interconnection facilities.

**Article 9.0 | CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS CITY OF SAN AUGUSTINE, ITS ELECTED AND NON-ELECTED OFFICIALS, OFFICERS, AGENTS AND EMPLOYEES FROM AND AGAINST ANY AND ALL LIABILITIES, LOSSES, CLAIMS, DAMAGES, ACTIONS, SUITS OR DEMANDS FOR DAMAGES (INCLUDING COSTS AND ATTORNEY'S FEES, BOTH AT TRIAL AND ON APPEAL) ARISING OUT OF, RESULTING FROM, OR IN ANY MANNER CONNECTED WITH THE BREACH OF ANY WARRANTY OR REPRESENTATION MADE BY CUSTOMER IN THIS AGREEMENT, OR IN ANY MANNER CONNECTED WITH THE DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE OR REPAIR OF ANY PART OF CUSTOMER'S DG SYSTEM OR INTERCONNECTION FACILITIES, INCLUDING, WITHOUT LIMITATION LIABILITIES, LOSSES, CLAIMS, DAMAGES, ACTIONS, SUITS OR DEMANDS FOR DAMAGES FOR OR ON ACCOUNT OF PERSONAL INJURY TO, OR DEATH OF, ANY PERSON, OR DAMAGE TO, OR DESTRUCTION OR LOSS OF, PROPERTY BELONGING TO CUSTOMER, CITY OF SAN AUGUSTINE OR ANY THIRD PERSON.**

**Article 10.0 | For Facilities 50 kW and Smaller:** The Customer is not required to provide a certificate of insurance coverage to City of San Augustine. It is recommended, however, that the Customer carry liability insurance coverage which insures the Customer against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation and maintenance of the Customer’s generating equipment.

For Facilities Larger than 50 kW: The insurance requirements will be determined based on the size of the system and the engineering analysis. It is recommended that the Customer carry liability insurance coverage which insures the Customer against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation, and maintenance of the Customer’s generating equipment.

**Article 11.0 |** After the initial term of 12 months, this agreement shall continue in force thereafter unless terminated by either party giving at least thirty (30) days written notice to the other.

**Article 12.0 |** Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

**If to City:**

City of San Augustine  
301 S Harrison St., San Augustine, TX 75972  
Attn: City Manager

**If to Customer:**

\_\_\_\_\_  
  
\_\_\_\_\_

The above-listed names, titles, and addresses of either party may be changed by written notification to the other.

**Article 13.0** | A material failure of either party to fully, faithfully, and timely perform its obligations under this Agreement shall be a breach of this Agreement. In the event of a breach which is not cured within thirty (30) days after receipt of written notice to the party in default, the party not in default may terminate this Agreement. **If** Customer is in breach of this Agreement, and such breach continues for thirty (30) days after written notice from City, City may disconnect the DG System or otherwise suspend taking energy from Customer. All rights granted under this section are in addition to all other rights or remedies available at law or under this Agreement or the applicable City Utilities Rules and Regulations.

**Article 14.0** | This Agreement shall inure to the benefit of and be binding upon the heirs, successors, or assigns of each of the parties hereto. Customer may not assign this Agreement without the prior written consent of City. Any assignment without such consent shall be null and void.

**Article 15.0** | This Agreement constitutes the entire agreement and understanding between the parties hereto and can be amended only by agreement between the parties in writing. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the parties shall be deemed to be reduced only as much as may be required to remove the impediment.

**Article 16.0** | The failure of either party to insist in anyone or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provision or the relinquishment of any such right or any other right hereunder.

**Article 17.0** | This Agreement and all disputes arising hereunder shall be governed by the laws of the State of Texas. Venue for all such disputes shall be proper and lie exclusively in San Augustine County, Texas.

