



## Renewable Energy Interconnection Manual for Small Size Systems ( $\leq 10\text{kW}$ in NM $\leq 20\text{kW}$ in TX)

Renewables and Emergent Technologies Group



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## 1. Introduction

El Paso Electric (EPE) is committed to providing its customers with reliable and high quality electric power; as part of this commitment, EPE is supporting and promoting the development of renewable energy projects in its service territory. EPE actively seeks to further develop renewable energy programs and partnerships that will help increase the electric generation from renewable energy projects. Conveniently, the fast development of technology has made the use of natural resources accessible for the production of electrical power at a lower price than it was a decade ago. The EPE Renewable Energy Interconnection program enables EPE's customers that have a renewable system installed at their residence or business to interconnect with EPE's grid. The installation and interconnection of a renewable system to EPE's grid will not only reduce the customer's kWh consumption from EPE, but will also help the environment to be less impacted by electric generation using non-renewable resources.

## 2. Purpose

The purpose of this manual is to provide EPE's customers with the necessary information to successfully complete the Interconnection Packet for a renewable system. This packet must be processed prior to any system interconnection to EPE's grid. This manual includes the required forms and completion guidelines for an accurate inclusion of all pertinent information in the Interconnection packet. Additionally, this manual includes a brief description of the procedure that the Interconnection Application Packet follows in order to be processed by EPE, as well as the roles and responsibilities of the customer and EPE.

## 3. Customer Eligibility

### *3.1 Obtain Required Documentation from EPE Website*

Customers may find all necessary forms and additional information by visiting EPE's website. Please click on the following link to be directed to EPE's website: [www.epelectric.com](http://www.epelectric.com).

**Note:** *Section 9 Downloading Required Documents from EPE Website* provides additional guidelines for obtaining these documents.

### 3.2 New Mexico Customers

All EPE New Mexico customers are eligible to interconnect their renewable energy system to EPE's grid as long as the EPE established requirements for interconnection are met. The customer is required to submit an Interconnection Packet to EPE which consists of the following documents that must be accurately completed (Customers may download the forms at the website address listed below):

- **TWO originals** of the Simplified Interconnection Application Forms completely and accurately filled out;  
<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/NM/Less than 10 kW/SimplifiedInterconnectionApplication.pdf>
- **ONE original** Application for Small System REC Program Application completely and accurately filled out;  
<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/NM/Less than 10 kW/Application for Small System REC Program 2012.pdf>
- **A one-line diagram** (please include the side and top view) that includes the location of the meters and the A/C Disconnect and all necessary technical data;  
[http://www.epelectric.com/files/html/Dist. Gen. Interconnection/Sample\\_One-Line Diagram 2011.pdf](http://www.epelectric.com/files/html/Dist. Gen. Interconnection/Sample_One-Line Diagram 2011.pdf)
- **TWO \$50 checks**, one for the Simplified Interconnection Applications processing fee and one for the Small System REC Program meter fee (please make checks payable to EPE);
- **ONE original** NM Renewable Energy Facility Ownership Status form, completely and accurately filled out  
<http://www.epelectric.com/files/html/Renewable/Sign up forms/NM/New Mexico Renewable Energy Facility Ownership Status.pdf>
- **ONE W-9 Form** accurately filled out and signed by the customer applying for interconnection; and,  
<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/W-9.pdf>
- **ONE Form 35 – Notice of Self Certification**  
[https://www.epelectric.com/files/html/Form35-Notice\\_of\\_Self-Certification.pdf](https://www.epelectric.com/files/html/Form35-Notice_of_Self-Certification.pdf)
- **Technical Specifications or Technical Data Sheets.**

The documents previously mentioned must be included in order to process the Interconnection Packet. The customer may submit the Interconnection Application forms with original electronic signature but please note that no copies will be accepted.

Additional and optional documents include:

- **An Authorization Agreement for Direct Deposit Form;**

**Note:** Customer applying for interconnection must be one of the EPE's account owner of record.

<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/EPE Authorization Agreement for Direct Deposits customers.pdf>

For more information on the Purchase Power Service Rate, please refer to **Rate 16** on EPE's website or follow the link below:

<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/NM/NM Rate 16 Purchased Power stamped.pdf>

For more information on the Small Renewables Energy Certificate Purchase, please refer to **Rate 33** on EPE's website or follow the link below:

[https://www.epelectric.com/files/html/Renewable/Sign\\_up\\_forms/NM/Rate\\_No\\_33\\_-\\_Small\\_System\\_REC\\_Purchase.pdf](https://www.epelectric.com/files/html/Renewable/Sign_up_forms/NM/Rate_No_33_-_Small_System_REC_Purchase.pdf)

The Interconnection Packet and/or related documentation must be mailed to:

Corporate Development  
El Paso Electric (loc. 131)  
P.O Box 982  
El Paso, Texas 79960

### 3.3 Texas Customers

All EPE Texas customers are eligible to interconnect their renewable energy system to EPE's grid as long as the EPE established requirements for interconnection are met. The customer is required to submit an Interconnection Packet to EPE that consists of the following documents accurately completed:

- **TWO originals** of the Interconnection and Parallel Operation of Distributed Generation with the Utility System Applications;  
[http://www.epelectric.com/files/html/Renewable/Sign\\_up\\_forms/Texas/TX Interconnection Application-June\\_2014.pdf](http://www.epelectric.com/files/html/Renewable/Sign_up_forms/Texas/TX Interconnection Application-June_2014.pdf)
- **A one-line diagram** (side view and top view too) that includes the location of the meters and the A/C Disconnect and all necessary technical data; and,

[http://www.epelectric.com/files/html/Dist. Gen. Interconnection/Sample\\_One-Line\\_Diagram\\_2011.pdf](http://www.epelectric.com/files/html/Dist. Gen. Interconnection/Sample_One-Line_Diagram_2011.pdf)

- **Technical Specifications or Technical Data Sheets.**

The documents previously mentioned must be included in order to process the Interconnection Packet. Please note that customer may submit the Interconnection Application forms with original electronic signature but no copies will be accepted.

- **ONE W-9 Form** accurately filled out and signed by the customer applying for interconnection; and,  
<http://www.epelectric.com/files/html/Dist. Gen. Interconnection/W-9.pdf>

Additional and optional documents include:

- **ONE original** TX Renewable Energy Facility Ownership Status form, completely and accurately filled out;  
[http://www.epelectric.com/files/html/Renewable/Sign\\_up\\_forms/Texas/Texas\\_Renewable\\_Energy\\_Facility\\_Ownership\\_Status.TX.pdf](http://www.epelectric.com/files/html/Renewable/Sign_up_forms/Texas/Texas_Renewable_Energy_Facility_Ownership_Status.TX.pdf)

For more information on the Purchase Power Service Rate, please refer to **Rate 48** on EPE's website or follow the link below:

[http://www.epelectric.com/files/html/Dist. Gen. Interconnection/TX/39582\\_Clean\\_Tariff\\_Schedule\\_No.48.pdf](http://www.epelectric.com/files/html/Dist. Gen. Interconnection/TX/39582_Clean_Tariff_Schedule_No.48.pdf)

The Interconnection Packet and/or related documentation must be mailed to:

Corporate Development  
El Paso Electric (loc. 131)  
P.O Box 982  
El Paso, Texas 79960

**Note:** To review requirements and to apply for TX solar incentive programs follow the link below for more information:

<http://www.epelectric.com/tx/residential/programs>

## 4. Application Process

### 4.1 New Mexico Renewable Energy Interconnection Process Flow



## 4.2 *New Mexico Application Process:*

### Step 1:

Customer completes Interconnection Packet and mails it to EPE Corporate Development Department.

### Step 2:

EPE Corporate Development reviews Interconnection Packet for completion and accuracy of forms.

### Step 3:

EPE Corporate Development initiates the process of the Interconnection application by reviewing the information provided for interconnection (e.g. name, address, account number, technical information, etc.)

### Step 4:

One-line diagram is submitted for review and technical approval by EPE Meter Test and EPE Engineering Departments. Please refer to *Section 5. Technical Requirements* for more information.

If one-line diagram is not approved, EPE Corporate Development notifies the customer and informs customer of necessary changes. The customer must submit a revised one-line diagram for new review and technical approval.

### Step 5:

EPE Corporate Development informs the customer of technical review approval. The customer initiates the construction of the renewable energy system.

**Note:** Communication is via e-mail by submitting an inquiry through [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com) or by contacting EPE Corporate Development at 1-800-351-1621, ext. 4465, ext. 4690, ext. 5876 or ext. 4658

### Step 6:

Upon completion of system construction, the customer obtains the electrical release from the corresponding City/County and requests an EPE field inspection by contacting EPE Corporate Development at [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com). Please refer to *Section 6.3 EPE Field Inspection* to review the field inspection request checklist.

### Step 7:

An EPE Meter Test inspector visits the system site and performs the field inspection. If field inspection is not approved, EPE Corporate Development notifies the customer and informs necessary changes to be performed. The customer requests a new field inspection upon integration of changes.



Step 8:

EPE Corporate Development informs the customer of field inspection approval and informs EPE internal groups for rate assignment and meter order to be issued.

Step 9:

EPE internal groups perform their tasks and the EPE Meter Test inspector installs the new meters. NET and REC meters are installed.

Step 10:

The renewable energy system goes on-line.

Step 11:

One executed contract is mailed back to the customer and the other one is filed for EPE records.

4.3 Texas Renewable Energy Interconnection Process Flow



#### 4.4 Texas Application Process:

Step 1:

Customer completes Interconnection Packet and mails it to EPE Corporate Development Department.

Step 2:

EPE Corporate Development reviews Interconnection Packet for completion and accuracy of forms.

Step 3:

EPE Corporate Development initiates the process of the Interconnection application by reviewing the information provided for interconnection (e.g. name, address, account number, technical information, etc.)

Step 4:

One-line diagram is submitted for review and technical approval by EPE Meter Test and EPE Engineering Departments. Please refer to *Section 5. Technical Requirements* for more information.

If one-line diagram is not approved, EPE Corporate Development notifies the customer and informs of necessary changes. The customer must submit a revised one-line diagram for new review and technical approval.

Step 5:

EPE Corporate Development informs the customer of technical review approval. The customer initiates the construction of the renewable energy system.

**Note:** Communication is via e-mail by submitting an inquiry to [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com) or by the customer contacting Corporate Development at 1-800-351-1621 ext.4465, ext.4690, ext.5876 or ext.4658.

Step 6:

Upon completion of construction of the system, the customer obtains the electrical release from the corresponding City/County and requests an EPE field inspection by contacting Corporate Development at [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com). Please refer to *Section 6.3 EPE Field Inspection* to review the field inspection request checklist.

Step 7:

An EPE Meter Test inspector visits the system site and performs the field inspection. If field inspection is not approved, EPE Corporate Development notifies the customer and informs necessary changes to be performed. The customer requests a new field inspection upon integration of changes.

Step 8:

EPE Corporate Development informs the customer of field inspection approval and informs EPE internal groups for rate assignment and meter order to be issued.

Step 9:

EPE internal groups perform their tasks and the EPE Meter Test inspector installs the new meters. NET and REC meters are installed.

Step 10:

The renewable energy system goes on-line.

**Note:** For Texas Energy Efficiency Incentives, the Customer must request an inspection for qualification of rebate incentive. For more information, please visit EPE's Energy Efficiency website or click on the following link:

<http://www.epelectric.com/tx/residential/energy-efficiency>

Step 11:

One executed contract is mailed back to the customer and the other one is filed for EPE's records.

## 5. Technical Requirements

The one-line diagram must include the following:

- **Site Plan:**

The Customer must provide details on equipment capacity, type and location. Information must be clearly identified and marked to avoid confusions and delay in the technical review step. All specifications provided in the sample one-line diagram are reviewed and must be satisfied prior to technical review approval. For more information on the specifications, please follow the sample one-line diagram link provided previously in *Section 3.1/3.2/3.3* or visit *Appendix A*. The one-line diagram must comply with the DSO 1875 standard. Please see *Section 5.1 Sample One-Line Diagram*.

**Note:** Prior standards will not be accepted by EPE.
- **Inverter information:**

All inverters must comply with UL1741 and must be equipped with protective devices to prevent connection or parallel operation of the generating equipment unless EPE's service voltage and frequency are within standard operating ranges. The delivery service phase must be clearly specified in the one-line diagram and in the Interconnection Application. Inverter's manufacturer and model, specific power and voltage ratings must be identified.
- **A/C Disconnect information:**

A visible A/C Disconnect must be installed to allow manual interruption of electrical service from the main service panel. It must be accessible to EPE's Meter Test employees, and must be equipped with protective devices to prevent connection to a de-energized circuit. The location of the A/C Disconnect must be between the REC meter and the main service panel according to the one-line diagram requirements.
- **Breaker information:**

