



**STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES**

<p>IN THE MATTER OF THE VERIFIED PETITION OF</p> <p>TRINITY SOLAR INC.</p> <p>FOR APPROVAL OF A WAIVER OF THE ADMINISTRATIVELY DETERMINED INCENTIVE PROGRAM RULES WITH RESPECT TO THE SOLAR FACILITY LOCATED AT 1464 FELA DRIVE, VINELAND, NEW JERSEY 08361</p>	<p>DOCKET NUMBER:</p>
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PETITION

TRINITY SOLAR INC. (“Trinity” or “Trinity Solar”), by and through its undersigned in-house counsel, hereby submits this Verified Petition to the New Jersey Board of Public Utilities (the “Board”) for the following relief:

1. Trinity Solar petitions the Board for a waiver of the Administratively Determined Incentive (“ADI”) Program rules to allow the solar facility installed at 1464 Fela Drive, Vineland, New Jersey 08361 (the “Pitman Property”), under ADI Registration Number NJADRE1549628461 (hereinafter, the “System”), to be fully and completely accepted into the ADI Program.



2. This Petition is being submitted in accordance with the authority contained in the correspondence sent by the New Jersey Clean Energy Program to Trinity Solar on June 12, 2023. **See Exhibit A.**

BACKGROUND FACTS

3. Trinity Solar was established in 1994 as a domestic corporation under the former name “Trinity Heating & Air, Inc. d/b/a Trinity Solar.”
4. Trinity Solar maintains its current principal place of business at 2211 Allenwood Road, Wall, New Jersey 07719.
5. Trinity Solar maintains all required licenses in order to sell, design, and install solar photovoltaic systems in the State of New Jersey.
6. Trinity Solar currently employs approximately 2,900 employees across 10 States.
7. To date, Trinity Solar has installed over 85,000 solar photovoltaic systems in the United States.

THE SYSTEM

8. On or about June 13, 2022, Trinity Solar submitted an ADI Registration Form (on behalf of its customer Allen Pitman) to the Clean Energy Program, with respect to the System at the Pitman Property, in accordance with the New Jersey Clean Energy Successor Solar Incentive Program and the ADI Program. **See Exhibit B.**



9. On or about June 20, 2022, Trinity Solar completed the installation of the System at the Pitman Property.
10. On or about August 17, 2022, Vineland Municipal Electric Utility granted “Permission to Operate” the System at the Pitman Property. **See Exhibit C.**
11. On or about August 23, 2022, the City of Vineland issued a “Certificate of Approval” for the System at the Pitman Property, stating that the installation was completed in accordance with the New Jersey Uniform Construction Code. **See Exhibit D.**
12. On or about August 25, 2022, the System was granted Conditional Acceptance into the ADI Program. **See Exhibit E.**
13. On or about June 12, 2023, New Jersey’s Clean Energy Program advised that the Pitman Property System’s acceptance into the ADI Program would be placed “on hold” because the System was constructed prior to the System being conditionally accepted into the ADI Program. **See Exhibit A.**

RELIEF REQUESTED

14. Trinity Solar respectfully submits that good cause exists to allow the System at the Pitman Property to be accepted into the ADI Program, notwithstanding that the System was constructed prior to being conditionally accepted into the Program.



15. In accordance with N.J.A.C. § 14:1-1.2(b), “[i]n special cases, upon a showing of good cause the [B]oard may relax or permit deviations from the rule.” The applicable rules goes on to explain that “the Board shall, in accordance with the general purpose and intent of the rules, waive section(s) of the rule if full compliance with the rule(s) would adversely affect ratepayers, hinders safe, adequate and proper service, or is in the interest of the general public.” N.J.A.C. § 14:1-1.2(b)(1).

16. At issue here is Trinity Solar’s request for the 5.1 kw (DC) System at the Pitman Property to be accepted into the ADI Program, even though the System was constructed, and received Permission to Operate, prior to the System’s conditional acceptance into the ADI Program.

17. On or about October 12, 2022, the Board considered 43 Petitions seeking a waiver of the Rule prohibiting construction of solar electric systems prior to receipt of ADI Program acceptance. **See** Board Order dated October 12, 2022. The Board found that facilitating the acceptance all 43 systems into the ADI Program would benefit both the petitioners and the solar industry, and granted a waiver, for all 43 petitions, of the prohibition against commencing construction prior to receipt of the ADI program notice of conditional registration. **See id. at p. 13-14.**

18. The Board also found that accepting all 43 systems into the ADI Program would be in the public interest. Specifically, “[t]he public benefits from a smoothly functioning incentive program and from smooth transitions between such programs. In circumstances such as those present here, a smooth transition is furthered by limited waivers of rules that would otherwise have the unintended consequence of stranding solar facilities without an incentive. Moreover . . . the megawatt caps included in the ADI Program did not previously exist and in the past registrations were not denied because of excess capacity installed.” **Id.**

19. On or about April 26, 2023, the Board considered 44 additional Petitions seeking a waiver of the Rule prohibiting construction prior to receipt of ADI Conditional Acceptance. **See** Board Order dated April 26, 2023, Agenda Item 8B. The Board once again granted a waiver, for all 44 petitions, of the prohibition against commencing construction prior to receipt of the ADI program notice of conditional registration. In granting the waiver for those systems, the Board relied upon the same reasoning for granting a waiver for the 43 Petitions at issue in the October 12, 2022 Order. **Compare** October 12, 2022 Order **with** April 26, 2023 Order (at pp. 13-14).

20. Here, good cause exists for the Board to allow the System into the ADI Program because, if a waiver is not granted, it would result in the unintended



consequence of stranding the System at the Pitman Property without an incentive. Furthermore, Trinity Solar applied for conditional acceptance into the ADI Program before commencing construction at the Pitman Property. The System at the Pitman Property was conditionally accepted into the ADI Program approximately 2 months after the System was installed, and a mere 8 days after the System obtained "Permission to Operate" from the electric utility company. The System was installed properly, per the Uniform Construction Code, and a net meter was properly installed (according to the electrical utility company) to allow for solar production.

