



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

<p>IN THE MATTER OF THE VERIFIED PETITION OF 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 1454 DIVISION AVENUE, PISCATAWAY, NEW JERSEY 08854</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 1454 Division Avenue, Piscataway, New Jersey 08854 (the “Urbina Property”), under ADI Registration Number NJADRE1548367818 (hereinafter, the “System”), to be increased by more than 10%; i.e., from 7.6 kilowatts (“kW”) (dc) to 10 kW (dc).



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 September 26, 2022. **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 2,200 employees across 9 States, with the largest amount of its employees being employed in the State of New Jersey.
7. To date, Trinity Solar has installed over 80,000 solar photovoltaic systems in the United States.

THE SYSTEM

8. On or about December 20, 2021, Trinity Solar submitted an ADI Registration Form (on behalf of its customer Isaac Urbina) to the Clean Energy Program with respect to the System at the Urbina Property in accordance with the New



Jersey Clean Energy Successor Solar Incentive Program and the ADI Program. **See Exhibit B.**

9. The System installation plans submitted with the ADI Registration form showed that the System would be 7.6 kw (dc), and would be comprised of 19 solar modules. **Id.**
10. On or about January 26, 2022, the New Jersey Clean Energy Program advised that the 7.6 kW (dc) System at the Urbina Property was conditionally accepted into the ADI Program within New Jersey's Successor Solar Incentive Program, and was assigned Registration Number NJADRE1548367818. **See Exhibit C.**
11. The final acceptance of the initial registration of the System at the Urbina Property was conditioned on completing the solar installation and commencing commercial operation on or before the expiration date of January 26, 2023. **See id.**
12. After the installation of the System was completed, six (6) solar modules were added to the System array (for a total of 25 modules) to allow for additional electricity production to benefit Mr. Urbina and his household.
13. The 6-module addition increased the size of the System at the Urbina Property from 7.6 kW(dc) to 10 kW (dc).



14. The percentage increase between 7.6 kw (dc) and 10 kw (dc) is approximately 31% or, an additional 2.4 kw (dc).
15. Prior to the 6-panel increase, the System was estimated to produce approximately 8,134 kWh per year. With the 6-panel increase, the System is estimated to produce approximately 10,389 kWh.
16. On or about June 14, 2022, Trinity Solar submitted a “Final As-Built Technical Worksheet” in accordance with the ADI Program, which notified the Clean Energy Program that the System size was now 10 kw.
17. On or about September 26, 2022, Trinity Solar was notified that the 7.6 kw System increased more than the 10% increase allowable by the ADI Program rules, but, in turn, allowed Trinity to submit a Petition seeking a waiver of the ADI Program rules. **See Exhibit A.**

RELIEF REQUESTED

18. Trinity Solar respectfully submits that good cause exists to allow a greater-than-10% increase in the solar facility located at the Urbina Property.
19. 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).

20. At issue here is Trinity Solar’s request for an approximately 31% (2.4 kw(dc)) increase of the System’s size, juxtaposed against N.J.A.C. § 14:8-11.5(k), which allows for a post-conditional acceptance “increase of up to 10 percent or 25 kWdc . . . in the solar electric generating facility's generating capacity.”
21. While a permissible increase is permitted by N.J.A.C. § 14:8-11.5(k), the same section also states that no ADI-eligible facility will be permitted an increased in generative capacity that would expand the project beyond five (5) MWdc.
22. Therefore, the applicable Administrative Code section suggests that System size increases beyond the 10% / 25kWdc level (such as the System at issue here) can be tolerated and accepted for solar facilities enrolled in the ADI Program, so long as the facilities do not approach an increase by 5MWdc.
23. When the applicable Administrative Code section was announced, multiple entities expressed concerns regarding the potential increase in solar facility sizes beyond the original application size, including, but not limited to, uncertainty and volatility in the planning and budgeting process, and a potential exceedance of the cost caps and the RPS. **See 54 N.J.R. 371 (Feb. 22, 2022) (Exhibit D)**.
24. The Board was not persuaded by those concerns, and responded as follows:

RESPONSE TO COMMENTS 18 AND 19: The Board's experience in administering the solar programs shows that solar projects are often constructed at sizes that are slightly different than indicated in the project's initial application. Often, these small changes are made to reduce the cost or difficulty in constructing the project, adjust for changes in equipment based on availability, or reduce the impact of the project on the electrical grid, and, therefore, should be encouraged. The Board does not anticipate that many projects will make use of the flexibility provided at N.J.A.C. 14:8-11.5(k) and, thus, does not believe that it will lead to the uncertainty feared by the commenters. The Board also notes that an increase of capacity capped at 25 kWdc is relatively modest in the context of projects that may be as large as five MW. Such minor capacity adjustments have historically been permitted in the SRP and TI Program, in recognition that the final installed solar system may not be exactly identical to the plans presented in the initial registration. Additionally, the Board will close the registration window for a market segment when registrations to that market segment reach the annual capacity allocation. The Board notes that, historically, a certain percentage of registered projects fail to reach commercial operation. The Board expects that the amount of capacity decrease resulting from projects that have registered, but fail to reach commercial operation, will likely be significantly larger than the capacity increase resulting from projects that exercise the option to increase by the maximum allowable 25 kW. In the event that increases in size become common enough to risk increased uncertainty, the Board may revisit this provision and/or the megawatt blocks.

25. Here, good cause exists for the Board to allow the addition of 6 solar modules at the Urbina Property because such addition falls within the "minor capacity adjustment[s]" historically permitted by the Board, to wit: 2.4 *kilowatts*, which does not remotely come close to the statutory cap of 5 *megawatts*.

26. The increase in the System's size (between the originally-submitted application and the current System size) is not only modest, but it can be better characterized as *de minimis*. Based on the Board's comments regarding this Administrative Code section, an increase of 25kW in the context of a 5MW solar facility is not concerning. By that same logic, a mere 2.4 kw increase in the context of a 10 (total) kw solar facility should not be concerning.



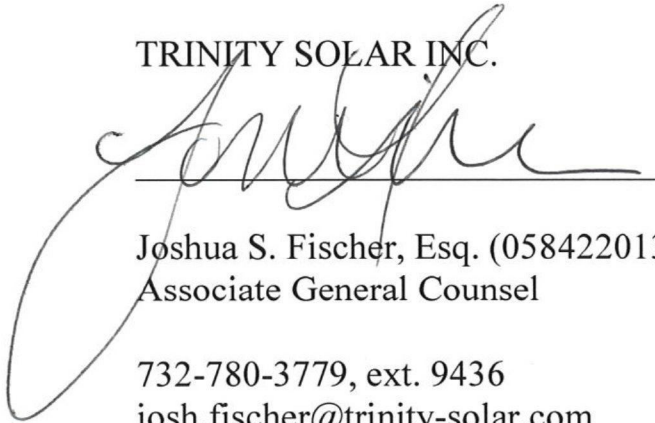
27. More importantly, the 6-module increase would only benefit Mr. Urbina to allow him to produce greater amounts of clean energy, and will further Governor Phil Murphy's goal of reducing greenhouse gas emissions by 50% by year 2030.

28. Contrariwise, denying this Petition would adversely affect Mr. Urbina by not allowing him the ability to utilize greater amounts of clean energy in accordance with the State's goal of reducing greenhouse gas emissions.

29. For the reasons stated herein, Trinity Solar respectfully requests that the Board issue an Order waiving the ADI Program rules to allow the System to be increased by approximately 31% - from 7.6 kW(dc) to 10 kW (dc).

Respectfully Submitted,

TRINITY SOLAR INC.



