

2019 Solar Installer Training

for Xcel Energy New Mexico

Guidelines & Applications

March 2019



Welcome to the 2019 Solar Installer Training

 Goal: To provide installers and developers with the information necessary to complete Xcel Energy's solar applications in a timely manner with little to no errors or delays

 Achieving the above goal will aid in meeting or exceeding our mutual customer's expectations, in terms of interconnection timelines, resulting in an overall increase in customer satisfaction



What Can I Learn From This Training?

- New installers: Familiarize yourselves with the basics of the solar application process and find answers to common questions
- Current installers: Continue your education and learn about best practices
- Customers: Learn more about the solar application process and receive answers to common questions



Involved Parties

- On-Site Solar Team (Colorado)
 - Renewable Choice Team Lead
 - Marketing Assistants
- Internal Team Players
 - Customer Service/Energy Experts
 - Builders Call Line
 - Metering and Area Engineering
 - Field Metering
 - Billing
- External Industry Team Players
 - Installer
 - Developers
 - Local inspectors
 - Home builders

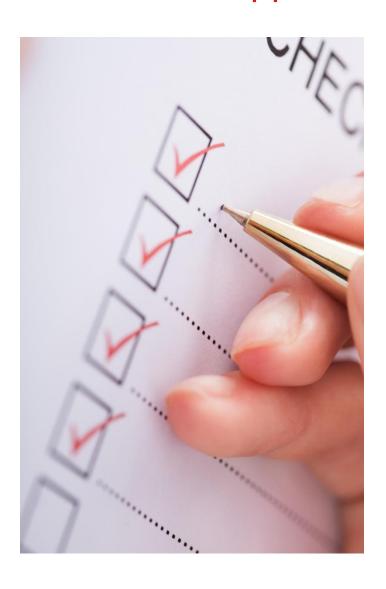


Process Updates in 2019: What's New?

- > Communication Expectations:
 - Salesforce Application Notes to be use for questions regarding active applications only
 - <u>NMSolarProgram@xcelenergy.com</u> Inbox questions related to Cancelled or Completed applications, general inquiries, or customer questions
 - Xcel Energy Solar Hotline (303.571.7652) Only call for urgent requests
- New Homes Estimator Table updated to evaluate 120% rule by comparing the '120% of usage' column to the 'System PV Watts' estimate in solar application
- > Field metering notices:
 - When a Meter Corrections or No Access (out) notices are left at the premise please call the number listed on the notice to reschedule the meter technician to set the solar meters
- > Replacement solar system process

Application Process

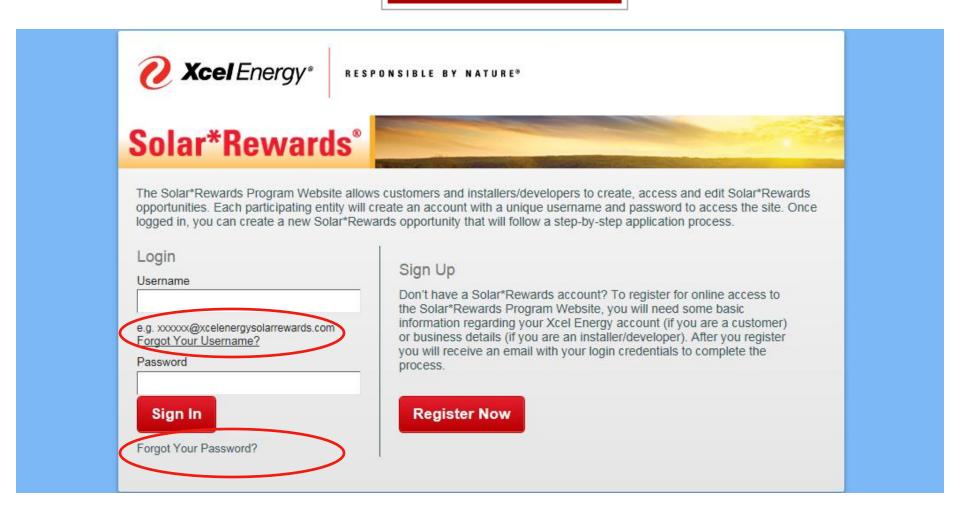
Application Process



- **1.** Registration: Login (slides 8,9)
- **2. Start**: Programs, Batteries, New Construction, EVs, Rates (slides 10-20)
- 3. Contacts (slide 21)
- **4. System Details**: 120% Rule, Proof of SF (slides 22-30)
- **5. Documents & Payments**: Online Payments, Designs, Metering (slides 31-35)
- 6. Engineering Review (slides 36-40)
- 7. Final Information: Proof of Insurance, Final Electrical Inspection, Solar Bank Election form (slides 41-45)
- **8. Meter Installation:** Orders, Timeframes, Corrections, Permission to Operate (slides 46-50)
- **9.** Other: Extensions, Assignment of Contract, System Removals, Replacements, Manuals, Data Requests (slides 51-60)