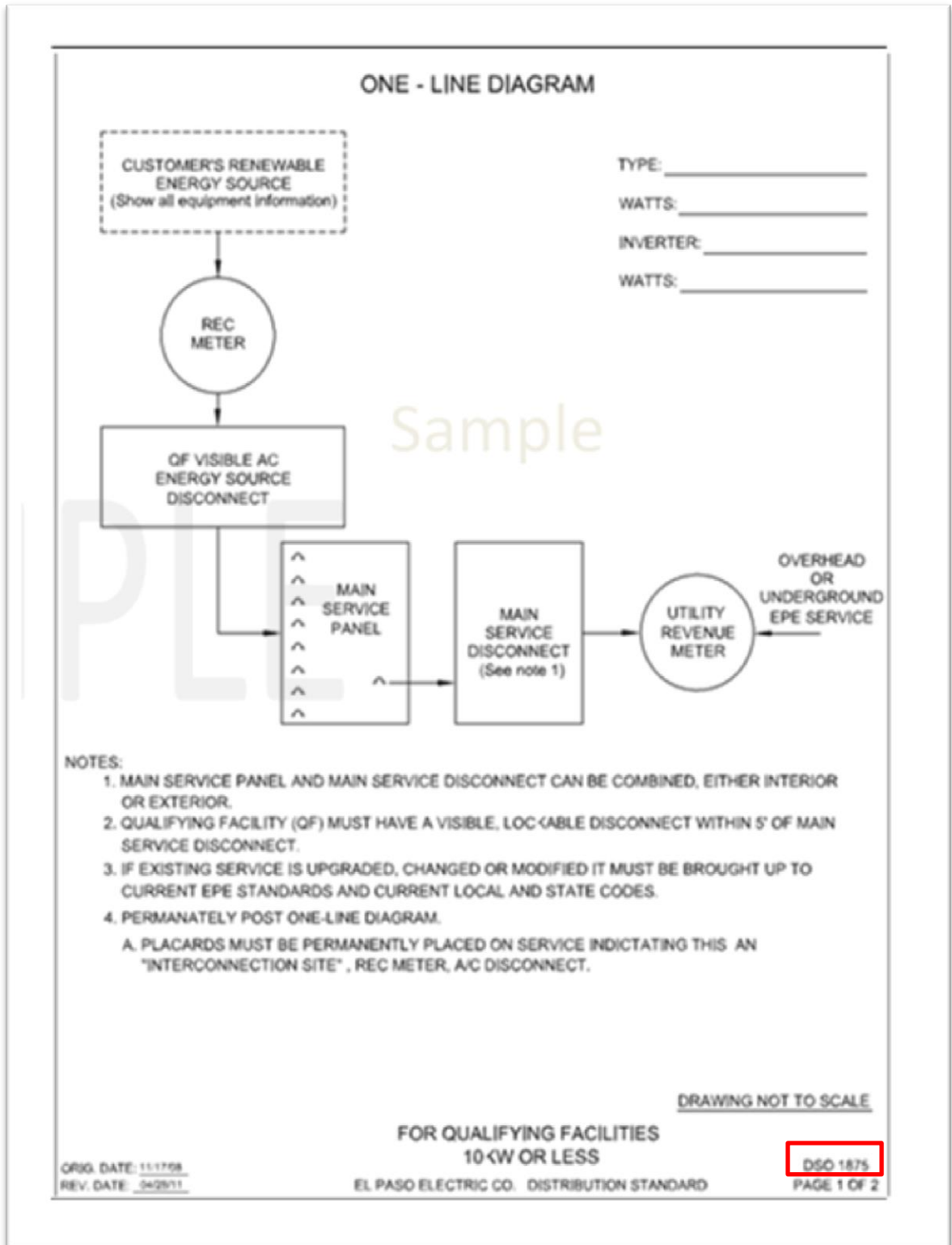
The one-line diagram must depict the breaker rating. The breaker rating specified on the one line must match the breaker size installed at the premise.
- **Storage System information (if applicable):**

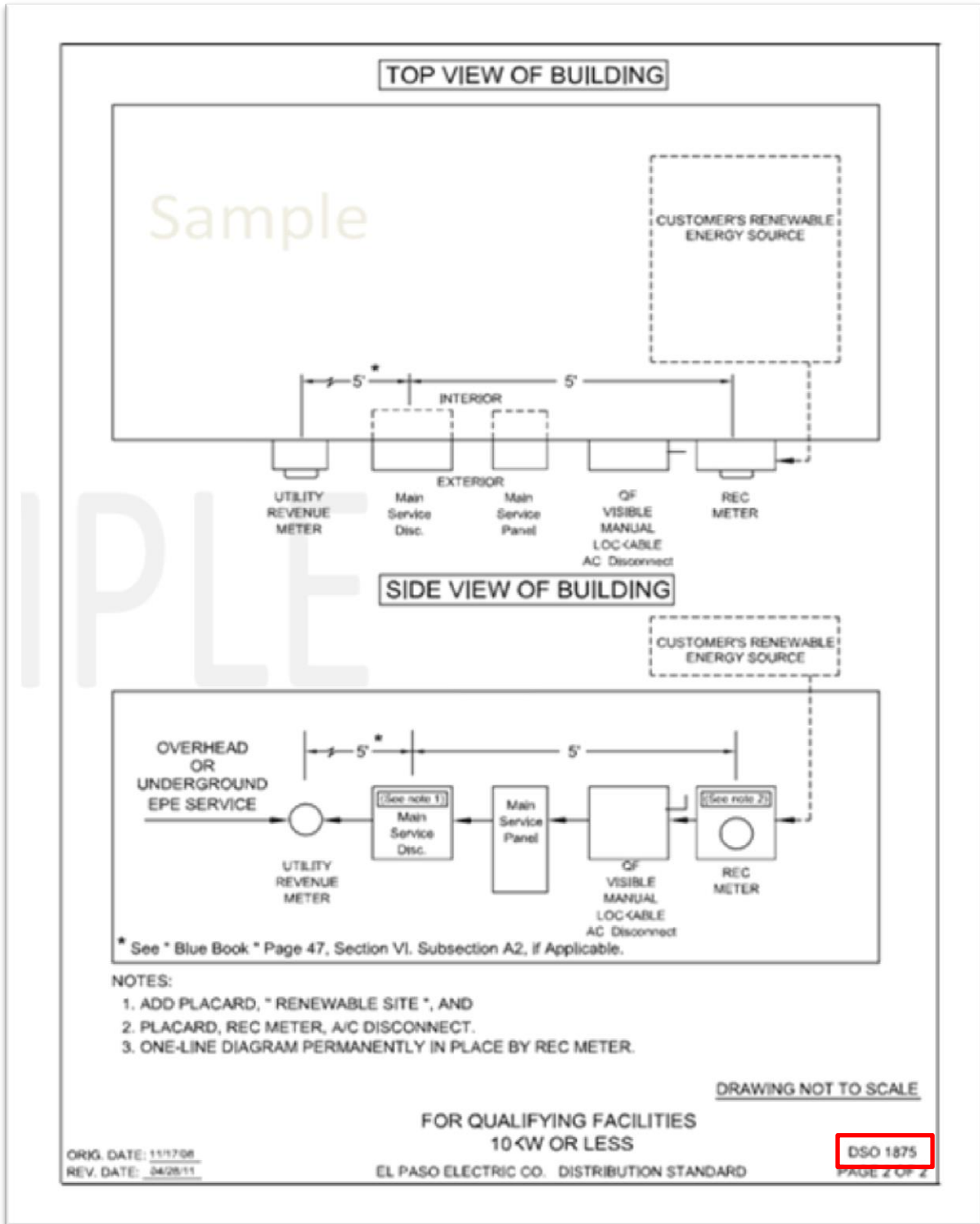
If installing a storage system, the one-line must also depict the following:

  - The energy storage type: (e.g. battery)
  - If Battery: Battery Chemistry (e.g. Lead Acid, Li-Ion, NiCa)
  - Max Storage Capacity (kW)
  - Energy Capacity (kWh)
  - Energy Storage System Voltage: (V)
  - Energy Storage Maximum Discharge Capacity: Rated maximum current at rated voltage (A)

- Energy Storage Nominal Discharge Capacity: Rated current at rated voltage (A)
  - Specify intended use for storage (Backup power, power quality, other)
- If installing a separate inverter for the storage system, please provide the following information on the one-line diagram:
  - Inverter Manufacture
  - Inverter Model
  - Inverter certification
  - Rated output power (Watts)
  - Maximum apparent AC output power (VA)
  - Rated Output Voltage (V)
  - Inverter Short Circuit Capacity (Amps or per unit), if available

5.1 Sample One-Line Diagram

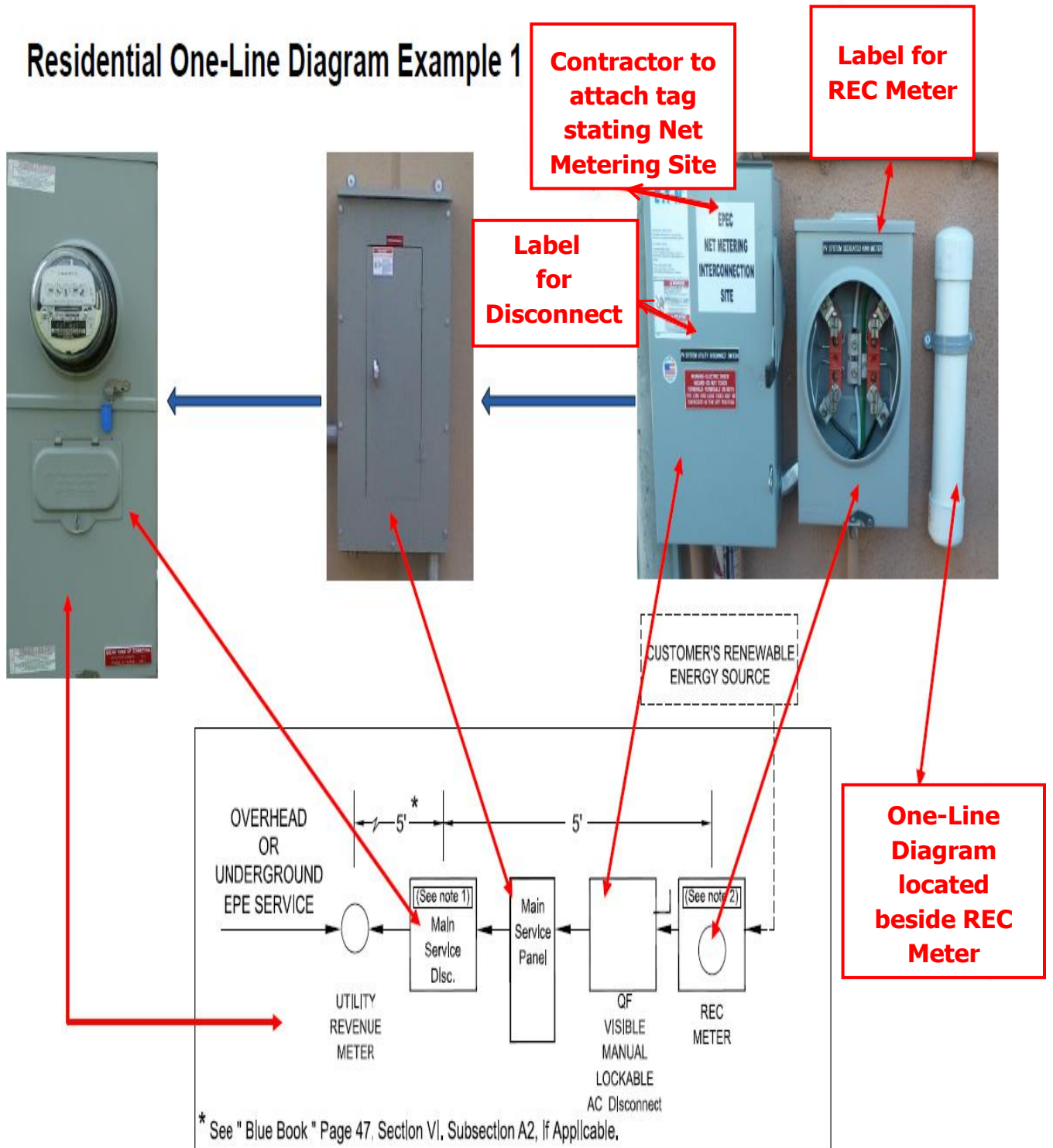






Examples of existing one-line diagrams/systems:

## Residential One-Line Diagram Example 1



# Commercial One-Line Diagram Example 1

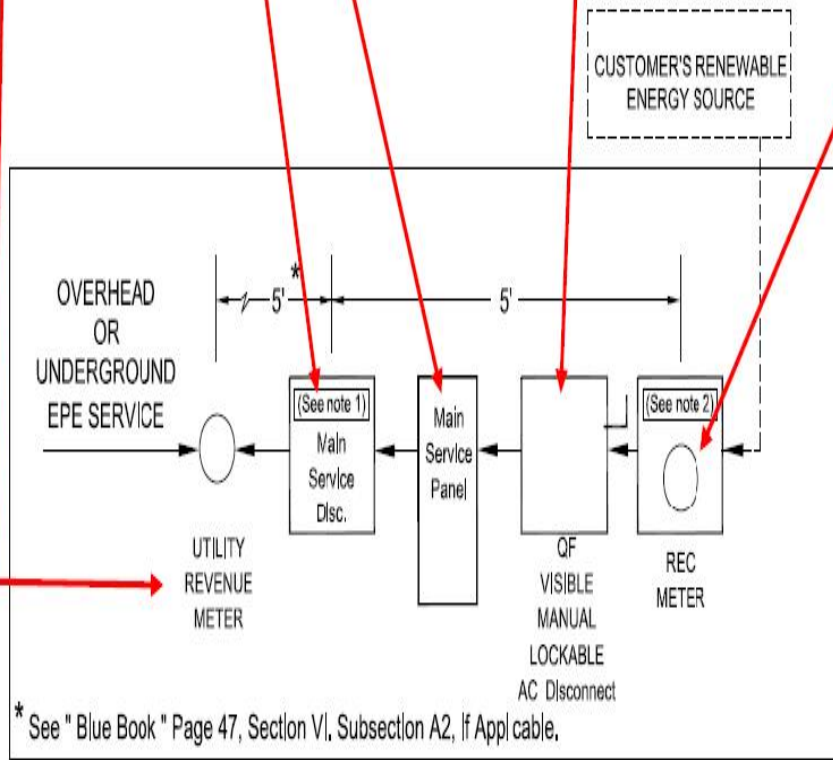
**One-Line Diagram located on REC Meter**

**Address**



**Contractor to attach tag stating Net Metering Site**

**Voltage Rating**



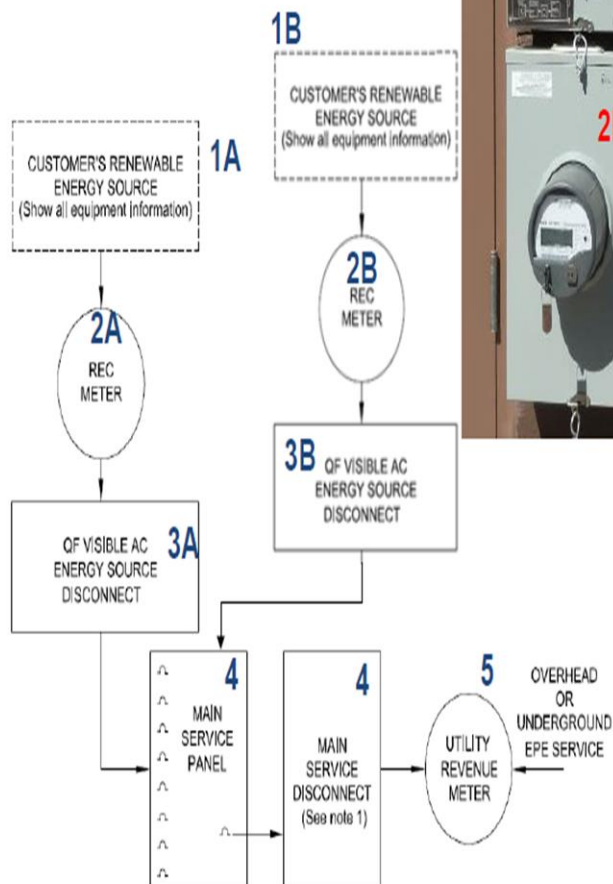
**NOTE 1: Main Service Disconnect located inside Main Service Panel**

# Commercial One-Line Diagram Dual System Example 2 (Solar, Wind)

1A – Wall Mounted Solar



1B – Wind Turbine



4

NOTE 1: Main Service Panel and Main Service Disconnect are located in either the interior or exterior of the building.