21. Simply stated, the Board need not worry that this 5.1 kW (DC) System was installed or net-metered incorrectly. To the contrary, this System is ready to be operated.
22. Allowing this 5.1 kW DC system into the ADI Program will have a *de minimis* impact on the 250 MW market capacity. More importantly, allowing the System into the ADI Program would only benefit the residents of the Pitman Property, and the public interest, to allow them to enjoy the incentives that accompany the installation of a solar electric system, which will further Governor Phil Murphy's goal of reducing greenhouse gas emissions by 50% by year 2030.



23. Contrariwise, denying this Petition would adversely affect the Pitman Property by not allowing them the ability to benefit from the incentives offered by the State for utilizing clean energy and reducing greenhouse gas emissions (pursuant to the State's goals).

24. For the reasons stated herein, Trinity Solar respectfully requests that the Board issue an Order waiving that section of the ADI Program rules in order to allow the System to be included in the ADI Program.

Respectfully Submitted,

TRINITY SOLAR INC.

A handwritten signature in black ink, appearing to read "Joshua S. Fischer", written over a horizontal line.

Joshua S. Fischer, Esq. (058422013)
Associate General Counsel

732-780-3779, ext. 9436
josh.fischer@trinity-solar.com

DATED: *June 15, 2023*

**STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES**

IN THE MATTER OF THE VERIFIED PETITION OF

TRINITY SOLAR INC.

FOR APPROVAL OF A WAIVER OF THE
ADMINISTRATIVELY DETERMINED INCENTIVE
PROGRAM RULES WITH RESPECT TO THE SOLAR
FACILITY LOCATED AT 1464 FELA DRIVE,
VINELAND, NEW JERSEY 08361

**DOCKET
NUMBER:**

**CERTIFICATION OF VERIFICATION
BY TRINITY SOLAR INC.**

William Condit, of full age and upon his oath, deposes and says:

1. I am an Executive Vice President at Trinity Solar Inc., a Petitioner named in the foregoing Verified Petition, and am duly authorized to make this statement on its behalf.
2. I have read the contents of the foregoing Verified Petition, and hereby verify that the statements of fact and other information contained therein that are relevant to Trinity Solar are true and correct to the best of my knowledge and belief.



William Condit

DATED: 6-15-2023

SERVICE LIST

Board of Public Utilities

44 South Clinton Avenue, 9th Floor
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Trenton, NJ 08625-0350

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board.secretary@bpu.nj.gov

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Vineland Municipal Electric Utility

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EXHIBIT A

Commenced Construction Prior to ADI Conditional Acceptance

donotreply@programprocessing.com <donotreply@programprocessing.com>

Mon 6/12/2023 4:42 PM

To: NJ Applications <applications.nj@trinity-solar.com>



Jun-12 2023

ADI Registration Number: NJADRE1549628461

NOTICE: Commenced Construction Prior to ADI Conditional Acceptance

Allen Pitman
1464 Fela Drive
Vineland, NJ 08361

Dear Allen Pitman,

Your registration NJADRE1549628461 was submitted in the Administratively Determined Incentive (ADI) Program on 06/13/2022 and was issued an ADI conditional acceptance letter on 08/25/2022. A Final As-Built packet was recently submitted in the ADI online portal which included a permission to operate (PTO), issued by your Electric Distribution Company, which was dated 08/17/2022. The date of the PTO is prior to the date of the ADI conditional acceptance.

The [Board Order](#) dated July 28, 2021, **IN THE MATTER OF A SOLAR SUCCESSOR INCENTIVE PROGRAM PURSUANT TO P.L. 2018, C.17.** states the following:

"The Board ORDERS that projects seeking eligibility in the ADI Program are required to submit a complete ADI Program registration package and receive a notice of conditional registration prior to beginning construction on the facility."

Based on the above language from the Board Order and implementing rule at N.J.A.C. 14:8-11.4 (b), you are required to submit a petition to the Board Secretary at the New Jersey Board of Public Utilities (NJBPU) to request a waiver to the above ADI Program requirement to allow this solar facility to be eligible to participate in the ADI Program. Pursuant to **N.J.A.C. 14:1-1**, you can find instructions on how to petition the Board Secretary on the NJBPU Homepage on the NJ Clean Energy Website under

the [Dispute Resolution Process](#).

Please be advised that your ADI registration will now be put on hold, pending a decision by the NJBPU.

If you have any questions, please contact us at njreinfo@njcleanenergy.com.

Sincerely,
Successor Solar Incentive Program
Administratively Determined Incentive (ADI) Program
New Jersey's Clean Energy Program TM c/o TRC
317 George Street, Suite #520
New Brunswick, NJ 08901

Allen Pitman
William Condit

EXHIBIT B



**Successor Solar Incentive (SuSI) Program
Administratively Determined Incentive (ADI) Program
ADI Registration Certification Form**

A: Premise Contact and System Location (Where will the system be installed?)