Step 1: Registration

Application Portal



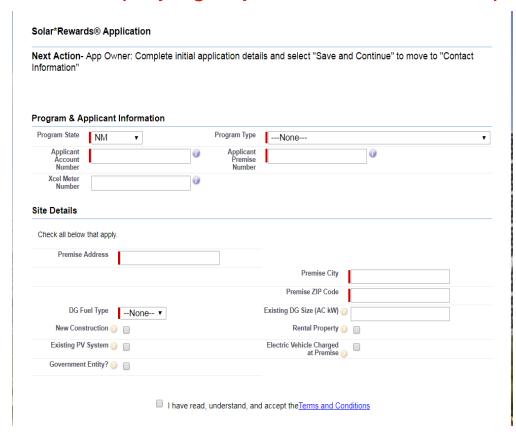
Usernames and Passwords

Please be sure to register under your respective company name, if applicable

- Usernames will always end in
 @xcelenergysolarrewards.com
- Forgot Your Username?
 Email Nmsolarprogram@xcelenergy.com
- Password? Select "Forgot Your Password?" and an email will be sent to reset your password
 - Email will not be sent unless the username is correct
- Once logged in, you can create new applications at any time (as long as capacity is available)

Step 2: Start

Fields displaying adjacent red bar are required

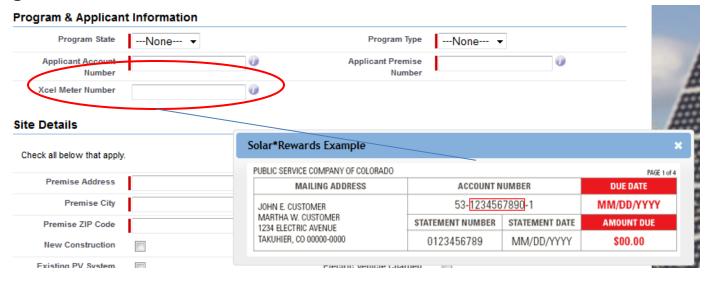


- Program State
- Program Type
- Xcel Energy Applicant Account Number
- Xcel Energy Applicant Premise Number
- Premise Address
- DG Fuel Type (Solar PV, Battery etc.)
- Estimated Array Capacity (kW)
- DG Generator Type
- Optional Fields:
 - New construction
 - Existing PV System
 - Government Entity
 - Rental Property
 - Electric Vehicle Charged at Premise

Call Customer Service if you need to confirm the account/premise numbers: 1-800-895-4999

Account Numbers

"How do I enter the customer's account number? I'm entering the 10-digit number and it's not working"



- Must be permanent account and premise numbers
- Only enter the numbers in between the dashes of the account number
- Do not enter any leading zeroes
- Having a recent copy of the customer's bill on hand when applying for a solar application is highly advised
- Need help? Click the guestion mark next to the "Applicant Account Number" field

Program Type

- Choose your program type:
 - DG Net Metering (non-incentivized program)
 - Peak Demand Pricing
- Determine the system size:
 - Small (.05-10kW), Medium (10.01-100kW), or Large (>100kW)
- Select either Customer Owned or Third Party Owned:
 - A Third-Party Owned system is owned by a third party installer/developer; in most cases, a customer has entered into a lease agreement with the developer for the system
 - A Customer-Owned system is fully owned by customer (please note Rental Property if applicable)

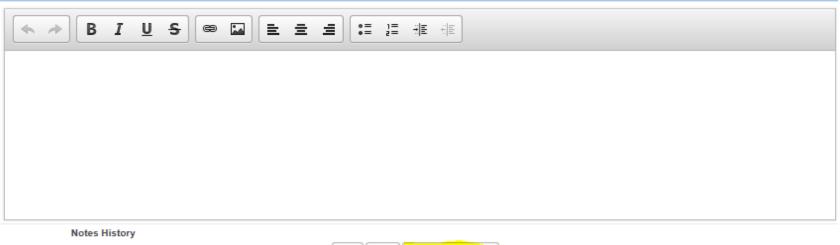
DG Net Metering Products

CO - 2018 DG Large (>500kW) Customer Owned
CO - 2018 DG Large (>500kW) Third Party
CO - 2018 DG Medium (25.01-500kW) Customer Owned
CO - 2018 DG Medium (25.01-500kW) Third Party
CO - 2018 DG Small (.05-25kW) Customer Owned
CO - 2018 DG Small (.05-25kW) Third Party

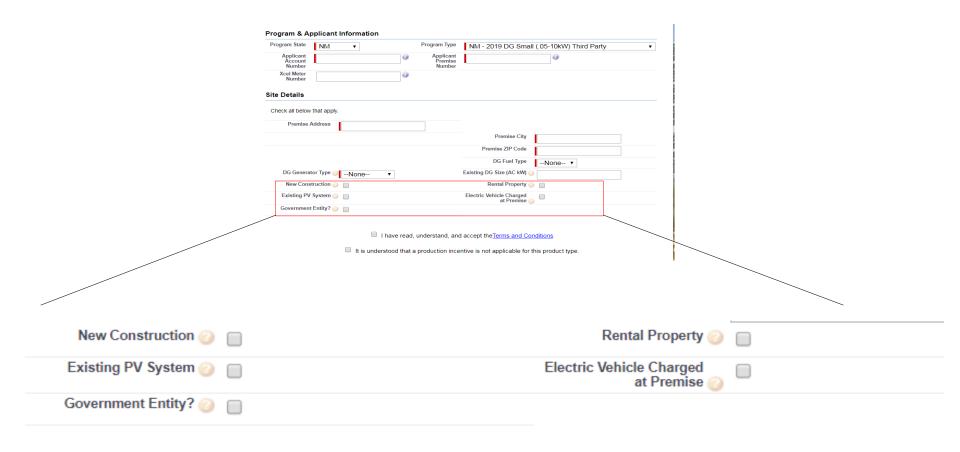
Program Type Cont...

