

PUBLIC SERVICE COMPANY OF NEW MEXICO LARGE SOLAR

APPLICATION FOR SOLAR QUALIFYING FACILITIES ("QF") FOR INTERCONNECTION USING CERTIFIED INVERTER BASED GENERATING FACILITIES WITH A RATED CAPACITY GREATER THAN 10 kW_{AC} AND LESS THAN OR EQUAL TO 1 MW_{AC} THAT COMPLY WITH NMPRC RULE 568 AND APPLICATION FOR THE SALE OF LARGE SOLAR RENEWABLE ENERGY CERTIFICATES ("RECS") FROM SOLAR FACILITIES GREATER THAN 10 kW_{AC} AND LESS THAN OR EQUAL TO 1 MW_{AC}

For purposes of this application "Solar Facility" is defined as a system generating electricity using solar photovoltaic or solar thermal technologies. The person(s) or entity (entities) submitting this application may be referred to as "Applicant." For Third-Party Owner Solar Facilities, This application must be signed by both Customer and Third-Party Owner.

APPLICATION TYPE

- Both Interconnection and Large Solar REC Sales –**
- Systems > 10 kW_{AC} and less than or equal to 100 kW_{AC}: \$450.00**
 - Systems > 100 kW_{AC} up to and including 1 MW_{AC}: \$450.00 plus \$1.00 for each kW_{AC} above 100 kW_{AC}**
 - Large Solar REC Sales Only (for Solar Facilities already interconnected) - \$350.00**

CUSTOMER(S)	
PRIMARY AND SECONDARY NAME ON ELECTRIC ACCOUNT:*	
Santa Fe County	
SYSTEM OWNER NAME (If different from name listed above.)	
ELECTRIC SERVICE ACCOUNT NUMBER:	
New Construction - Service installation expected March 2012	
ELECTRIC SERVICE ADDRESS (STREET, CITY, STATE, ZIP CODE):	
327 Sandoval Street Santa Fe, NM 87501	
PHONE (DAYTIME):	PHONE (EVENING):
(505) 995-2718	(505) 660-8210
EMAIL:	FAX:
eaaboe@santafecounty.org	(505) 992-3028

* If you do not have this information please contact Customer Service at 1-888-DIAL-PNM.

MAILING ADDRESS (STREET, CITY, STATE, ZIP CODE) (If different from Electric Service Address listed above.)
PO Box 276 Santa Fe, NM 87504

CONTRACTOR/ELECTRICIAN	
CONTACT PERSON NAME	
Dan Lyons	
NAME OF FIRM	
Bradbury Stamm Construction - General Contractor (Solar Contractor TBD)	
ADDRESS (STREET, CITY, STATE, ZIP CODE):	
7110 2nd Street NW Albuquerque, NM 87107	
PHONE (DAYTIME):	PHONE (EVENING):
(505) 998-9918	()
EMAIL:	PHONE (CELLULAR):
dlyons@bradburystamm.com	(505) 681-4312

THIRD-PARTY OWNER OF SOLAR FACILITY
(If Applicable)

CONTACT PERSON NAME:	
NAME OF FIRM:	
ADDRESS (STREET, CITY, STATE, ZIP CODE):	
PHONE (DAYTIME): ()	PHONE (EVENING): ()
EMAIL:	FAX: ()

SYSTEM INFORMATION

INVERTER MANUFACTURER: PV Powered	MODEL NUMBER: PVP-100K-480V
IS THE EQUIPMENT UL 1741 LISTED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, ATTACH MANUFACTURER'S SPEC-SHEET SHOWING UL 1741 LISTING	
INVERTER RATED CAPACITY: <u>100</u> (kW _{AC})	
TOTAL INVERTER CAPACITY (For Micro Inverter Systems) : _____ (kW _{AC})	
SINGLE PHASE <input type="checkbox"/> THREE PHASE <input checked="" type="checkbox"/>	
SOLAR SYSTEM TYPE: SOLAR PV <input checked="" type="checkbox"/> SOLAR THERMAL ELECTRIC <input type="checkbox"/>	

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

EQUIPMENT TYPE	CERTIFYING ENTITY
1. Inverter	ETL
2.	
3.	
4.	
5.	