## 6. Checklists

The customer may use these checklists as a tool to verify that the interconnection packet is complete.

**Note:** The checklist does not have to be included in the interconnection packet. Its purpose is for customer reference only.

### 6.1 New Mexico Checklist

<b>Required Forms (New Mexico)</b>	<b>Check</b>
<b>Two (2) Simplified Interconnection Application Forms (Original Signature Required)</b>	
<b>One (1) Application for Small System REC Program Form (Original Signature Required)</b>	
<b>One-Line Diagram, Side and Top View Diagrams</b>	
<b>One (1)- \$50 check for Interconnection Application</b>	
<b>One (1)- \$50 check for REC Application</b>	
<b>One (1)-NM Renewable Energy Facility Ownership Status form</b>	
<b>Form 35 – Notice of Self Certification</b>	
<b>W-9 Form</b>	
Technical Specifications or <b>Technical Data Sheets</b>	
Authorization Agreement for <b>Direct Deposit Form</b> (optional)	

## 6.2 Texas Checklist

Required Forms (Texas)	Check
<b>Two (2)</b> Interconnection Applications Forms ( <b>Original Signature Required</b> )	
<b>One-Line Diagram</b> , Side and Top View Diagrams	
<b>Technical Specifications</b> or Technical Data Sheets	
<b>W-9 Form</b>	
<b>One (1)</b> -TX Renewable Energy Facility Ownership Status form ( <b>Optional</b> )	

### Additional Information:

- Customer must sign in the customer section on each page of the interconnection applications that requires it. Please note that electronic signatures are now being accepted.
- If the system facility is different than the mailing address, the customer must include and indicate the mailing address where EPE should mail the executed application.
- The customer applying for the interconnection must be the EPE’s service account owner or must be included in the application.
- The EPE account number must pertain to the location where the system is installed.
- For the system address, the customer must ensure that all paperwork with the City/County matches the address provided for the interconnection point.
- The customer must clearly specify the system’s source type (e.g. solar, wind, etc.)
- The customer must include information relating to the power, voltage rating, and number of phases in the application spaces where they are required and in the one-line diagram.

- It is preferable if the kW capacity output of the system to be installed is provided in terms of AC.
- All information provided must be consistent in all applications.
- The customer must provide a valid e-mail address where applications status notifications will be received. If the application does not have a designated area for this information to be included, please make a note next to the customer's name/contractor.
- In order to avoid delays in the interconnection application process, the customer should verify that all the requirements described herein have been satisfied. Usage of the checklist provided as a tool in Section 6 is recommended.

### 6.3 EPE Field Inspection

The customer may use these checklists as a tool to verify that the system is ready for an EPE field inspection.

#### 6.3.1 Residential System Checklist

Completed	Requirements	Notes
<input type="checkbox"/> Yes <input type="checkbox"/> No	Utility Revenue Meter must be within 5 feet from the Main Service Disconnect.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	REC Meter must also be within 5 feet from the Main Service Disconnect.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The Qualifying Facility AC energy source must have a visible, lockable disconnect within 5 feet of Main Service Disconnect.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The Qualifying Facility AC Energy Source Disconnect must be placed between the Renewable Energy Meter and Utility Meter.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	A One-Line Electrical Diagram of the facility must be permanently posted on site next to the REC Meter.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The One-Line Diagram must be weather proof (i.e. a placard, or inside a PVC pipe that is no less than 1.5 inch in diameter).	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Placards must be permanently placed on service indicating this is an “Interconnection Site”, “REC Meter”, “A/C Disconnect”. (3 placards)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The system that is built must match the One-Line Diagram that is sent in with the Interconnection Application Package.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The voltage that is listed on the One-Line Diagram must match the voltage of the system.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Any revisions or additions must be pre-approved before implementation.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	If existing service is upgraded, changed or modified it must be brought up to current EPE standards and current local and state codes.	

### 6.3.2 Commercial System Checklist

Completed	Requirements	Notes
<input type="checkbox"/> Yes <input type="checkbox"/> No	Utility Revenue Meter must be within 5 feet from the Main Service Disconnect.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The Qualifying Facility AC energy source must have a visible, lockable disconnect within 5 feet of Main Service Disconnect.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The Qualifying Facility AC Energy Source Disconnect must be placed between the Renewable Energy Meter and Utility Meter.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	A One-Line Electrical Diagram of the facility must be permanently posted on site next to the REC Meter.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The One-Line Diagram must be weather proof (i.e. a placard, or inside a PVC pipe that is no less than 1.5 inches in diameter).	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Placards must be permanently placed on service indicating this is an “Interconnection Site”, “REC Meter”, “A/C Disconnect”. (3 placards)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The system that is built must match the One-Line Diagram that is sent in with the Interconnection Application Package.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	The voltage that is listed on the One-Line Diagram must match the voltage of the system.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Any revisions or additions must be pre-approved before implementation.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	If existing service is upgraded, change or modified it must be brought up to current EPE standards and current local and state codes.	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Utility Revenue Meter must be within 5 feet from the Main Service Disconnect.	



## 7. System Expansion

A customer with an existing interconnected renewable energy system that would like to include additional panels and therefore increase the system capacity must follow the system expansion process.

**Note:** When considering expanding an existing system please note that the documentation specified below is only applicable to systems that expand within the limits of small size systems ( $\leq 10\text{kW}$ ); if the existing system is expanded beyond the 10kW limit, it becomes a medium size system and different guidelines apply (the customer will have to submit a medium size application package to EPE).

To increase size of renewable energy system for a total system capacity of less than 10kW, customers must provide the following documentation to EPE prior to the expansion of the system:

- **TWO original** Interconnection Applications accurately and completely filled out; and, **Note:** Please write “EXPANSION” on top of the Interconnection Application.
- The **one-line diagram** with all the specifications mentioned in this manual and specifying how many panels will be added to the system and the total capacity of the new system.
- **For New Mexico Customers only:** a **\$50 check** application processing fee must be attached to the Interconnection Application (Please make check payable to El Paso Electric Co).

### 7.1 Expansion Application Process

Step 1:

The customer completes the Expansion Interconnection Packet that includes two original Interconnection Applications, the one-line diagram, and a \$50 check (NM customers only).

Step 2:

The customer mails the Expansion Interconnection Packet to EPE:

Corporate Development  
El Paso Electric (loc.131)  
P.O Box 982  
El Paso, Texas 79960  
Attention: Paul Garcia

Step 3:

Corporate Development reviews the applications for completeness and accuracy and submits the one-line diagram for technical review to Engineering and Meter Test Departments. If the one-line diagram is rejected, Corporate Development informs the customer of disapproval and informs needed changes for the one-line diagram. The customer submits a revised one-line diagram for new technical revision.

**Note:** Please review *Section 5. Technical Requirements* for more information on the one-line diagram.

Step 4: Corporate Development informs the customer of technical review approval.

Step 5: Corporate Development informs internal EPE groups of system expansion.

Step 6: Customer completes construction of expansion and notifies Corporate Development.

**Note:** For system expansions within the small size system range, no field inspection is needed.

Step 7: The system goes on-line.

Step 8: EPE mails to the customer the executed interconnection contract.

**Note:** In order to avoid delays in the expansion application process, please take the time to verify all the requirements described herein have been satisfied.

## 8. Renewable Energy System Ownership Change

A customer with an existing interconnected renewable energy system that will like to transfer the system ownership must follow the Renewable Energy system ownership change process.

To change the ownership of an existing interconnected renewable energy system, the **New Mexico customers** must provide the following documentation to EPE:

- **One Renewable Energy Credit (REC) Application** accurately and completely filled out; and  
**Note:** Please write “**OWNERSHIP CHANGE**” on top of the Interconnection Application.
- **One \$50 check** processing fee must be attached to the Renewable Energy System Ownership Change Application (Please make check payable to EPE).
- **One W9 form** accurately filled out and signed by the customer is required.

**Note:** Before submitting the ownership change application, the customer must verify the EPE account for the system location is under the customer’s name.

To change the ownership of an existing interconnected renewable energy system, the **Texas customers** must send an e-mail notification to [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com) for EPE to update its solar system interconnection records and call our customer service center in Texas at 915-543-5970 to update name on the electric account.

## 8.1 *Ownership Change Application Process*

Step1:

The customer prepares the Ownership Change Interconnection packet that includes one original Renewable Energy Credit Application, W9 form and a \$50 check.

Step 2:

The customer mails the Ownership Change Interconnection packet to EPE:

Corporate Development  
El Paso Electric  
P.O Box 982  
El Paso, Texas 79960  
Attention: Paul Garcia (loc.131)

Step 3:

Corporate Development reviews the accuracy and completeness of the forms and forwards it to EPE's internal groups.

Step 4:

Corporate Development informs EPE internal groups of ownership change.

**Note:** In order to avoid delays in the ownership change application process, please take the time to verify all the requirements described herein have been satisfied.

## 9. Downloading Required Documentation from EPE Website

Customers may find all application forms referred to in this manual by visiting EPE's website. The instructions on how to download all the forms are presented below:

1. Go to the EPE website: [www.epelectric.com](http://www.epelectric.com)
2. Click on the Residential Services tab on the top of the page.



3. Select the appropriate State of service:

### Please Select Your State:

this can be changed at any time.



I'm In Texas

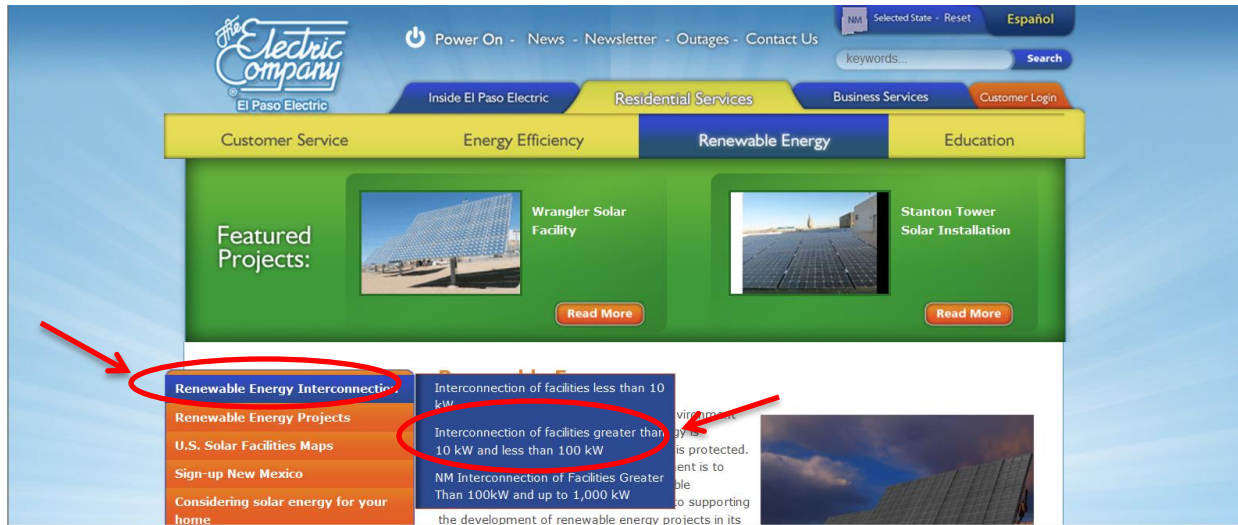


I'm In New Mexico

4. Click on the Renewable Energy blue tab:

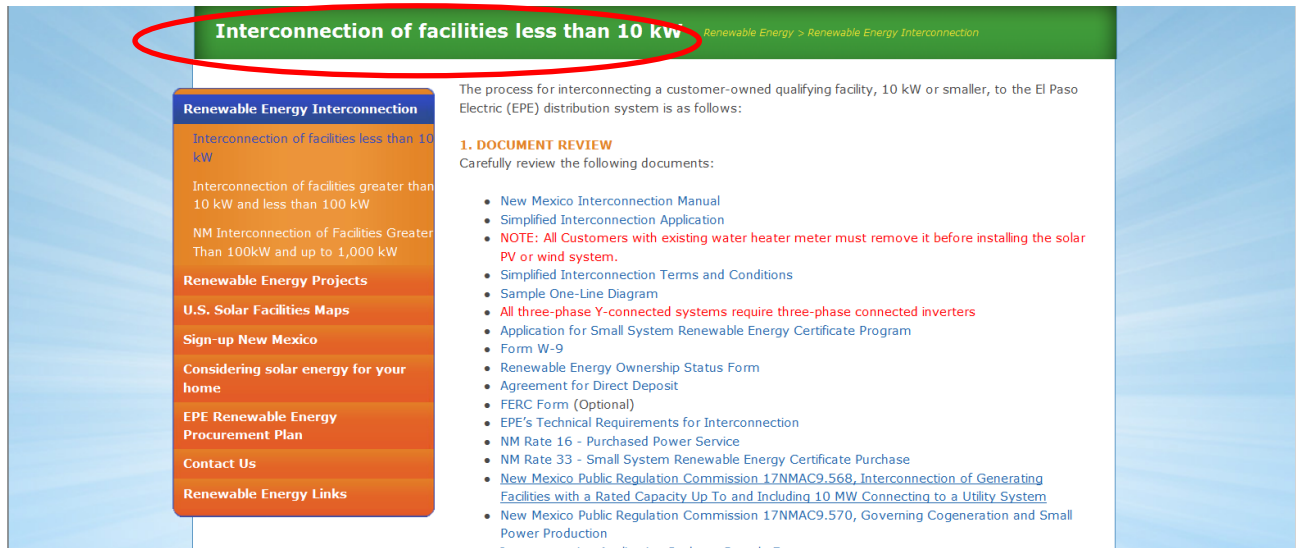


5. Click on the Renewable Energy Interconnection orange tab located on the left column.



6. Select the appropriate link:
  - a. Interconnection of facilities less than 10kW for NM; or,
  - b. Interconnection of facilities less than 20kW for TX.