- The user will ONLY be able to enter the system size (kW) applicable to the Program Type selection
 - For example, if the small program type is selected you cannot create an application for 11 kW since the small program maximum size is 10 kW
 - If the system was registered within the wrong program, please go to the Application Summary tab and click on 'Cancel Application' as soon as possible, then re-apply for the appropriate program offering

Application Notes



Special Circumstances



- Please make sure you are selecting a box if a special circumstance exists
- Checking the applied box(es) will trigger certain events to occur

Rental Properties

"How do I enter customer information if a tenant is living in the customer's home?"

 Be sure to check the applicable box for Rental Property - this will require the Tenant and Landlord Release Form to be signed in the Documents & Payments tab of the application



- If the tenant pays the electric bill, then the account number and premise number entered should be the tenants, However, the customer name, contact email, and phone listed should be the actual landlords, not the tenant's
- If the landlord pays the electric bill, then all customer information should be the landlords

Electric Vehicles

"How will the energy usage be calculated if the customer has an electric vehicle?"

- Submit copy of vehicle registration showing address corresponding with PV install address
 - Will accept the EV proof of purchase
- 120% Rule Calculation
 - < 4 months of consumption history with EV: Add 250 kWh per month (3,000 kWh total per year) to consumption history
 - >/= 4 months of consumption history with EV: Calculate based on customer's average annual consumption with an EV. No exceptions

New Construction

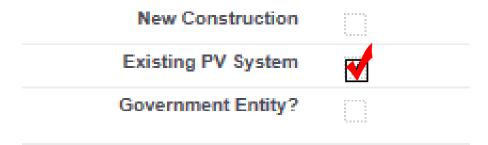
"We have permanent account and premise numbers, but they are under the builder's name. Can I start a solar application?"



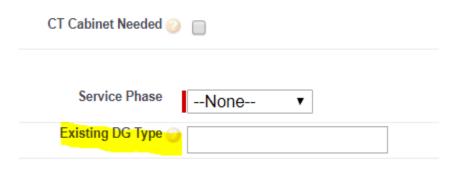
- Yes, an application can begin under builder's name, as long as the site has permanent account and premise numbers
- After solar meters are installed and the new customer's name is on the electric account,
 SolarProgram can initiate an Assignment of Contract

Existing PV System

 If there is an existing PV system at the premise, must check the box noting Existing PV System on the Systems Details page



 Must also enter in the Existing DG Size (AC kW) so that our engineers know what the total aggregate solar capacity is at the premise



*This information is checked during Engineering Review and can cause delays if the information isn't provided upfront

Existing PV System Cont...

"A customer wants to add an additional PV system to their already existing system. Do I need to disclose the pre-existing system on the application or on the system designs?"

- The Study Fee will be calculated based on the total AC kW system size;
 =SUM of Existing DG Size field + Total System Power Rating field
- If combined kW of systems is greater than 10 kW, a signed <u>SGIA</u> and study fee of \$1,000 is required
- The aggregate of the existing and additional system sizes cannot exceed
 120% of the customer's annual electricity usage
- Existing system and interconnection point must show on the site plan and line diagram
- A second production meter may or may not be installed. Email <u>SolarProgram@xcelenergy.com</u> to find out

CT Cabinet Needed

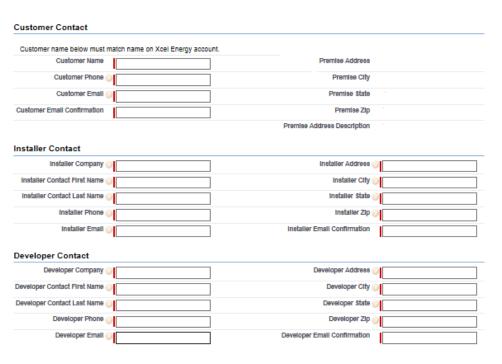
"How do I submit a new solar application that needs a CT (Current Transformer) Cabinet?

 Single-phase and three-phase services where the total connected load is in excess of, or anticipated to be in excess of, 320 amps shall use instrument transformer (CT) metering.

PV System Details Estimated Project Cost ≤ 10' between production & service mtrs? Generator System Inverter Phase --None- Service Voltage --None- --None- CT Cabinet Needed Pre-Existing Generator Interested in SPVTOU

- Check "CT Cabinet Needed" checkbox in the System Details tab
- Installer will be notified to coordinate with a Metering Engineer for CT delivery on-site prior to the solar meters being installed

Step 3: Contacts



- Customer Contact must match the customer listed on Xcel Energy account (as shown on the customer's bill)
- Installer Contact lists the system installer company
- Developer Contact can be the same or different as the Installer Contact
- Important to verify email addresses before continuing as all system generated emails and documents are sent throughout the process

Step 4: System Details

- Populate all required fields, then click "Save"
- Select correct array type from drop-down menu
 - Fixed describes a ground mount
 - Fixed-Roof Mounted represents rooftop installation
- Add arrays/inverter hardware

of Panels 2 | 12 | Fixed | Array Type 2 | Fixed | Fixed-Roof Mounted | Array Capacity (kW) | 1-Axis Tracking | 1-Axis Backtracking | 2-Axis Tracking | 2-A

Array(s) and Inverter(s)

"I can't find the array and inverter I want to use when I try to enter my system details. Can I still use them?"