TERMS OF APPLICATION

To be considered complete, this application must include the following:

- Application Form** - Each section of this application must be completed, and the application must be signed and dated by the Applicant.
- Application Fee** - Attach a check made payable to Public Service Company of New Mexico ("PNM") at the time this application is submitted. Applications without the correct application fee will not be considered or reviewed. If Applicant decides not to proceed with the installation of the Large Solar Facility, Applicant will receive a refund of \$120, which represents the cost of the REC meter included in the application fee. For Third-Party Owner Solar Facilities, the Application Fee shall be paid by the Third-Party Owner.
- One-Line and Three-Line Electric Diagram** - A one-line and three-line electrical diagram of the Solar Facility and its interconnection to the utility system showing the electrical components, protective devices, manufacturer model numbers and electrical ratings. List any backup generator systems on the premises. The one-line and three-line electrical diagram for renewable energy systems must include:
 - Renewable generator (e.g. photovoltaic panels or solar thermal electric generator),
 - Batteries,
 - Inverters,

- Fuses,
- Circuit breakers,
- PNM required disconnect switches,
- PNM meters, including REC meter and billing meter, and voltages,
- PNM transformers, etc.

The manufacturer, model number and electrical rating for the renewable generator and inverter must be shown on the one-line and three-line diagram. The one-line and the three-line diagram must be stamped by a professional engineer licensed to practice in the state of New Mexico if the generating facility is larger than 50 kW.

- Site-Map** - A site map showing the location of equipment listed in the one-line diagram, customer name and address, street designator and compass rose. For Third-Party Owner Solar Facilities, the Site Map must include the name and contact number for the Third-Party Owner.
- Customer Bill** - For account information verification, existing account(s) to be interconnected must include a copy of all pages of a recent PNM bill.
- Specification ("Spec")-Sheet** - The inverter specification sheet.
- Third-Party Owner Size Specification** - For Third-Party Owner Solar Facilities, information demonstrating that the Solar Facility is not sized greater than one hundred twenty (120%) of the average annual consumption of Customer at the location of the Solar Facility.

APPLICATION REVIEW AND APPROVAL PROCESS

IT IS STRONGLY RECOMMENDED THAT THE APPLICANT OBTAIN PNM'S APPROVAL OF THE FINAL DESIGN AND ELIGIBILITY TO PARTICIPATE IN THE APPLICABLE REC PROGRAM BASED UPON THE ABOVE REFERENCED INFORMATION PRIOR TO PURCHASING EQUIPMENT OR STARTING CONSTRUCTION.

1. PNM will not review or approve interim plans or incomplete applications. 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 PNM.
2. Applicant agrees to supply further information as PNM may reasonably require and understands and agrees that the application may be suspended while PNM is awaiting such information. All other supplemental information is made a part of this application.
3. PNM will provide Applicant a Notice of Completion of Application and REC Reservation within 10 business days of receipt of this application. The notice will advise Applicant whether the application is complete or incomplete. If PNM determines that the application is complete, the notice will state the price at which PNM will purchase RECs generated by the Solar Facility described in this Application. Payments will be made, pursuant to the terms and conditions of PNM Rate Number 32 and the Large Solar REC Purchase Agreement between Applicant and PNM. The REC Purchase Agreement will have a term of 20 years from the interconnection date stated therein.
4. Within 15 days of PNM's determination that the Application is complete, PNM will conduct a technical screening of the Solar Facility project to determine the impact of the proposed interconnection. When technical screening is complete, PNM will provide Applicant and Contractor, if any, a Notice of Completion of Technical Screening. The notice will advise whether the Solar Facility has passed screening. If the Solar Facility passes the technical screening, the notice will include the date passed ("Screening Passed Date"). If the Solar Facility does not pass technical screening, the notice will include next steps for the Solar Facility project consistent with procedures set forth in NMPRC Rule 568.
5. **Project completion is defined as interconnection of the Solar Facility as authorized by PNM on Appendix E to the Applicant's Interconnection Agreement with PNM.**
6. Applicant understands that the construction of the Solar Facility must be completed within 12 months from the Screening Passed Date. Failure to complete the Solar Facility within the 12 month period will re-set the REC purchase price to the rate that is available upon project completion.
7. Installation, at any time, of additional capacity above the originally proposed capacity could subject the REC purchases to a new, lower REC purchase price.

No information in this application will be considered confidential unless a written agreement is made with PNM prior to the submission of the application. In no event will information on the application which is required by the New Mexico Public Regulation Commission ("NMPRC" or "Commission") be withheld from the NMPRC.

Acceptance of this application or any future actions by PNM are not and shall not be construed to be an endorsement or warranty of the Solar Facility, its equipment, operation, safety, or reliability.