7. Print and complete the appropriate forms and submit the Interconnection Packet to EPE.



## Interconnection of Facilities Less than 20 kW

Renewable Energy > Renewable Energy Interconnection

### Renewable Energy Interconnection

Interconnection of Facilities Less than 20 kW

Rollback Net Metering Approved in Senate Bill 1910

### Renewable Energy Projects

U.S. Solar Facilities Maps

Sign Up Texas

Considering solar energy for your home

Texas Solar Photovoltaic Pilot Program

EPE Renewable Energy Procurement Plan

Contact Us

Renewable Energy Links

The process for interconnecting a customer-owned qualifying facility, 20 kW or smaller, to the El Paso Electric (EPE) distribution system is as follows:

#### 1. DOCUMENT REVIEW

Carefully review the following documents:

- Metering Option Enrollment Form
- Interconnection Application
- Interconnection Agreement
- Contractor Acknowledgement
- Customer Acknowledgement
- Sample One-Line Diagram
- Texas Renewable Energy Facility Ownership Status
- All three-phase Y-connected systems require three-phase connected inverters
- EPE's Technical Requirements for Interconnection
- Public Utility Commission of Texas Rule 25.211 – Interconnection of On-Site Distributed Generation
- Public Utility Commission of Texas Rule 25.212 – Technical Requirements for Interconnection and Parallel Operation of On-Site Distributed Generation
- Public Utility Commission of Texas Rule 25.242 - Arrangements between Qualifying Facilities and Electric Utilities
- Form W-9
- Agreement for Direct Deposit
- Rate Schedule No. 48. Non-firm Purchased Power Service
- Schedule DG - Technical requirements, interconnection application and agreement are contained

## 10. Appendix A: Sample Forms for New Mexico

### Sample Simplified Interconnection Application for New Mexico

<b>Sample Form for Customer Reference Only</b>	<b>Simplified Interconnection Application Certified Inverter-Based Generating Facilities With a Rated Capacity Up To and Including 10 kW AC</b>
<p>This Application is considered complete when it provides all applicable and correct information required below. Additional information to evaluate the Application may be required.</p>	
<b>PROCESING FEE</b>	<b>Please make sure you include the check for this application</b>
<p>A fee of \$50 must accompany this Application.</p>	
<b>INTERCONNECTION CUSTOMER</b>	
Name: <u>Interconnection Customer Name</u>	
Contact Person: <u>Contact Person Name if Different from Customer</u>	
Address: <u>Customer's Address (This address can be different from the generating facility address in the second page, if need it)</u>	
City, State, Zip: <u>Customer's Address (City, state and Zip Code)</u>	
Telephone (Day): <u>Customer's Day Telephone Number</u> (Evening) <u>If different from day telephone</u>	
Fax Number: <u>Customer's Fax Number (optional)</u> E-Mail Address: <u>Customer's Email</u>	
<b>ENGINEERING FIRM (If Applicable)</b>	<b>Updates on application status will be provided by e-mail</b>
Contact Person: <u>Name of Installing Contractor and Company Name</u>	
Address: <u>Address of Company</u>	
City, State, Zip: _____	
Telephone (Day): <u>Contractor Telephone Number</u> Fax Number: _____	
E-Mail Address: <u>Contractor Email</u>	
<b>CONTACT (if different from Interconnection Customer)</b>	
Name: _____	
Address: _____	
City, State, Zip: _____	
Telephone (Day): _____ (Evening) _____	
Fax Number: _____ E-Mail Address: _____	
<b>Owner(s) of the Facility (include % ownership by any electric utility):</b>	
<u>If the facility is owned by a single owner write down 100% ownership, otherwise explain ownership percentage distribution</u>	
Page 1 of	

## Sample Simplified Interconnection Application for New Mexico

**The generating facility location must match the address of the EPE's customer bill.**

**Generating Facility Information**

Location (if different from above): Location address of generating system (if different from mailing address)

Electric Service Company: El Paso Electric

Account Number: Account Number Appearing on Current El Paso Electric Bill

**Generator 10 kW Inverter** Please make sure you answer all the question on this section

Inverter Manufacturer: \_\_\_\_\_ Model \_\_\_\_\_

Nameplate Rating: (kW) (kVA) (AC Volts) Specified Power (KW) and Voltage (V) for Each Inverter

Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_ System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Prime Mover:  Photovoltaic  Reciprocating Engine  Fuel Cell  Turbine  other (describe) Chose the Proper Prime Mover or describe if Not Listed.

Energy Source:  Solar  Wind  Hydro  Diesel  Natural Gas  Fuel Oil  other (describe) Chose the Proper Energy Source or Describe if No Listed.

**For solar and Wind inverters must be UL1741.**

Is the equipment UL1741 Listed? Yes \_\_\_\_\_ No \_\_\_\_\_ *If Yes, attach manufacturer's cut-sheet showing UL1741 listing*

Estimated Installation Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_

The 10 kW Inverter Process is available only for inverter-based Generating Facilities no larger than 10 kW that meet the codes, standards, and certification requirements of Attachment 3 of the Generator Interconnection Procedures (SGIP), or the QRU has reviewed the design or tested the proposed Generating Facility and is satisfied that it is safe to operate.

List components of the Generating Facility equipment package that are currently certified:

	<u>Equipment Type</u>	<u>Certifying Entity</u>
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

**Interconnection Customer Signature**

I hereby certify that, to the best of my knowledge, the information provided in this Application is true and correct. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Generating Facility No Larger than 10kW as pursuant to the description contained in the New Mexico Interconnection Manual, Exhibit 3A, and further agree to return the notice of completion when the Generating Facility has been installed.

Signed: Customer's Signature (Submit Original Signed Form)

Title: \_\_\_\_\_

Date: Date of Signature

**Utility Signature** This Section will be fill out by EPE

The undersigned Utility agrees to abide by the Terms and Conditions contained in the New Mexico Interconnection Manual, Exhibit 3A, and that optional paragraph 6.0 indemnification \_\_\_\_\_ does \_\_\_\_\_ does not apply.

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Page 2 of 2



## Sample REC Form for New Mexico

<b>EL PASO ELECTRIC COMPANY</b>	<b>Sample Form for Customer Reference Only</b>
<b>APPLICATION FOR THE PURCHASE OF SMALL SYSTEM RENEWABLE ENERGY CERTIFICATES Customer Information Form</b>	
<p>A non-refundable application fee must accompany this Application for Sale of Small System Renewable Energy Certificates ("RECs"). Attach a check made payable to El Paso Electric ("EPE") at the time this application is submitted. Applications not accompanied by the correct application fee will not be considered or reviewed.</p>	
<input type="checkbox"/> <b>Application For Small REC Sales</b> <b>\$50</b>	<b>Please make sure you include the check for this application</b>
Return Completed Application to:	El Paso Electric Company Attention: Manager - Rates P.O. Box 982 El Paso, Texas 79960
Customer's Name:	<u>Interconnection Customer Name</u>
Address:	<u>Customer's Address (This address can be different from the service point address if need it)</u>
Contact Person:	<u>Contact Person if Different from Customer</u>
Telephone Number:	<u>Telephone Number of Contact Person</u>
Service Point Address:	<u>Interconnection Address (Where System will be located)</u>
Information Prepared and Submitted By:	<u>Contractor's Name (if None, Use Customer Name)</u>
(Name and Address)	<u>Address of Person Submitting the Application</u>
Signature <u>Customer's Signature (Submit Original Signed Form)</u>	
<p>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 EPE for Small System REC Sales with the utility system.</p>	

## Sample REC Form for New Mexico

**EL PASO ELECTRIC COMPANY**  
**APPLICATION FOR THE PURCHASE OF**  
**SMALL SYSTEM RENEWABLE ENERGY CERTIFICATES (RECs)**

**Facility Information Form**

SMALL RENEWABLE SYSTEM FACILITY INFORMATION	
<b>CUSTOMER / SMALL SYSTEM FACILITY OWNER NAME</b> Insert Customer's Name	<b>PHONE</b> Customer's Telephone Number (    )
<b>SERVICE ADDRESS (STREET, CITY, STATE, ZIP CODE)</b> Interconnection Address	
<div style="border: 1px solid red; padding: 5px; width: fit-content; margin: 0 auto;">                         The account number must agree with interconnection name and service point address given on the first page.                     </div>	
<b>ACCOUNT NUMBER</b> Account # Appearing On Current El Paso Electric Bill	

**CUSTOMER / SMALL SYSTEM OWNER MAILING ADDRESS (if different from service address)**

**MAILING ADDRESS**

**Brief description of the facility**

This section requires a brief explanation of the system.  
 For example: Roof mounted solar panels.

---

**PRIMARY RENEWABLE ENERGY SOURCE OF THE SMALL SYSTEM FACILITY**

Photovoltaic   
  Wind Turbine   
  Other (specify)   
 Choose Proper one

**Construction/Installation Dates**

ESTIMATED START DATE	ESTIMATED COMPLETION DATE	NAMEPLATE RATING (KW) System Design Capacity	AC OR DC AC preferred

Please provide estimated dates

## Sample REC Form for New Mexico

### EL PASO ELECTRIC COMPANY

#### APPLICATION FOR THE PURCHASE OF SMALL SYSTEM RENEWABLE ENERGY CERTIFICATES

##### Documentation and Process Requirements

Attachments required to this Application:

- A one-line electrical diagram of the facility and its interconnection to El Paso Electric's (EPE) utility system showing the electrical components, protection devices, manufacturer model numbers and electrical ratings. The one-line electrical diagram must show: photovoltaic panels or wind turbine location, inverters, fuses, circuit breakers, EPE required disconnect switch(s), EPE meters, etc.
- The manufacturer, model number and electrical rating for the photovoltaic panels or wind turbine or other qualifying facility generation source and inverter must be shown on the one-line diagram.
- A copy of the manufacturer's specification sheet showing that the inverter to be used on this facility is listed under UL 1741.  
If the small system generation facility interconnection is not inverter based, prior to authorizing parallel operation of the qualifying facility, EPE must observe and participate in the pre-parallel inspection of the qualifying facility interconnection facility.
- A site map or sketch showing all of the interconnection equipment, EPE required disconnect switch(es), and EPE meters and where the devices will be physically located on-site.
- Customer installs wiring and socket/meter box for a REC meter to measure the output of the small renewable generation system. The REC socket/meter box shall be identified and labeled "REC Meter" and accessible and located near EPE's billing metering.

**IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER/APPLICANT OBTAIN EPE'S APPROVAL OF THE FINAL DESIGN AND ELIGIBILITY TO PARTICIPATE IN THE SMALL SYSTEM RENEWABLE ENERGY CERTIFICATE PURCHASE PROGRAM BASED ON THE ABOVE REFERENCED INFORMATION PRIOR TO PURCHASING EQUIPMENT.**

Customer/Applicant understands and agrees to comply by the requirements of EPE's Interconnection and Safety Standards approved by the NMPRC for Qualifying Facilities 10 KW or Less.

## Sample REC Form for New Mexico

### EL PASO ELECTRIC COMPANY

#### APPLICATION FOR THE PURCHASE OF SMALL SYSTEM RENEWABLE ENERGY CERTIFICATES

##### Documentation and Process Requirements

The completed Application with the above requested attachments is not sufficient for authorizing interconnected, parallel operation of the qualifying facility without an executed Interconnection Agreement. The Customer/Applicant agrees to and must comply with self-certification procedures of the Federal Energy Regulatory Commission ("FERC") and complete FERC's form to certify customer is a qualifying facility ("QF") pursuant to FERC rules and procedures. Customer/Applicant must provide EPE a copy of the qualifying facility self-certification form filed with the FERC.

EPE shall have no obligation to purchase RECs until EPE and Customer/Applicant have completed the Application for the Purchase of Small System RECs, executed the Interconnection Agreement and provided a copy of the qualifying facility self-certification form filed with the FERC. .

SAMPLE

## Sample REC Form for New Mexico

**EL PASO ELECTRIC COMPANY**  
**AGREEMENT FOR THE PURCHASE OF**  
**SMALL SYSTEM RENEWABLE ENERGY CERTIFICATES (RECs)**

This Application must be signed by the Applicant (or an authorized agent of the Customer/Applicant).

Customer/Applicant certifies that to the best of his/her knowledge all the information in the Application is correct.

Customer/Applicant agrees that if any material information required on this application is missing, is incorrect, is materially changed, or is falsified, the application will be rejected by EPE.

All appendices and other supplemental attachments are made a part of this Application.

Customer/Applicant agrees to supply additional information as EPE may reasonably require, and that the application may be suspended while EPE is awaiting such information.

Acceptance of this Agreement or any future actions by EPE are not and shall not be construed to be an endorsement or warranty of the project, its equipment, operation, safety, or reliability.

The Customer/Applicant must ensure that the facility and all equipment connected therewith comply with the National Electrical Code, the National Electrical Safety Code and/or any applicable local, state, and federal government requirements.

**Interconnection Customer Name**

\_\_\_\_\_  
Customer/Owner (Type or Print Name)

**Interconnection Customer Signature (Submit Original Signed Form)**

\_\_\_\_\_  
Authorized Signature

**Date of Signature**

\_\_\_\_\_  
Date

## Sample New Mexico Renewable Energy Facility Ownership Status



### New Mexico Renewable Energy Facility Ownership Status

El Paso Electric Company (EPE) is required by the New Mexico Public Regulation Commission to track the ownership status for a renewable energy facility applying for interconnection with EPE's grid. Please specify below the ownership status of the renewable energy facility interconnected or to be interconnected behind your meter.

**Customer-Owned System:** Includes systems paid for in full or financed by the Customer of record on the Interconnection Agreement.

**Leased System:** Includes systems installed upon the residence of the Customer of record identified in the Interconnection Agreement, for which the Customer pays the owner of the system under a contractual agreement.

