2024 SUSTAINABILITY SUMMIT

New Municipal Roles in Supporting Solar Development

May 3, 2024

CEU SIGN IN

SCAN ME

QR CODE INSTRUCTIONS:
1.Open the Camera app on your phone.
2.Hold your phone so that the QR code appears in view.
3.Tap the notification to open the link.
4. You **MUST** Sign in to receive CEU credits.

WIFI INFORMATION: 2 Open Networks
1.sustainablenj: Ballroom, GS3, Nonprofit Exhibit area
2.Bell_Works_Conf_Center: Bell Theatre & Conference

SUSTAINABLE JERSEY COLLECTIVE IMPACT

91%
OF NJ POPULATION LIVES IN A **REGISTERED OR CERTIFIED COMMUNITY**

83%
OF MUNICIPALITIES **PARTICIPATING**

67%
of NJ public school districts registered with Sustainable Jersey for Schools

198 MUNICIPALITIES CERTIFIED

68 SILVER CERTIFIED | **130** BRONZE CERTIFIED

337 SCHOOLS CERTIFIED

44 SILVER CERTIFIED | **293** BRONZE CERTIFIED

25,569
SUSTAINABILITY ACTIONS COMPLETED by both municipalities and schools

$7.9 MILLION
IN GRANTS FOR MUNICIPALITIES, SCHOOLS & SCHOOL DISTRICTS

Statistics

2009
Program
Started

83%
Participating

91%
Population

130
Certified

68
Certified

5 Stars

16,710
Actions
Implemented

Statistics current as of 4/22/24

Agenda

New Jersey Community Solar program
Sawyer Morgan, New Jersey Board of Public Utilities

SolarAPP+ -- US Permitting Solution
Stephen Pope, Solar Energy Industries Association (SEIA)

Solar Resources
Tracey Woods, Sustainable Jersey

Q and A

Sustainable Jersey Energy Actions

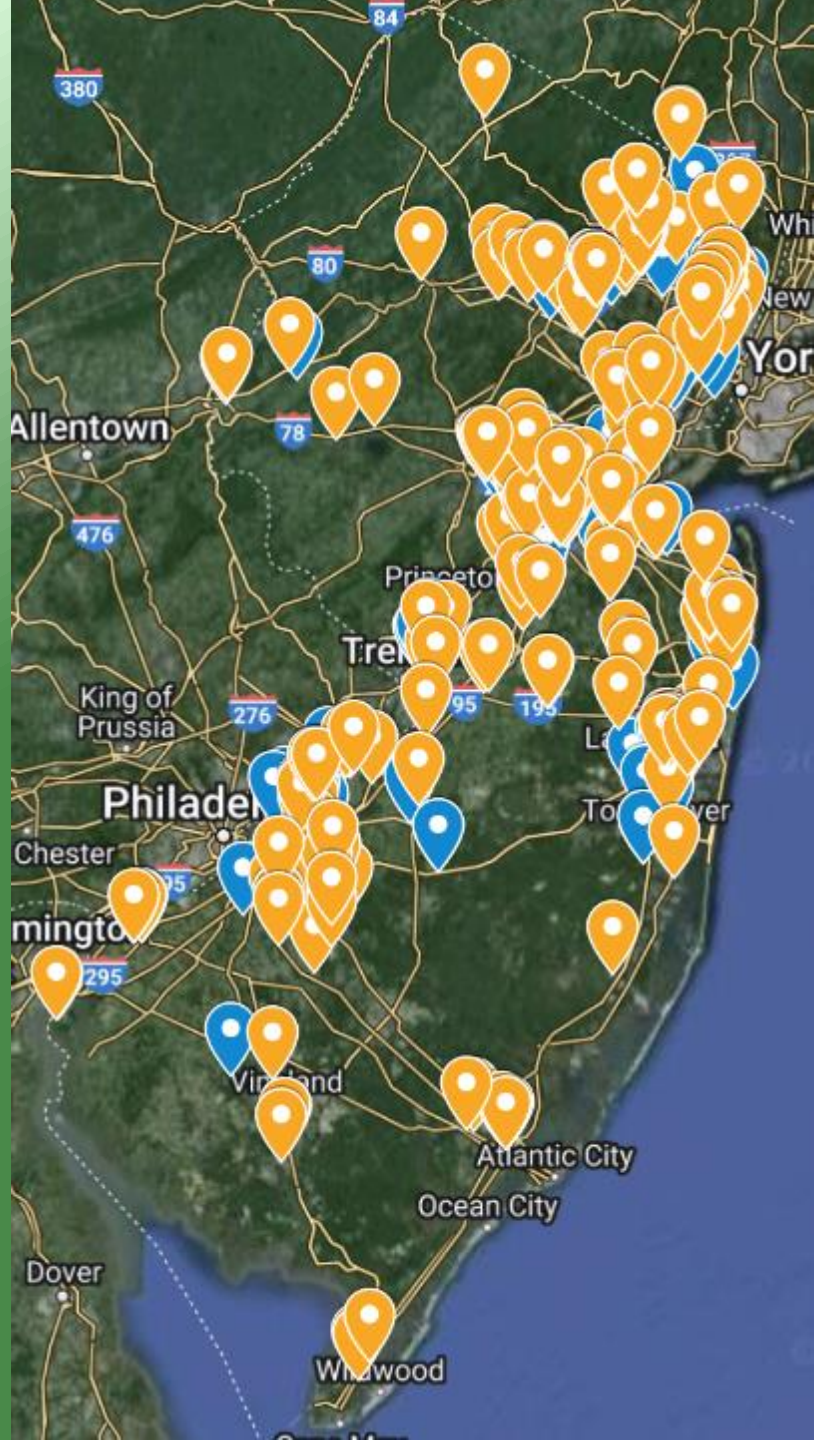
	Energy Efficiency	Renewable Energy	Alternative Fuel Vehicles
Municipal Operations	• Energy Efficiency for Municipal Facilities • Energy Tracking and Management	• On-Site Geothermal • On-Site Solar +10 pt storage/resilience +5 pt solar thermal • On-Site Wind • Buy Renewable Energy	• Fleet Inventory • Purchase Alternative Fuel Vehicles • Meet Green Fleet Targets
Community Energy Use	• Energy Assistance Outreach • Commercial Energy Efficiency Outreach • Residential Energy Efficiency Outreach	• Make Your Town Solar Friendly • Municipally Supported Community Solar • Solar Outreach • Renewable Government Energy Aggregation (R-GEA)	• Make Your Town Electric Vehicle (EV) Friendly • Public EV Chargers • Electric Vehicle Outreach

SUSTAINABILITY SUMMIT

New Jersey's Community Solar Program

May 3, 2024

Sawyer Morgan, Ph.D.
Research Scientist, Division of Clean Energy
New Jersey Board of Public Utilities



New Jersey's Community Solar Energy Program

April 2024

Community Solar: What is it?

NJCleanEnergy.com/COMMUNITYSOLAR

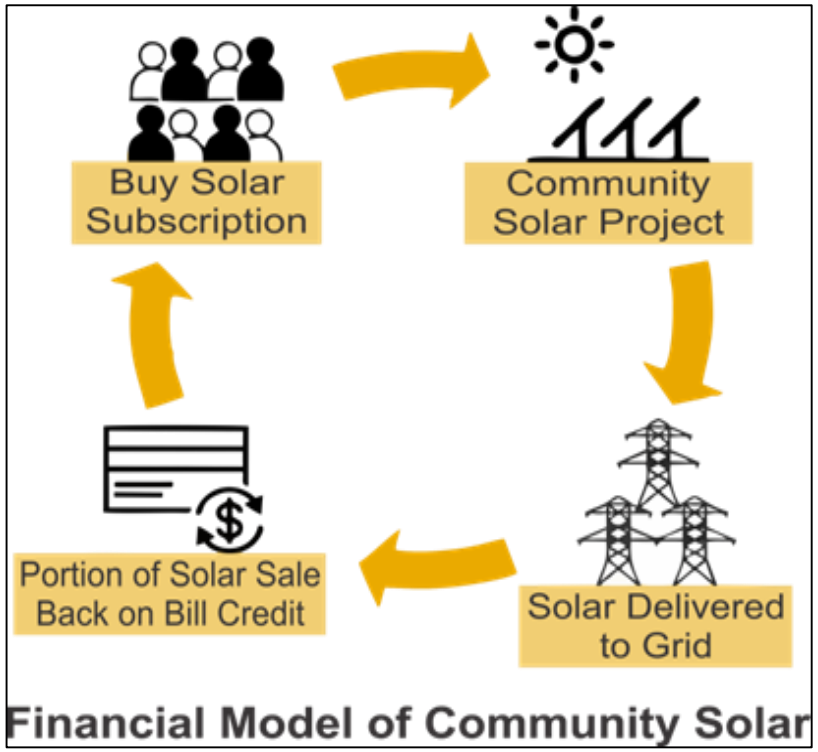
Perth Amboy Community Solar Project

- A large remotely located solar array that is virtually divided among multiple participants (subscribers) by means of a credit on their utility bills.
- Enables access to solar energy for those who have not been able to install solar, including renters and households, institutions, or businesses where the roof isn't appropriate for solar installation, or solar is cost-prohibitive.

Community Solar: What is it?

NJCleanEnergy.com/COMMUNITYSOLAR

- Most community solar subscriptions structured to result in 10 – 30% savings
- Many projects offer low- and moderate-income residents a higher percentage of savings



Financial Model of Community Solar

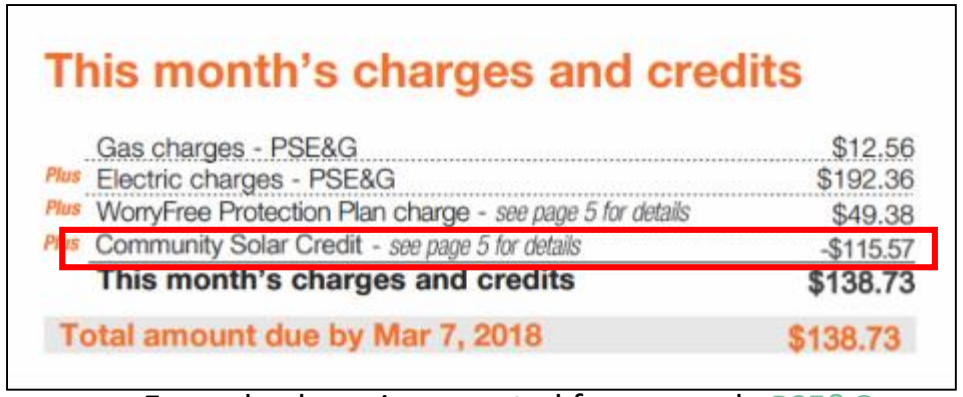
Subscribing to a project

NJCleanEnergy.com/COMMUNITYSOLAR

1. Potential subscriber picks a community solar project to subscribe to

2. Subscriber receives a community solar billing credit on their electric bill

3. Subscriber receives separate bill for community solar subscription fee



This month's charges and credits

	Gas charges - PSE&G	$12.56
Plus	Electric charges - PSE&G	$192.36
Plus	WorryFree Protection Plan charge - *see page 5 for details*	$49.38
Plus	Community Solar Credit - *see page 5 for details*	-$115.57
	This month's charges and credits	**$138.73**
	Total amount due by Mar 7, 2018	**$138.73**

Example above is excerpted from sample PSE&G residential bill showing community solar billing credit.