Company Name (if applicable): _____
 First Name: Allen Last Name: Pitman
 Installation Address: 1464 Fela Drive
 City: Vineland State: NJ Zip Code: 08361
 Email: allen@powertroneletrical.com

B: Primary Contact (SREC-II Owner) (Who will be issued the NJ Certification Number?) FILL OUT IF DIFFERENT PERSON THAN ABOVE

Company Name: Same as Premise Contact Contact Person: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Email: _____

C: Solar Installer/ Developer

Company Name: Trinity Solar Inc. Contact Person: William Condit
 Address: 2211 Allenwood Road
 City: Wall State: NJ Zip Code: 07719
 Email: applications.nj@trinity-solar.com

D: Certification and Signatures

The undersigned warrants, certifies, and represents that 1) the information provided in this form is true and correct to the best of his or her knowledge; 2) for all behind-the-meter systems, the annual output of the above described generating system will not exceed 100% of the host's historic annual electrical usage; 3) the Installer/Developer will provide manuals related to the system operation and maintenance to the Premise Contact; 4) the system proposed will be constructed, installed and operated in accordance with all Board rules and applicable laws, and all NJBPU policies and procedures for the ADI program; 5) the Premise Contact is the Customer of Record for the Utility Account; 6) the Premise Contact gives permission to the ADI Processing Team, if necessary, to review their electric account information, both prior to installation and subsequent to installation; 7) all signing parties realize that certain information in this registration may be subject to the Open Public Records Act (OPRA); 8) the Installer/Developer has reviewed and explained the system technical specifications to the Premise and Primary contact; 9) the information submitted with this registration is accurate, and the system installation will follow the instructions detailed on the ADI Program Final Solar Technical Worksheet Instructions page; and 10) The signatures below will act as a self-certification to confirm that the proposed solar system is not a co-located system and does not fall under the definition of co-location at proposed **N.J.A.C. 14:8-11.2**. See *Instruction Page; Section C #4*.

I agree that this document and all notices and disclosures made or given relating to this document may be created, executed, delivered, and retained electronically and that the electronic signatures appearing on this document and any related documents shall have the same legal effect for all purposes as a handwritten signature. **A signature verification sheet must be submitted with this document if signatures are signed electronically.** The information, statements, and documents I have provided in and with this document are true and accurate to the best of my knowledge. I am aware that if any of them are willfully false, I am subject to punishment.

Primary Contact (SREC-II Owner)

Allen R. Pitman
 Signature: Allen R. Pitman (Apr 15, 2022 09:08 EDT)
 Print Name: Allen Pitman
 Date: April 14, 2022

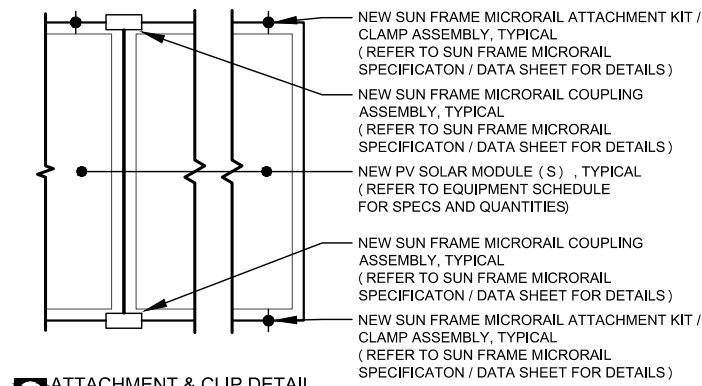
Solar Installer/Developer

William Condit
 Signature: William Condit
 Print Name: William Condit
 Date: 6/13/22

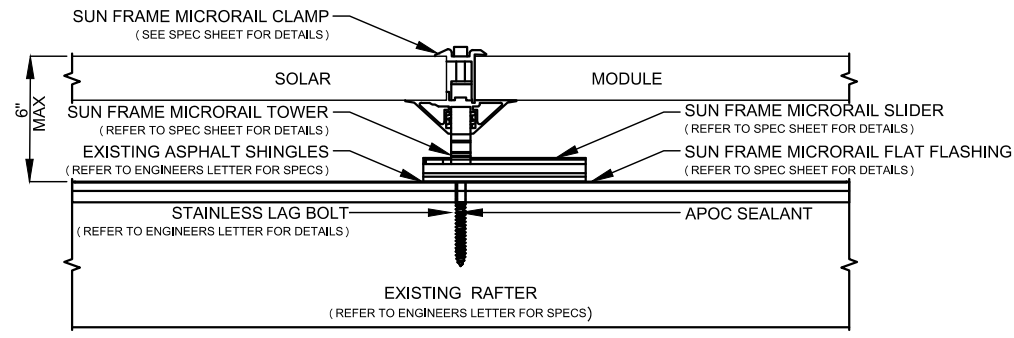
Premise Contact

(If different from Primary Contact)
 Signature: _____
 Print Name: _____
 Date: _____

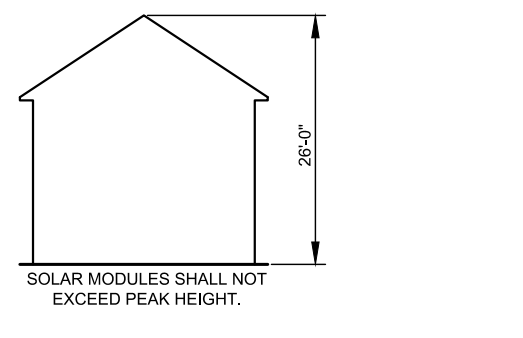
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 *DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



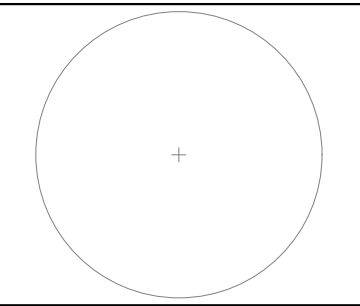
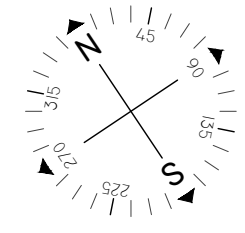
ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
 SCALE: NOT TO SCALE