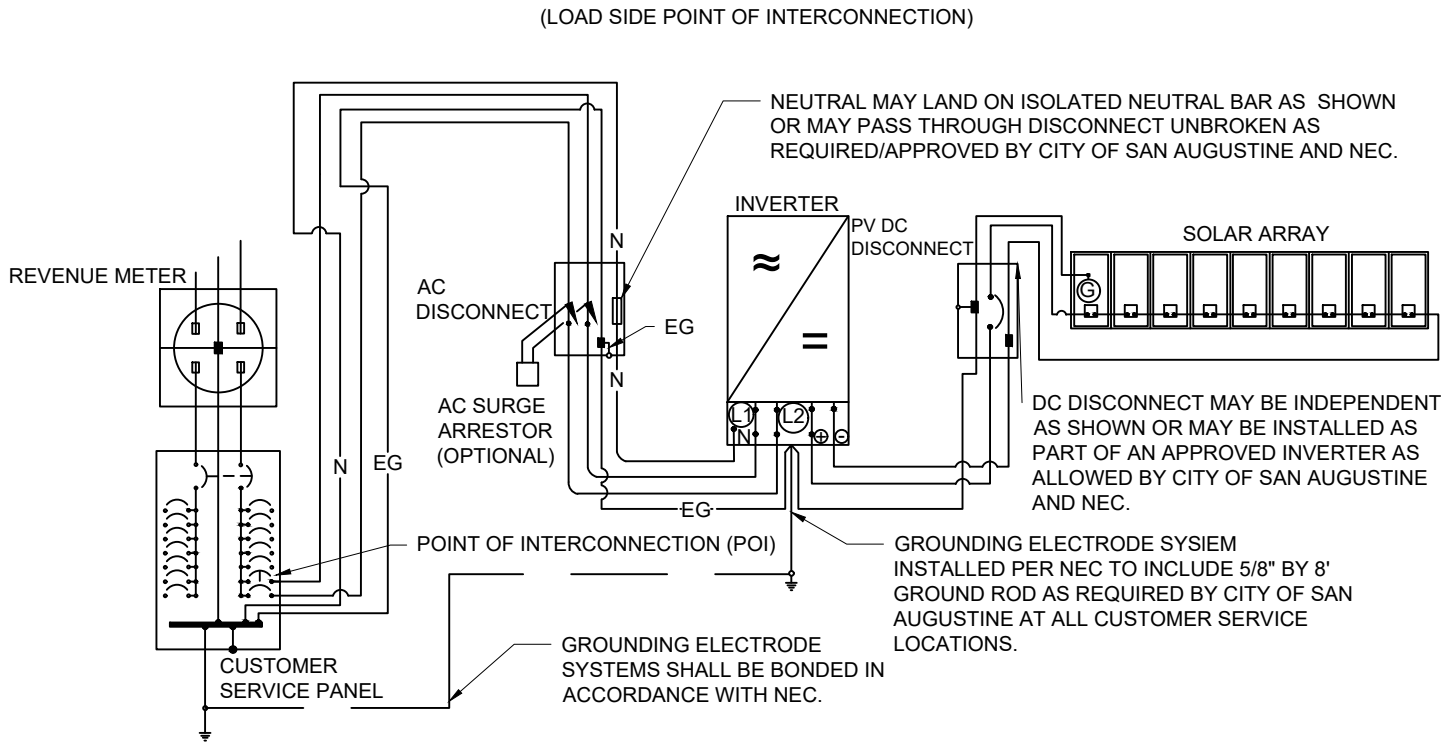
IN WITNESS WHEREOF, the parties hereto have caused their names to appear below, signed by authorized representatives.

<b>City of San Augustine</b>	
By (Signature):	_____
Name (Print):	_____
Title:	_____
Date:	_____