EXAMPLE COMMUNITY SOLAR INVOICE

Community Solar billing credit from electric bill	$115.57
% of the billing credit retained by the customer, in this example 20%.	- $23.11
Fee for Community Solar Subscription	$92.45

Subscribing to a project

NJCleanEnergy.com/COMMUNITYSOLAR

My Community Solar Status

		Community Solar		
Date	kWh you used	Carryover from previous months	kWh credit received	Applied to Bill
Nov-17	850	0	550	550
Dec-17	900	0	650	650
Jan-18	971	0	750	750
Feb-18	1071	0	800	800

Community Solar Delivery Credit	800 kWh x $0.030621	$	(24.50)
Community Solar Supply Credit	800 kWh x $0.113846	$	(91.08)
Total Community Solar Credit		**$**	**(115.57)**

Your Community Solar

Each month you are billed for your monthly usage, and you receive a kWh allocation based on your subscription percentage and the solar facility's monthly generation.

Your monthly allocation is limited to your monthly usage amount. Any credit in excess of your usage will be carried over to a future month's bill.

Annually kWh not applied to prior bills will be credited at the avoided cost of power.

Details of your Electric Charges

Residential Service - service number 0500 0000 0000 7000 0000 00
Electricity you used this period

Meter Number Energy Type	Current Reading	Previous Reading	Difference	Multiplier	Total Use
1ND333333333	Oct 1	Aug 31			
Use (kWh)	011496 (actual)	010881 (actual)	615	1	615

Your next meter reading is scheduled for October 28, 2021

Community Solar Bill Credit: These credit reflect the kWh allocation you receive based on your subscription percentage and the solar facility's monthly generation.

Subscriber Organization	Applied Credit kWh	Rate Per kWh	CS Credit
ACE EX01	463	0.157996-	73.15-

Electric Summary

Balance from your last bill	**$134.00**
Community Solar Credit	$73.15–
Changes to electric balance	**$73.15–**
Payment Sep 12	$134.00–
Total Payments	**$134.00–**
Electric Charges (Residential Service)	$125.19
New electric charges	**$125.19**
Total amount due by Oct 22, 2021	**$52.04**

Community Solar Pilot Program

NJCleanEnergy.com/COMMUNITYSOLAR

- Two program years, with awards made in 2019 and 2021
  - The Board awarded 150 projects totaling 243 MW
    - 102 projects with 141 MW have come online
    - 16 projects with 51 MW are still in construction
- The Board elected to forego PY3 and develop the permanent Community Solar Energy Program

Mount Laurel – Photo courtesy Solar Landscape

Community Solar Energy Program

NJCleanEnergy.com/COMMUNITYSOLAR

- Permanent program established by the Board on August 16, 2023
- Registration opened November 15, 2023
- 225 MW made available, divided among EDCs
- 224 projects with 225 MW accepted so far
- The Board will open an additional 275 MW on May 15

Linden Hawk Rise Solar, Linden – Navisun

CSEP eligibility

NJCleanEnergy.com/COMMUNITYSOLAR

Siting
• Projects may be sited on: • Rooftops   • Carports and canopies over impervious surfaces   • Contaminated sites and landfills   • Man-made bodies of water that have little to no established floral and faunal resources (floating solar)   • Mining sites (sand mines, gravel pits, former mines)

Solar Landscape

Sunwealth/Citrine/Pfister

Navisun

New Jersey Resources

CSEP eligibility

NJCleanEnergy.com/COMMUNITYSOLAR

Size and co-location
• Maximum size is 5 MW • May co-locate with net-metered projects • May be on separate buildings on different properties

Project registration process

NJCleanEnergy.com/COMMUNITYSOLAR

Tri-County Landfill Solar Farm, Delanco – Soltage/AC Power

Project registration process

NJCleanEnergy.com/COMMUNITYSOLAR

Maturity requirements
• Conditional approval to install from the utility • All discretionary permits applied for • Subscriber acquisition and community engagement plan   • Letter of support from municipality • For contaminated sites and landfills, NJDEP verification of eligibility with BPU certification, permit readiness checklist • Refundable escrow of $40,000 per MW to ensure project completion

Project registration process

NJCleanEnergy.com/COMMUNITYSOLAR

Application and project selection
• Online portal registration • First-come, first-served • If more projects apply in the first two weeks than there is capacity, a tiebreaker will be used   • Projects with highest bill credit offered to subscribers will be accepted   • Was 31.02% in PSE&G

Standards for Subscribers

NJCleanEnergy.com/COMMUNITYSOLAR

South Brunswick – Nexamp

LMI Participation

NJCleanEnergy.com/COMMUNITYSOLAR

Low- to moderate-income households
• All projects must have 51% of capacity subscribed by LMI subscribers. • LMI households have income below 80% of area median income. • LMI status may be verified with participation in assistance programs, residence in certain census block groups, and self-attestation.

LMI participation

NJCleanEnergy.com/COMMUNITYSOLAR

Affordable/master-metered housing
• Master-metered affordable housing may qualify as LMI by providing an affidavit that they are passing on benefits to residents • Affordable housing providers receive special bill credit to incentivize participation

Billing

NJCleanEnergy.com/COMMUNITYSOLAR

Bill savings
• Subscribers will receive at least the project's guaranteed bill credit savings rate • Bill credit savings rate must be a minimum of 20%

North Brunswick – Solar Landscape

Billing

NJCleanEnergy.com/COMMUNITYSOLAR

Consolidated billing
• Coming in January 2025 • Utility consolidated billing will reduce customer confusion and hassle of two bills • Residential subscribers are billed with the net crediting method.   • The bill discount rate is applied to the applicable portion of the bill.   *Applied bill credit x guaranteed savings rate = net credit*   *Customer bill total – net credit = final amount billed* • Consolidated billing is a prerequisite to automatic enrollment.

Automatic enrollment

NJCleanEnergy.com/COMMUNITYSOLAR

Automatic enrollment
• Municipalities would be able to automatically enroll residents to a project they own or partner with within 15 miles • The public entity may select residents to enroll, and 80% of the capacity must be LMI. • Residents must have the opportunity to opt out of subscribing • Coming in 2025

Community Solar Project Finder

NJCleanEnergy.com/COMMUNITYSOLAR

The New Jersey Board of Public Utilities partnered with Sustainable Jersey to develop the New Jersey Community Solar Project Finder.

SustainableJersey.com/communitysolar

Community Solar Project Finder

NJCleanEnergy.com/COMMUNITYSOLAR

New Jersey Community Solar Project Finder includes:

- Overview of Community Solar Program
- List of projects accepting subscribers
- Community solar FAQs

SustainableJersey.com/communitysolar

New Jersey Community Solar Project Finder

Enter your zip code to see projects serving your community:

Enter a value

Enter your zip code to see a list of community solar projects that are available in your municipality.

Some zip codes may not overlap perfectly with municipal boundaries. Community solar project sign-ups are by municipality, please check the chart to verify your eligibility.

Community solar subscribers can only subscribe to a project located in their electric utility service territory.

Not sure what some of the terms included in the chart below mean? See the glossary of common community solar terms.

Project Name Subscriber Organization Developer Project Description	Link to Project Website	Date Project Operational	Eligibility Requirements	Estimated Percent Customer Savings*	Subscription Contract Terms	Electric Utility Service Territory	Municipalities Served by Project
Emerald City Solar Subscriber Organization: Subscibex LLC Project Developer: Solar Builder, Inc. Project Description: 3.3 MW Solar array on Sesame Street	Click here for more information and sign up.	projected to be operational 02/25/2023	Credit check required? NO Automated payment required (credit/debit card)? YES Is project open to residents who live in master-metered buildings? YES	All customers 20% LMI customers 25%	Subscription contract length: 1 year Deposit or subscription fee: None Is there a fee to leave project during contract period? No fee to leave the project with 30-day notice Does percentage of savings change over life of contract? NO	Atlantic City Electric	Emerald City, West Emerald City
Good Guys Solar for All Subscriber Organization: Subscibex LLC Project Developer: Solar Builder, Inc. Project Description: 2.3 MW Solar array on Emerald City Brownfield Site	Click here for more information and sign up.	operational since 1/1/2023	Credit check required? NO Automated payment required (credit/debit card)? YES Is project open to residents who live in master-metered buildings? NO	All customers 15% LMI customers 20% Emerald City Seniors 20%	Subscription contract length: 2 years Deposit or subscription fee: None Is there a fee to leave project during contract period? No fee to leave the project with 30-day notice Does percentage of savings change over life of contract? NO	PSE&G	Emerald City, South Gotham
Gotham Solar Project Subscriber Organization: Find Customer, LLC Project Developer: Solar Builder, Inc. Project Description: 2.3	Click here for more information and sign up.	operational since 7/1/2022	Credit check required? YES Automated payment required (credit/debit card)? YES Is project open to residents who live in master-metered buildings? NO	All customers 10% LMI customers 15%	Subscription contract length: 2 years Deposit or subscription fee: None Is there a fee to leave project during contract period? No fee to leave the project Does percentage of savings change over	PSE&G	Gotham, South Gotham

Solar For All

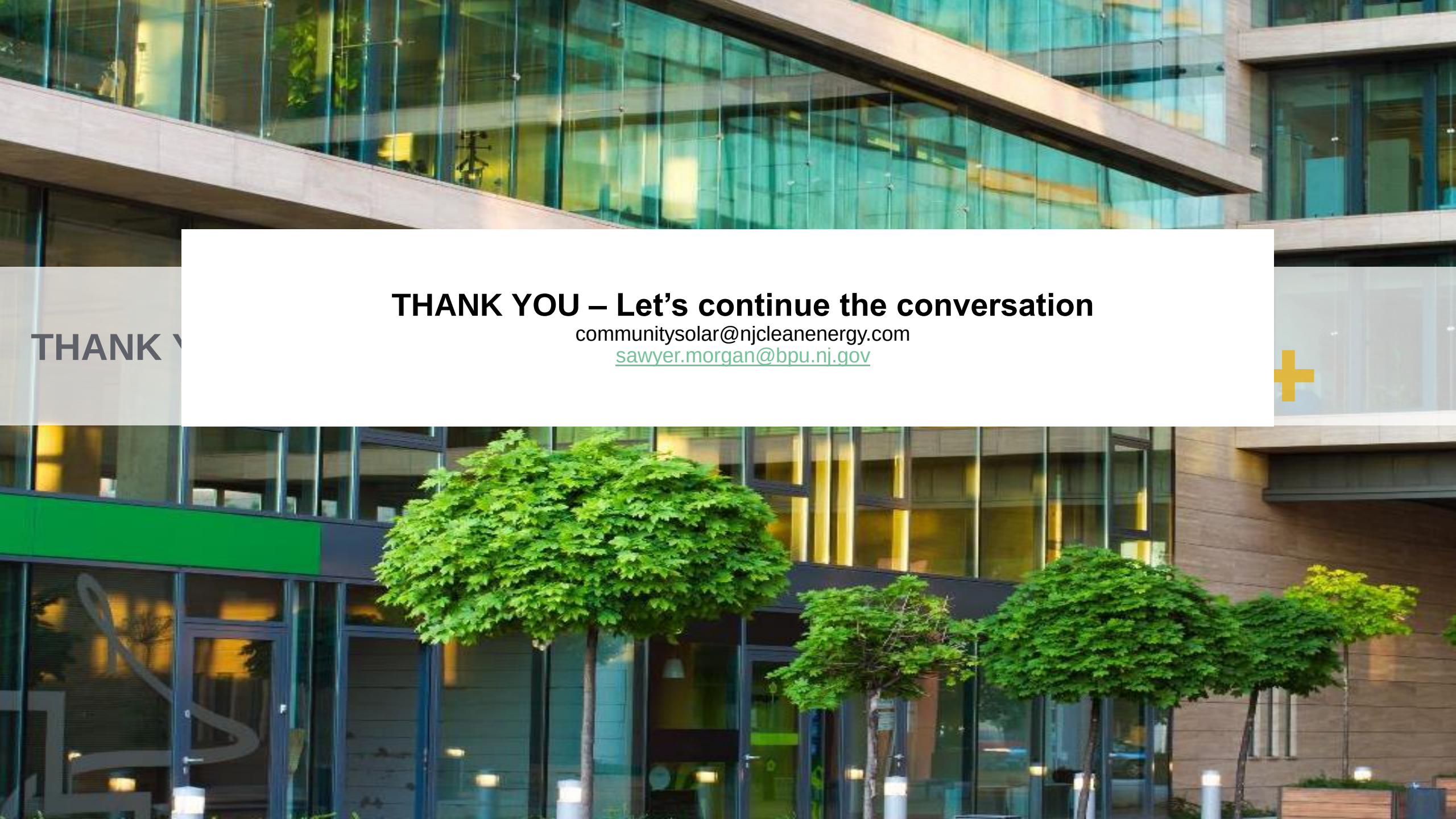
NJCleanEnergy.com/COMMUNITYSOLAR

NJBPU has been awarded $156 million through the GGRF Solar For All program

Four funding priorities:

- Low-income residential rooftop solar
- Multi-family housing solar and storage
- Community solar
- Technical assistance and workforce development

Developing program for 2025 launch



THANK YOU – Let’s continue the conversation

communitysolar@njcleanenergy.com
sawyer.morgan@bpu.nj.gov

SUSTAINABILITY SUMMIT

SolarAPP+ The Emerging US Permitting Solution

May 3, 2024

Stephen Pope
SolarAPP+ Outreach Manager Solar Energy Industries Association (SEIA)

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

SolarAPP+

A Few Questions Before We Get Started

Everyone, please answer these questions in the chat as you join:

- What Jurisdiction/organization do you represent?
- What does your current permit process and fee collection system look like?
  - Using Accela, EnerGov, etc.? Mail, email, in-person only?