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

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

DATED: 9/29/2022

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<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 1454 DIVISION AVENUE, PISCATAWAY, NEW JERSEY 08854</p>	<p style="text-align:center">DOCKET NUMBER:</p>
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**CERTIFICATION OF VERIFICATION
BY TRINITY SOLAR INC.**

Rachel Madison, of full age and upon her oath, deposes and says:

1. I am the New Jersey Operations Manager 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.



Rachel Madison

DATED: 9/29/22

SERVICE LIST

Board of Public Utilities

44 South Clinton Avenue, 9th Floor
Post Office Box 350
Trenton, NJ 08625-0350

Aida Camacho-Welch
Secretary of the Board
board.secretary@bpu.nj.gov

Division of Clean Energy

Kelly Mooij, Director
Kelly.mooij@bpu.nj.gov

Scott Hunter
Benjamin.hunter@bpu.nj.gov

Ronald Jackson
Ronald.jackson@bpu.nj.gov

Rachel Boylan
Rachel.boylan@bpu.nj.gov

Division of Policy and Planning
communitysolar@njcleanenergy.com

Office of General Counsel
Abe Silverman, General Counsel
Abe.silverman@bpu.nj.gov

New Jersey Division of Rate Counsel
Brian Lipman, Esq., Acting Director
blipman@rpa.nj.gov

Deputy Attorney General

Department of Law & Public Safety
Division of Law
25 Market Street, Post Office Box 112
Trenton, NJ 08625-0112

Pamela Owen, Assistant Section Chief,
DAG
pamela.owen@law.njoag.gov

Michael Beck, DAG
michael.beck@law.njoag.gov

Public Service Electric & Gas Company

Matthew M. Weissman, Esq.
General State Regulatory Counsel
matthew.weissman@pseg.com

Michele Falcao
michele.falcao@pseg.com

Bernard Smalls, Esq.
bernard.smalls@pseg.com

Katherine E. Smith, Esq.
katherine.smith@pseg.com

Caitlyn White, Esq.
caitlyn.white@pseg.com

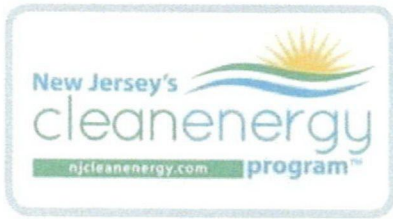
EXHIBIT A

ADI Registration - Increase system size

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

Mon 9/26/2022 10:38 AM

To: NJ State Apps <stateapps.nj@trinity-solar.com>



Sep-26 2022

ADI Registration Number: NJADRE1548367818

NOTICE: ADI Registration -Increase System Size

Esmeralda Martinez
Sunnova Energy Corporation
P.O. Box 56229
Houston, TX 77256

Dear Esmeralda Martinez:

This email is to inform you that we have received and reviewed your Administratively Determined Incentive (ADI) Program Final As-Built packet for NJADRE1548367818. The size of the solar facility reflected in the initial ADI Registration packet and noted in the ADI Conditional Acceptance letter was a 7.6 kW(dc) solar system. The Final As-Built documents submitted and equipment specifications entered on the final technical worksheet and in the ADI online portal, show an increased system size of 10 kW (dc).

Solar facilities participating in the ADI Program are not permitted to increase the system size by more than, the lesser of, 10% or 25 kW (dc) from the original system size requested in the initial ADI Registration packet and conditionally accepted in the ADI Program. The increased system size of 10 kW (dc) installed at this site exceeds the 10% allowed.

The [Board Order](#) dated July 28, 2021, states the following:

*After submittal of an initial registration package, the **Board ORDERS** that projects shall be allowed to increase the project's generating capacity by up to 10 percent or 25 kW dc, whichever is less, contingent on notifying the ADI Program registration manager following the instructions provided on the NJCEP website. Projects are not permitted to increase their generating capacity by more than 10 percent or 25 kW dc nor exceed the ADI Program MW size limit for the given market segment assigned in the project's conditional registration.*

This above program requirement for the Successor Solar Incentive (SuSI) Program can be found in the Board rules at **N.J.A.C. 14:8-11.5(k)** which is posted on the [Solar Proceedings](#) page of the [NJCleanenergy.com](#) website.

Additionally, the Board Order states:

*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.*

This above program requirement may also be found in the Board's rules at **N.J.A.C. 14:8-11.4(b)**.