We accept all UL certified equipment

Customer Assets

Add Array Add Inverter									
Action	Asset #	Туре	Hardware	# of Panels	Array Capacity (kW)	Array PV Watts	# of Inverters	Power Rating (kW)	
Edit Del	CA-0120711	Array	SunPower - SER-235P	20	4.700	6,678			
Edit Del	CA-0120712	Array	Suntech Power - PLUTO240-Wde	11	2.640	3,751			
Edit Del	CA-0120716	Inverter	SolarEdge Technologies - SE 10000A-US (240V)				1	10.0100	

 Equipment not listed in Application Portal? Send a screenshot from http://www.gosolarcalifornia.ca.gov/ to SolarProgram@xcelenergy.com like the one below. We will add the equipment in the order the email is received

Manufacturer Name	Inverter Model number	Description	Power Rating (Watts)	Weighted Efficiency	Approved Built-in Meter	Notes
ABB	MICRO-0.25-I-OUTD-US-208	250W Utility Interactive Inverter	250	96	Yes	NA

^{*}Work with Go Solar California to add equipment to their site if it is not yet listed before we can add it to our site

Power Factor Requirement

- Requirement is based on section 3.3 of the 2-1-17 revised
 Interconnection Guidelines
- Requires systems have the ability to operate between -0.90 and +0.90
- This PF requirement is part of achieving higher hosting capacities and reducing voltage flicker
- Operating Requirement: Exhibit D language in the Interconnection Agreement

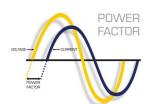
The Generation Facility shall operate at a specified fixed Power Factor:

The specified Power Factor as a condition of interconnection: 98%; Absorbing VARs

This Power Factor is specified at the: Point of Common Coupling

The power factor may be changed from time to time by mutual agreement. A temporary power factor may be specified by Public Service Company of Colorado d/b/a Xcel Energy as a condition of operation in lieu of disconnecting when the distribution system is in a contingency configuration.

The system owner is responsible to operate and maintain all equipment per manufacturer specifications and guidelines.



Power Factor Requirement Cont...

- Applications over 25kW may require a Level II engineering review
- Solar Installer should provide upfront notification (before starting applications) to Nmsolarprogram@xcelenergy.com if a new housing development includes more than 10 homes or 100 kW on a distribution feeder

SAFETY, INTERFERENCE AND INTERCONNECTION GUIDELINES FOR COGENERATORS, SMALL POWER PRODUCERS AND CUSTOMER-OWNED GENERATION (Section 3.3)

www.xcelenergy.com/staticfiles/xe/Regulatory/Transmission/CO-DG-Tech-Manual.pdf

120% Rule Requirement

 State Statue: PV systems can be sized to produce up to 120% of the customer's average annual electric usage. This is a state statue set forth by the State of New Mexico - all participants are required to adhere to the statute.

• SPSU

Solar System: A distributed generation solar system that is customer-sited and that is limited to a minimum of 500 watts DC up to a maximum electric service entrance capacity of 10 kW DC. The Solar System rated capacity cannot exceed the customer's service entrance capacity nor the Company's distribution capacity that serves the customer. The Solar System capacity rating shall be based on the DC nameplate output of the Solar System and the Solar System shall be sized to supply no more than one hundred twenty percent (120%) of the average annual consumption on the customer's site, which includes all contiguous property owned or leased by the customer. All Solar Systems shall be located entirely within the customer's contiguous property. The Solar System will comply with all interconnection standards and safety provisions set forth in the Company's rules and regulations, the New Mexico Public Regulation Commission, and an Interconnection Agreement between the Company and the Customer must be signed. The Solar System shall be owned, operated and maintained by the customer, as set forth specifically in this tariff.

120% Rule Requirement Cont...

"The application says I am failing the 120% Rule. What do I do?"

- You will receive a system generated email notification about the failure
- Check the "Application Notes" on the Application Summary tab for any notes left by the Solar Team
- All <u>new construction</u> applications will initially fail since additional documentation must be evaluated to bypass the rule
- All <u>existing structures/remodels</u> will be evaluated based on 120% of the customer's annual electric usage history as long as they have 4+ months of usage
 - If they do not have 4+ months of usage, the application will be evaluated based on livable square footage of the home



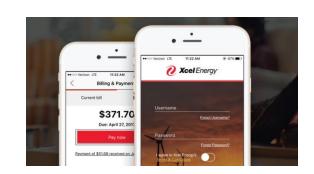
Obtaining Customer Usage Data

"How can I obtain my customers' usage data to evaluate system size?"