The completed application form with the above requested attachments does not constitute authorization for interconnection or parallel operation. Prior to authorizing parallel operation of the interconnection facility, PNM may observe and participate in the inspection of the interconnection facilities.

A permanent and weather proof one-line diagram and, when required, a permanent weather proof map of the Solar Facility must be installed at the point of service connection to PNM.

Resulting interconnections will be metered and billed in accordance with NMPRC Rule 570.

FOR LARGE SOLAR REC SALES ONLY: PNM shall have no obligation to purchase RECs until PNM and Applicant have entered into a separate definitive written agreement to purchase the RECs.

Applicant understands and agrees to abide by the requirements of NMPRC Rule 568 and to use a certified inverter at the point of interconnection with PNM.

Applicant shall not begin interconnected operations until the execution of the interconnection agreement set forth in the New Mexico Interconnection Manual, Exhibit 3B, which is available to view at <http://www.pnm.com/customers/pv/program.htm>.

The Applicant shall install, operate, and maintain the Solar Facility and the interconnection equipment in a safe manner in accordance with the rules for safety and reliability set forth in the latest editions of the *National Electric Code*, other applicable local, state, and federal electrical codes, and prudent electrical practices.

Applicant can visit PNM's website for updated information as to the current rates being offered under Rate Number 32. Information available will include capacity of completed applications. PNM will update this website on a weekly basis.

APPLICANT(S) SIGNATURE

I hereby certify that, to the best of my knowledge and belief, all the information provided in this Interconnection Application is true and correct. I also agree to install a warning label provided by PNM on or near my service meter location. I understand that the Solar Facility must be compliant with IEEE, NEC, ANSI, and UL standards, where applicable. By signing below, I am certifying that the installed solar facility meets the appropriate preceding requirement(s) and that I can supply documentation that confirms compliance.

CUSTOMER

Signed: Katherine Miller
Title: Santa Fe Co Manager
Date: 12-18-11

THIRD-PARTY OWNER (if applicable)

Signed: _____
Title: _____
Date: _____

Signed: _____
Title: _____
Date: _____

Approved as to form
Santa Fe County Attorney
By: [Signature]
Date: December 9, 2011
[Signature]

ΔE ADVANCED ENERGY

• PV Powered • solAron • siteGuard

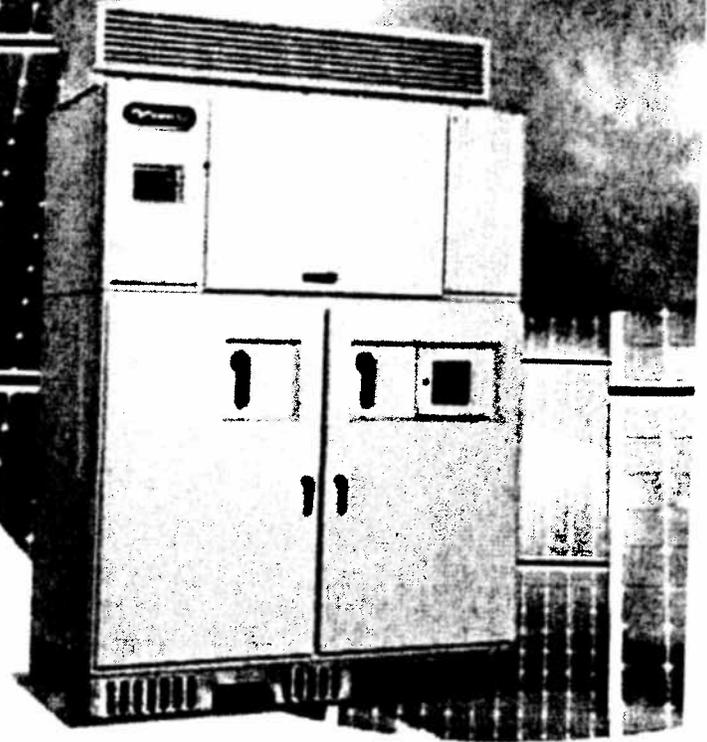
PVP75kW and PVPI100kW

The industry standard for reliability and ease of installation

The PV Powered 75kW and 100kW inverters set the industry standard for high reliability, ease of installation, and lifetime maintainability. Their 20-plus year design-life is enabled by an array of market-leading reliability features including bus bars for all power connections, a sealed electronics module, and an instrumented cooling system resulting in a track record of 99+% uptime. With a best-in-class efficiency of 96%, the highly integrated system is designed to save installers time and money with load break rated AC & DC service disconnects, certification for installation without a neutral conductor, and exterior mounting flanges for fast and easy anchoring with no pre-drilling. The wide 295-600V MPPT voltage window provides exceptional flexibility and stringing capability with all PV modules including thin film.