You now have two options:

- 1) Remove the number of solar panels required to decrease the size of the system to comply with the Board's rules, as not to exceed 10% from the original system size of 7.6 kW (dc).
- 2) Submit a [petition](#) to the New Jersey Board of Public Utilities (NJBPU) requesting a waiver of the ADI Program rules to i) allow the 10 kW (dc) solar facility that exceeds the 10%, to participate in the ADI Program and re-register with the larger system size. ii) Request that the Board waive the above-quoted eligibility requirement that requires that an ADI Registration packet be submitted and issued a conditional acceptance letter prior to the start of construction. The permission to operate for this solar facility is dated 6/1/2022, which will be prior to the date you re-register for the larger system.

The new registration will have no reference to this registration and will receive a new project number, acceptance date and expiration date.

If the capacity cap for this market segment has been reached, you will no longer be eligible to submit a registration in this capacity block and will be required to wait until the next capacity block is opened to new registrations. You can find a table on the homepage of the [ADI portal](#) to track available capacity for each market segment

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

Sincerely,

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

CC:
ISAAC URBINA
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: Isaac Last Name: Urbina
 Installation Address: 1454 DIVISION AVENUE
 City: PISCATAWAY State: NJ Zip Code: 08854
 Email: rodourbina22@yahoo.com

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

Company Name: Sunnova Energy Corporation Contact Person: Esmeralda Martinez
 Address: 20 E Greenway Plaza, Suite 540
 City: Houston State: TX Zip Code: 77046
 Email: utility@sunnova.com

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)

Signature: *Esmeralda Martinez*
 Print Name: Esmeralda Martinez
 Date: 12/20/21

Solar Installer/Developer

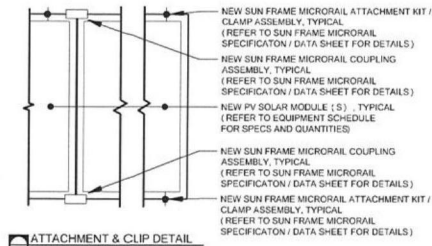
Signature: *William Condit*
 Print Name: William Condit
 Date: 12/20/21

Premise Contact

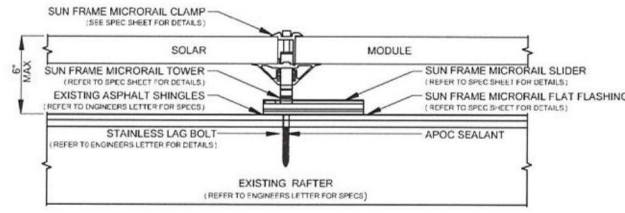
(If different from Primary Contact)

Isaac Urbina
Isaac Urbina (Doc 3, 09/11/21 15:51)
 Print Name: Isaac Urbina
 Date: 12/9/21

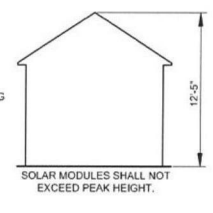
NOTES: *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 *DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



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

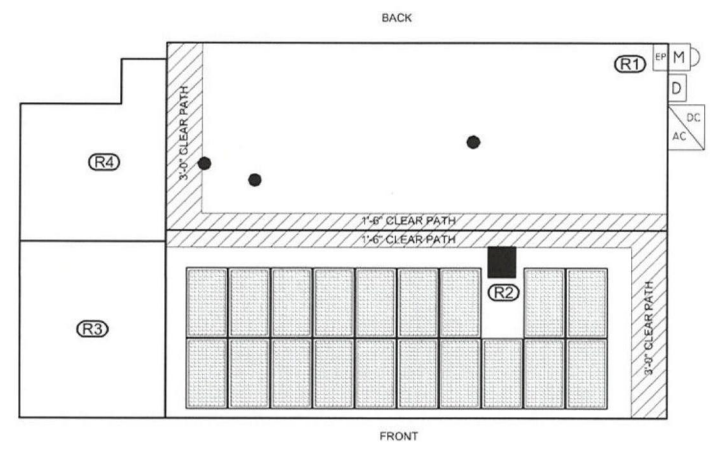


HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



SOLAR MODULES SHALL NOT EXCEED PEAK HEIGHT.