Usage is private customer information, we cannot provide the usage numbers without the customer's consent. Three ways to obtain the information are:

Customer signs data consent form
 CONSENT TO DISCLOSE UTILITY CUSTOMER DATA
 co

- 2. In Customers' Xcel Energy MyAccount portal: Pull up usage data and send it to Installer
- 3. Set Up a Delegate in MyAccount download guide from Solar Developer Resources webpage under Forms
 How to Set Up a Delegate in MyAccount PDF



Proof of Square Footage

"When do I need to upload Proof of Square Footage?"

 Proof of Square Footage is required for all premises with less than 4 months of electric usage history for the current customer



- New Construction/Remodel
 - Proof of square footage must be from the County Assessor Office or builder's blueprints (Redfin.com, Realtor.com, Zillow etc. will not be accepted)
 - Can only include conditioned/heated/finished areas
- Must show the address where PV system is going to be installed
- A Energy Load Analysis is acceptable for additions or large remodels over 4,000 sf with a System PV Watts estimation grater than 14,946 kWh

Energy Model / Load Analysis

"When do I need to submit an energy model/load analysis?"

- For new construction projects over 4,000 sf with a System PV Watts estimation greater or equal to 14,946 kWh will require an energy load analysis stamped by a Professional Engineer (PE)
 - Must show a monthly or annual snapshot of the total estimated kWh usage (kWh cannot be converted Btu)
 - Must list the premise address for the PV installation



Step 5: Documents & Payments

• All applications are required to pay a study fee for the Engineers review of the application.

• Fees:

- \$50 for systems <= 10kW</p>
- \$100 for systems >10kW and <=100kW</p>
- \$100+\$1 per kW >100kW

Pay Fee Online



Payment via Mail

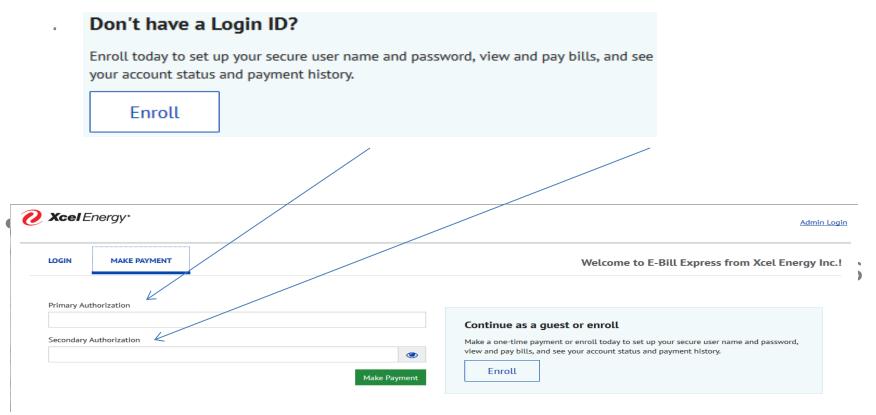
Pay by Check (~7-days): send Application Deposit/Study
 Fee Form and check to: Xcel Energy DG, PO Box 59,
 Minneapolis, MN 55440-0059

 Please be sure to send the study fee form with the check.

Online Payment – Login/Enroll

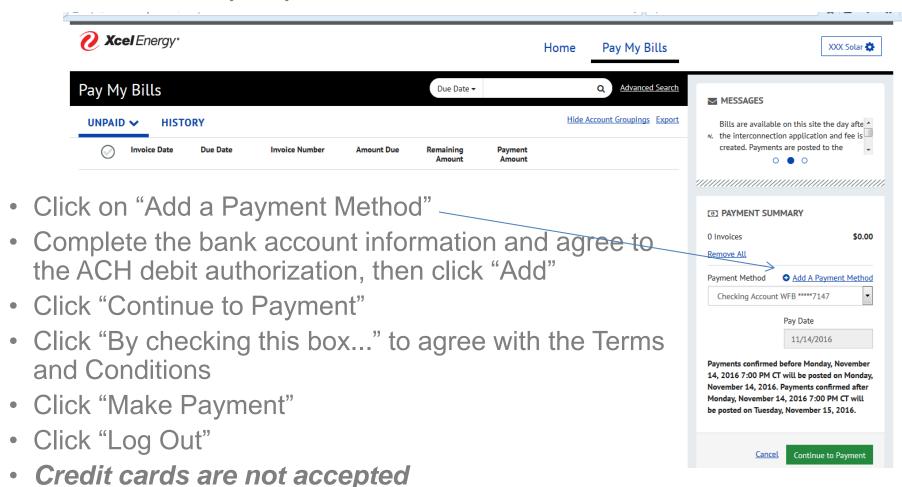
• Click Pay Fee Online

Login or enroll



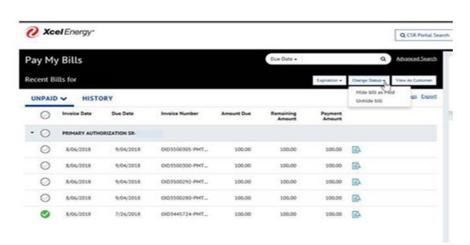
Online Payment – Login/Enroll Cont...