Interconnection Facility Customer-Owned     Interconnection Facility Customer-Leased

Customer Name: Interconnection Customer Name

Interconnection Facility Address: Location address of the generating system

Account Number: Account Number Appearing on Current El Paso Electric Bill

Signature: Interconnection Customer Signature

If the system is a third-party lease, the third-party owner should complete the following portion:

Third-Party Name: Name of the Third-Party Owner

Third-Party Address: Mailing Address of the Third-Party Owner

Signature: Third-party Owner Signature

# Sample W-9 for New Mexico

**W-9**  
Form  
(Rev. January 2011)  
Department of the Treasury  
Internal Revenue Service

Sample Form for Customer Reference Only

Give Form to the requester. Do not send to the IRS.

**Request for Taxpayer Identification Number and Certification**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return) <b>Interconnection Customer Name</b>	
	Business name/disregarded entity name, if different from above <b>If Not Residential Interconnection Please Provide Name of Business</b>	
	Check appropriate box for federal tax classification (required): <b>Check: One</b>	
	<input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate	
	<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) * _____	
	<input type="checkbox"/> Exempt payee	
	<input type="checkbox"/> Other (see instructions) *	
	Address (number, street, and apt. or suite no.) <b>Interconnection Customer Address:</b>	Requester's name and address (optional)
	City, state, and ZIP code <b>Interconnection Address City, State and ZIP Code</b>	Please answer this section
	List account number(s) here (optional)	

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**NOTE.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

	Social security number					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; border: 1px solid black; text-align: center;">-</td> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; border: 1px solid black; text-align: center;">-</td> <td style="width: 40%; border: 1px solid black; height: 20px;"></td> </tr> </table>		-		-	
	-		-			
	Employer identification number					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; border: 1px solid black; text-align: center;">-</td> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; border: 1px solid black; text-align: center;">-</td> <td style="width: 40%; border: 1px solid black; height: 20px;"></td> </tr> </table>		-		-	
	-		-			

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below).

**Certification Instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

<b>Sign Here</b>	Signature of U.S. person *	<b>Signature Required</b>	Date *
------------------	----------------------------	---------------------------	--------

**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Purpose of Form**

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

## Direct Deposit Sample Form for New Mexico

### AUTHORIZATION AGREEMENT FOR DIRECT DEPOSITS (ACH CREDITS)

Customer Name: Interconnection Customer Name

Customer Account: El Paso Electric Account Number

Social Security Number: Customer Social Security Number

I (we) hereby authorize El Paso Electric Company, hereinafter called COMPANY, to initiate credit entries to my (our) (select one):

Checking Account

Savings Account

indicated below at the depository financial institution named below, hereafter called DEPOSITORY, and to credit the same to such account. I (we) acknowledge that the origination of ACH transactions to my (our) account must comply with the provisions of U.S. law.

Depository Name: Customer Name

Branch: Bank Name where Customer Holds an Account

City: Bank Location State: Bank Location Zip: Bank Location

Routing Number: Customer Bank Account Routing #

Account Number: Customer Bank Account #

This authorization is to remain in full force and effect until COMPANY has received written notification from me (or either of us) of its termination in such time and in such manner as to afford COMPANY and DEPOSITORY a reasonable opportunity to act on it.

Remittance E-Mail Address: Customer E-mail Address

Name(s) (please print): Customer Name

Phone Number: Customer Phone Number

Signature: Customer Signature Date: Date of application

El Paso Electric Company PO Box 982 El Paso, TX 79960-0982 Fax 915-543-2204



Sample Interconnection Agreement for Texas

**Sample Form for Customer  
Reference Only**

**EL PASO ELECTRIC COMPANY  
SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION**

**APPLICATION FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED  
GENERATION WITH THE UTILITY SYSTEM**

Return Completed Application to: El Paso Electric Company  
Attention: Manager, Distribution Monitoring  
P.O. Box 982  
El Paso, Texas 79960

Customer's Name: Interconnection Customer Name

Address: Customer's Address (This address can be different from the service point address if need it)

Contact Person: Contact Name if Different from Customer

Telephone Number: Telephone Number of Contact Person

Service Point Address: Interconnection Address (if different from Mail Address)

Information Prepared and Submitted By: Contractor's Name (if None, Use Customer Name)

(Name and Address): Address of Person Submitting the Application

Signature: Customer's Signature (Submit Original Signed Form)

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 the El Paso Electric Company for interconnection with the utility system.

**GENERATOR**

Some of this information can be found on the technical data.

Number of Units: Number of Inverters and Capacity

Manufacturer: Manufacturer of Inverters

Type (Synchronous, Induction, or Inverter): Choose One

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

Kilowatt Rating (95 F at location) System AC Design Capacity in KW

Kilovolt-Ampere Rating (95 F at location): System Design Capacity in KVA

Power Factor: Power Factor of Generating System

The service point address must match the address of the EPE's customer bill.

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Section Number <u>1</u>	Revision Number <u>0</u>
Sheet Number <u>36</u>	Effective <u>with energy consumed on or after approval by</u>
Page <u>1 of 10</u>	<u>regulatory authority (October 11, 2006)</u>

Sample Interconnection Agreement for Texas

EL PASO ELECTRIC COMPANY

**SCHEDULE NO. DG**  
**INTERCONNECTION AND PARALLEL OPERATION OF**  
**DISTRIBUTED GENERATION**

Voltage Rating: **Required**

Ampere Rating: **Required**

Number of Phases: **Required**

Frequency: **Required**

Do you plan to export power: \_\_\_\_\_ Yes / \_\_\_\_\_ No **Choose One**

If Yes, maximum amount expected: **Required Answer if Yes**

Pre-Certification Label or Type Number: \_\_\_\_\_ **Required**

Expected Energizing and Start-up Date: **Expected Operating Start Date**

Normal Operation of Interconnection: (examples: provide power to meet base load, demand management, standby, back-up, other (please describe) **Required**

One-line diagram attached: \_\_\_\_\_ Yes **Required (Please Make sure it is included)**

Has the generator Manufacturer supplied its dynamic modeling values to EPE? \_\_\_\_\_ Yes **Required**

[Note: Requires a Yes for complete application. For Pre-Certified Equipment, answer is Yes.]

Layout sketch showing lockable, "visible" disconnect device:  
\_\_\_\_\_ Yes **Required**

**COMPANY:**

**This portion will be completed by EPE**

NAME: El Paso Electric Company

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: \_\_\_\_\_

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

**CUSTOMER:**

NAME: **Print Name**

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: **Submit Original Signed Form**

DATE: **Date of Signature**

Section Number 1  
Sheet Number 36  
Page 2 of 10

Revision Number 0  
Effective with energy consumed on or after approval by  
regulatory authority (October 11, 2006)

## Sample Interconnection Agreement for Texas

### EL PASO ELECTRIC COMPANY

#### SCHEDULE NO. DG INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

#### AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

This Interconnection Agreement ("Agreement") is made and entered into this Day Number day of Month, 20, Last Two Digits of Year by El Paso Electric Company, ("Company"), and Print Customer Name ("Customer"), a \_\_\_\_\_ [specify whether corporation, and if so name state, municipal corporation, cooperative corporation, or other], 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 is applicable to conditions under which the Company and the Customer agree that one or more generating facility or facilities of ten MW or less as described in attached Exhibit A to be interconnected at 60 kV or less ("Facility or Facilities") to the Company's utility system with no intent to sell electricity in the wholesale energy market.

**2. Establishment of Point(s) of Interconnection** -- Company and Customer agree to interconnect their Facility or Facilities at the locations specified in this Agreement, in accordance with Public Utility Commission of Texas ("Commission") Substantive Rules § 25.211 relating to Interconnection of Distributed Generation and § 25.212 relating to Technical requirements for Interconnection and Parallel Operation of On-Site Distributed Generation, (16 Texas Administrative Code §25.211 and §25.212) (the "Rules") or any successor rule addressing distributed generation and as listed on the attached Exhibit A (the "Point(s) of Interconnection").

**3. Responsibilities of Company and Customer** -- Each Party will, at its own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for, Facility or Facilities which it now or hereafter may own unless otherwise specified on the attached Exhibit A. Customer shall conduct operations of its facility(s) in compliance with all aspects of the Rules, and Company shall conduct operations on its utility system in compliance with all aspects of the Rules, or as further described and mutually agreed to in the applicable Facility Schedule. Maintenance of Facilities or interconnection facilities shall be performed in accordance with the applicable manufacturer's recommended maintenance schedule. The Parties agree to cause their Facilities or systems to be constructed in accordance with specifications equal to or greater than those provided by the National Electrical Safety Code, approved by the American National Standards Institute, in effect at the time of construction.

Each Party covenants and agrees to design, install, maintain, and operate, or cause the design, installation, maintenance, and operation of, its distribution system and related Facilities and Units so as to reasonably minimize the likelihood of a disturbance, originating in the system of one Party, affecting or impairing the system of the other Party, or other systems with which a Party is interconnected.

Company will notify Customer if there is evidence that the Facility operation causes disruption or deterioration of service to other customers served from the same grid or if the Facility operation causes damage to Company's system.

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Section Number 1  
Sheet Number 36  
Page 3 of 10

Revision Number 0  
Effective with energy consumed on or after approval by  
regulatory authority (October 11, 2008)

## Sample Interconnection Agreement for Texas

### EL PASO ELECTRIC COMPANY

#### SCHEDULE NO. DG INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

Customer will notify Company of any emergency or hazardous condition or occurrence with the Customer's Unit(s) which could affect safe operation of the system.

#### **4. Limitation of Liability and Indemnification**

- a. Notwithstanding any other provision in this Agreement, with respect to Company's provision of electric service to Customer, Company's liability to Customer shall be limited as set forth in Company's approved applicable Rules and Regulations, Terms and Conditions Applicable to Electric Service of Company's Commission-approved tariffs, and terms and conditions for electric service, which is incorporated herein by reference.
- b. Neither Company nor Customer shall be liable to the other for damages for any act that is beyond such party's control, including any event that is a result of an act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, a curtailment, order, or regulation or restriction imposed by governmental, military, or lawfully established civilian authorities, or by the making of necessary repairs upon the property or equipment of either party.
- c. Notwithstanding Paragraph 4.b of this Agreement, Company shall assume all liability for and shall indemnify Customer for any claims, losses, costs, and expenses of any kind or character to the extent that they result from Company's negligence in connection with the design, construction, or operation of its facilities as listed on the attached Exhibit A; provided, however, that Company shall have no obligation to indemnify Customer for claims brought by claimants who cannot recover directly from Company. Such indemnity shall include, but is not limited to, financial responsibility for: (i) Customer's monetary losses; (ii) reasonable costs and expenses of defending an action or claim made by a third person; (iii) damages related to the death or injury of a third person; (iv) damages to the property of Customer; (v) damages to the property of a third person; (vi) damages for the disruption of the business of a third person. In no event shall Company be liable for consequential, special, incidental or punitive damages, including, without limitation, loss of profits, loss of revenue, or loss of production. The Company does not assume liability for any costs for damages arising from the disruption of the business of the Customer or for the Customer's costs and expenses of prosecuting or defending an action or claim against the Company. This paragraph does not create a liability on the part of the Company to the Customer or a third person, but requires indemnification where such liability exists. The limitations of liability provided in this paragraph do not apply in cases of gross negligence or intentional wrongdoing.
- d. Notwithstanding Paragraph 4.b of this Agreement, Customer shall assume all liability for and shall indemnify Company for any claims, losses, costs, and expenses of any kind or character to the extent that they result from Customer's negligence in connection with the design, construction or operation of its facilities as listed on Exhibit A; provided, however, that Customer shall have no obligation to indemnify

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## Sample Interconnection Agreement for Texas

### EL PASO ELECTRIC COMPANY

#### SCHEDULE NO. DG INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

Company for claims brought by claimants who cannot recover directly from Customer. Such indemnity shall include, but is not limited to, financial responsibility for: (i) Company's monetary losses; (ii) reasonable costs and expenses of defending an action or claim made by a third person; (iii) damages related to the death or injury of a third person; (iv) damages to the property of Company; (v) damages to the property of a third person; (vi) damages for the disruption of the business of a third person. In no event shall Customer be liable for consequential, special, incidental or punitive damages, including, without limitation, loss of profits, loss of revenue, or loss of production. The Customer does not assume liability for any costs for damages arising from the disruption of the business of the Company or for the Company's costs and expenses of prosecuting or defending an action or claim against the Customer. This paragraph does not create a liability on the part of the Customer to the Company or a third person, but requires indemnification where such liability exists. The limitations of liability provided in this paragraph do not apply in cases of gross negligence or intentional wrongdoing.

- e. Company and Customer shall each be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the point of delivery. The Company does not assume any duty of inspecting the Customer's lines, wires, switches, or other equipment and will not be responsible therefor. Customer assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the point of delivery, the point of delivery being the point where the electric energy first leaves the wire or facilities provided and owned by Company and enters the wire or facilities provided by Customer.
- f. For the mutual protection of the Customer and the Company, only with Company prior authorization are the connections between the Company's service wires and the Customer's service entrance conductors to be energized.

**5. Right of Access, Equipment Installation, Removal & Inspection** – Upon reasonable notice, the Company may send a qualified person to the premises of the Customer at or immediately before the time the Facility first produces energy to inspect the interconnection, and observe the Facility's commissioning (including any testing), startup, and operation for a period of up to no more than three days after initial startup of the unit.

Following the initial inspection process described above, at reasonable hours, and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Company shall have access to Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on it by this Agreement or if necessary to meet its legal obligation to provide service to its customers.

**6. Disconnection of Unit** – Customer retains the option to disconnect from Company's utility system. Customer will notify the Company of its intent to disconnect by giving the Company at least thirty days' prior written notice. Such disconnection shall not be a termination of the Agreement unless Customer exercises its rights under Section 7.

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## Sample Interconnection Agreement for Texas

### EL PASO ELECTRIC COMPANY

#### SCHEDULE NO. DG INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

Customer shall disconnect Facility from Company's system upon the effective date of any termination under Section 7.

Subject to Commission Rule, for routine maintenance and repairs on Company's utility system, Company shall provide Customer with seven business days' notice of service interruption.