ARRAY SCHEDULE



- 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 (D).
 - 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

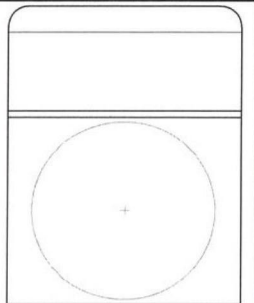
(RT)	INDICATES ROOF DESIGNATION, REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	(UD)	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(SP)	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
(M)	INDICATES EXISTING METER LOCATION	(P)	INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	(DC)	INDICATES NEW DC DISCONNECT
(EP)	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	(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 #
19	HANWHA 400 (Q,PEAK DUO BLK ML-G10+ 400)
1	SE600H-US05HNC4

- ROOF 1
MODULES: 0
PITCH: 19°
ORIENTATION: 311°
- ROOF 2
MODULES: 19
PITCH: 19°
ORIENTATION: 131°
- ROOF 3
MODULES: 0
PITCH: 17°
ORIENTATION: 131°
- ROOF 4
MODULES: 0
PITCH: 17°
ORIENTATION: 311°



Issued / Revisions		
NO.	DESCRIPTION	DATE

Project Title:
 URBINA, ISAAC-
 TRINITY ACCT #: 2021-12-651903

Project Address:
 1454 DIVISION AVENUE
 PISCATAWAY, NJ 08854
 40.595324, -74.442255

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	12/17/2021
DRAWN BY:	RG
REVISED BY:	

System Information:	
DC SYSTEM SIZE:	7.6KW
AC SYSTEM SIZE:	6KW
MODULE COUNT:	19
MODULES USED:	HANWHA 400
MODULE SPEC #:	Q,PEAK DUO BLK ML-G10+ 400
UTILITY COMPANY:	PSE&G
UTILITY ACCT #:	7574202702
UTILITY METER #:	60763747
DEAL TYPE:	SUNNOVA

Rev. No.	Sheet
P1	PV - 2

ARRAY CIRCUIT WIRING NOTES
 1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ON-SITE 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 EQUIVALENT 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 BUSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKERS(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)): $(15.00 \times 1.25) \times 1 = 18.75A$

AWG #10, DERATED AMPACITY
 AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
 RACEWAY DERATING = 4 CCC: 0.80
 $(40 \times .96) \times 0.80 = 30.72A$

$30.72A \geq 18.75A$, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $25.00A \times 1.25 = 31.25A$

AWG #8, DERATED AMPACITY
 AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
 RACEWAY DERATING: 3 CCC: N/A
 $55A \times 1.0 = 55A$