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

SolarAPP+

SolarAPP+
The Emerging US Permitting Solution

SolarAPP+

NREL
Transforming ENERGY

SolarAPP+ is a standardized plan review software *that can run compliance checks and process building permit approvals for eligible rooftop solar systems.*

The tool was developed through a collaborative effort to accelerate rooftop solar adoption by making it easier for local governments to quickly and safely approve rooftop PV projects for installation

SolarAPP+ Eligibility

SolarAPP+ can cover standardized systems as defined here.

Current Support Parameters

- Residential PV
- Approved equipment
- NEC 2017 & 2020
- 2018 & 2021 i-Codes
- Bus <225A
- Service <400A
- PV systems <4PSF
- Single phase utility supply
- No wood shake roofs
- No metal roofs w >15PSF snow load
- Main panel upgrades
- California's Title 24

Support In Progress

- Residential storage
- Roof Tiles
- Add-ons for existing systems

Planned

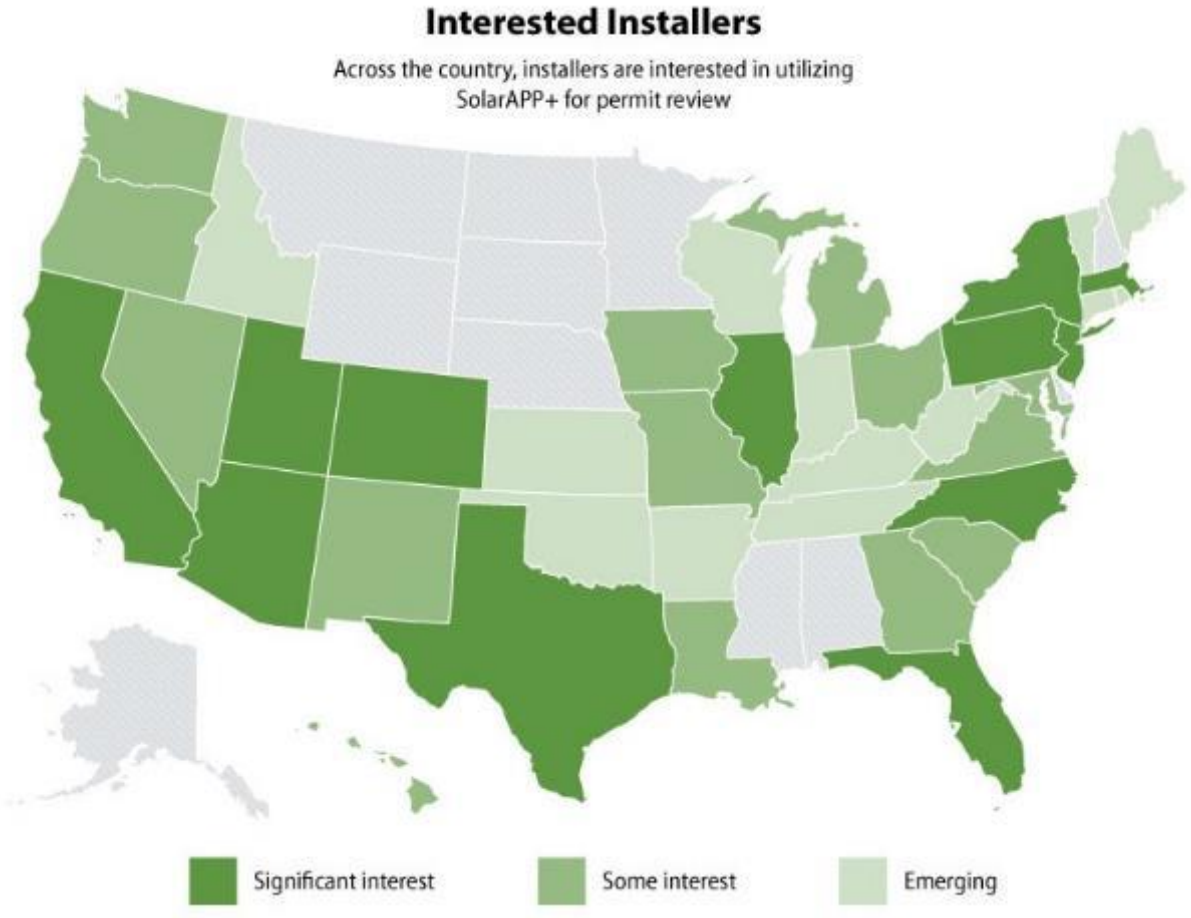
- EV chargers, electric appliances, and more…

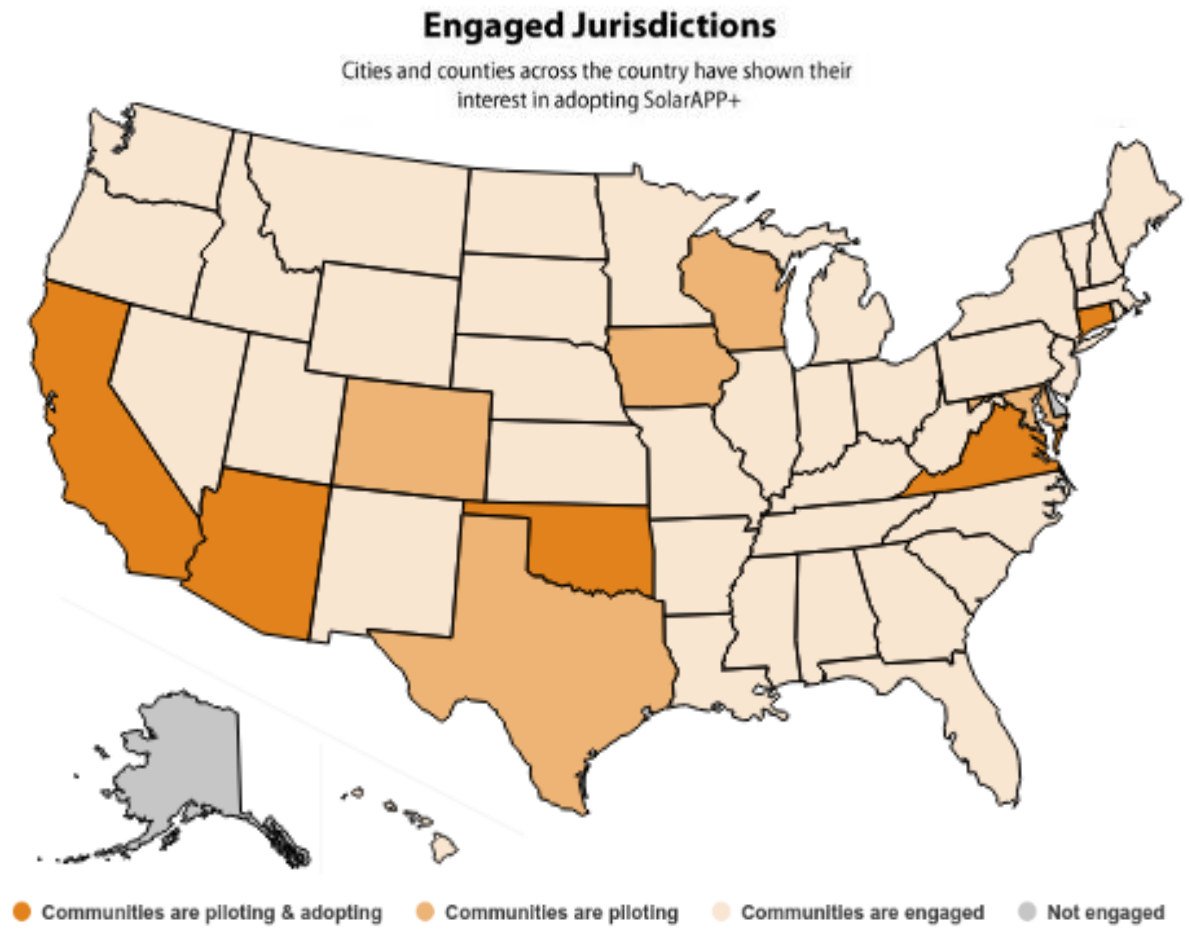
Let us know what you'd like to see next!

What does SolarAPP+ Check?

- Validates Equipment listings
  - UL 1741 for Inverters
  - UL 61730 1/2 or UL 1703 for modules
  - UL 9540 for Energy Storage Systems (ESS)
  - UL 2703 for specific racking and module combinations
    - Grounding and bonding
    - Fire Classification
  - Utility Interconnection rule 21
- Verifies circuit parameters by calculating:
  - PV Source circuit string voltage with temperature correction
  - PV Source circuit ampacity with high irradiance factor
  - Inverter Max AC output current
  - Combined Inverter Max AC output current
  - Wire ampacity
  - Minimum wire size
  - Minimum overcurrent protective device rating
- Locates project address in a jurisdiction
  - AHJ Registry
- Considers local design criteria for every address
- Calculates PV array area to inform ridge setbacks
- Checks ESS for
  - Individual unit rating
  - Location
  - Maximum aggregate ratings by location
  - Minimum Spacing of individual units
  - Load Calculations for backup panels
  - Mounting
    - Restrictions for seismic zones
  - Approved Fire Detection solutions
- Ensures proper interconnection of power production sources at every busbar and conductor within the circuit per NEC article 705

Interest in SolarAPP+





Tucson's Experience with SolarAPP+

- 10,200 PV permits issued to date
- 30,000+ kW approved via SolarAPP+
- Over 10,000 hours of staff time saved in plan review
- SolarAPP+ features: PV, PV+ST, MPUs, MPDs

"The permitting process was taking four weeks. Now with SolarAPP+ we give a permit the same day. We just approved about 450 installations in the last 60 days alone."