Company shall have the right to suspend service in cases where continuance of service to Customer will endanger persons or property. During the forced outage of the Company's utility system serving customer, Company shall have the right to suspend service to effect immediate repairs on Company's utility system, but the Company shall use its best efforts to provide the Customer with reasonable prior notice.

**7. Effective Term and Termination Rights**-- This Agreement becomes effective when executed by both parties and shall continue in effect until terminated. The Agreement may be terminated for the following reasons: (i) Customer may terminate this Agreement at any time, by giving the Company sixty days' written notice; (ii) Company may terminate upon failure by the Customer to generate energy from the Facility in parallel with the Company's system within twelve months after completion of the interconnection; (iii) either party may terminate by giving the other party at least sixty days prior written notice that the other Party is in default of any of the material terms and conditions of the Agreement, so long as the notice specifies the basis for termination and there is reasonable opportunity to cure the default; or (iv) Company may terminate by giving Customer at least sixty days notice in the event that there is a material change in an applicable rule or statute.

**8. Governing Law and Regulatory Authority** -- This Agreement was executed in the State of Texas and must in all respects be governed by, interpreted, construed, and enforced in accordance with the laws thereof. 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.

**9. Amendment** --This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties.

**10. Entirety of Agreement and Prior Agreements Superseded** -- This Agreement, including all attached Exhibits and Facility Schedules, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the facilities of the Parties at the Points of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein. This Agreement replaces all prior agreements and undertakings, oral or written, between the Parties with regard to the subject matter hereof, including without limitation leave blank [specify

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## Sample Interconnection Agreement for Texas

### EL PASO ELECTRIC COMPANY

#### SCHEDULE NO. DG INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

any prior agreements being superseded], and all such agreements and undertakings are agreed by the Parties to no longer be of any force or effect. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein, which agreements are unaffected by this Agreement.

**11. Notices** -- 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:

(a) If to Company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ← **Company Information**

(b) If to Customer:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ← **Customer Information**

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other, notwithstanding Section 10.

**12. Invoicing and Payment** -- Invoicing and payment terms for services associated with this agreement shall be consistent with applicable Substantive Rules of the Commission.

**13. 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.

**14. 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.

**15. Headings** -- The descriptive headings of the various articles and sections of this Agreement have been inserted for convenience of reference only and are to be afforded no significance in the interpretation or construction of this Agreement.

**16. Multiple Counterparts** -- This Agreement may be executed in two or more 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.

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Sample Interconnection Agreement for Texas

EL PASO ELECTRIC COMPANY

SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION

COMPANY:

**This portion will be completed by EPE**

NAME: El Paso Electric Company

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: \_\_\_\_\_

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

CUSTOMER:

NAME: **Print Name**

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: **Submit Original Signed Form**

DATE: **Date of Signature**

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SAMPLE



# Sample Interconnection Agreement for Texas

EL PASO ELECTRIC COMPANY

SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION

EXHIBIT A  
Page 1 of 2

LIST OF FACILITY SCHEDULES AND POINTS OF INTERCONNECTION

Facility Schedule No.

Name of Point of Interconnection

Number of facility

Facility address (Street Name and House number)

[Insert Facility Schedule number and name for each Point of Interconnection]

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Sample Interconnection Agreement for Texas

EL PASO ELECTRIC COMPANY

SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION

EXHIBIT A  
Page 2 of 2

FACILITY SCHEDULE NO. \_\_\_\_\_

[The following information is to be specified for each Point of Interconnection, if applicable.]

1. Name: **Customer Name Applying for Interconnection**
2. Facility location: **Interconnection Address**
3. Delivery voltage: **(REQUIRED)**
4. Metering (voltage, location, losses adjustment due to metering location, and other): \_\_\_\_\_
5. Normal Operation of Interconnection: **(Day Time or Night Time)**
6. One line diagram attached (check one): \_\_\_\_\_ Yes / \_\_\_\_\_ No **(REQUIRED)**
7. Facilities to be furnished by Company: \_\_\_\_\_
8. Facilities to be furnished by Customer: \_\_\_\_\_
9. Cost Responsibility: \_\_\_\_\_
10. Control area interchange point (check one): \_\_\_\_\_ Yes / \_\_\_\_\_ No
11. Supplemental terms and conditions attached (check one): \_\_\_\_\_ Yes / \_\_\_\_\_ No

COMPANY:

**This portion will be completed by EPE**

NAME: El Paso Electric Company

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: \_\_\_\_\_

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

CUSTOMER:

NAME: **Print Name**

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: **Submit Original Signed Form**

DATE: **Date of Signature**

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## Sample Interconnection Application for Texas

**Sample Form for Customer  
Reference Only**

**EL PASO ELECTRIC COMPANY  
SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION**

**APPLICATION FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED  
GENERATION WITH THE UTILITY SYSTEM**

Return Completed Application to: El Paso Electric Company  
Attention: Manager, Distribution Monitoring  
P.O. Box 982  
El Paso, Texas 79960

Customer's Name: Interconnection Customer Name

Address: Customer's Address (This address can be different from the service point address if need it)

Contact Person: Contact Name if Different from Customer

Telephone Number: Telephone Number of Contact Person

Service Point Address: Interconnection Address (if different from Mail Address)

Information Prepared and Submitted By: Contractor's Name (if None, Use Customer Name)

(Name and Address): Address of Person Submitting the Application

Signature: Customer's Signature (Submit Original Signed Form)

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 the El Paso Electric Company for interconnection with the utility system.

### GENERATOR

Some of this information can be found on the technical data

Number of Units: Number of Inverters and Capacity

Manufacturer: Manufacturer of Inverters

Type (Synchronous, Induction, or Inverter): Choose One

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

Kilowatt Rating (95 F at location): System AC Design Capacity in KW

Kilovolt-Ampere Rating (95 F at location): System Design Capacity in KVA

Power Factor: Power Factor of Generating System

The service point address must match the address of the EPE's customer bill.

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Sample Interconnection Application for Texas

EL PASO ELECTRIC COMPANY  
SCHEDULE NO. DG  
INTERCONNECTION AND PARALLEL OPERATION OF  
DISTRIBUTED GENERATION

Voltage Rating: **Required**

Ampere Rating: **Required**

Number of Phases: **Required**

Frequency: **Required**

Do you plan to export power: \_\_\_\_\_ Yes / \_\_\_\_\_ No **Choose One**

If **Yes**, maximum amount expected: **Required Answer if Yes**

Pre-Certification Label or Type Number: \_\_\_\_\_ **Required**

Expected Energizing and Start-up Date: **Expected Operating Start Date**

Normal Operation of Interconnection: (examples: provide power to meet base load, demand management, standby, back-up, other (please describe) **Required**

One-line diagram attached: \_\_\_\_\_ Yes **Required (Please Make sure it is included)**

Has the generator Manufacturer supplied its dynamic modeling values to EPE? \_\_\_\_\_ Yes **Required**

[Note: Requires a Yes for complete application. For Pre-Certified Equipment, answer is Yes.]

Layout sketch showing lockable, "visible" disconnect device:  
\_\_\_\_\_ Yes **Required**

COMPANY:

**This portion will be completed by EPE**

NAME: El Paso Electric Company

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: \_\_\_\_\_

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

CUSTOMER:

NAME: **Print Name** \_\_\_\_\_

BY: \_\_\_\_\_  
(please print)

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

SIGNATURE: **Submit Original Signed Form**

DATE: **Date of Signature** \_\_\_\_\_

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# Sample Texas Renewable Energy Facility Ownership Status



## Texas Renewable Energy Facility Ownership Status

EI Paso Electric Company (EPE) is tracking the ownership status for a renewable energy facility applying for interconnection with EPE's grid. Please specify below the ownership status of the renewable energy facility interconnected or to be interconnected behind your meter.

**Customer-Owned System:** Includes systems paid for in full or financed by the Customer of record on the Interconnection Agreement.

**Leased System:** Includes systems installed upon the residence of the Customer of record identified in the Interconnection Agreement, for which the Customer pays the owner of the system under a contractual agreement.

Interconnection Facility Customer-Owned       Interconnection Facility Leased system

Interconnection Facility Address: Generating System Location

### Interconnection Customer

Customer Name: Interconnection Customer Name

Customer E-mail Address: Interconnection Customer E-mail

Account number: Account Number Appearing on Current EI Paso Electric Bill

Signature: Interconnection Customer Signature

### Engineering Firm/Contractor Information

Firm Name: Engineering Firm/Contractor Name

Telephone (Day): Day Phone Number

E-mail Address: Engineering Firm/Contractor E-mail

If the system is leased, the third-party owner should complete the following portion:

### Third-Party Owner

Third-Party Name: Third-Party Facility Owner Name

Third-Party Address: Third-Party Facility Owner Mailing Address

Third-Party E-mail: Third-Party Owner E-mail

## 11. Appendix B: Simplified Interconnections Terms and Conditions

### Appendix B

#### Simplified Interconnection Terms and Conditions For Generating Facilities with a Rated Capacity up to and Including 10 kW

##### 1.0 Construction of the Facility

The Interconnection Customer (the "Customer") may proceed to construct the Generating Facility when the utility approves the Interconnection Application (the "Application") and returns it to the Customer.

##### 2.0 Interconnection and Operation

The Customer may operate Generating Facility and interconnect with the utility's electric system once all of the following have occurred:

- 2.1 Upon completing construction, the Customer will cause the Generating Facility to be inspected or otherwise certified by the appropriate local electrical wiring inspector with jurisdiction, and
- 2.2 The Customer returns the Certificate of Completion to the utility, and
- 2.3 The utility has completed its inspection of the Generating Facility. All inspections must be conducted by the utility, at its own expense, within ten Business Days after receipt of the Certificate of Completion and shall take place at a time agreeable to the Parties. The utility shall provide a written statement that the Generating Facility has passed inspection or shall notify the Customer of what steps it must take to pass inspection as soon as practicable after the inspection takes place.
- 2.4 The utility has the right to disconnect the Generating Facility in the event of improper installation or failure to return the Certificate of Completion.

##### 3.0 Safe Operations and Maintenance

The Customer shall be fully responsible to operate, maintain, and repair the Generating Facility as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

##### 4.0 Access

The utility shall have access to the disconnect switch and metering equipment of the Generating Facility at all times. The utility shall provide reasonable notice to the Customer when possible prior to using its right of access.

##### 5.0 Disconnection

The utility may temporarily disconnect the Generating Facility upon the following conditions:

- 5.1 For scheduled outages per notice requirements in the utility's tariff or Commission rules.
- 5.2 For unscheduled outages or emergency conditions pursuant to the utility's tariff or Commission rules.
- 5.3 If the Generating Facility does not operate in the manner consistent with these Terms and Conditions.
- 5.4 The utility shall inform the Customer in advance of any scheduled disconnection, or as is reasonable after an unscheduled disconnection.

##### 6.0 Indemnification

The Interconnection Customer shall indemnify and hold harmless the Utility against all damages, expenses and other obligations to third parties attributable to the negligence, strict liability or intentional acts of the Interconnection Customer. The Utility shall indemnify and hold harmless the Interconnection Customer against all damages, expenses and other obligations to third parties attributable to the negligence, strict liability or intentional acts of the Utility. The terms "Utility" and "Interconnection Customer," for purposes of this indemnification provision, include their officers, directors, trustees, managers, members, employees, representatives, affiliates, successors and assigns.

## Appendix B

### **7.0 Insurance**

All Generating facilities with a rated capacity of 10 kW or less are strongly urged to obtain liability insurance to cover risks, liabilities, and consequences which may arise as a result of interconnection with the Utility System.

### **8.0 Limitation of Liability**

Except in the event of acts of willful misconduct, each Party's liability to the other Party for failure to perform its obligations under this Agreement, shall be limited to the amount of direct damage actually incurred. Neither Party shall be liable to the other Party for any punitive, incidental, indirect, special, or consequential damages of any kind whatsoever, including for loss of business opportunity or profits, regardless of whether such damages were foreseen.

Notwithstanding any other provision in this Agreement, with respect to Utility's provision of electric service to any customer including the Interconnection Customer, the Utility's liability to such customer shall be limited as set forth in the Utility's tariffs and terms and conditions for electric service, and shall not be affected by the terms of this Agreement.

### **9.0 Termination**

The agreement to interconnect may be terminated under the following conditions:

- 9.1 By the Customer: By providing written notice to the utility.
- 9.2 By the utility: If the Generating Facility fails to operate for any consecutive 12 month period or the Customer fails to remedy a violation of these Terms and Conditions.
- 9.3 Permanent Disconnection: In the event this Agreement is terminated, the utility shall have the right to disconnect its facilities or direct the Customer to disconnect its Generating Facility.
- 9.4 Survival Rights: This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

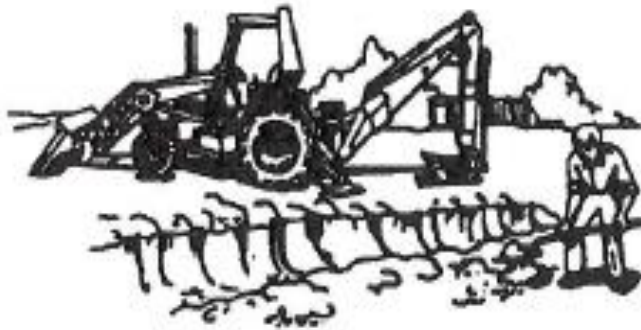
### **10.0 Assignment transfer of Ownership of the Facility**

This Agreement shall survive the transfer of ownership of the Generating Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the utility.