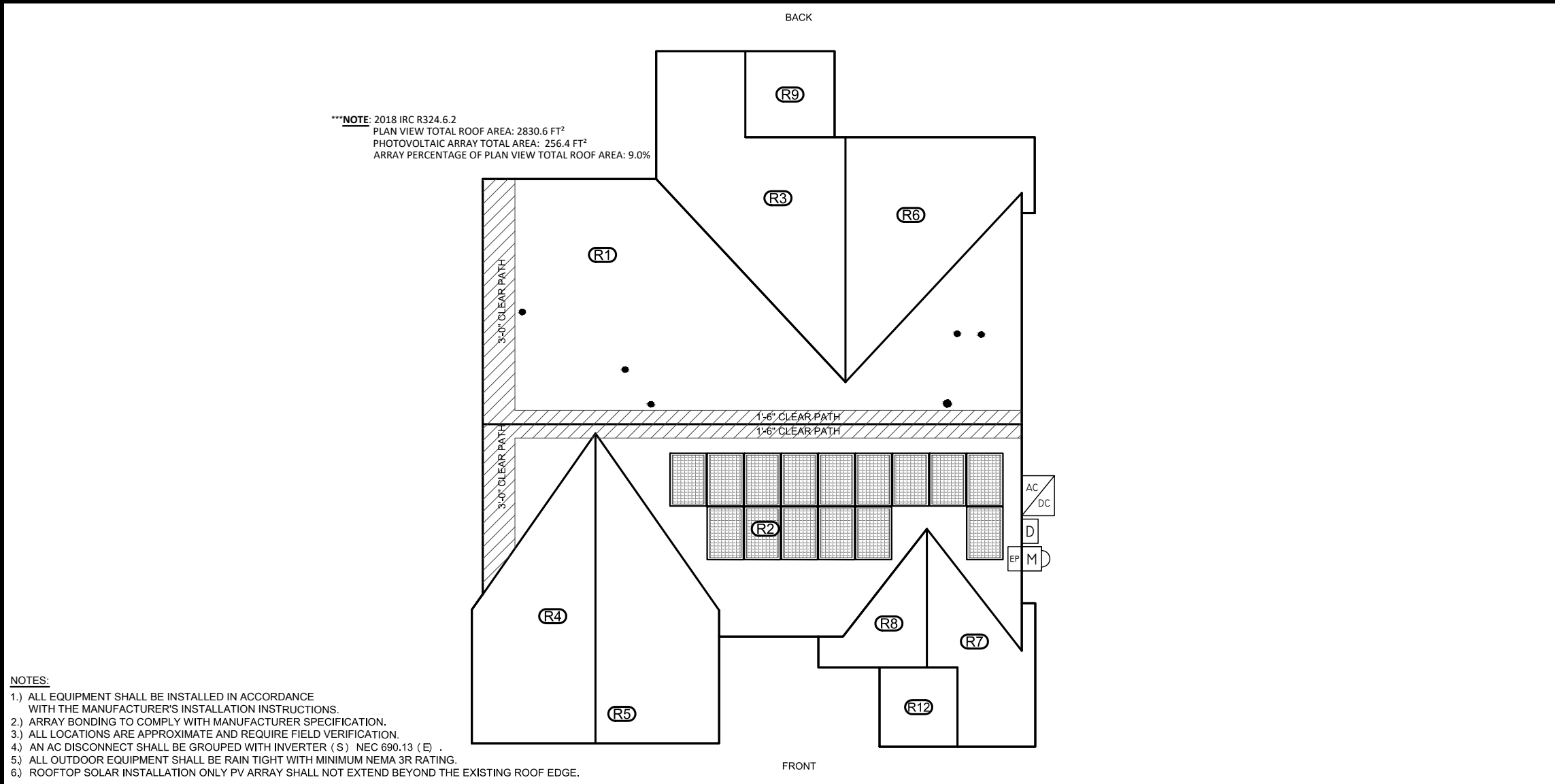


HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



ARRAY SCHEDULE

- ROOF 1
MODULES: 0
PITCH: 30°
ORIENTATION: 34°
- ROOF 2
MODULES: 15
PITCH: 30°
ORIENTATION: 214
- ROOF 3
MODULES: 0
PITCH: 32°
ORIENTATION: 304°
- ROOF 4
MODULES: 0
PITCH: 40°
ORIENTATION: 304°
- ROOF 5
MODULES: 0
PITCH: 40°
ORIENTATION: 124°
- ROOF 6
MODULES: 0
PITCH: 32°
ORIENTATION: 124°
- ROOF 7
MODULES: 0
PITCH: 37°
ORIENTATION: 124°
- ROOF 8
MODULES: 0
PITCH: 37°
ORIENTATION: 304°
- ROOF 9
MODULES: 0
PITCH: 32°
ORIENTATION: 124°
- ROOF 10
MODULES: 0
PITCH: 18°
ORIENTATION: 122°
- ROOF 11
MODULES: 0
PITCH: 18°
ORIENTATION: 302°
- ROOF 12
MODULES: 0
PITCH: 37°
ORIENTATION: 304°
- ROOF 13
MODULES: 0
PITCH: 68°
ORIENTATION: 302°
- ROOF 14
MODULES: 0
PITCH: 68°
ORIENTATION: 122°



- NOTES:
- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
 - 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
 - 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
 - 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
 - 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND

(R1)	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	(UD)	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(SP)	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
(M)	INDICATES EXISTING METER LOCATION	(P)	INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	(DC)	INDICATES NEW DC DISCONNECT
(EP)	INDICATES EXISTING ELECTRICAL PANEL LOCATION: IN BASEMENT	(P)	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.	(SD)	INDICATES EXISTING SERVICE DISCONNECT
(D)	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(DC/AC)	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS	(TS)	INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE

EQUIPMENT SCHEDULE

QTY	SPEC #
15	HANWHA 340 (Q.PEAK DUO BLK-G6+ 340)
1	SE3800H-US0SHBNC4

OTHER OBSTRUCTIONS

--

Issued / Revisions

NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	6/9/2022

Project Title:

PITMAN, ALLEN-
 TRINITY ACCT #: 2022-04-691593

Project Address:

1464 FELA DRIVE
 VINELAND, NJ 08361
 39.4327826,-75.0034814

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information

DRAWING DATE:	6/9/2022
DRAWN BY:	KTD
REVISED BY:	

System Information:

DC SYSTEM SIZE:	5.1kW
AC SYSTEM SIZE:	3.8kW
MODULE COUNT:	15
MODULES USED:	HANWHA 340
MODULE SPEC #:	Q.PEAK DUO BLK-G6+ 340
UTILITY COMPANY:	VINELAND ELECTRIC
UTILITY ACCT #:	157848
UTILITY METER #:	E31820
DEAL TYPE:	SUNNOVA

Rev. No.	Sheet
P1	PV - 2



ARRAY CIRCUIT WIRING NOTES

1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH **NEC 2017**

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH NEC 690.12(A) THROUGH (D)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVELANT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 705.31**

12.) WHERE TWO SOURCES FEED A BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)(3)(b)**

13.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

14.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[**NEC 690.8(B)(1)**]: $(15.00 \times 1.25)1 = 18.75A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 2 CCC: 1.00
 $(40 \times .96)1.00 = 38.40A$

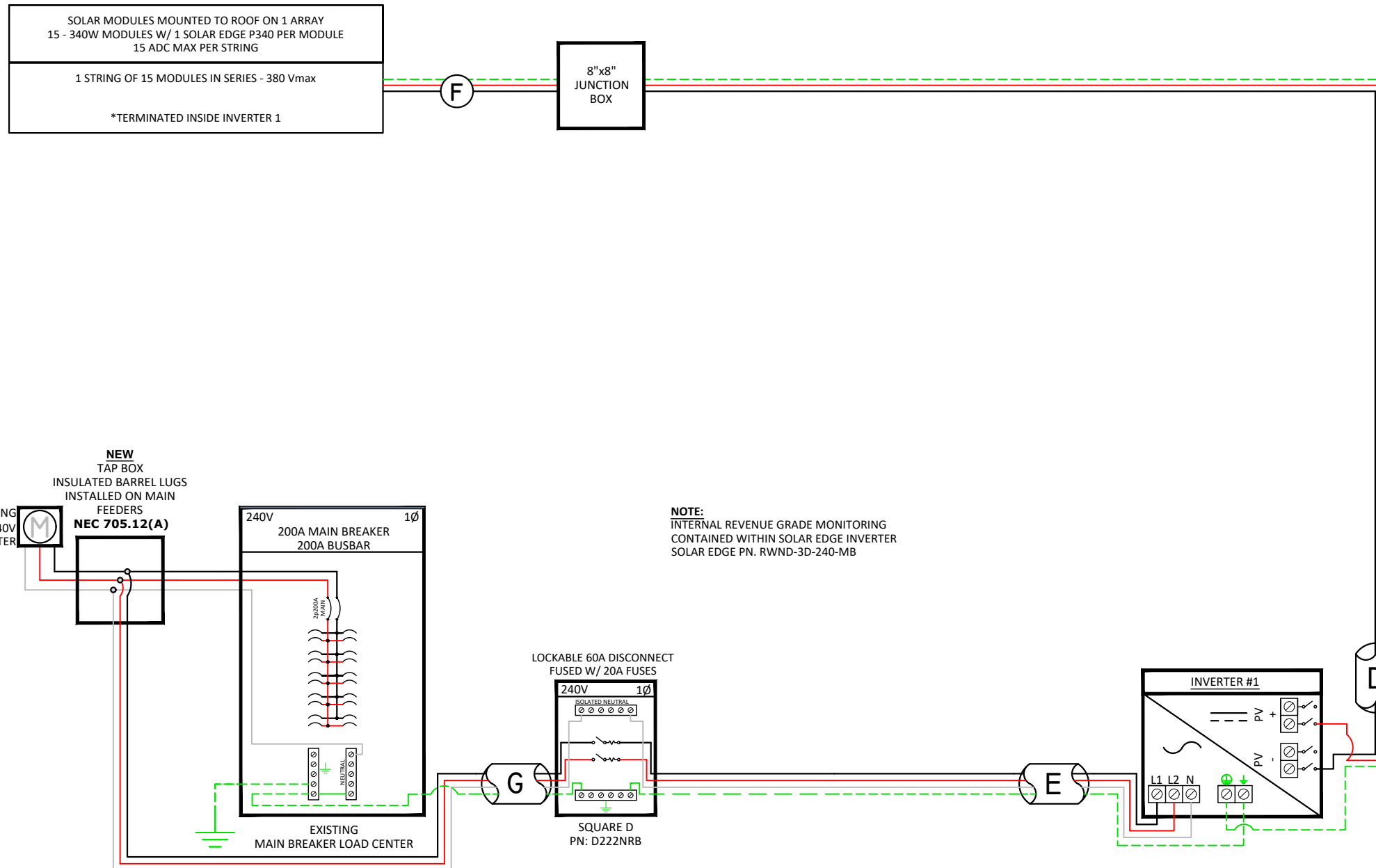
$38.40A \geq 18.75A$, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $16.00A \times 1.25 = 20.00A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
 $40A \times 1.0 = 40A$

$40A \geq 20.00A$, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 16.00A
 $16.00A \times 1.25 = 20.00A$
--> 20A OVERCURRENT PROTECTION IS VALID



NOTE:
INTERNAL REVENUE GRADE MONITORING
CONTAINED WITHIN SOLAR EDGE INVERTER
SOLAR EDGE PN. RWND-3D-240-MB

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

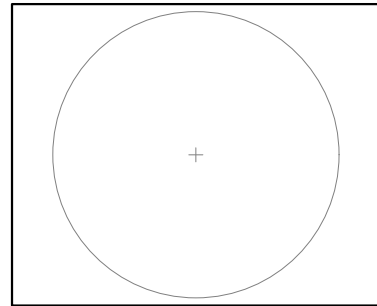
A	#6 THWN-2 GEC TO EXISTING GROUND ROD
B	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
C	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
D	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
E	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY
G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND

PV MODULE SPECIFICATIONS	
HANWHA 340 (Q.PEAK DUO BLK-G6+ 340)	
Imp	10.2
Vmp	33.94
Voc	40.66
Isc	10.52

INVERTER #1 - SE3800H-US0SHBNC4			
DC		AC	
Imp	10.5	Pout	3800
Vmp	380	Imax	16
Voc	480	OCPDmin	20
Isc	15	Vnom	240

ARRAY CIRCUIT WIRING NOTES
1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH **NEC 2017**
2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C
3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C
4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)
5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH NEC 690.12(A) THROUGH (D)
6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER **NEC 690.41 (A)(4)**
7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)
8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVELANT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.
9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED
10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS
11.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 705.31**
12.) WHERE TWO SOURCES FEED A BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)(3)(b)**
13.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS
14.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING
CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[**NEC 690.8(B)(1)**]: $(15.00 \times 1.25)1 = 18.75A$
AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 2 CCC: 1.00
 $(40 \times .96)1.00 = 38.40A$
 $38.40A \geq 18.75A$, THEREFORE WIRE SIZE IS VALID
TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $16.00A \times 1.25 = 20.00A$
AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
 $40A \times 1.0 = 40A$
 $40A \geq 20.00A$, THEREFORE AC WIRE SIZE IS VALID
CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 16.00A
 $16.00A \times 1.25 = 20.00A$
--> 20A OVERCURRENT PROTECTION IS VALID

Engineer / License Holder:



Issued / Revisions		
NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	6/9/2022

Project Title:
PITMAN, ALLEN-
TRINITY ACCT #: 2022-04-691593

Project Address:
1464 FELA DRIVE
VINELAND, NJ 08361
39.4327826,-75.0034814

Drawing Title:
PROPOSED PV SOLAR SYSTEM

Drawing Information
DRAWING DATE: 6/9/2022
DRAWN BY: KTD
REVISED BY:

System Information:
DC SYSTEM SIZE: 5.1kW
AC SYSTEM SIZE: 3.8kW
MODULE COUNT: 15
MODULES USED: HANWHA 340
MODULE SPEC #: Q.PEAK DUO BLK-G6+ 340
UTILITY COMPANY: VINELAND ELECTRIC
UTILITY ACCT #: 157848
UTILITY METER #: E31820
DEAL TYPE: SUNNOVA

Rev. No. **P1** Sheet **PV - 3**



EXHIBIT C



VINELAND MUNICIPAL ELECTRIC UTILITY
ENGINEERING DIVISION
57 W. Park Avenue - PO Box 1508
Vineland, NJ 08362-1508
Telephone (856) 794-4000 x4278

August 17, 2022

Trinity Solar Inc.
2211 Allenwood Road
Wall, New Jersey 07719

Re: **Allen Pitman**
1464 Fela Drive
Acct # **157848**

Dear **Trinity Solar Inc.**

Vineland Municipal Electric Utility has accepted the completed the Solar System Interconnection application for the above customer. The new non-detented meter for net metering was installed on **06/15/2022**. The system was inspected and passed on **August 17, 2022** and is accepted by VMEU. The system may now be operated.

The Vineland Municipal Electric Utility does not, by acceptance of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons. Further, this Application/Agreement does not constitute a dedication of the customer's System to VMEU's electrical system equipment or facilities. This Application is accepted and considered complete by VMEU on **August 17, 2022**.

Please contact me if you have any questions.

Vineland Municipal Electric Utility Signed VMEU Representative:

A handwritten signature in cursive script that reads "Kathy Caignon".

Date: **August 17, 2022**

Kathy Caignon
Management Specialist
Vineland Municipal Electric Utility
(856) 794-4000 ext. 4278
RenewableEnergy@vinelandcity.org

EXHIBIT D

CITY OF VINELAND
640 E WOOD ST-PO BOX 1508
VINELAND, NJ 08362-1508

Date Issued 08/23/22
Control #
Permit # 22-0811

UCC NEW JERSEY CERTIFICATE

IDENTIFICATION

Block 7602 Lot 9 Qual _____
Work Site Location 1464 FELA DR
Owner in Fee/Occupant PITMAN
Address 1464 FELA DR
VINELAND, NJ 08361-
Telephone () -
Contractor TRINITY SOLAR
Address 2211 ALLENWOOD RD
WALL, NJ 07719-
Telephone (732)780-3779 Fax () -
Lic. No. or Bldrs. Reg. No. _____
Federal Emp. No. 22-3292324

Home Warranty No. _____
[] State [] Private _____
Use Group R-5
Maximum Live Load 0
Construction Classification _____
Maximum Occupancy Load 0
Description of Work/Use:

INSTALLATION OF MOUNTING AND PV SOLAR SYSTEM ON ROOF

[] CERTIFICATE OF OCCUPANCY

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

[X] CERTIFICATE OF APPROVAL

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

[] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

If this is a Temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than _____, ____ or the owner will be subject to fine or order to vacate:

[] CERTIFICATE OF CLEARANCE - LEAD ABATEMENT 5:17

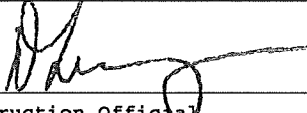
This serves notice that based on written certification, lead abatement was performed as per NJAC 5:17, to the following extent:
[] Total removal of lead-based paint hazards in scope of work
[] Partial or limited time period (____ years); see file

[] CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

[] CERTIFICATE OF COMPLIANCE

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until _____, ____.