- Tucson Mayor Regina Romero

SolarAPP+ Pilot Statistics

36,800+

Residential rooftop PV permits approved to date, including 6,500+ revisions

7,600+

Permits approved to date for Solar+Storage projects

By providing instantaneous review SolarAPP+ has reduced the average permit review time to

less than 1 day

saving local government staff over **35,000 hours** in review

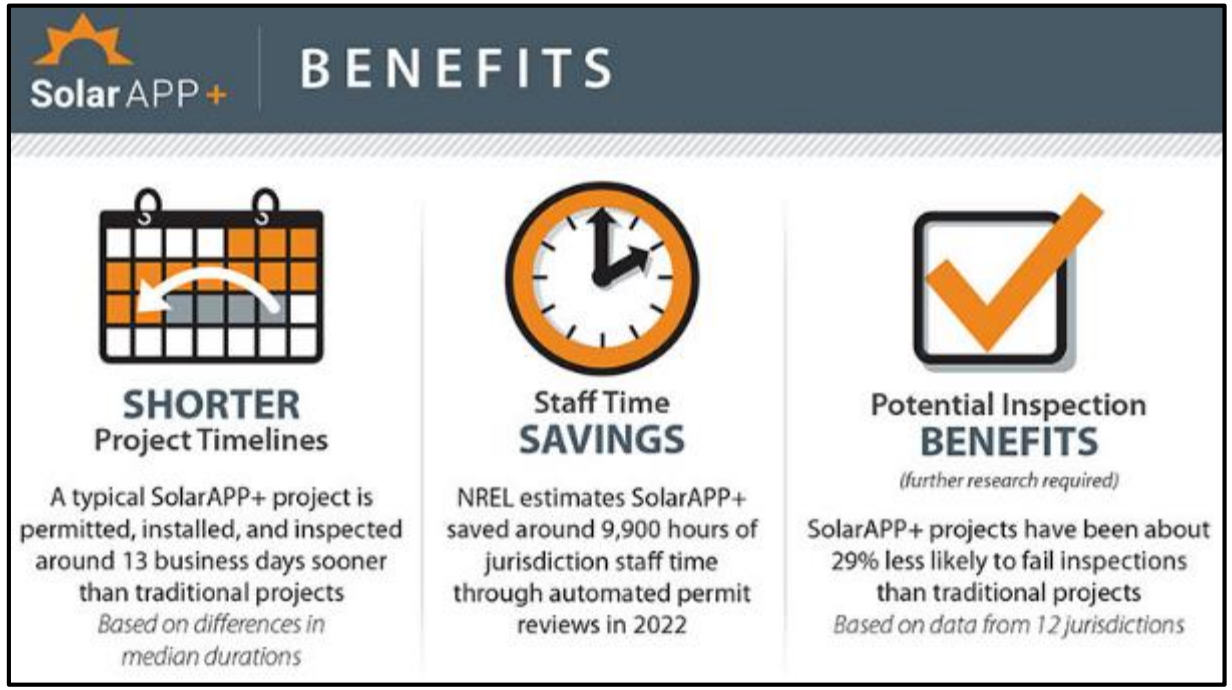
No time added

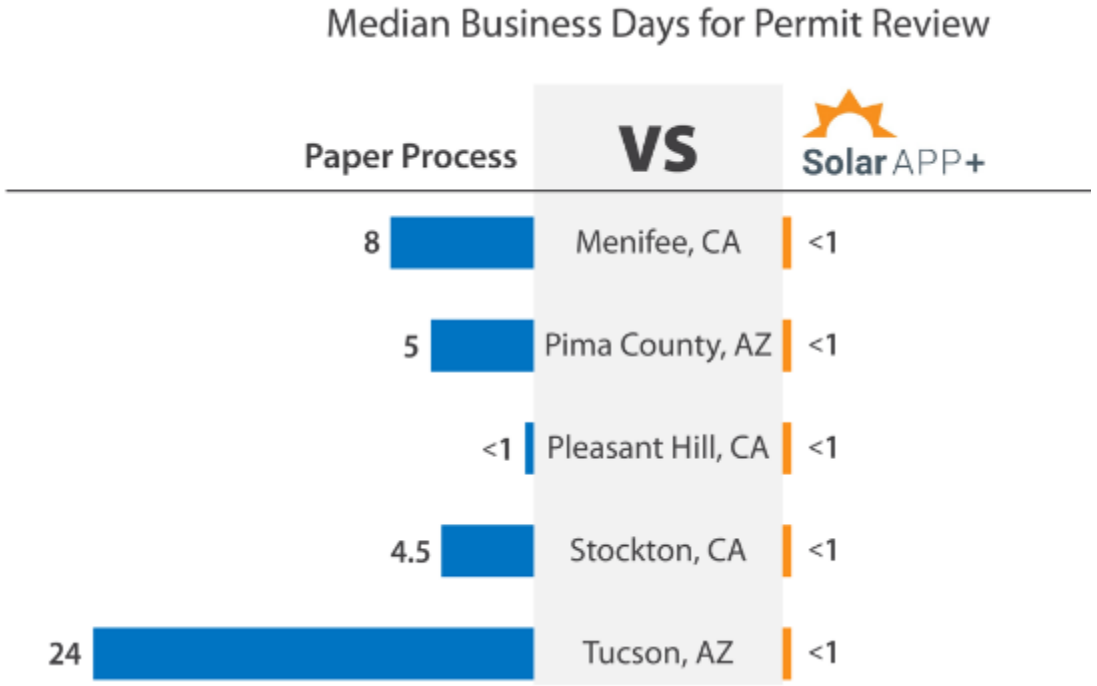
to inspections of PV systems in the field, with improved inspection passage rates from traditional inspections!

Projects submitted through SolarAPP+ were installed and inspected

13 days faster

on average than projects using the traditional process





SolarAPP+ Flow

Installer submits an application with design specifications through SolarAPP+

1

2

SolarAPP+ checks the application to ensure the system design is code compliant

3

Code compliant applications are issued a permit *instantly* after fee payment

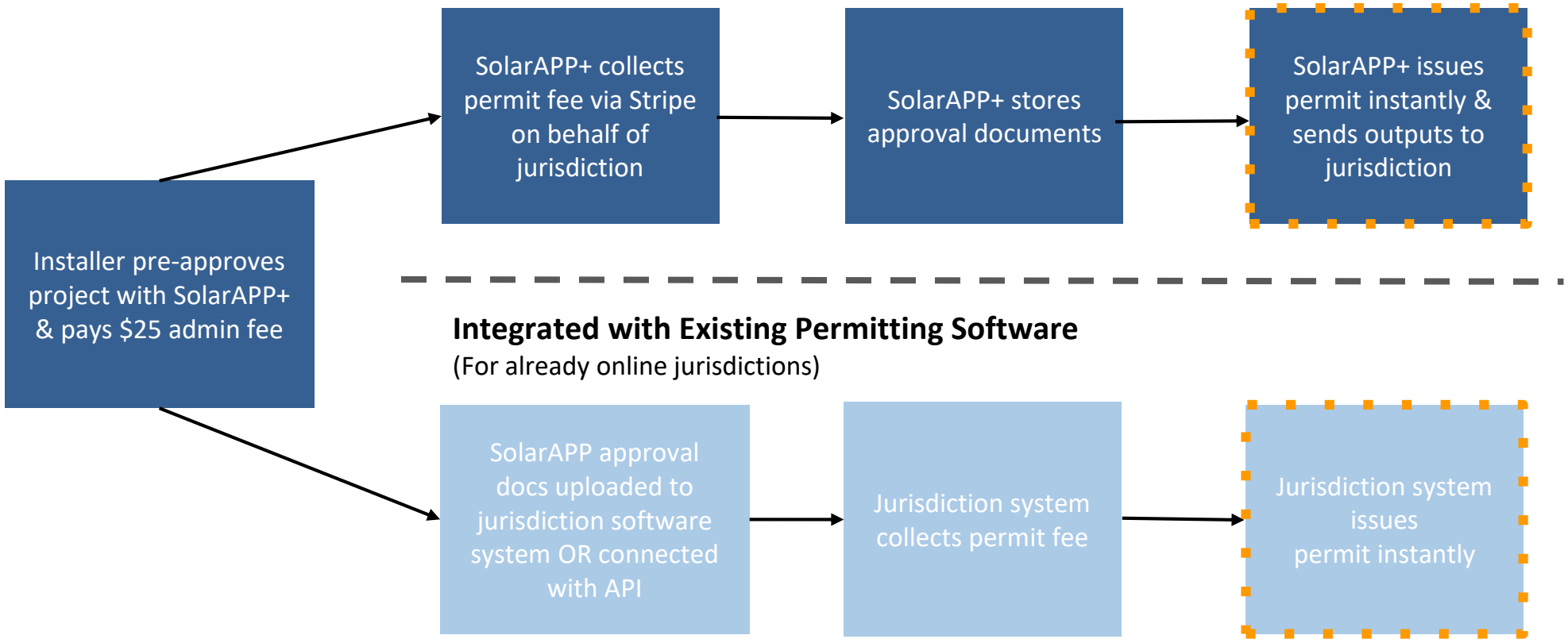
(Review sample approval docs here)

Adoption Options

SolarAPP+ Software

Existing Software

Stand Alone SolarAPP+
(For email and in-person jurisdictions)



Four Steps to Adopting SolarAPP+

SolarAPP can be set up to:

- ***integrate*** *with your existing online permitting software*
- **stand alone** as a complete online permitting solution

These include:

- Permitting contacts
- AHJ boundaries
- Local environment variables
- Model code years
- Terms & conditions
- **Other customizations**

Customization in SolarAPP+

The Local Government may activate the following during the onboarding process or at any time afterwards.

- Fire Bulletin Appendix
- Project Valuation to calculate permit fees
- Workers Comp upload
- Upload a Utility Interconnect Agreement
- Select Building code Edition
- Select Electrical code edition

- Enable Fault Calculations
- Allow Main Panel Upgrades
- Allow Main Breaker derates
- Allow new Sub Panels
- Enforce a Rigid supply-side connection conduit rule
- Allow PCS Functionality

- Require prescriptive structural checks
- Require a Structural Observation letter
- Enable Structural DB
- Require pre-approval of racking products
- Require Flashing approval

- Enable Electrical diagrams
- Allow NEC 2020 MLO panel exception
- Disable UL 9540A reduced spacing

- Assign Local Weather variables
- Block addresses that exceed specified snow load
- Block addresses that exceed specified wind speed
- Block addresses with specific zoning

- Allow for local ordinances
- Allow for local geographic, climatic, environmental,

Four Steps to Adopting SolarAPP+

Select the Right Integration

SolarAPP can be set up to:

- ***integrate*** *with your existing online permitting software*
- **stand alone** as a complete online permitting solution

Input Local Settings

These include:

- Permitting contacts
- AHJ boundaries
- Local environment variables
- Model code years
- Terms & conditions
- **Other customizations**

Setup Instant Permit Workflow

Depending on your integration, either:

- Set up an instant permit application in your software
- Set up permit payments in SolarAPP

Launch

This involves:

- Inviting 1-3 installers to use your SolarAPP permitting process
- Opening up SolarAPP+ permitting to all installers

Next Steps

- Start registration at solarapp.nrel.gov/register
- Email contact: team@solar-app.org
- Explore out our FAQs for set-up:

General	Standalone Method	Integration Method
Registration bit.ly/3Yr5vKY	**Stripe Set-Up** bit.ly/43Vl0vS	Accela Set-Up: bit.ly/45hgFnK EnerGov Set-Up: bit.ly/3rZqcBv E-TRAKiT Set-Up: bit.ly/3YqQB7n