## 12. Appendix C : Safety Recommendations

### Appendix C

**"WARNING"**  
BEFORE DIGGING OR TRENCHING  
CALL  
1-800-344-8377 IN TEXAS  
OR  
1-800-321-ALERT (25378) IN NEW MEXICO  
**UNDERGROUND CABLE**



**"AVISO"**  
ANTES DE EXCAVAR O ZANJAR  
LLAME  
1-800-344-8377 EN TEXAS  
O  
1-800-321-ALERT (25378) EN NEW MEXICO  
**CABLE SUBTERRANEO**



**"DANGER"**  
**UNLAWFUL TO OPERATE THIS  
EQUIPMENT WITHIN 10 FEET OF  
HIGH VOLTAGE LINES.**

FOR ASSISTANCE: EL PASO (915) 877-3400  
LAS CRUCES (575) 523-7591

**"PELIGRO"**  
**NO DEBE  
OPERAR ESTE  
EQUIPO  
DENTRO 10  
PIES DE LAS  
LINEAS DE  
ALTO  
VOLTAJE.**



PARA ASISTENCIA: EL PASO (915) 877-3400  
LAS CRUCES (575) 523-7591

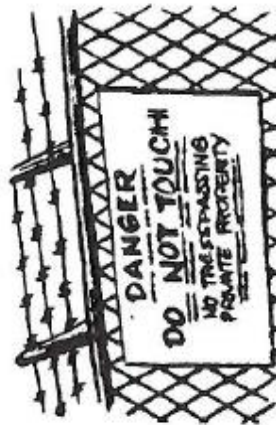
## Appendix C

### INTRODUCTION

Overhead and underground electric lines are powerless only in one respect . . . they can't prevent you or your equipment from making a dangerous contact--only you can control that. Keep a safe distance from them and prevent "hot wire" fatalities and injuries.

El Paso Electric offers an informative Electrical Safety Display Presentation. The demonstration is very effective in educating the children, as well as adults, on the importance of practicing electrical safety. Anyone interested in scheduling a presentation may call El Paso Electric at (915) 543-5758.

### SUBSTATION AND TRANSFORMER ENCLOSURE ENTRY--ILLEGAL AND DANGEROUS



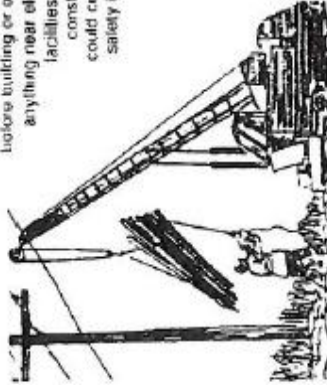
Entering a substation or transformer vault is illegal and dangerous. You could be seriously injured or electrocuted. If you lose a kite, ball, model airplane or anything else inside these facilities, call El Paso Electric's emergency number don't try to retrieve from yourself.

### LOOK UP . . . LOOK OUT . . . AVOID EQUIPMENT CONTACTS WITH OVERHEAD WIRES

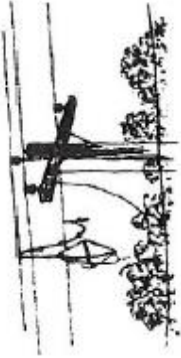
Don't work under electric wires. Equipment such as cranes, post hole diggers, well drilling rigs, hay loaders and raised truck beds could contact electric wires causing serious burns or even death to the operator and anyone else in close proximity of the equipment.

### CONSTRUCTION NEAR ELECTRICAL FACILITIES MAY BE HAZARDOUS

Check with El Paso Electric before building or erecting anything near electrical facilities. Such construction could create a safety hazard.

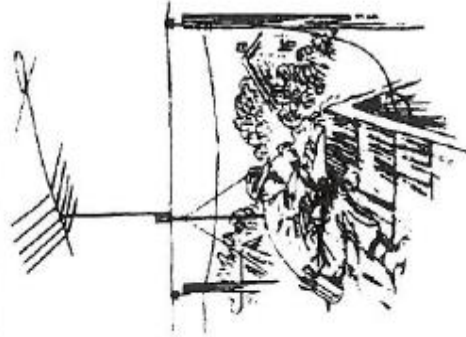


### DON'T FLY KITES OR MODEL AIRPLANES NEAR ELECTRICAL FACILITIES



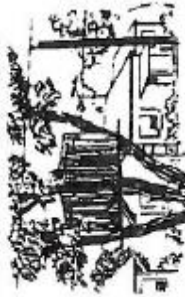
Never fly a kite or model airplane near overhead electric wires of any kind. Fly kites or model airplanes in the open and stay alert. If they become entangled with overhead wires, don't attempt to get them down or touch any dangling strings or wires. Notify El Paso Electric.

### LEAVE CB, TV AND RADIO ANTENNA INSTALLATIONS TO EXPERTS



Installing an antenna can be unstable and awkward to control. There is danger of it falling against electric wires, resulting in serious burns or death to anyone contacting the "energized" antenna.

### KEEP TREE HUTS AWAY FROM WIRES



Never build, or permit to be built, a tree hut in a tree that has wires running through or near it. Don't let children play in trees that have wires through them.

### NEVER CLIMB POLES, TOWERS OR STRUCTURES



You could contact "energized" facilities and be seriously injured or electrocuted.

**LADDER AND SCAFFOLD CONTACTS ARE DANGEROUS**



Do not set up ladders or scaffolds close to overhead electric lines. Contacting electric lines could cause serious burns or death to people working from ladders or scaffolds.

**KNOW LOCATION OF UNDERGROUND ELECTRICAL FACILITIES BEFORE DIGGING**



Digging or driving objects into underground wires could cause serious injuries and/or service interruptions. Call El Paso Electric in advance to locate electrical facilities.

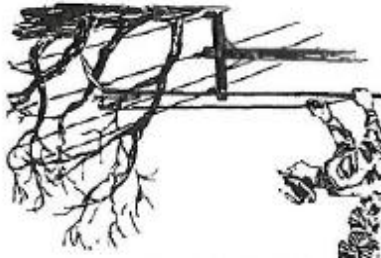
**POLES, TOWERS AND STRUCTURES ARE NOT TARGETS!**

Never shoot at poles, towers or structures. Bullet damage to insulators and other electrical equipment could result in service interruptions or possible serious injuries to anyone that touches the pole, tower or structure.

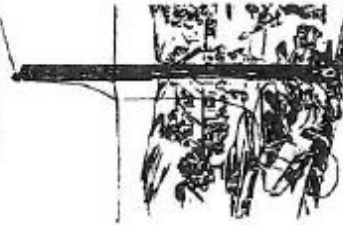


**DON'T TRIM OR CUT TREES NEAR ELECTRICAL FACILITIES**

Never attempt to prune trees that are located near power lines. Trimming trees could cause contact with electrical facilities, resulting in serious injuries. Call El Paso Electric if you feel your trees are growing too close to power lines.



**STAY AWAY FROM ANY FALLEN WIRES**



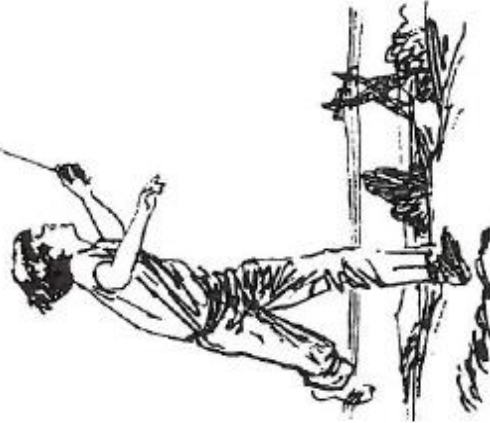
Fallen wires can result from motor vehicle accidents, storms, fires or other causes. Don't go near or touch any fallen wires--they may be energized if a person or object is in contact with a wire. Don't touch a person, object or wire. Call El Paso Electric for corrective action.

**CAUTION: TAMPERING WITH ELECTRIC METER COULD RESULT IN ELECTROCUTION**

The electric meter which serves you is the property of El Paso Electric, and when installed was sealed for your protection. It is not only dangerous but a criminal act to tamper with or remove the electric meter. Penalties for tampering include fines, imprisonment, or both.



**PUBLIC SAFETY AROUND ELECTRICAL FACILITIES**



EMERGENCY NUMBERS  
TX (915) 877-3400  
NM (575) 523-7591



## Appendix C

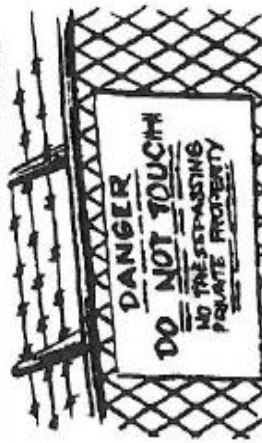
### INTRODUCCION

Sobre su cabeza y bajo tierra los cables conductores de electricidad no tienen ningún poder. Solo en un sentido no pueden prevenirle a Usted o su maquinaria de hacer contacto peligroso con ellos. Solo Ud. puede controlarlo, eso. Manténgase a una distancia segura de cables conductores de electricidad y prevenga lesiones por cables vivos.

El Paso Electric ofrece una presentación informativa sobre el mantenimiento de la seguridad al manejarse la electricidad o aparatos eléctricos. La demostración es muy efectiva y educa a niños y adultos acerca de la importancia de practicar las reglas de seguridad al manejarse la electricidad o aparatos eléctricos.

Aquellas personas interesadas en fijar el horario de una presentación pueden llamar a El Paso Electric al número (915) 543-5758.

**ENTRADA AL RECINTO DE SUBESTACIONES Y TRANSFORMADORES. ILEGAL Y PELIGROSA.**

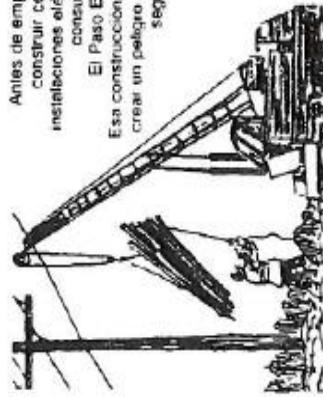


Entrar al recinto de una subestación o transformador eléctricos es ilegal y peligroso. Podría causarse lesiones graves o electrocutarse. Si pierde una corneta, pelota, avioncillo o cualquier otra cosa dentro de estos recintos, llame al número telefónico de emergencia de El Paso Electric, no trate de recuperar esos objetos Ud mismo.

**MIRE HACIA ARRIBA... MIRE A TODOS LADOS... EVITE EL CONTACTO CON CABLES AEREOS.**

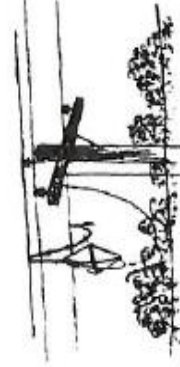
No trabaje debajo de cables conductores de electricidad. El equipo de trabajo como gruas, escavadores, empacadores de heno y camiones de caña hidráulica pueden hacer contacto con cables eléctricos causando quemaduras graves o la muerte al operador y cualquier otra persona que se encuentre en la zona.

### PUEDO SER PELIGROSO HACER TRABAJOS DE CONSTRUCCION CERCA DE INSTALACIONES ELECTRICAS.



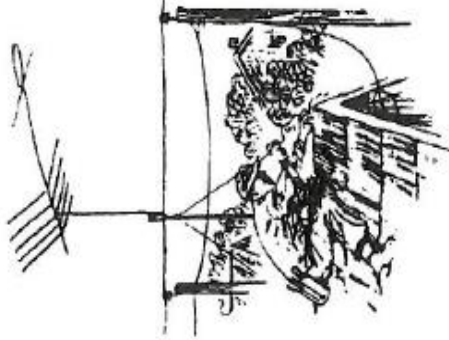
Antes de empezar a construir cerca de instalaciones eléctricas consulte con El Paso Electric. Esa construcción podría crear un peligro para la seguridad.

### NO VUELE COMETAS O AVIONES MINIATURA CERCA DE INSTALACIONES ELECTRICAS



Nunca vuele cometas o aviones miniatura cerca de cables aéreos de ninguna clase. Vuote sus cometas o aviones miniatura en espacios abiertos y esté alerta. Si se acercan en cables aéreos de luz, no trate de bajarlos. No toque la cuerda ni los cables. Notifique a El Paso Electric.

### DEJE LA INSTALACION DE LAS ANTENAS DE CF, RADIO Y TV A LOS EXPERTOS.



Al instalar una antena su estabilidad es difícil de controlar. Hay el peligro de que caiga sobre cables eléctricos resultando en quemaduras graves o la muerte para cualquiera que esté en contacto con esa antena.

### CONSTRUYA LAS CASITAS EN LOS ARBOLES LEJOS DE LOS CABLES DE LUZ



Nunca construya, o permita que construyan, una casita en un árbol por el que atraviesan cables o pasen cerca. No deje que los niños jueguen en árboles por los que pasan cables de luz.

### NO SE SUBA A LOS POSTES, TORRES O ESTRUCTURAS DE ELECTRICIDAD



Se puede encontrar con instalaciones con "energía activa" y recibir lesiones graves o ser electrocutado.

**EL CONTACTO DE ESCALERAS Y ANDAMIOS CON CABLES ES PELIGROSO.**



No instale andamios o escaleras cerca de cables aéreos de electricidad. El contacto con los cables de la luz puede causar quemaduras graves o la muerte a las personas trabajando en las escaleras o los andamios.

**ANTES DE CAVAR CONOZCA LA LOCALIZACION DE CABLES SUBTERRANEOS.**



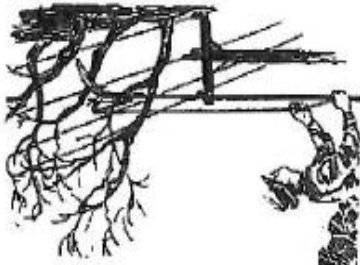
Cavar o enterrar objetos que encuentren cables eléctricos puede causar lesiones graves o interrupciones del servicio. Llame a El Paso Electric con anticipación para localizar instalaciones eléctricas subterráneas.

**LOS POSTES, TORRES Y ESTRUCTURAS ELECTRICAS NO SON PARA TIRO AL BLANCO.**

Nunca dispare contra los postes, torres o estructuras eléctricas. Los proyectiles dañan los aislantes y el equipo eléctrico lo que puede resultar en interrupciones del servicio o causar lesiones graves a todo aquel que toque ese poste, torre o estructura eléctricas.

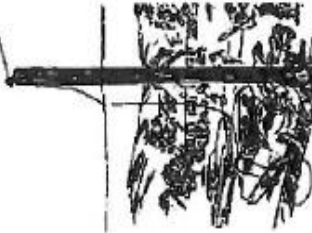


**NO PODE O CORTE ARBOLES CERCA DE INSTALACIONES ELECTRICAS.**



Nunca trate de poder árboles que estén cerca de cables aéreos de luz. Podría entrar en contacto con esos cables y recibir lesiones y graves. Llame a El Paso Electric si nota que sus árboles están creciendo cerca de los cables aéreos de luz.