New features include remote disable inputs and an expanded array of monitored subcombiner fusing options. The integrated subcombiner supports up to 9 inputs totaling 675A and fuse sizes ranging from 70A-600A with monitoring options including 5x110A, 5x125A, 6x100A, and 6x110A. A 24V auxiliary power supply, revenue grade meter, and performance monitoring gateway can be added for a completely integrated inverter solution.

Advanced Energy backs all of its commercial inverters with an industry-leading 10-year nationwide warranty and a comprehensive optional 20-year warranty; plus the best service and support team in the business.



Superior Reliability

- Engineered power connections eliminate failure points
- Advanced, high-reliability circuit board system
- Redundant cooling system with Smart Air Management™
- Redundant industrial grade power supply for long-life and high quality control power

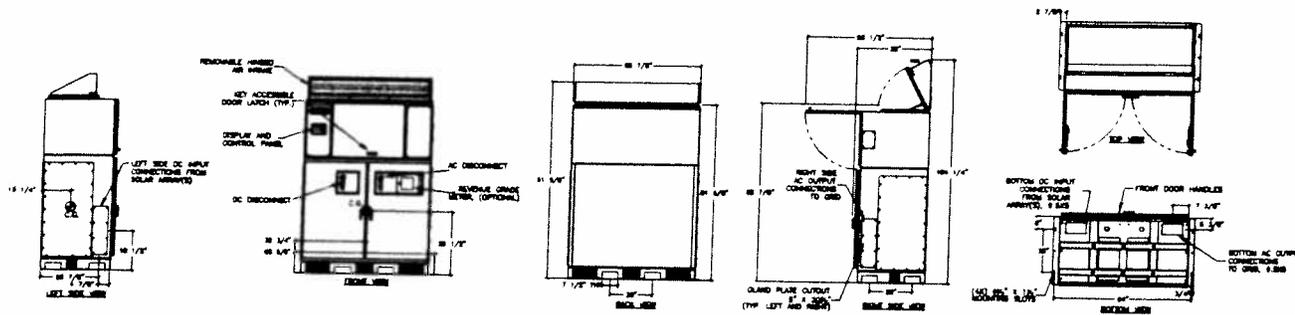
Exceptional Installability & Maintainability

- Bottom, and side cable entry
- Generous cable bending area
- Complete range of fused DC sub-combiner options
- Exterior mounting flange for fast and easy anchoring
- Error-free AC auto-phasing

Easy to Maintain

- All maintenance and service via front and side access
- Load break rated AC and DC service disconnects
- Positive-locking, tool-free circuit board cage
- Optional preventative maintenance program and extended warranty





Electrical Specifications

	Model PVP75kW	Model PVP100kW
Continuous Output Power	75kW	100kW
Weighted CEC Efficiency		
208	95.5%	95.5%
480	95.5%	96%
600	95.5 (est)	95.5% (est)
Maximum DC Input Voltage	600 Voc	600 Voc
DC Peak Power Tracking Range	295-595 V	295-595V
Maximum Operating Input Current	267 A	356A
AC Nominal Voltage	208V Y, 480V Y, 600V Y	208V Y, 480V Y, 600V Y
AC Operating Range		
208	183-228 V	183-228 V
480	423-528 V	423-528 V
600	528-648 V	528-648 V
AC Frequency Range	59.3-60.5 Hz	59.3 - 60.5 Hz
AC Maximum Continuous Current		
208	208 A	278 A
480	91 A	120 A
600	72 A	96 A
Standby Losses	42 W	42 W
Harmonic Distortion	<3% THD	<3% THD
Power Factor	>.99	>.99

Options

- Fused Subcombiner
- Subcombiner monitoring
- Integrated revenue grade meter
- Integrated data monitoring
- 24V auxiliary power supply
- Stainless steel
- 20-year extended warranty

Agency Approvals

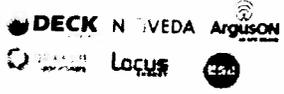
UL 1741, IEEE519, IEEE929, IEEE1547, CSA 107.1-1
 FCC Class A for conducted and radiated