Enter the "Pay My Bills" section of the site



Online Payment – Pay My Bills

- Select all the invoices you want to pay on the "Pay My Bills" screen and pay all at once
- Payment confirmations are sent from Wells Fargo and posted in the solar application OID the next day whenever the payment was made after 7pm CST



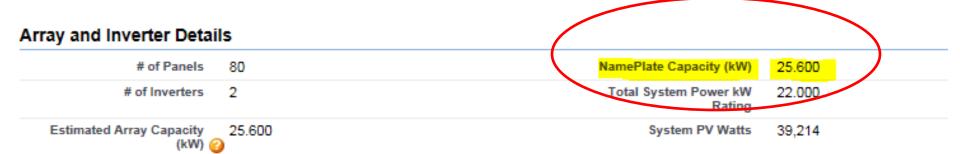
Need Help?
 Contact Wells Fargo
 E-Bill Express Support
 EBillExpress@wellsfargo.com

or

1-877-562-3840

Step 6: Engineering Review

Next Action- App Owner: Address Program Review requested adjustment(s) and select "Submit for Approval"



- Application to this point must be reflective of the end product, changes are prohibited during engineering review
 - Changes desired after engineering approval will require an exception and second study fee or new application to be created
 - Engineers have 10-business days to review applications once submitted

**We highly recommend that systems are installed <u>after</u> engineering approval to ensure the system complies with interconnection standards and system upgrades are not needed.

Engineering Review Cont...

Approval History						
Action	Date	Status	Assigned To	Actual Approver	Comments	Overall Status
Step: Engineering Review (Pending for unanimous approval)						Pending
	4/7/2017 4:00 PM	Pending	Tom Malone	Tom Malone		
	4/7/2017 4:01 PM	Approved	<u>Lisane</u> <u>Dinssa</u>	Elizabeth Klinger		
Approval Request Submitted						
	4/7/2017 4:00 PM	Submitted	test user 1	test user 1		
Step: Engineering Review						Rejected
	4/7/2017 3:57 PM	Rejected	<u>Lisane</u> <u>Dinssa</u>	Elizabeth Klinger		
Step: Verify Solar*Rewards Opportunity						O Approved
	4/7/2017 3:50 PM	Approved	CO SR Admin	Elizabeth Klinger		
Show 1 more » Go to list (6) »						

- If approved by Engineering, application will move on to Final Documentation
- If a rejection occurs, installer will receive an email with further instructions
- For 10 kW and over reviews, wait until both engineers reply to re-submit for approval (if applicable)

Site Plan, Line Diagram

Solar*Rewards® Application

Documents & Payments

Application #: OID2826306

Next Action- App Owner: Complete download/upload documents and payment requirements. Select "Save and Continue" for Program Review.

				Return Home
Select document you want to u	upload:	Select document file:	Upload file:	
(document type to uploa	ad)	Browse	Upload Document	
Payments				
The fields below will display th	e date a payment was rece	ived. If no date is displayed, we have	not yet received the associated payment.	
Total Amount Due	\$0.00			
Total Amount Paid	\$100.00			
Study Fee Received Date	12/16/2015 1:00 AM	[4/5/2017 3:43 PM]		

- Upload a <u>Site Plan</u> and <u>Line Diagram</u>
- Upload <u>SGIA</u> (if applicable)
- Tenant Release Form (if applicable)

Systems 10 kW and over

"What additional documentation should I submit for systems 10 kW and larger?"

- All systems 10 kW and over require a \$100 Study Fee
 - If the aggregate kW of an Existing PV and new application for PV and/or battery at the same premise is 10 kW or over will require \$100 Study Fee
- All systems 10 kW and over require a <u>Small Generation Interconnection</u> <u>Agreement Form (SGIA)</u> download from Solar Developer webpage
- Review performed by Xcel Energy metering and area engineers
- PE stamped Energy Model/Load Analysis (if applicable)
- CT cabinet checkbox (if applicable)



Metering Requirements

- Metering requirements are listed in the <u>DG Interconnection Guidelines</u> starting on page 27
- Required Disconnect Labeling is shown on page 46
- Brass tags are a solar installers responsibility to install. If there is an apartment number or it is a 2nd PV meter, it has to be noted on the tag. Tags can be brass, aluminum or stainless steel and MUST BE permanently attached to the meter socket



MAIN SERVICE METER LOCATED 60' ON WEST SIDE OF HOME PV PRODUCTION METER LOCATED 60' EAST ON DETACHED GARAGE

 The production meter shall be located within ten (10) feet of the existing billing meter. If this cannot be accomplished, additional labeling at each meter directing personnel to the other meter location is required.
 Production meter locations will be addressed during the engineering review; exception requests are not necessary. Approval from the local Electric Meter Shop may also be required.

Step 7: Final Information

Documents for Download			
NABCEP Form			
Final Application Details			
Final Invoice Amount 0 12,247.00		Restricted Access to	Meter Area?
Inspection Date 🕢 2/7/2017	9/28/2017]	PV/DG Installation	Date 0 2/7/2017 [9/28/2017]
Documents to Upload			
Please upload the documents listed below. Select t Upload: X Document Uploaded: 2	he name of the document to upload, se	lect the document file	by clicking "Choose File", and click "Upload". Waiting for
Proof of Insurance 2 02/04/2017	Final Electrical Inspection 🤡	02/09/2017	NABCEP Form 2 02/09/2017
Select document you want to upload:	Select document file:		Upload file:
Proof of Insurance		Browse	Upload Document

- Final Application Details must be populated and saved <u>before</u> final documents can be uploaded
- Upload Proof of Insurance, Final Electric Inspection, NABCEP form

Final Electrical Inspection

"What does the Final Electrical Inspection need to include?"