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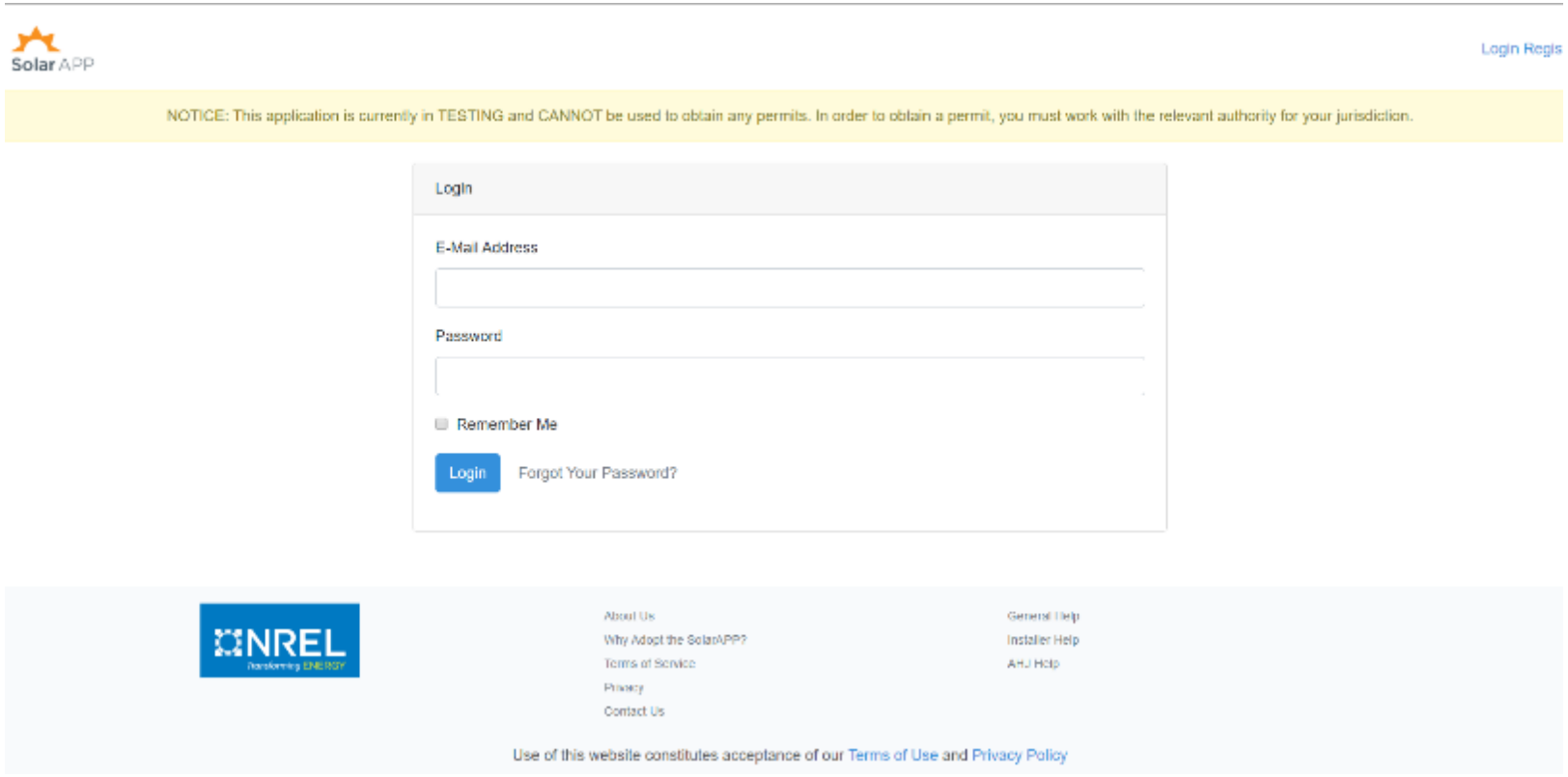
SolarAPP+

SolarAPP+
The Emerging US Permitting Solution

Next Steps

SolarAPP Demonstration

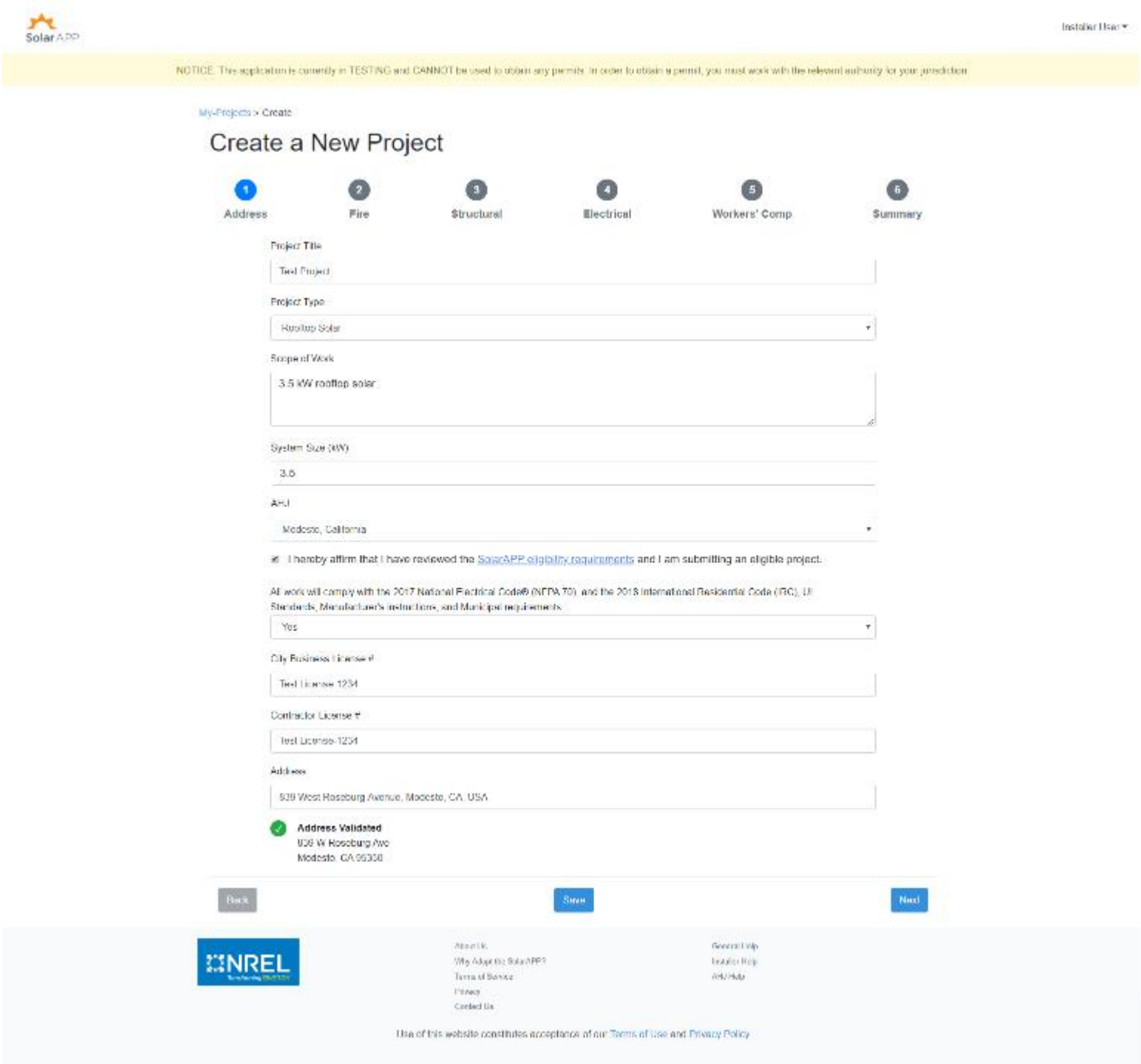
Registering and Logging In



- Registration Process
  - Onboarding with NREL and verification of authenticity
- Log-in (stand alone or plug-in)
  - Email and password

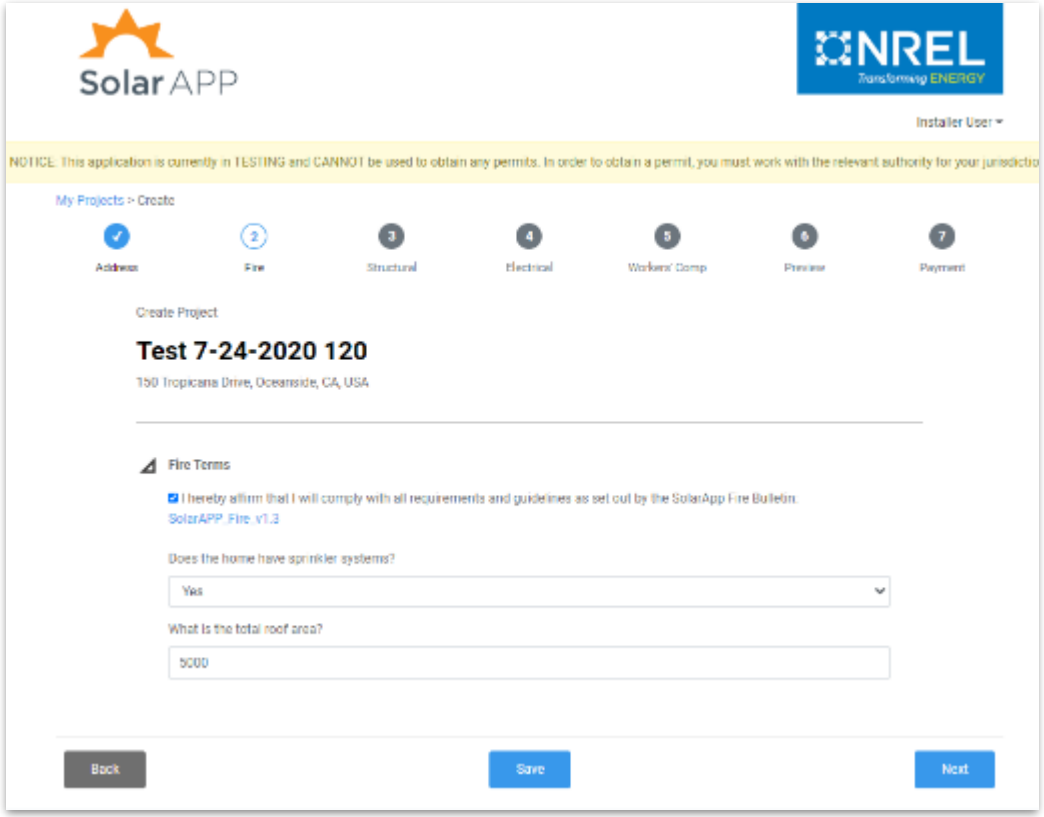
Address

- Inputs
  - Project Information
  - Location
  - Licensing
  - Address validation
- Review SolarAPP eligibility

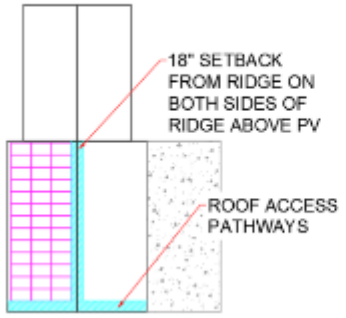


Fire

- Disconnecting Means
- Signs, Placards, Directories, and Marking
- Roof Access, Egress, and Ventilation



Ridge Setbacks - PV Less Than 33% Roof Area (66% for homes with sprinkler systems)