Construction Official

U.C.C. F260 (rev. 3/96)

Fee \$ _____ 0
Paid [X] Check No. 186966
Collected by: _____ AM

EXHIBIT E

RE: NJ ADI Registration Number NJADRE1549628461 - Conditional Acceptance

donotreply@programprocessing.com <donotreply@programprocessing.com>

Thu 8/25/2022 8:00 AM

To: NJ Applications <applications.nj@trinity-solar.com>



Aug-25 2022

Allen Pitman
 1464 Fela Drive
 Vineland, NJ 08361

ADI Project Number NJADRE1549628461 - Conditional Acceptance

Dear Allen Pitman:

We are pleased to inform you the above solar project has been conditionally accepted in the Administratively Determined Incentive Program within New Jersey's Successor Solar Incentive Program and has been assigned a Registration Number NJADRE1549628461. The project has been conditionally accepted with a 5.1 **kW (DC)** solar electric system. The final acceptance of this initial registration is conditioned on completing the solar installation and commencing commercial operation on or before the expiration date of **08/25/2023**.

Pursuant to the Clean Energy Act of 2018 (L. 2018, c.17) and the Solar Act of 2021 (L. 2021, c. 169), the New Jersey Board of Public Utilities (NJBPUB) has established a new Successor Solar Incentive Program (SuSI) by Board Order dated July 28, 2021. The SuSI Program replaces the SREC Registration Program (SRP), which was closed to new registration on April 30, 2020, and the Transition Incentive Program (TI), which provided a bridge between the Legacy SRP and the Successor Solar Incentive Program. The SuSI Program provides incentives to eligible solar facilities to enable the continued efficient and orderly development of solar electric generating sources throughout the State. The SuSI Program is comprised of two sub-programs: the Administratively Determined Incentive Program (ADI) and the Competitive Solar Program (CSI). The ADI Program opened to new registrations on August 28, 2021.

Your ADI Registration packet provided us with the following information regarding your solar project:

ADI Registration Number	NJADRE1549628461	Installation Address	1464 Fela Drive Vineland, NJ 08361
Premise Contact	Allen Pitman	System Size (kW dc)	5.1
Primary Contact	Allen Pitman	Market Segment	Net Metered

(SREC-II Owner)		Residential
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Note: This letter is addressed to the Primary Contact (SREC-II) Owner), the Premise Contact, and the Solar Installer listed in the ADI Registration Certification form signed by the Primary Contact.

[1] *This is a standard form letter intended to cover many cases. You should read it carefully for those provisions applicable to your own project but be aware that all the provisions may not be applicable.*

The date of your project's conditional acceptance is 08/25/2022. You may now begin construction of your solar facility.

You must receive permission to operate from the relevant Electric Distribution Company (EDC), submit a complete Final As-Built Package (Post Construction Certification) and meet all other program requirements on or before the project's expiration date noted in this acceptance letter. **If a complete Final As-Built Package with permission to operate is not submitted on or before the expiration date, the registration will be canceled.** If the registration is canceled, you will be required to re-start the entire registration process by submitting a new initial registration package which will have no reference to the above registration. If the solar system is issued permission to operate from the EDC prior to resubmitting a new registration, you will be required to [petition](#) the NJBPU for approval to participate in the ADI Program. **NOTE:** *If at the time you submit the new registration, the capacity cap for this market segment has been reached, you will no longer be eligible to submit a new registration in this capacity block and will be required to wait until the next capacity block is opened to submit a new registration.*

Once the Final As -Built packet is deemed complete, you may be randomly selected for an on-site program inspection or selected for an inspection waiver. If you are selected for a waiver of inspection, you will receive a waiver letter via email. If you are selected for an on-site inspection, you will be contacted to schedule an on-site visit by a Program Representative.

Upon satisfactory completion of all ADI program requirements, the owner of the SREC-IIs will be issued an NJ SREC-II Certification Number and instructions regarding how to register the solar PV generating system in the Generation Attribute Tracking System at PJM-EIS LLC. The NJ SREC-II Certification Number is a distinct number that is assigned based on the solar installation market segment that is associated with the eligible incentive level. *For additional information on Market Segments, Capacity Blocks and Incentives see ADI Guidelines and Clarification below.*

More detailed information regarding the ADI Program can be found on the NJCEP website and on the ADI Program Online Portal homepage. In addition, certain additional explanations, caveats, clarifications, and conditions are set forth under the *ADI Guidelines and Clarification* section below.

If you have questions or concerns about your ADI Registration, please feel free to contact us at njreinfo@njcleanenergy.com.

Thank you for participating in the Administratively Determined Incentive Program.

Successor Solar Incentive (SuSI) Program
Administratively Determined Incentive (ADI) Program
New Jersey Clean Energy Program

c/o TRC
317 George Street, Suite #520
New Brunswick, NJ 08901

CC:
Allen Pitman
William Condit

ADI Guidelines and Clarifications

Special Reporting Required for Net Metered Projects 1 MW or larger

For net metered projects 1 MW or larger, Quarterly Milestone reports must be submitted to the ADI Processing Team within two weeks of the quarters ending on March 31, June 30, September 30 and December 31. If there is a change to the ownership of the SREC-IIs from the initial ADI Registration, this change should be noted on the ADI Milestone Reporting Form and a copy of the newly executed contract reflecting the new SREC-II owner and a revised ADI Registration Certification Form should be included with the Milestone Reporting form, for the next quarterly submission. Quarterly reports can be submitted in the online portal or via email to [mailto:njreinfo@njcleanenergy.com%20.njreinfo@njcleanenergy.com. The Milestone Reporting Form and instructions on how to submit this form can be found at www.njcleanenergy.com.

Revenue Grade Meter Requirements

All solar energy systems eligible to earn SREC-IIs must report system production based upon readings from a revenue-grade meter that meets the American National Standards Institute (ANSI) Standard C12.1-2008. This meter is in addition to the electric meter installed by the local utility to measure the home or business' electric consumption. The approved list of revenue grade meters accepted in TI can be found at [solar production meters](#).