<b>Customer</b>	
By (Signature):	_____
Name (Print):	_____
Date:	_____



***Section 7: Distributed Generation  
Interconnection Diagrams***

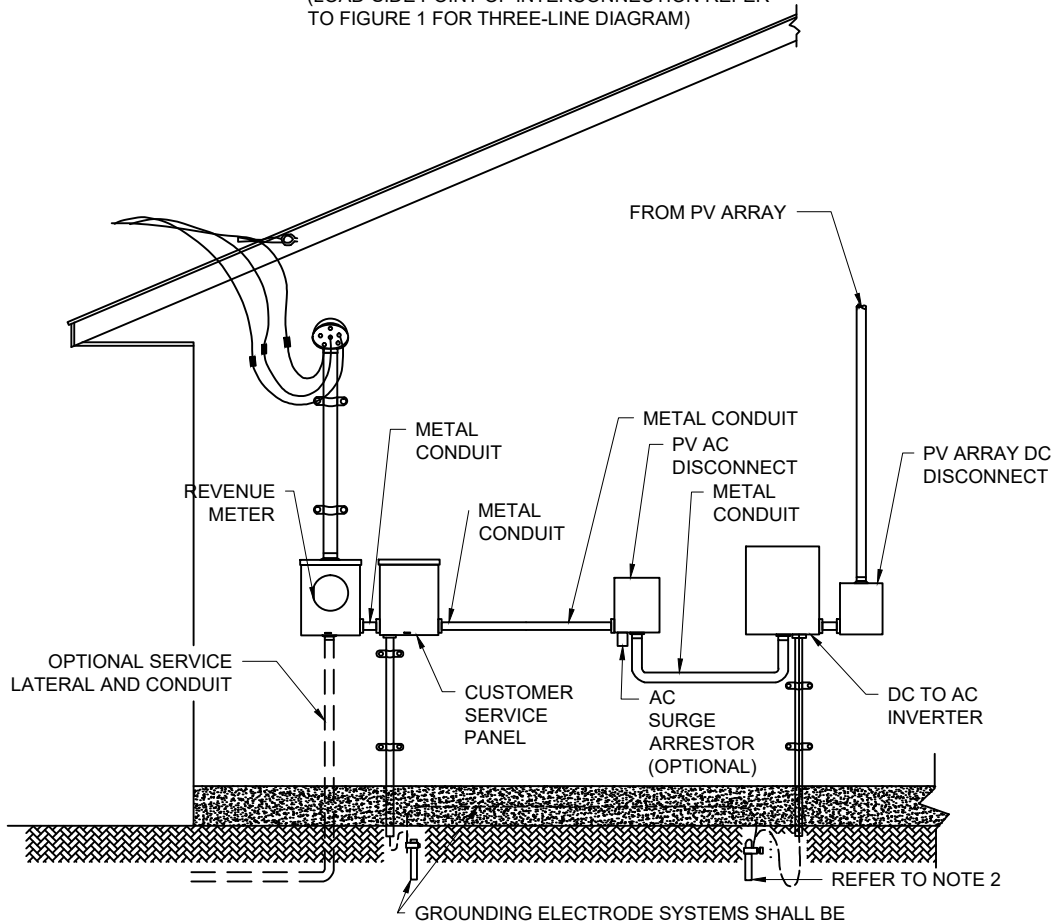


**NOTES:**

1. TYPICAL INTERACTIVE PV SYSTEM WIRING DIAGRAM, FOR ILLUSTRATION PURPOSES ONLY. REFER TO EQUIPMENT MANUFACTURER LITERATURE FOR ACTUAL EQUIPMENT WIRING RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH CITY OF SAN AUGUSTINE ELECTRIC SERVICE STANDARDS AND NATIONAL (NEC, UL AND IEEE) CODES.
2. INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL BE INSTALLED IN METAL RACEWAYS.
3. THE PV DC GROUNDING SYSTEM SHALL NOT BE BONDED TO THE AC GROUNDING SYSTEM BY USING A COMBINED DC GROUNDING ELECTRODE CONDUCTOR AND AC EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR MAY CHOOSE TO USE THE OPTION SHOWN ABOVE OR MAY INSTALL A GROUNDING ELECTRODE CONDUCTOR FROM THE INVERTER DIRECTLY TO THE SERVICE GROUNDING ELECTRODE SYSTEM.
4. WHERE THE POINT OF INTERCONNECTION IS TO BE MADE AHEAD OF THE SERVICE EQUIPMENT, IT SHALL BE MADE AFTER THE CITY OF SAN AUGUSTINE REVENUE METER. SUCH INSTALLATION MUST BE PRE-APPROVED BY CITY OF SAN AUGUSTINE. (REFER TO FIGURE 3 AND 4).