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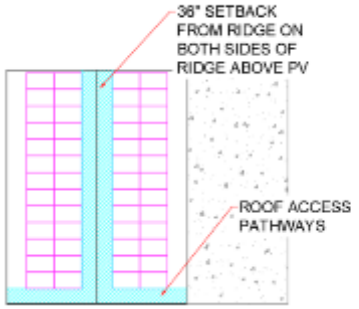
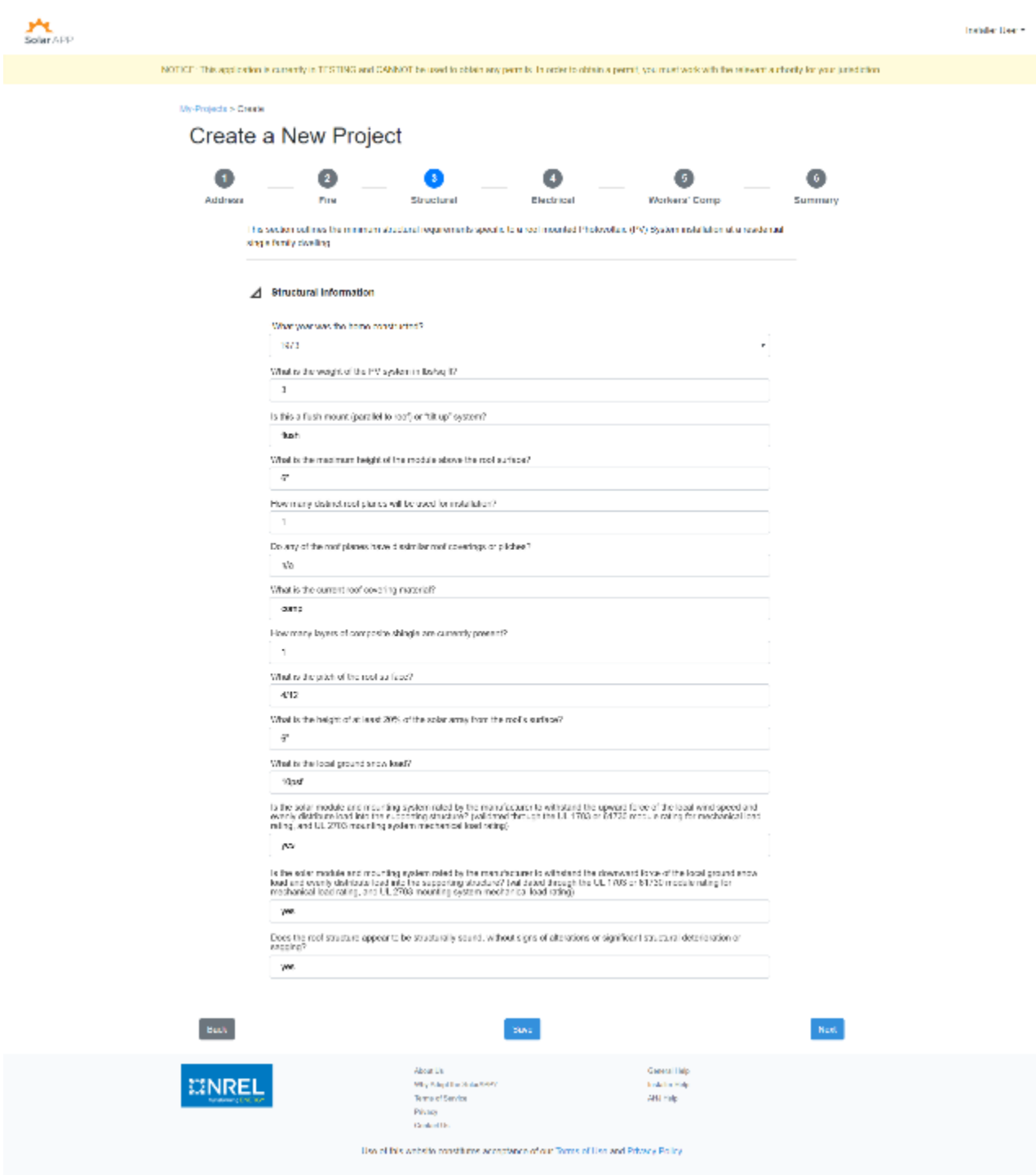


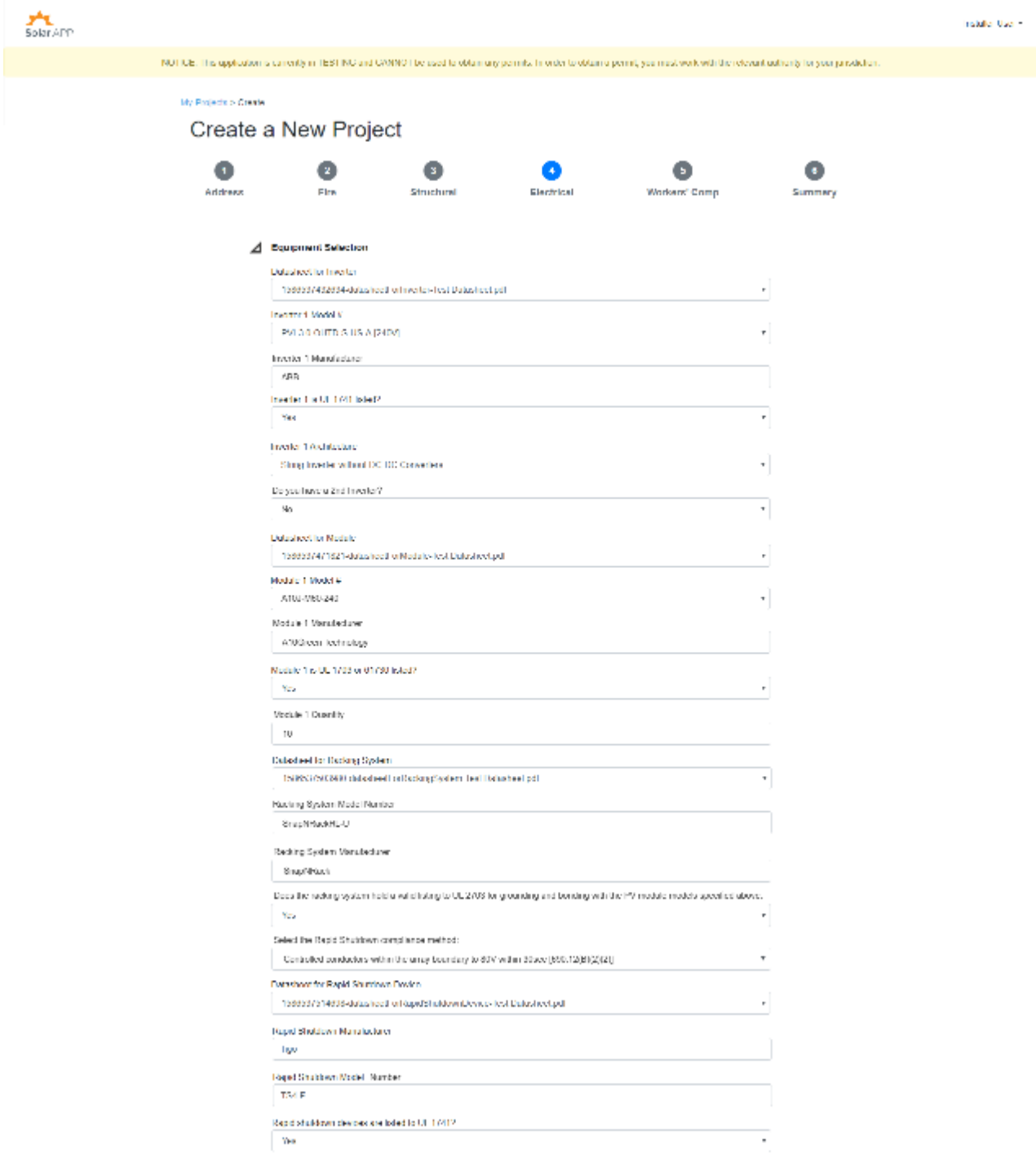
Structural

- Home age
- Roof pitch
- Roof structure and covering
- Module height/weight
- Snow load
- Wind speed