SREC-II Eligibility for Adding Capacity to an Existing Solar System

If you are adding capacity to a previously installed system that participated in the SREC Registration Program, Transition Incentive Program, or any previous NJ solar program where the solar system was eligible for SRECs (Solar Renewable Energy Certificates) or TRECs (Transition Renewable Energy Certificates), you are **required** to install a new revenue grade meter for the added capacity.

Co-Locating Systems

Co-location is not permitted in the ADI Program, unless granted special dispensation by the Board. Co-location is defined as siting two or more SuSI-eligible solar facilities on the same property or on contiguous properties such that the individual facilities are eligible for a higher incentive value than they would be if they combined into one single facility. In the case of net metered projects, ADI eligible solar facilities shall not be deemed co-located if they serve separate net metering customers as set forth in N.J.A.C. 14:8-4. If the review of the Post Construction Certification (Final As-Built) packet or project inspection reveal that the registrant failed to disclose co-located solar facilities, the Board may take enforcement action, including but not limited to adjusting the incentive downward by multiplying the aggregated project size by the lowest incentive level among the projects' qualifying market segments.

Interconnection and Authorization to Energize Requirements

This acceptance letter does not constitute a determination of eligibility to interconnect the project to the distribution system in New Jersey. Net metered project owners or their developers must follow the Net Metering and Interconnection process required by New Jersey law at N.J.A.C. 14:8-4.1 through 14:8-5.9 and facilitated by their EDC. The ADI Processing Team does not review the estimated system production and historical onsite consumption for projects to determine eligibility for net metering purposes. Registrants must obtain the required approval from their EDCs, or they may be at risk of proceeding with a project that the EDC refuses to interconnect based on its review of the system

output and historical consumption. Among other things, on-site load must be at least equal to project generation before a net-metered system may be energized or final program acceptance issued

Registrants must also obtain permission to operate for their interconnected system from their EDC. The Final As-Built Checklist requires, among other things, proof that the relevant EDC has approved the interconnection with the EDC's Electrical Distribution System (i.e., grid) and issued a Notice of Authorization to Energize. The facility must receive permission to operate from the relevant EDC and submit a complete Final As- Built (Post-Construction Certification) packet as defined at N.J.A.C. 14:8-11.5(j) prior to the expiration date indicated in this notice of conditional registration.

ADI Guidelines and Clarifications (cont.)

Increases and Decreases

If, after submittal of an initial ADI Registration packet, an increase of up to 10 percent or 25 kW (dc), whichever is smaller, in the solar electric generating facility's generating capacity is planned, the registrant is required to notify NJBPU at oce@bpu.nj.gov and the ADI Processing Team at NJREINFO@NJCleanEnergy.com. An ADI solar facility cannot increase the system's capacity that would expand the project beyond 5 MW (dc).

Extensions

The ADI Program allows for one, 6-month extension. Extension requests must be submitted in the ADI online portal on or before the expiration date noted in this acceptance letter. Requests will be reviewed and considered on a case-by-case basis. Timely and consistent submissions of the Milestone Reporting Form will be considered when making a determination on any extension requests. ADI does not allow for a second extension. To request a second extension, a petition must be submitted to the NJBPU. You can find more information on the ADI Extension Policy at njcleanenergy.com.

New Jersey Solar Renewable Energy Certificates-II (SREC-IIs)

Once a qualified solar project is interconnected with the Electric Distribution System in New Jersey and is authorized to be energized by the EDC, the system is able to produce electricity and is eligible to begin earning SREC-IIs. One SREC-II is earned each time a project generates 1,000 kilowatt-hours (kWh) of electricity.

Capacity Blocks

The ADI Program will accept new registration packages for a given market segment until the capacity block for that market segment is fully subscribed. When the capacity block for a given market segment is reached, the ADI registration portal will stop accepting new registrations for that market segment. New registrations will be accepted in the ADI registration portal when the next capacity block opens. Capacity Blocks will be set annually by the Board.

A capacity block is defined as being fully subscribed when the last registration received in the ADI registration portal causes the total capacity of all registrations in that block to exceed the capacity allocated for the block. Registrations will be reviewed on a first come, first serve basis and the capacity for each application under the status of ADI Registration Received will be counted toward the block of the relevant market segment.

Market Segments	System Size	MW (dc) Capacity Blocks EY 2022
Net-Metered Residential	All Sizes	150 MW
Net Metered Non-Residential	All Sizes at or below 5 MW (dc)	150 MW
Community Solar including LMI and Non-LMI	All Sizes at or below 5 MW (dc)	150 MW
Interim Subsection (t) Grid	All Sizes	75 MW (or 3 months before CSI commencement)

ADI Guidelines and Clarifications cont.

Market Segments and Incentives Values

Market Segments	System Size MW dc	Incentive Values (\$/SREC II)	Public Entities (\$20/SREC II Adder)
Net-Metered Residential	All Sizes	\$90	N/A
Small Net-Metered Non-Residential located on Rooftop, Carport, Canopy and Floating Solar	Project Smaller than 1 MW	\$100	\$120
Small Net Metered Non-Residential Ground Mount	Project Smaller than 1 MW	\$85	\$105
Large Net Metered Non-Residential Ground Mount	Projects 1 MW to 5 MW	\$80	\$100
Community Solar LMI	Up to 5 MW	\$90	N/A
Community Solar Non-LMI	Up to 5 MW	\$70	N/A
Interim Subsection (t) Grid	All Sizes	\$100	N/A

Changing SREC-II Ownership

Registrants that have a change to the System or SREC-II ownership must provide a copy of the newly executed contract reflecting the new owner together with a revised ADI Registration Certification form. If the change in ownership occurs after the SREC-II Certification Number has been issued, please contact GATS for guidance on how to make this change.

Location of ADI Program Forms and Documents

The Final As-Built Checklist and other program forms can be found at www.njcleanenergy.com.