FIGURE 1  
TYPICAL PHOTOVOLTAIC (PV) SYSTEM  
120/240-VOLT SINGLE-PHASE THREE-WIRE DIAGRAM

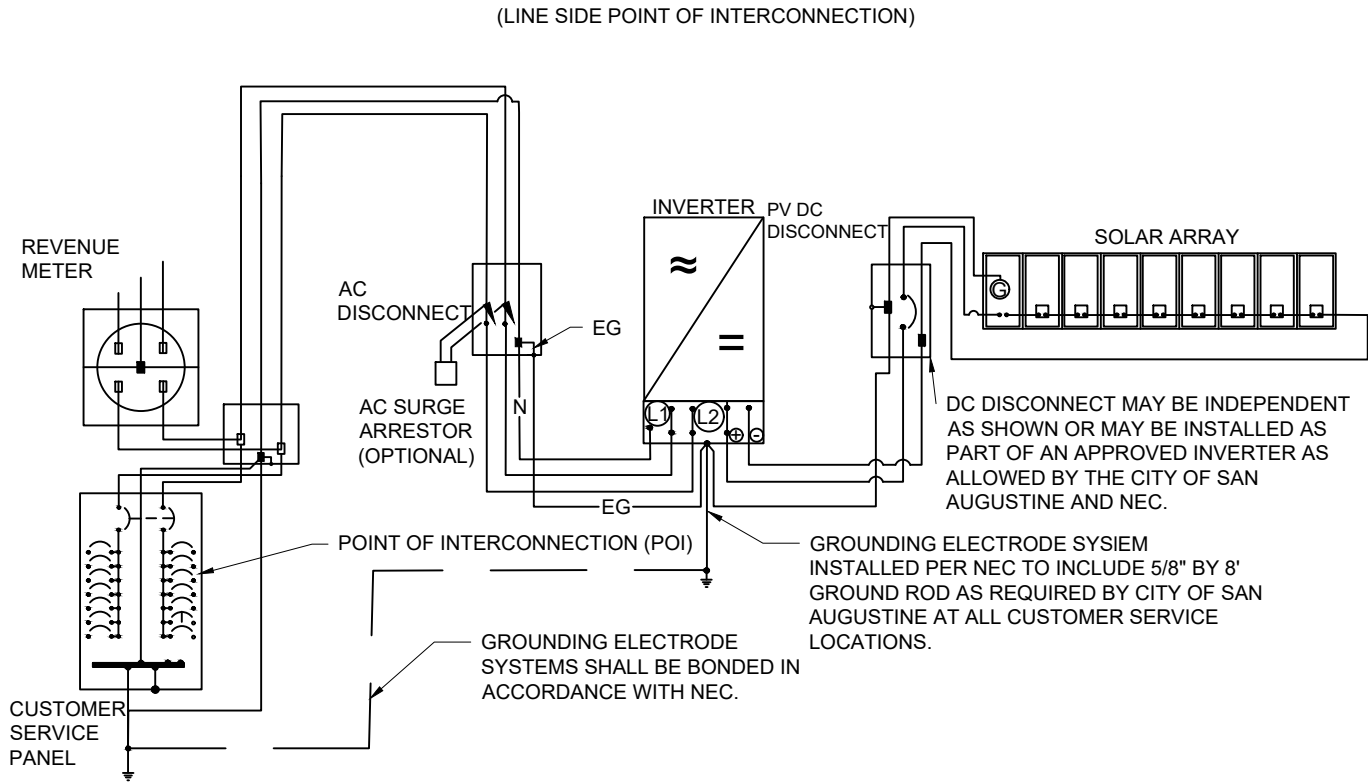
FIGURE 2  
 TYPICAL 120/240-VOLT, SINGLE-PHASE PHOTOVOLTAIC (PV) SYSTEM  
 (LOAD-SIDE POINT OF INTERCONNECTION REFER  
 TO FIGURE 1 FOR THREE-LINE DIAGRAM)



**NOTES:**

1. INVERTER OUTPUT CIRCUIT CONDUCTOR SHALL BE INSTALLED IN METAL RACEWAYS FROM INVERTER TO POINT OF INTERCONNECTION.
2. GROUNDING ELECTRODE SYSTEM INSTALLED AS PER NEC TO INCLUDE 5/8-INCH X 8-FOOT GROUND ROD AS REQUIRED BY CITY OF SAN AUGUSTINE AT ALL CUSTOMER SERVICE LOCATIONS.
3. THE PV DC GROUNDING SYSTEM SHALL NOT BE BONDED TO THE AC GROUNDING SYSTEM BY USING A COMBINED DC GROUNDING ELECTRODE CONDUCTOR AND AC EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR MAY CHOOSE TO USE THE OPTION SHOWN ABOVE OR MAY INSTALL A GROUNDING ELECTRODE CONDUCTOR DIRECTLY FROM THE INVERTER GROUNDING ELECTRODE TERMINAL TO THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM.
4. THE PV AC DISCONNECT SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE REVENUE METER.
5. LABELING AND IDENTIFICATION OF ALL PV RELATED EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH THE NEC.
6. WHERE THE POINT OF INTERCONNECTION IS TO BE MADE AHEAD OF THE SERVICE EQUIPMENT, IT SHALL BE MADE AFTER THE CITY OF SAN AUGUSTINE REVENUE METER. SUCH INSTALLATIONS MUST BE PRE-APPROVED.