- The premise address
- The name of the inspection agency (ex. City of Denver)
- The type of inspection (Final Electrical)
- The outcome of the inspection (Pass/Fail)
- The date of the inspection

The inspector's name and signature (electronic signature or initials are

accepted)



Final Information Cont...

 Click "Retrieve Documents" button once the final information and documents have been uploaded

Documents to Sign

Click "Retrieve Documents" below to populate and send the final documents requiring your signature. Documents will be sent to the various signer email addresses defined on the contacts tab.

Retrieve Documents

- Once "Retrieve Documents" has been selected, no changes can be made to the application
 - Please be sure the owner's name is listed on the agreement if tenant is present

Final Information Cont...

Documents are fully signed when green checkmark shows next to the document

Documents to Sign

Status	Name		Date Signed	Signed Link
Signed	2017_Small.Medium_CustomerOwned_InterconAgreement	~	9/13/2017 7:10 AM	https://www.sertifi.com/xcelenerqy/passthrough
Signed	DG Reservation Letter	~	9/13/2017 7:10 AM	https://www.sertifi.com/xcelenergy/passthrough

Non-Solar*Rewards (DG) applications have 2 documents to sign electronically

Excess generation: How the Solar Bank is allocated

- Excess generation from the net metered PV system:
 - Less than \$50 will accumulate and rollover month to month until the net accumulated sums to \$50 or more.
 - Greater than \$50 or more the customer will receive a check at the end of the billing period.
- The kWh's of excess generation area cashed out at the avoided fuel cost ~2.5 cents/kWh.

Step 8: Meter Installation Restricted Meter Access

"If the customer has restricted access to the meters, what do I do?"

- Check "Restricted Access to Meter Area" checkbox
- Add an Application Note on the Application Summary tab detailing the restricted access (dogs, locked gate etc.)
- Didn't check the box? Email
 NMSolarprogram@xcelenergy.com if an appointment for meter installation needs to be made



Final Application Details Final Invoice Amount ② 12,201.75 Restricted Access to Meter ② Area? Inspection Date ② 3/5/2015 [3/26/2015] PV Installation Date ② 2/2/2015 [3/26/2015]

Meter Order

"How do I know when the meters are ordered?

 The Production Meter Order Date on the Application Summary tab will populate when meters are ordered

Production Meter Order Date 9/21/2017 6:00 PM Production Meter Install Date Production Meter Number Number

 Once meters are installed, the Production and Net Meter Install Dates and Numbers will populate in Meter Order Details

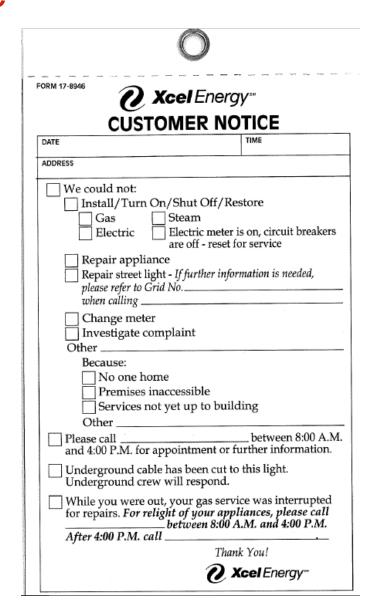
Meter Order Details Production Meter Order Date 9/20/2017 6:00 PM Production Meter Install Date 9/25/2017 Production Meter Number 000082272703 Net Meter Number 000082830505

 The general service meter will be replaced with a Net Meter, and a PV Production Meter will be added for any new solar interconnection

Meter Installation Timeframe

- Please allow 20- business days from the meter order date for the PV Production and Net Meters to be installed
- For any corrections or access issues, the meter technician will leave a notice at the premise
- You must call the number listed on the notice to reschedule a meter technician to come back out to install the meters
- Please do not contact the solar team to reschedule a meter install

>Customer Notice left when meter technician could not access the meter location



Meter Installation Timeframe Cont...

 Customer Notice left by meter technician when corrections are needed before meters can be installed

Address		Date
☐ We were UNA	BLE to provide metered electric service	*BECAUSE: Our Company Our Electrician
-		By
*Please telepho		By ections have been made for additional information.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onewhen corre	ections have been made for additional information. DATE OF ISSUE, SERVICE WILL BE DISCONNECTE
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onewhen corre	ections have been made for additional information. DATE OF ISSUE, SERVICE WILL BE DISCONNECTED.
**IF NOT CORF	newhen corrected with the Land of th	ections have been made for additional information. DATE OF ISSUE, SERVICE WILL BE DISCONNECTED.

Permission to Operate

"How do I know when my Installer can energize my solar system?

Solar*Rewards

Greetings,

We wanted to let you know that the net and production meters have been installed at the premise for application <u>{!</u> Opportunity.Integration Opportunity ID c}.