$55A \geq 31.25A$, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 25.00A

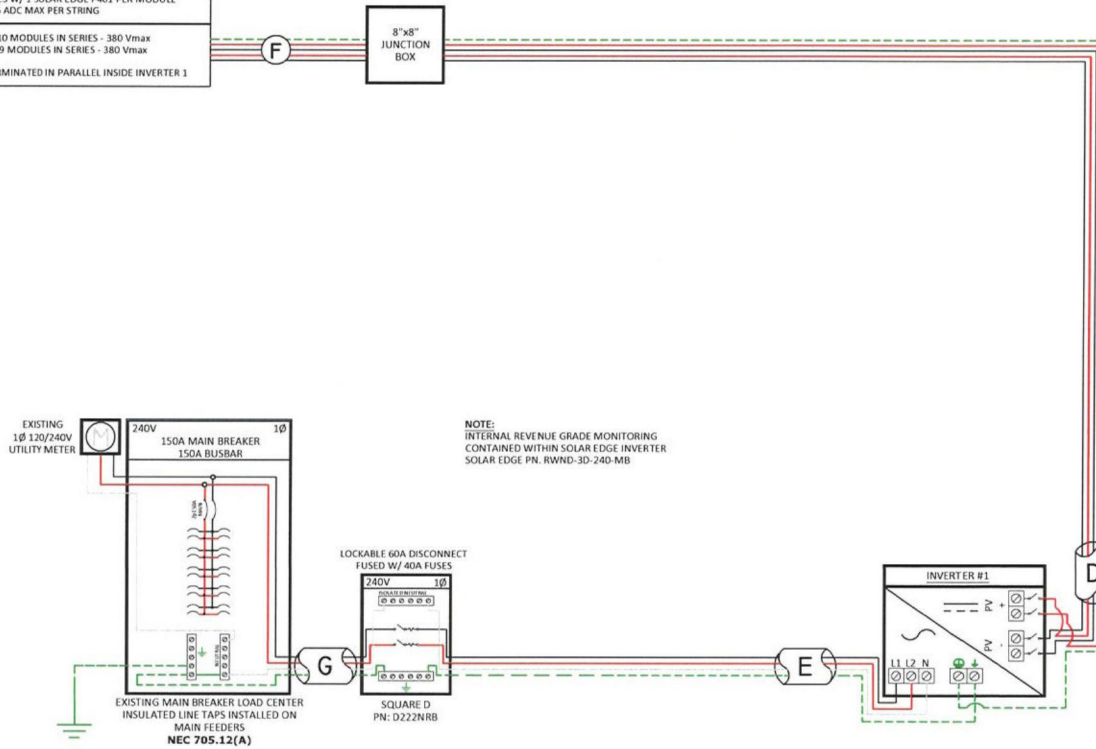
$25.00A \times 1.25 = 31.25A$

-> 40A OVERCURRENT PROTECTION IS VALID

SOLAR MODULES MOUNTED TO ROOF ON 1 ARRAY
 19 - 400W MODULES W/ 1 SOLAR EDGE P401 PER MODULE
 15 ADC MAX PER STRING

1 STRING OF 10 MODULES IN SERIES - 380 V_{max}
 1 STRING OF 9 MODULES IN SERIES - 380 V_{max}

*2 STRINGS TO BE TERMINATED IN PARALLEL INSIDE INVERTER 1



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

LOCKABLE 60A DISCONNECT
 FUSED W/ 40A FUSES

240V 10

SQUARE D
 PN: D222NBB

EXISTING MAIN BREAKER LOAD CENTER
 INSULATED LINE TAPS INSTALLED ON
 MAIN FEEDERS
NEC 705.12(A)

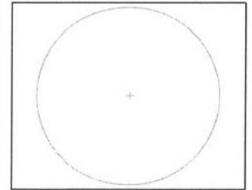
PV MODULE SPECIFICATIONS	
HANWHA 400 (Q, PEAK DUO BLK ML-G10+ 400)	
I _{mp}	10.77
V _{mp}	37.13
V _{oc}	45.3
I _{sc}	11.14

INVERTER #1 - SE6000H-US05HBNCA			
DC		AC	
I _{mp}	16.5	P _{out}	6000
V _{mp}	380	I _{max}	25
V _{oc}	480	OCP _{min}	31.25
I _{sc}	30	V _{nom}	240

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

A	#6 THWN-2 GEC TO EXISTING GROUND ROD
B	3/4" CONDUIT W/ 2-RB THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
C	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND
D	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND
E	3/4" CONDUIT W/ 2-RB 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-RB THWN-2, 1-RB THWN-2, 1-RB THWN-2 GROUND

Engineer / License Holder:



Issued / Revisions

NO.	DESCRIPTION	DATE

Project Title:
 URBINA, ISAAC-
 TRINITY ACCT #: 2021-12-651903

Project Address:
 1454 DIVISION AVENUE
 PISCATAWAY, NJ 08854
 40.595324, -74.42255

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information
 DRAWING DATE: 12/17/2021
 DRAWN BY: RG
 REVISED BY:

System Information:
 DC SYSTEM SIZE: 7.6KW
 AC SYSTEM SIZE: 6KW
 MODULE COUNT: 19
 MODULES USED: HANWHA 400
 MODULE SPEC #: Q, PEAK DUO BLK ML-G10+ 400
 UTILITY COMPANY: PSE&G
 UTILITY ACCT #: 7574202702
 UTILITY METER #: 60763747
 DEAL TYPE: SUNNOVA

Rev. No. Sheet
 P1 PV - 3



2111 Allenwood Road 877-786-7283
 Wall, New Jersey 07719 www.Trinity-Solar.com

EXHIBIT C

ADI Application Number NJADRE1548367818 - Conditional Acceptance

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

Wed 1/26/2022 3:44 PM

To: NJ State Apps <stateapps.nj@trinity-solar.com>



Jan-26 2022

Esmeralda Martinez
 Sunnova Energy Corporation
 P.O. Box 56229
 Houston, TX 77256

ADI Project Number NJADRE1548367818 - Conditional Acceptance

Dear Esmeralda Martinez:

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 NJADRE1548367818. The project has been conditionally accepted with a 7.6 **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 **01/26/2023**.