	<b>ELECTRICAL DISTRIBUTION          CONSTRUCTION SPECIFICATIONS</b>		<b>TYPICAL          PHOTOVOLTAIC SYSTEM</b>	APPROVED	BY
				UNIT NUMBER <b>FIGURE 2</b>	
<a href="http://WWW.SE-TEXAS.COM">WWW.SE-TEXAS.COM</a> <small>TEXAS REGISTRATION          NUMBER F-1594</small>					

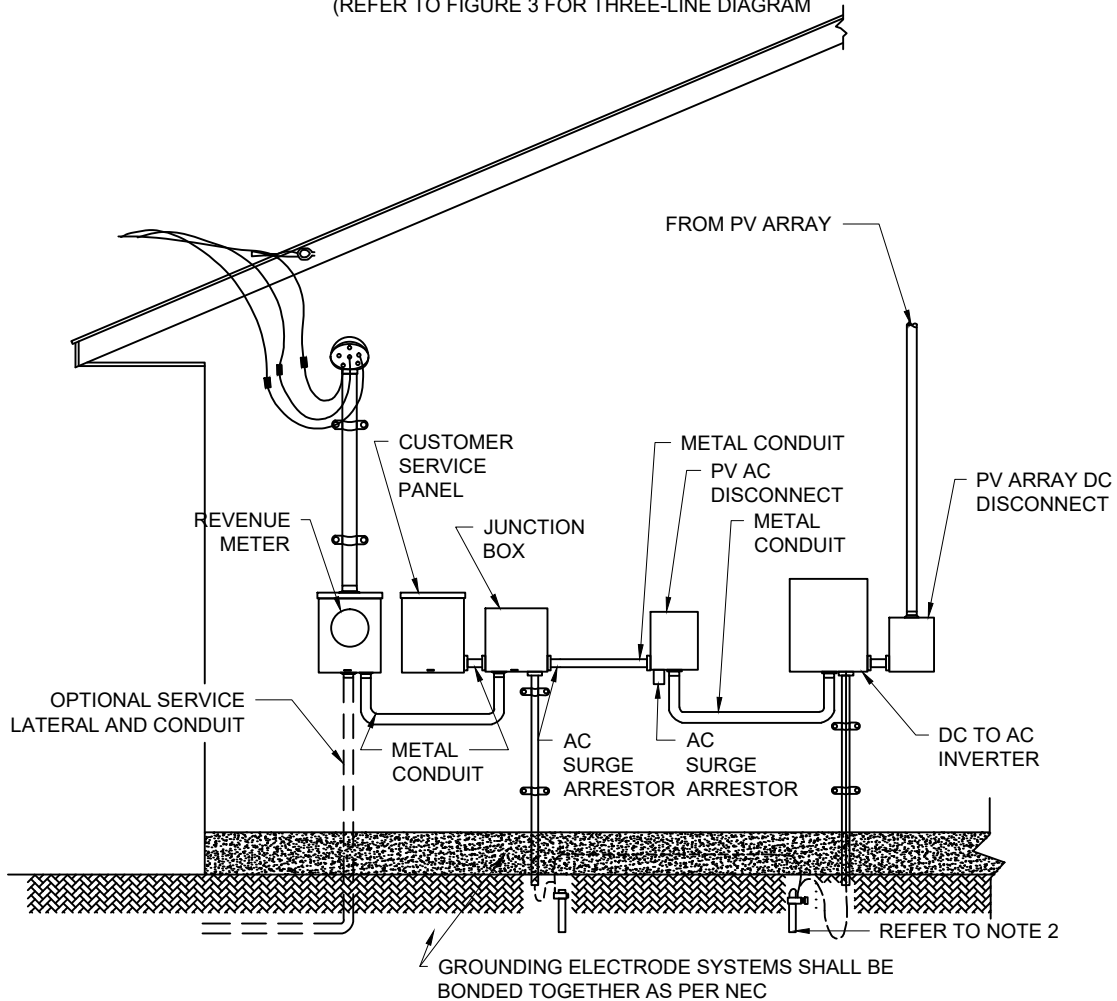


**NOTES:**

1. TYPICAL INTERACTIVE PV SYSTEM WIRING DIAGRAM, FOR ILLUSTRATION PURPOSES ONLY. REFER TO EQUIPMENT MANUFACTURER LITERATURE FOR ACTUAL EQUIPMENT WIRING RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH CITY OF SAN AUGUSTINE SERVICE STANDARDS AND NATIONAL (NEC, UL AND IEEE) CODES.
2. INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL BE INSTALLED IN CONTINUOUS METAL RACEWAYS.
3. THE PV DC GROUNDING SYSTEM SHALL NOT BE BONDED TO THE AC GROUNDING SYSTEM BY USING A COMBINED DC GROUNDING ELECTRODE CONDUCTOR AND AC EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR MAY CHOOSE TO USE THE OPTION SHOWN ABOVE OR MAY INSTALL A GROUNDING ELECTRODE CONDUCTOR FROM THE INVERTER DIRECTLY TO THE SERVICE GROUNDING ELECTRODE(S).
4. THE POINT OF INTERCONNECTION SHALL BE MADE AFTER THE CITY OF SAN AUGUSTINE REVENUE METER IN A JUNCTION BOX SUITABLE FOR THE CONDITIONS AND PROVIDED WITH LOCKING PROVISIONS. SUCH INSTALLATION MUST BE PRE-APPROVED BY CITY OF SAN AUGUSTINE.



FIGURE 3  
TYPICAL PHOTOVOLTAIC (PV) SYSTEM  
120/240-VOLT SINGLE-PHASE THREE-WIRE DIAGRAM

FIGURE 4  
 TYPICAL 120/240-VOLT, SINGLE-PHASE PHOTOVOLTAIC (PV) SYSTEM  
 (LINE-SIDE POINT OF INTERCONNECTION)  
 (REFER TO FIGURE 3 FOR THREE-LINE DIAGRAM)



**NOTES:**

1. INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL BE INSTALLED IN METAL RACEWAYS FROM INVERTER TO POINT OF INTERCONNECTION.
2. GROUNDING ELECTRODE SYSTEM INSTALLED AS PER NEC TO INCLUDE 5/8-INCH X 8-FOOT GROUND ROD AS REQUIRED BY CITY OF SAN AUGUSTINE AT ALL CUSTOMER SERVICE LOCATIONS.
3. THE PV DC GROUNDING SYSTEM SHALL NOT BE BONDED TO THE AC GROUNDING SYSTEM BY USING A COMBINED DC GROUNDING ELECTRODE CONDUCTOR AND AN AC EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR MAY CHOOSE TO USE THE OPTION SHOWN ABOVE OR MAY INSTALL A GROUNDING ELECTRODE CONDUCTOR DIRECTLY FROM THE INVERTER GROUNDING ELECTRODE TERMINAL TO THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM.