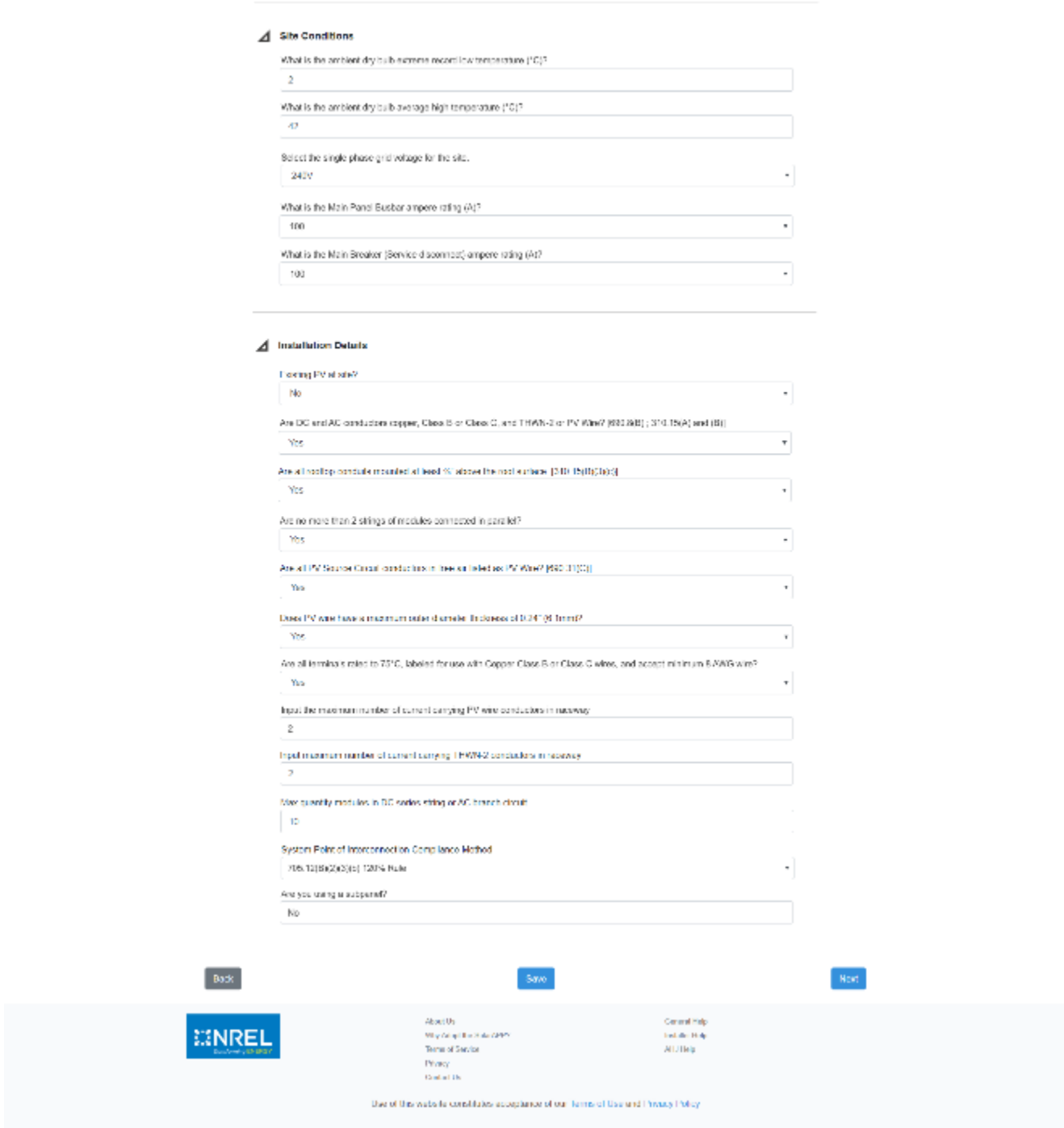
Electrical

- Equipment inputs
  - Inverter
  - Module
  - Racking
  - Rapid shutdown method



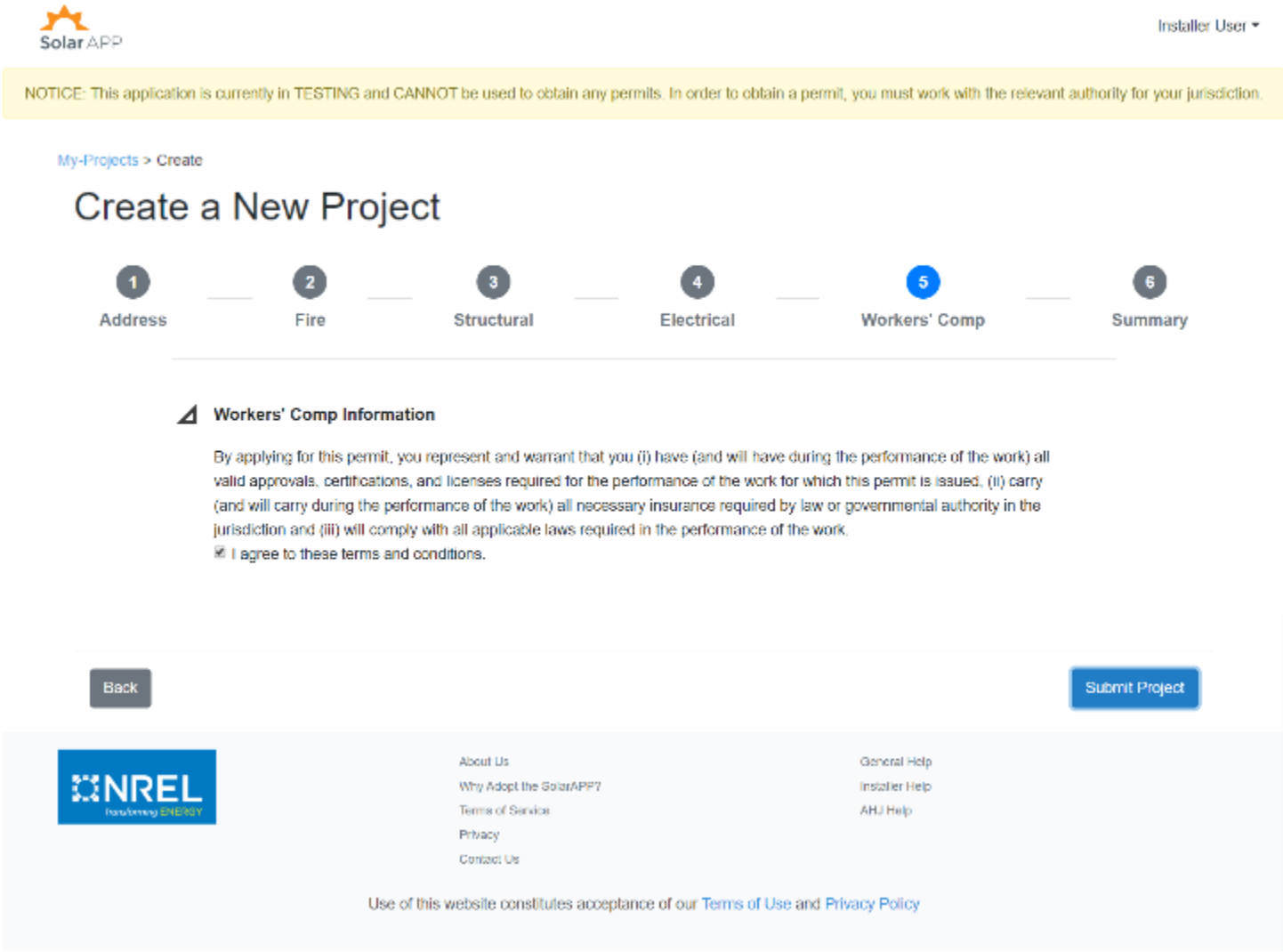
Electrical

- Site Conditions
  - Temperatures
  - Main panel and breaker ratings
  - Grid voltage
- Installation Details
  - Conductors
  - Conduit
  - Wiring
  - Point of interconnection compliance method
  - Overcurrent protection devices



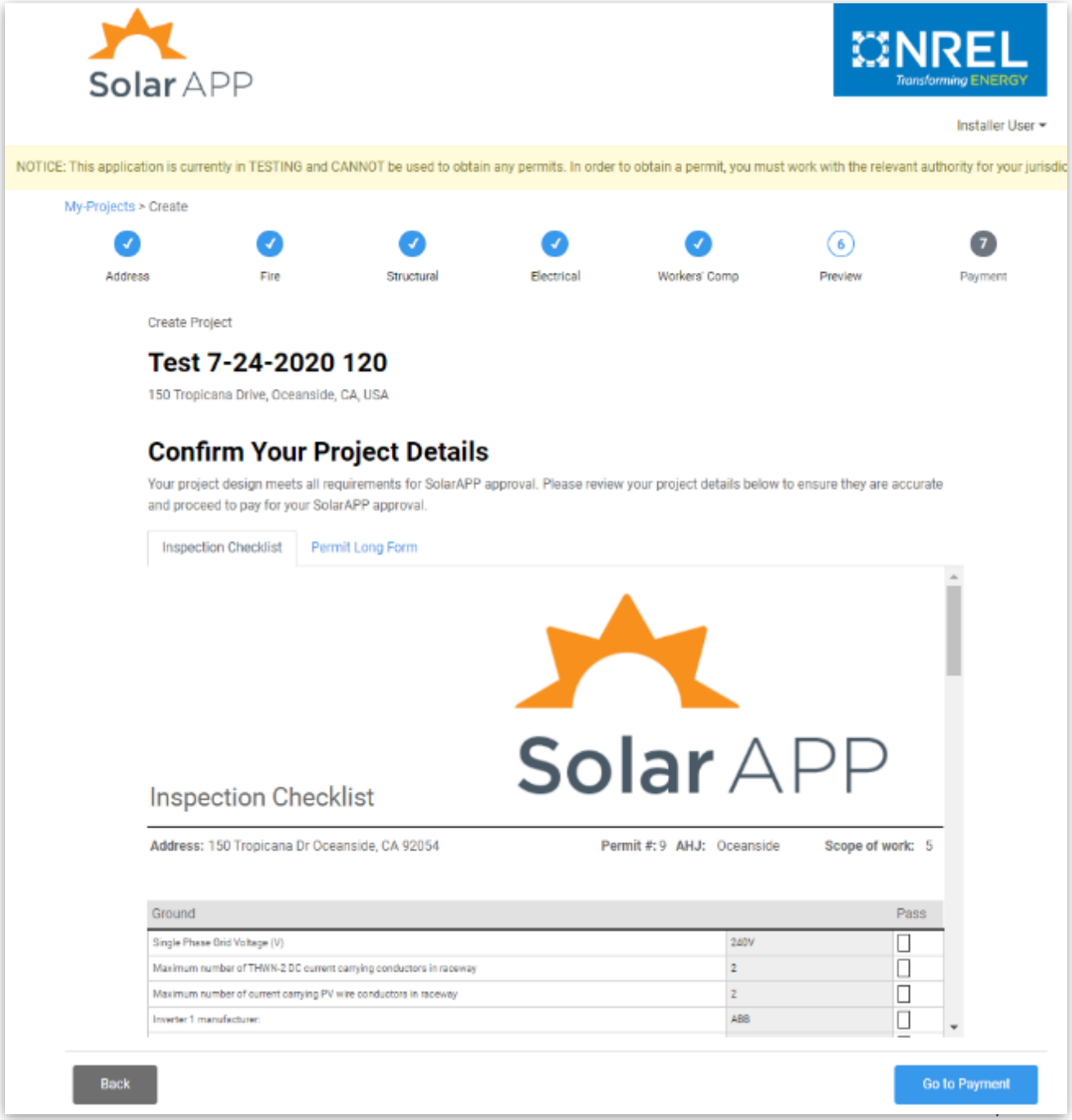
Workers' Comp

- Attestation that the contractor holds all valid licenses, certifications, and necessary insurance for the performance of the work.



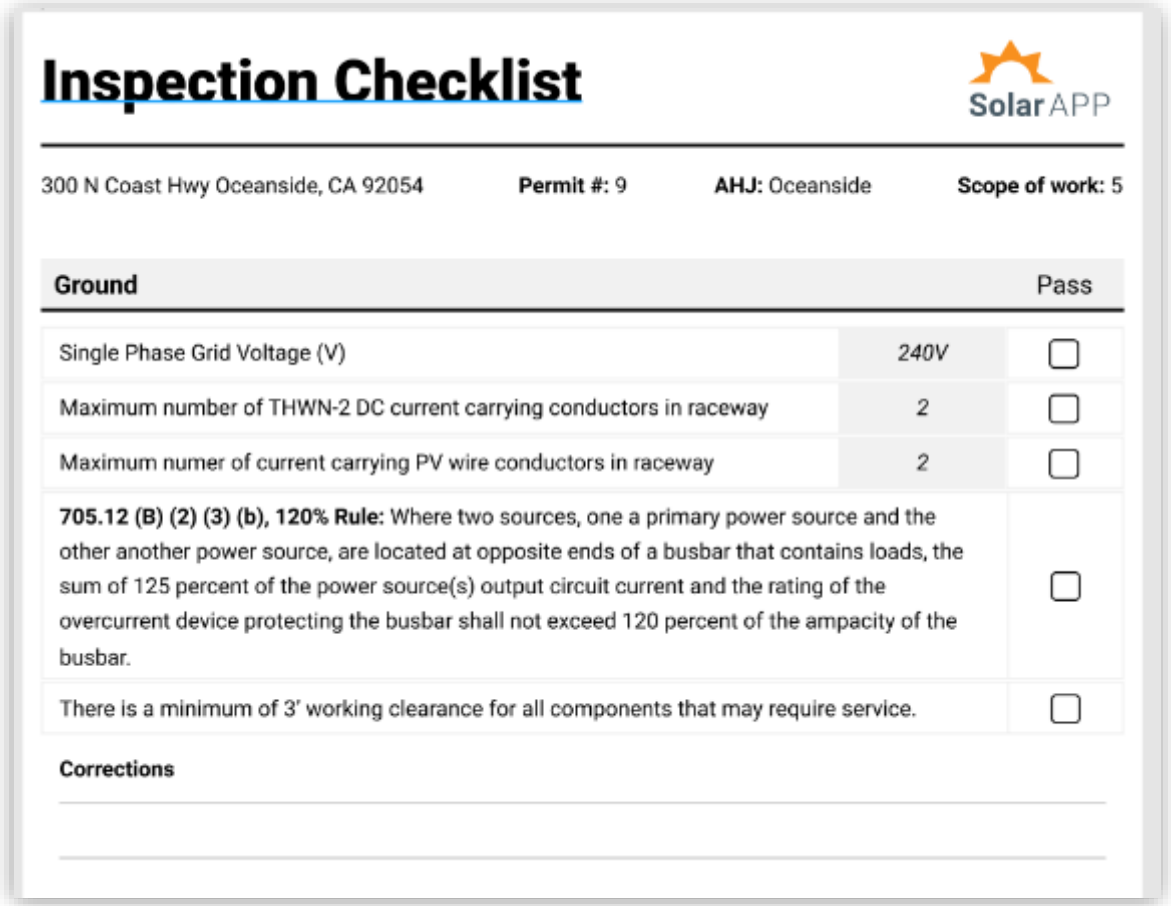
Outputs

- Permit & Inspection Job Card
- Inspection Checklist
- Long Form



Inspection Checklist

- A simple, clear checklist.
- Intended for all inspectors regardless of their solar expertise.
  - Focus on workmanship in the field.
- The Inspection Checklist along with the Long Form replace the need for a planset.