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 (NJBPU) 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	NJADRE1548367818	Installation Address	1454 DIVISION AVENUE
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			PISCATAWAY, NJ 08854
Premise Contact	ISAAC URBINA	System Size (kW dc)	7.6
Primary Contact (SREC-II Owner)	Esmeralda Martinez	Market Segment	Net Metered Residential

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 01/26/2022. 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:
ISAAC URBINA
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 at 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 notified 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.

External Email: Do not click links or attachments unless you recognize the sender and know the content is safe.

EXHIBIT D

certain types of projects, such as solar projects associated with new construction or community solar. The commenter notes that, in these instances, a utility account may not be established at the time the initial registration package is submitted, and suggests that the Board can require this documentation at a later point in the process. (RECO)

RESPONSE: The Board agrees that where a solar facility is proposed for new construction or for a community solar project, there is no utility bill to provide and developers should so indicate. In the past, registrants have simply provided an explanation that the requirement is not applicable. However, to avoid possible confusion, the Board has inserted the language "if applicable" upon adoption.

15. COMMENT: The commenter believes that the interconnection requirements set forth at proposed N.J.A.C. 14:8-11.5(d)6 should conform to the interconnection requirements of the Board's current interconnection regulations at N.J.A.C. 14:8-5, in order to provide clarity and certainty to developers and the EDCs. (RECO)

RESPONSE: The Board agrees with the commenter that, for a solar electric generation facility to be considered as net metered for purposes of ADI Program eligibility, the facility must satisfy the Board's rules for interconnection at N.J.A.C. 14:8-5. However, the Board does not believe that it is necessary to specify in the incentive program registration rules that projects less than 25 kW must obtain a fully executed Part 1 interconnection agreement to enable registration submission. The Board anticipates that any registrant that does not conform to the interconnection requirements at N.J.A.C. 14:8-5 will not be approved to construct until it addresses such issues independently.

16. COMMENT: The commenter requests that the extension policy at N.J.A.C. 14:8-11.5(i) be modified to allow developers to receive up to one year of extensions upon providing evidence of active and ongoing work on a project, such as permits and purchase orders. According to the commenter, an incentive cliff, whereby additional extensions are available only through "an expensive, time-consuming, and uncertain BPU petition" process have proven unacceptable to investors and resulted in the loss of high-value public sector projects that are often subject to extensive procurement and permitting requirements. (EDF Renewables)

17. COMMENT: The commenter recommends making up to one year of extensions available for SuSI Program participants due to slow permitting processes and ongoing supply chain issues resulting from the COVID-19 public health emergency. Alternatively, the commenter suggests tolling the registration expiration for projects that are pending a decision on a permit. (NJAWC)

RESPONSE TO COMMENTS 16 AND 17: The Board recognizes that the legislatively mandated closure of the SRP, and establishment of the TI Program, and now the creation of the permanent SuSI Program have created challenges for certain developers. The Board likewise appreciates the potential difficulties of developing projects within a set timeframe, but notes that the timeframes in the proposed rules are the product of both an extensive stakeholder process and 20 years of experience New Jersey has with the solar industry. While the time constraints in the closure of the SRP and the interim nature of the TI Program may have prevented the development of some projects, including some in the public sector, New Jersey's thriving solar industry and the amount of installed solar in the State demonstrate that they are not unduly exacting. New Jersey continues to see large amounts of capital being deployed by investors, and the Board commits to continuing to monitor the health of the solar industry. However, requiring that projects reach commercial operation within a set timeframe is critical to the integrity of the solar program as is ensuring that ratepayers receive a return on their investment in solar within a reasonable period. This is particularly true given that the cost of solar continues to decrease significantly over time, meaning that developers have a financial interest in "locking in" today's incentive levels, but delivering solar at some point in the future after costs have declined.