4. THE PV AC SERVICE DISCONNECT SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE REVENUE METER.
5. LABELING AND IDENTIFICATION OF ALL PV RELATED EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH THE NEC.
6. THE POINT OF INTERCONNECTION SHALL BE MADE AFTER THE REVENUE METER IN A JUNCTION BOX SUITABLE FOR THE CONDITIONS AND PROVIDED WITH LOCKING PROVISIONS. SUCH INSTALLATIONS MUST BE PRE-APPROVED.

	<b>ELECTRICAL DISTRIBUTION          CONSTRUCTION SPECIFICATIONS</b>		<b>TYPICAL          PHOTOVOLTAIC SYSTEM</b>	APPROVED	BY
		<a href="http://www.se-texas.com">www.se-texas.com</a> <small>TEXAS REGISTRATION          NUMBER F-1594</small>		UNIT NUMBER <b>FIGURE 4</b>	





***Section 8: Large DG Systems Large DG Systems  
(>50 kW)***

## **DG Systems Larger than 50 kW (AC)**

City of San Augustine (COSA) has established a “DG size level threshold” for DG systems larger than 50 kW (AC) (we will refer to system in this size category as “large DG”). This threshold is not arbitrary, but is linked to certain industry, regulatory, and contractual obligations and requirements for the City.

To provide COSA customers considering the installation of large DG systems with accurate and important information, the City has developed a list of policy and procedural information points:

1. The technical, policy, and procedural requirements contained in this Guidelines Manual apply to large DG systems.
2. The COSA may utilize the DG Agreement (DGA) contained in the Guidelines Manual in full or in part as the basis for a DGA with customers installing and interconnecting approved large DG systems. COSA reserves the right to modify the terms and conditions contained in the DGA.
3. COSA must also comply with SB398, which is a law that applies to DG systems with a capacity of 250 kW – ≤10MW. SB398 establishes certain requirements for the COSA including the following:
  - Must purchase generation at wholesale or agreed upon price;
  - Must provide wholesale transmission service (including distribution voltage);
  - Must provide a standard interconnect application;
  - Must utilize reasonable costs, including good faith interconnect cost estimate 30 days from submission of interconnect agreement;
  - Must completed interconnect 240 days from payment received (for distribution system / facility upgrades);