**ALEJESE DE CUALQUIER CABLE ELECTRICO CAIDO.**



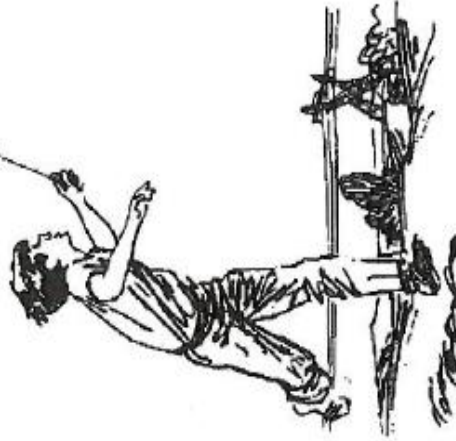
Los accidentes automovilísticos, tormentas, incendios y otras causas pueden ocasionar cables eléctricos caídos. No se acerque ni los toque, pueden estar "vivos". Si una persona o objeto está en contacto con estos cables no toque ni a la persona, ni al objeto ni al cable. Llame a El Paso Electric para recibir indicaciones.

**CUIDADO: MANIPULAR EL MEDIDOR DE LUZ PUEDE ELECTROCUTARLO.**



El medidor de luz es propiedad de El Paso Electric y cuando se instala es sellado para su protección. No solamente es peligroso sino que es además un delito manipular o remover el medidor de luz. Las penas por este delito incluyen multas, prisión o ambos.

**SEGURIDAD PUBLICA CERCA DE INSTALACIONES ELECTRICAS**



NUMEROS DE EMERGENCIA  
TX (915) 877-3400  
NM (575) 523-7561



## 13. Appendix D: Type of Service Voltages

### Appendix D

# SECTION IV

## TYPES OF SERVICE VOLTAGES AVAILABLE

### 1. GENERAL

The customer should contact the Planner to determine the exact type of service which will be supplied at the premises to be served before purchasing any equipment or proceeding with the wiring of the project. Attention to this detail may avoid the purchase of equipment for which service is not available.

**EXISTING EQUIPMENT MOVED TO OTHER PREMISES WITH A DIFFERENT TYPE OF SERVICE MUST COMPLY WITH THE PREVAILING REQUIREMENTS OF THE COMPANY BEFORE BEING CONNECTED IN A NEW LOCATION.**

The Alternating Current Service supplied by the Company has a normal frequency of 60 hertz.

### 2. TYPES OF ELECTRIC SERVICES GENERALLY AVAILABLE

The following types of service are generally available in listed areas to customers served under the Company's standard rate schedules. **The Company will normally supply only one type of service and one set of conductors to a building, and all electric energy is to be measured by a single meter at each point of delivery.** The Company is responsible for maintaining nominal voltage levels up to the point of delivery or connection.

Refer to the chart on the last page of this Section for a summary of the minimum and maximum kilowatt (KW) levels necessary to qualify for the various types of service available.

#### **120/240 VOLT, SINGLE-PHASE, 3 WIRE SERVICE**

This type of service is generally available throughout the Company's service area except in the Downtown underground district in El Paso and certain other areas. This service is suitable for 240 volt, single phase loads and 120 volt lighting service.

#### **240/480 VOLT, SINGLE-PHASE, 3 WIRE SERVICE**

This type of service is generally available throughout the Company's service area for City-owned and Company-owned street lighting for state, city or county use only. If a meter will be installed, 3 wire service will be provided and the customer must install 3 wires.

## Appendix D

### **120/240 VOLT, THREE-PHASE, 4 WIRE "DELTA" SERVICE**

This type of service is primarily for power service. Since it is usually necessary to extend the distribution line and/or install transformation to provide this type of service, the customer must contact the Planner to determine the availability of this type of service. **This type of service is generally not available for underground service.** Under certain conditions, this type of service is available for large residential refrigerated air conditioning or space heating loads. The Planner must be contacted to determine if this type of service is available for residential service.

### **120/208 VOLT, THREE-PHASE, 4 WIRE "Y" SERVICE**

This type of service is available in the downtown, and other underground commercial areas of El Paso and Las Cruces and other installations upon request and approval. The customer must ensure that all equipment is manufactured to operate at 208 volts. The Company is not liable for voltage problems that occur with 230 volt rated equipment being served 208 volts.

This service is suitable for 208 volt, 3 phase motor loads and for 120 volt lighting service. Service in the El Paso downtown underground network area is normally of this type except nominal voltage is 125/216 volts and all revised services shall be for 3 phase, 4 wire, 125/216 volt service in the area except as specifically negotiated with the Distribution Design and Delivery Business Unit in El Paso.

Service in the Las Cruces downtown underground area is normally single phase, 120/240 volt, 3 wire service and 3 phase, 120/208 volt or 277/480 volt, 4 wire service. For single phase and 3 phase service in this area, consult with the Planner in Las Cruces.

**This type of service will necessitate the selection of motors or equipment which is specifically designed for operation at this specified voltage.**

### **277/480 VOLT TRANSFORMER CONNECTIONS TO A CUSTOMER REQUIRING 480 VOLT, THREE-PHASE, 3 WIRE SERVICE**

This service is for 3 phase loads only (i.e., irrigation pumps, water wells, etc.), where customer requires 480 volt, 3 phase, 3 wire service for 3 phase loads and does not require a current carrying neutral conductor for single phase loads. The Company will run 4 wires to the service delivery point.

The Company will not allow the customer to ground "one corner" of 480 volt service because of our transformer secondary connections. **Customer must bring out an equipment ground to the point of service, which will be tied to the Company's system neutral, as per current National Electric Code.** For equipment grounding conductor size, refer to current National Electric Code. All 120 and 240 volt equipment and lighting must be supplied by means of two winding transformers installed, owned and maintained by the customer.

### **277/480 VOLT, THREE-PHASE, 4 WIRE "Y" SERVICE**

This type of service is available to serve approved loads upon special application to the Company. It is suitable for large nonresidential loads. 120 and 240 volt equipment and

## Appendix D

lighting must be supplied by means of two winding transformers installed, owned and maintained by the customer.

Single-phase 277/480 volt is not available.

**NOTE:** Whatever voltage is required by a customer regardless of the electrical load on single-phase and 3 phase meter loops, the **minimum rating on the service entrance equipment will be 100 amps**. The Company is not liable for damage to customer's equipment due to installation of wrong circuit paneling.

### TRANSMISSION OR PRIMARY VOLTAGE SERVICE

- A. **Primary voltage service** can be made available for approved loads upon special application to the Company. Nominal voltages available, as rated phase to phase, are: 4,160 volts, 13,800 volts, or 24,000 volts. Some voltages are not available in all areas of the Company's service territory. The supply of such service usually requires the customer to construct or install special facilities for connection and metering purposes on the customer's premises. The details of such construction and type of service are subject to special negotiations between the Company and the customer. Such details shall be secured by the customer in writing from the Planner.
- B. **Transmission voltage service** (69,000 volts or 115,000 volts) availability is contingent upon many factors and will be negotiated with the Company. Six (6) months to two (2) years may be required to provide transmission voltage service, so adequate lead time should be given to the Company.



## TYPES OF SERVICE AVAILABLE FOR CUSTOMER'S ELECTRICAL LOAD (DEMAND)

### 1. Secondary Voltage Service

Voltage	Service Type	Demand Range (KVA)*
- 120/240, Single-Phase, 3 Wire	Overhead	1 – 75
- 120/240, Three-Phase, 4 Wire, Delta	Overhead	7½ – 112½
- 120/208, Three-Phase, 4 Wire, Wye	Overhead	20 – 112½
- 277/480, Three-Phase, 4 Wire, Wye	Overhead	30 – 225
- 120/240, Single-Phase, 3 Wire	Underground	1 – 167 (up to 250 KVA in New Mexico)
- 120/208, Three-Phase, 4 Wire, Wye	Underground	50 – 300
- 277/480, Three-Phase, 4 Wire, Wye	Underground	150 – 2500

### 2. Primary Voltage Service (Overhead or Underground)

Voltage	Demand Minimum (KVA)*
- 7,970 Single-Phase Line to Ground	200
- 13,800 Grd/7,970 Three-Phase	600
- 13,800 Single-Phase Line to Ground	300
- 23,900 Grd/13,800 Three-Phase	750 and above

\*Demand range subject to modification by EPE.

## 14. Appendix E: Technical Requirements for Interconnections and Parallel Operation of Qualifying Facilities 10 kW or Less

### Appendix E

#### El Paso Electric Company

#### TECHNICAL REQUIREMENTS FOR INTERCONNECTION AND PARALLEL OPERATION OF QUALIFYING FACILITIES 10 KW OR LESS

##### General Requirements

1. Customer may operate 60 hertz, three-phase or single-phase generating equipment, 10 kW or less, in parallel with the utility system pursuant to an interconnection agreement, provided that the equipment meets or exceeds the requirements detailed in this document.
2. Where the application of the technical requirements set forth in this document are deemed inappropriate by one or both parties for a specific facility, the Customer and Utility may agree to different requirements, or a party may petition the New Mexico Public Regulation Commission (NMPRC) for a good cause exception, after making every reasonable effort to resolve all issues between the parties.

##### Interconnection and Protection Requirements

1. Customer's generation and interconnection installation shall conform to all applicable national, state, local construction and safety codes and the requirements of the Utility.
2. Customer's generator shall be equipped with protective devices designed to disconnect the generator from, and prevent connection to, a de-energized circuit owned by the Utility.
3. Customer's generator shall be equipped with protective devices designed to prevent connection or parallel operation of the generating equipment with the Utility unless the utility system service voltage and frequency are within standard operating ranges.
4. The Customer shall be responsible for protecting its generation equipment from damage that may result from interruptions, faults, and transient voltage activity occurring on the Utility system.
5. The Customer shall furnish and install a visible disconnecting means (AC Disconnect) to allow physical and electrical separation of the Customer's generator from his main service panel. The disconnecting means shall be accessible to Utility personnel at all times and shall be capable of being locked in the open position. It shall be placed on the same wall and within 5 feet of distance of the revenue meter. (This may be adjusted based on special circumstance.)
6. If the current customers house does not have a service main disconnect (main breaker), the customer shall upgrade service to include a main disconnect between the

## Appendix E

revenue meter and the main panel. The disconnecting means shall be accessible to Utility personnel at all times.

7. The Customer shall post a permanent and weather proof one-line electrical diagram of the facility located at the point of service connection to the Utility.

### Operating Requirements

1. Operation of Customer's generator shall be within standard parameters so as to not damage Utility or other customer's equipment nor affect the reliability of service.
2. The Customer shall operate its' generating equipment in such a manner that the voltage levels on the Utility system are in the same range as if the generating equipment were not connected to the Utility's system. The Customer shall provide an automatic method of disconnecting the generating equipment from the Utility system if a sustained voltage deviation in excess of +5% or -10% from nominal voltage persists for more than 30 seconds, or a deviation in excess of +10% or -30% from nominal voltage persists for more than ten cycles. The Customer may reconnect when the Utility system voltage and frequency have returned to normal range for a period of at least two minutes.
3. The Customer's equipment shall not cause excessive voltage flicker on the Utility system. This flicker shall not exceed 3.0% voltage dip, as measured at the point of interconnection.
4. The operating frequency of the Customer's generating equipment shall not deviate more than +0.5 Hertz (Hz) or -0.7 Hz from 60 Hz. The Customer shall automatically disconnect the generating equipment from the Utility system within 15 cycles if this frequency tolerance cannot be maintained. The Customer may reconnect when the Utility system voltage and frequency have returned to normal range for a period of at least two minutes.
5. In accordance with the Institute of Electrical and Electronics Engineers (IEEE) 519, the total harmonic distortion (THD) voltage shall not exceed 5.0% of the fundamental frequency voltage nor shall any individual harmonic voltage exceed 3.0% of the fundamental frequency voltage as measured at the point of interconnection.

**Conditions for Interconnection** Section 10.2 of Title 17, Chapter 9, Part 3 of the Code of New Mexico Rules describes the conditions of interconnection. Nothing contained herein shall operate to alter the conditions contained therein.

## 15. Appendix F: New Mexico Renewable Energy Credit Rate Table

Effective on or after January 1, 2012:				
SYSTEM SIZE	PERIOD	SOLAR SYSTEMS PER KWH	WIND TURBINES SYSTEMS	RATES APPLICABILITY
SMALL (10kW and less)	1/1/2012 - 6/30/2012	\$0.10	\$0.06	These rates will be applicable for a period of up to eight (8) years, with common termination date of December 31, 2020 from the initiation of service pursuant to these rates for all contracts effective on or after January 1, 2012.
	7/1/2012 - 12/31/2012	\$0.08	\$0.05	
	1/1/2013 - 6/30/2013	\$0.06	\$0.04	
	7/1/2013 - 12/31/2013	\$0.04	\$0.03	
MEDIUM (over 10kW and up to 100kW)	1/1/2014 - until otherwise specified by the Public Utility Commission	\$0.02	\$0.02	These rates will be applicable for a period of up to eight (8) years, with common termination date of December 31, 2020 from the initiation of service pursuant to these rates for all contracts effective on or after January 1, 2012.
	1/1/2012 - 6/30/2012	\$0.12	\$0.024	
	7/1/2012 - 12/31/2012	\$0.09	\$0.022	
	1/1/2013 - 6/30/2013	\$0.06	\$0.02	
	7/1/2013 - 12/31/2013	\$0.04	\$0.02	
LARGE (over 100kW and up to 1,000kW)	1/1/2014 - until otherwise specified by the Public Utility Commission	\$0.02	\$0.02	These rates will be applicable for a period of up to eight (8) years, with common termination date of December 31, 2020 from the initiation of service pursuant to these rates for all contracts effective on or after January 1, 2012.
	1/1/2012 - 6/30/2012	The purchase price for RECs from Large System participants will be at prevailing market prices, provided that the price shall be no more than 90% of the applicable incentive prices paid for solar facilities under Rate No. 34 - Medium System REC Purchase Program, based on the Tier price in effect at the time the REC purchase proposal is received by EPE.	The purchase price for RECs from Large System participants will be at prevailing market prices, provided that the price shall be no more than 90% of the applicable incentive prices paid for solar facilities under Rate No. 34 - Medium System REC Purchase Program, based on the Tier price in effect at the time the REC purchase proposal is received by EPE.	
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