Finally, the Board believes that fact- and developer-specific issues, including those related to supply chain, permitting, or other comparable issues that affect individual developers or projects, can most appropriately be addressed by the Board through fact-specific adjudication. The transparency and public accountability created by the Board's petition process are critical to public confidence that New Jersey is making wise, cost-effective investments in clean energy. The Board disagrees that its petition process is needlessly "expensive" or "time-consuming,"

particularly given the many millions of dollars in solar incentives that entities are often seeking.

18. COMMENT: The commenter opposes proposed N.J.A.C. 14:8-11.5(k), which would allow registrants to increase the capacity of their projects up 10 percent or 25 kWdc, whichever is smaller, subject to the five MWdc program maximum for projects in the ADI Program, by filing a notice with the Board's staff. The commenter asserts that this provision is not consistent with any prior Board-approved solar energy programs and is arbitrary in nature. Allowing such capacity changes, in the commenter's opinion, could lead to additional uncertainty and volatility in the planning and budgeting process contemplated elsewhere in the proposed rules. (Rate Counsel)

19. COMMENT: With respect to proposed N.J.A.C. 14:8-11.5(k), the commenter states that the allowed increase in capacity for individual projects may not have a significant impact on an individual facility basis, but that, if each facility increases its size by the allowable amount, a change in the megawatt blocks may be warranted. Thus, the commenter recommends that the Board include an analysis of these allowable system size increases as part of the establishment of the megawatt blocks applicable to the upcoming energy year, in order to prevent exceedances of the cost caps and the RPS. (RECO)

RESPONSE TO COMMENTS 18 AND 19: The Board's experience in administering the solar programs shows that solar projects are often constructed at sizes that are slightly different than indicated in the project's initial application. Often, these small changes are made to reduce the cost or difficulty in constructing the project, adjust for changes in equipment based on availability, or reduce the impact of the project on the electrical grid, and, therefore, should be encouraged. The Board does not anticipate that many projects will make use of the flexibility provided at N.J.A.C. 14:8-11.5(k) and, thus, does not believe that it will lead to the uncertainty feared by the commenters. The Board also notes that an increase of capacity capped at 25 kWdc is relatively modest in the context of projects that may be as large as five MW. Such minor capacity adjustments have historically been permitted in the SRP and TI Program, in recognition that the final installed solar system may not be exactly identical to the plans presented in the initial registration. Additionally, the Board will close the registration window for a market segment when registrations to that market segment reach the annual capacity allocation. The Board notes that, historically, a certain percentage of registered projects fail to reach commercial operation. The Board expects that the amount of capacity decrease resulting from projects that have registered, but fail to reach commercial operation, will likely be significantly larger than the capacity increase resulting from projects that exercise the option to increase by the maximum allowable 25 kW. In the event that increases in size become common enough to risk increased uncertainty, the Board may revisit this provision and/or the megawatt blocks.

N.J.A.C. 14:8-11.6 New Jersey SREC-II Value

20. COMMENT: The commenter supports the qualification life of 15 years at proposed N.J.A.C. 14:8-11.6(a), stating that it reflects a reasonable balance between the need for stability to keep the cost of providing incentives down and the need to limit the length of time for which ratepayers subsidize solar installations. The commenter also notes that this proposed qualification life is consistent with past Board policies. (Rate Counsel)

RESPONSE: The Board notes the commenter's support for the rule, which is anticipated to encourage investment while limiting overall program costs.

21. COMMENT: The commenter supports proposed N.J.A.C. 14:8-11.6(e), which provides that incentive values for the ADI program would be reset through a Board Order no less frequently than every three years and that, in the absence of such an order, incentives would automatically decrease by 10 percent at the end of three years. The commenter believes that this provision is consistent with the general trend towards decreasing solar installation costs and the Clean Energy Act's mandate to continually reduce the costs of achieving the State's solar energy goals. In addition, the commenter states that the requirement to actively review incentive values every three years, subject to automatic decrease if the Board does not act, will help to provide financial discipline to the ADI program and, over the long run, reduce New Jersey ratepayer costs. (Rate Counsel)