Mechanical Specifications

	Model PVP75kW	Model PVP100kW
Enclosure	NEMA 4	NEMA 4
Construction	Powder Coated Steel Optional Stainless Steel	Powder Coated Steel Optional Stainless Steel
Mounting	Pad Mount	Pad Mount
Weight (lbs)	2750	3000
Cooling	Forced Convection	Forced Convection
Operating Ambient Temperature Range	-30 to 50 °C	-30 to 50 °C
Standby/Storage Ambient Temperature Range	-40 to 60 °C	-40 to 60 °C
Isolation Transformer	Yes	Yes
Noise Emission (typical at full load)	<61dBA at 8ft	<61dBA at 8ft

Performance Monitoring

Increase uptime and reduce maintenance costs with integrated performance monitoring hardware that enables connectivity to a variety of software solutions from industry leading monitoring partners. The tight integration between Advanced Energy and our monitoring partners creates a superior service and support experience while seamlessly delivering meaningful data. Factory integration and testing of our UL listed monitoring solution ensures high reliability and significantly reduces field installation costs.



Specifications are subject to change without notice.

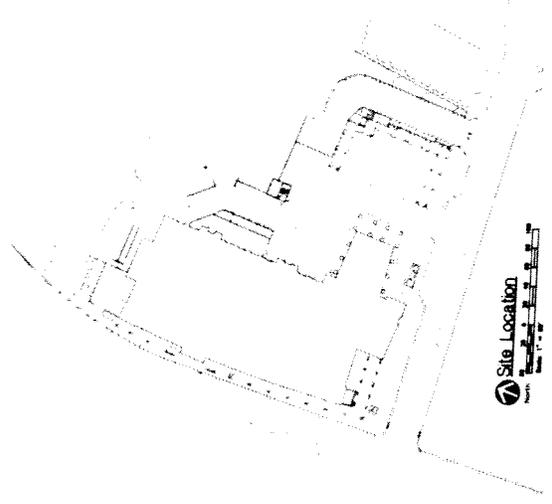


Advanced Energy Industries, Inc. | 20720 Brunson Blvd. PO Box 7348 | Bend, 97708 OR U.S.A
 T: 377 312 3332 | sales.support@aei.com | www.advanced-energy.com | solar-energy
 Please see www.advanced-energy.com for worldwide contact information.

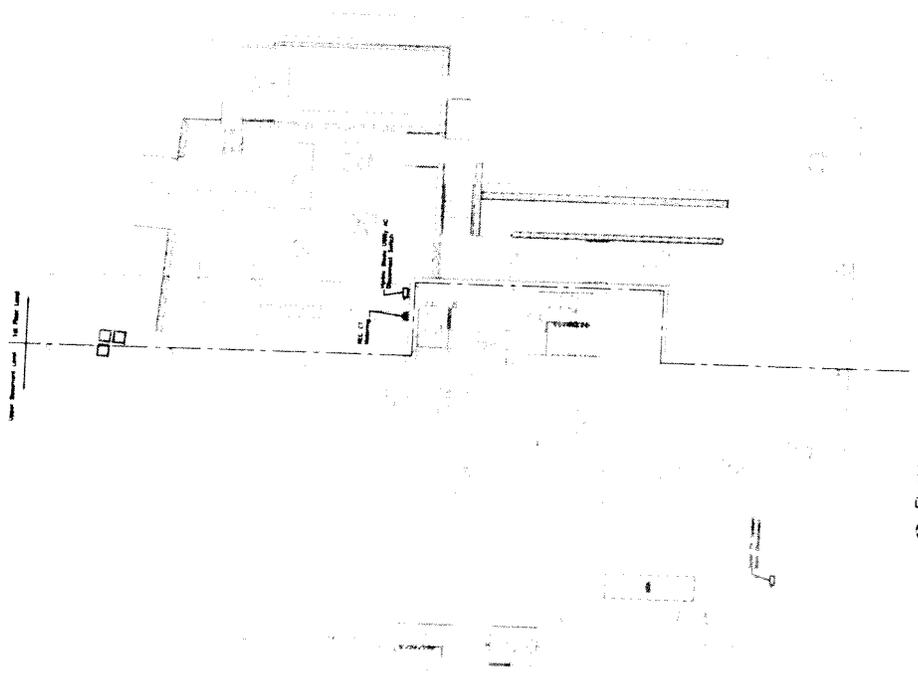
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Project: Heredia Court House Location: San Juan, P.R. Date: 12/20/11	
Client: San Juan, P.R.	
Designer: Electrical	
Title: Site Plan	
Scale: 1/8" = 1'-0"	Date: 12/20/11
Drawn by: PVI	Checked by: PVI



Site Location



Electrical Partial Site Plan