{!Opportunity.Premise_Address__c}, {!Opportunity.Premise_City__c}, {!Opportunity.Premise_Zip__c}

At this time, you may energize the system. The customer has also been informed of the meter installation via email. This email acts as the official permission to operate.

Thank you, Xcel Energy

* System generated email, please do not respond

been installed, a door hanger will be provided and Permission to Operate (PTO) email will be sent to the customer after meters have been installed

Multi-Tenant Solar Metering

Building Ownership

- For situations where a building is owned/controlled by a single owner, the owner has the ability to dictate where the solar can be sited at or on their facility without regard to individually metered tenant spaces.
- This assumes that their solar installation proposal is accepted by the authority having jurisdiction (AHJ) who regulates the construction process for both the local jurisdiction building/electrical codes as well as the applicable fire code.
- Every situation will be subject to Xcel Energy provisions as they relate to participation in Solar*Rewards programs, Colorado Code of Regulations, and tariffs.

Multi-Tenant Solar Metering Cont...

If more than 10 individual systems or 100kW in aggregate is applied for:

- Give notice to XE Solar Team that multiple applications will be in close proximity to one another (<u>SolarRewards@xcelenergy.com</u>)
- Additional study fee may be required (may be looked at in aggregate)
- Increased likelihood that system upgrades could be required

Examples of this situation could include planned residential solar developments, multifamily apartment complex, shopping center or mall, small commercial building with tenants, or one owner with multiple buildings.

Assignment of Contract (AOC)

"I'm moving. What do I need to do with my solar agreements?"

- For Solar*Rewards systems: If you sell your home after the application process is complete, you may transfer the Contracts/Agreements to the new owner with an Assignment of Contract. The owner would assume responsibility for the terms of the contract
- For Non-Solar*Rewards (DG) systems: The new homeowner needs to sign a new Interconnection Agreement with Xcel Energy to receive the benefits of the net-metered rate
- View the <u>Assignment of Contract</u> webpage for the detailed process



System Removals

- In the event that a system needs to be removed or relocated, please notify us by emailing nmsolarprogram@xcelenergy.com
- The Net and PV Production meters will be removed from the premise and the general service meter replaced
- If a system is going to be offline for more than 90 days, notify SolarProgram in writing so that the system does not automatically get flagged for non-production and have a meter removal order logged

^{*}please never remove the NET or PV production meters as they are Xcel Energy property



System Replacement

- In the event that a PV system needs to be replaced, the following steps must be taken:
- Notify <u>NMsolarprogram@xcelenergy.com</u> with the following information: New site plan and line diagram for the replacement system showing the exact or close to the same NamePlate kW DC system size as the original installation. Show what equipment is new and what is not new on the designs.
- 2. Solar Team sends the replacement system designs to an engineer to confirm it is a 1 for 1 match to the original system (10% threshold on system size permitted)
- 3. System replacements must still pass the 120% rule check based on current usage (solar production + net consumption = usage)
- 4. Once approved, Installer sends Solar Team the final electrical inspection and owner proof of insurance after system has been installed
- 5. Solar Team will upload approved designs to original solar application and order new meters, if needed.
- 6. There are no review fees unless a new application is created

DG Manual Updates 2.1.2017

 The DG Manual has been updated to include changes and clarifications as interconnection review practices have evolved

https://www.xcelenergy.com/staticfiles/xe/Regulatory/Transmission/CO-DG-Tech-Manual.pdf

Revised Installation Standards



- The <u>Xcel Energy Standard for Electric Installation and Use</u> was revised on 8/15/17
 - Please make sure that all documents submitted include the correct revision date and section numbers
- <u>Exception Form</u> for requesting exceptions to the "Xcel Energy Standard For Electric Installation and Use"

Stagnant Applications

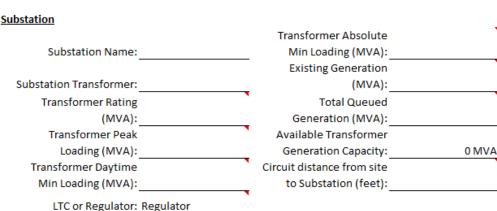
- Only for Non-Solar*Rewards (DG) applications, please submit the study fee within 60 days of creating an application
- If no action or progress has been taken on an application in 90 days, an email communication or application note will be sent prior to cancelling the application

 Be sure to cancel any applications that were entered incorrectly before creating a new one

Pre-Application Data Requests

- If you want to check on reliability issues of distributed generation (DG) installations you can complete a <u>Pre-Application Data Request</u>. Steps are as follows:
 - Sign NDA prior to receiving <u>Pre-Application Data Report</u>
 - Provide map of anticipated Point of Interconnection
 - \$300 payment per Interconnection Address (wire or check)
- Xcel Energy will provide a Pre-Application Data Report of the findings within 15 business days of the receipt of the completed request form and payment of all fees

*see Pre-Application Data Request form for all general details



Additional Resources

On-Site Solar Frequently Asked Questions

Study Fee Form (PDF)

Application Process for Customers

Solar*Rewards Community Developer Resources

Thank You!



Thank you for reading the 2019 Solar Installer Training

Still have questions? We are here to help!

Email: NMSolarprogram@xcelenergy.com

Solar Hotline: 303.571.7652 (9am-3pm M-F)