Inspection Checklist

SolarAPP

300 N Coast Hwy Oceanside, CA 92054 **Permit #:** 9 **AHJ:** Oceanside **Scope of work:** 5

Ground		Pass
Single Phase Grid Voltage (V)	*240V*	☐
Maximum number of THWN-2 DC current carrying conductors in raceway	*2*	☐
Maximum numer of current carrying PV wire conductors in raceway	*2*	☐
705.12 (B) (2) (3) (b), 120% Rule: Where two sources, one a primary power source and the other another power source, are located at opposite ends of a busbar that contains loads, the sum of 125 percent of the power source(s) output circuit current and the rating of the overcurrent device protecting the busbar shall not exceed 120 percent of the ampacity of the busbar.		☐
There is a minimum of 3' working clearance for all components that may require service.		☐

Corrections

Long Form

- The Long Form elucidates the magic!
- Shows inputs and related approval calculations.
- Serves as reference guide

4. **Table for selection of minimum Inverter output wire size and inverter output overcurrent protection size**

3. Inverter 1: Inverter Continuous Output Current = Power/Site Voltage =

(((PVI-3.0-OUTD-S-US-A [240V])⟶ (3kw))*1000)W / (240)V = 12.5 Amp

Inverter Continuous Output Current	12	16	20	24	28	32	36	40	48	56	64	72	80	88	100
OCPD amperage size	15	20	25	30	35	40	45	50	60	70	80	90	100	110	125
AWG wire size for <3 CCC in raceway	12	12	10	10	8	8	8	8	6	6	4	4	3	3	2
AWG wire size for 4 - 6 CCC in raceway	12	12	10	10	8	8	8	8	6	6	4	4	3	3	2
AWG wire size for 7 - 9 CCC in raceway	12	12	10	10	8	8	8	6	6	4	4	3	3	2	1

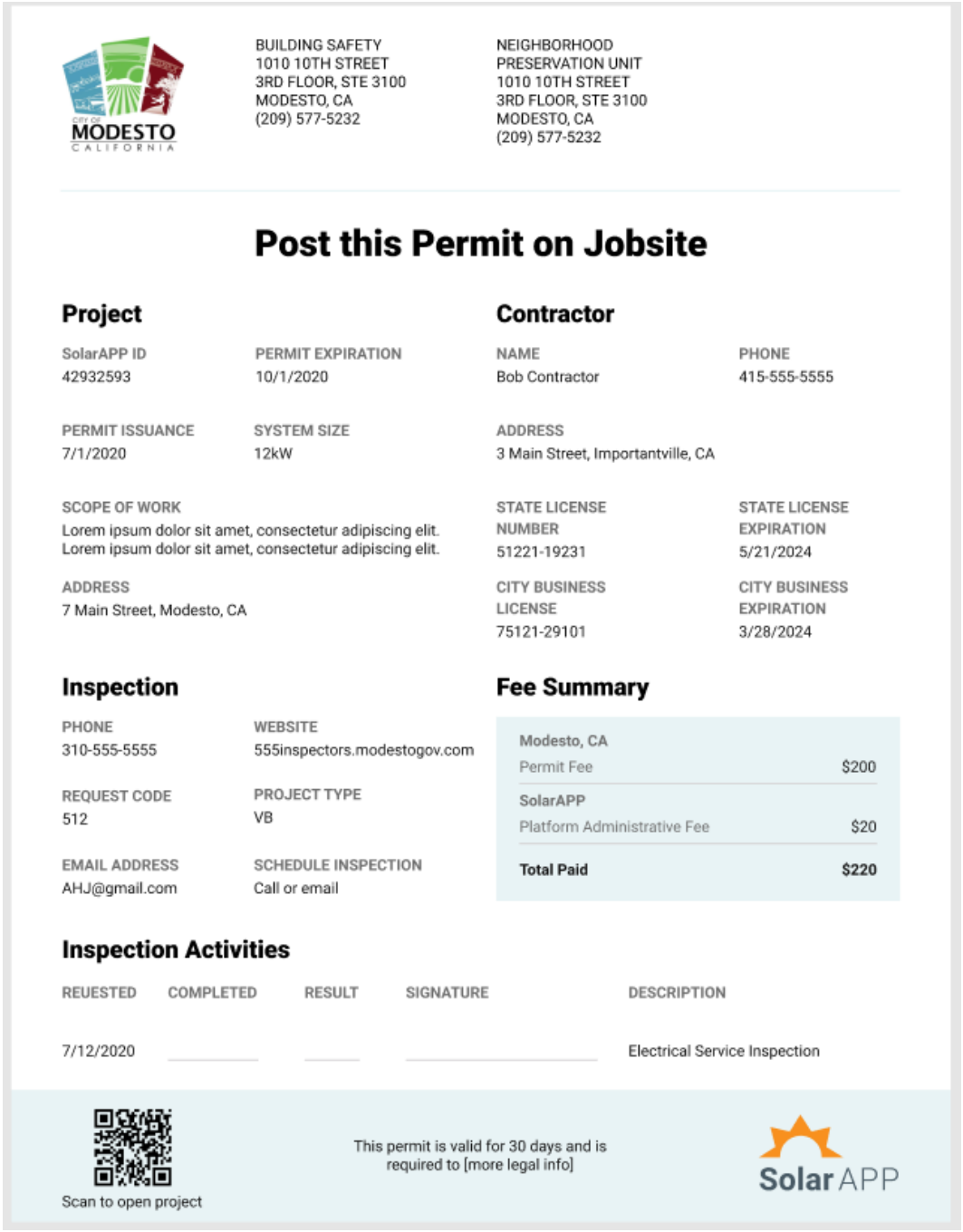
[240.4(D); Table 310.15(B)(3)(a); Table 310.15(B)(2)(b) ; Table 310.15(B)(16) ; 690.8; 690.9; 705.30]

5. **Overcurrent Protective Device rating**

1. **Inverter 1** - Select the Overcurrent Protective Device rating (12.5)→(20)A from the table above based on the inverter continuous output current rating. [690.9(A); 690.9(B)]

Permit & Inspection Job Card

- After payment, the contractor can download their Permit & Inspection Job Card.
- After AHJ onboarding, prototype permit would look similar to what is pictured to the right.



CITY OF MODESTO CALIFORNIA

BUILDING SAFETY
1010 10TH STREET
3RD FLOOR, STE 3100
MODESTO, CA
(209) 577-5232

NEIGHBORHOOD PRESERVATION UNIT
1010 10TH STREET
3RD FLOOR, STE 3100
MODESTO, CA
(209) 577-5232

Post this Permit on Jobsite

Project

SolarAPP ID
42932593

PERMIT EXPIRATION
10/1/2020

PERMIT ISSUANCE
7/1/2020

SYSTEM SIZE
12kW

SCOPE OF WORK
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Lorem ipsum dolor sit amet, consectetur adipiscing elit.

ADDRESS
7 Main Street, Modesto, CA

Contractor

NAME
Bob Contractor

PHONE
415-555-5555

ADDRESS
3 Main Street, Importantville, CA

STATE LICENSE NUMBER
51221-19231

STATE LICENSE EXPIRATION
5/21/2024

CITY BUSINESS LICENSE
75121-29101

CITY BUSINESS EXPIRATION
3/28/2024

Inspection

PHONE
310-555-5555

WEBSITE
555inspectors.modestogov.com

REQUEST CODE
512

PROJECT TYPE
VB

EMAIL ADDRESS
AHJ@gmail.com

SCHEDULE INSPECTION
Call or email

Fee Summary

Modesto, CA	
Permit Fee	$200
SolarAPP	
Platform Administrative Fee	$20
Total Paid	**$220**

Inspection Activities

REUESTED	COMPLETED	RESULT	SIGNATURE	DESCRIPTION
7/12/2020				Electrical Service Inspection

Scan to open project

This permit is valid for 30 days and is required to [more legal info]

SolarAPP

Gov Software Integration Approach

Gov Software Integration Approach

1. **Contractor starts solar/storage permit application in SolarAPP+** by completing questions, passing compliance checks for the relevant city or county, and paying a $25 SolarAPP+ admin fee

1. **SolarAPP+ pre-approves the permit** and sends the contractor a *SolarAPP approval ID*. SolarAPP also sends a copy of permit materials to the relevant city/county's permitting team by email.

1. **Contractor finishes the permit process in the city/county's permitting software system** by entering the *SolarAPP approval ID* and paying the city/county's permit fee.

1. **City/county's permitting software instantly approves the permit** and sends it to the contractor, allowing their customer to install rooftop solar immediately.


SolarApp

JUNE 22, 2020

SolarAPP Project Approval Record

[Project Title]

Project Information

Contractor Information

Approval ID: 42932593

1 Application Details | 2 Review | 3 Record Issuance

Step 1: Application Details > Application Information

For the Attachment section, the following project types do not require plans:

* Pipe repairs (gas or water)
* Reconnects (gas or electric)
* Residential repipes employing like sizing
* Service Upgrades
* Single circuit additions limited to 20 Amps
* Water heater replacements (like sizes and fuel types)

For the Description field, please provide a brief description of work being performed.

* indicates a required field.

Record Information

BUILDING GENERAL

Description: *

Installation of Roof mounted PV System

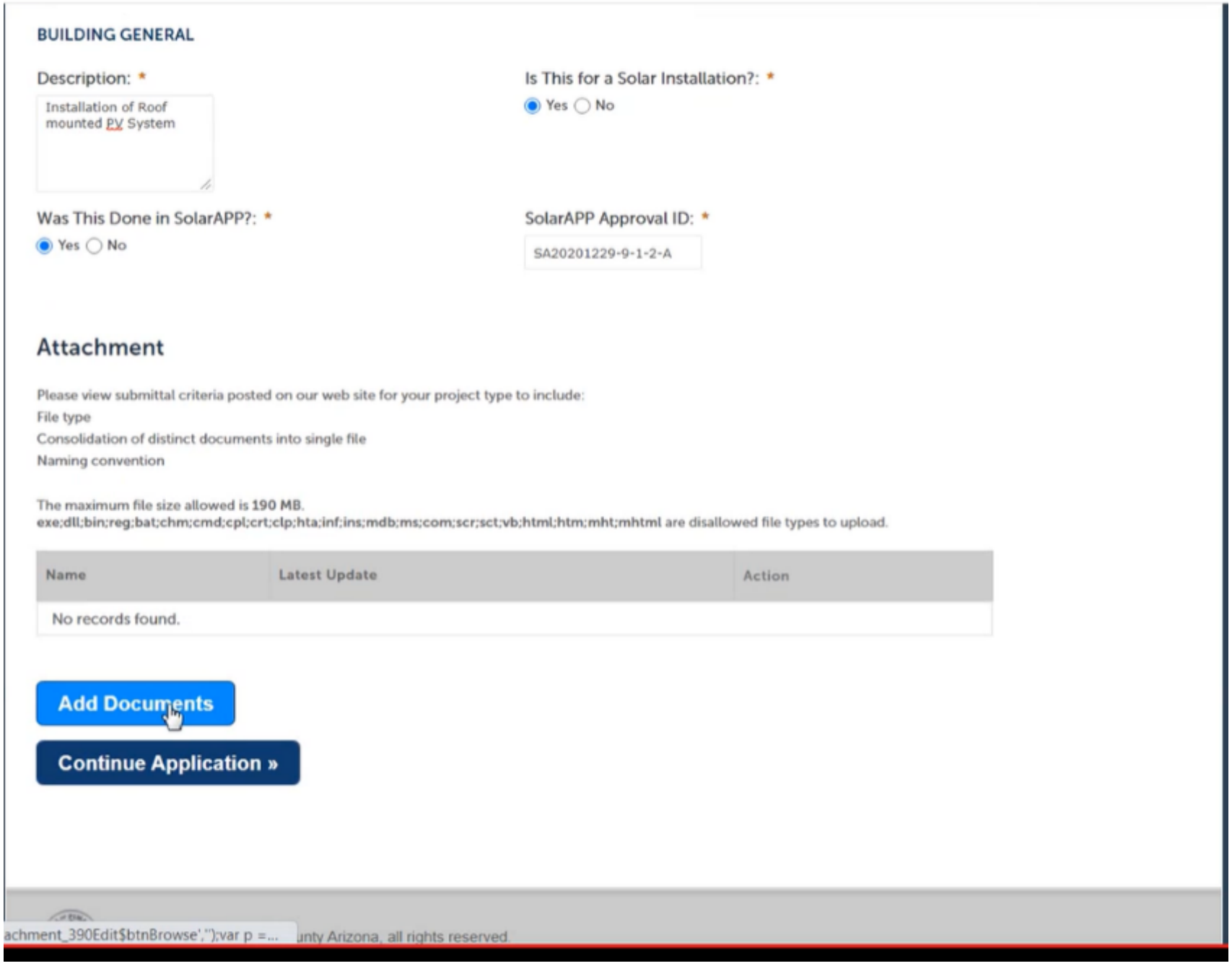
Is This for a Solar Installation?: *

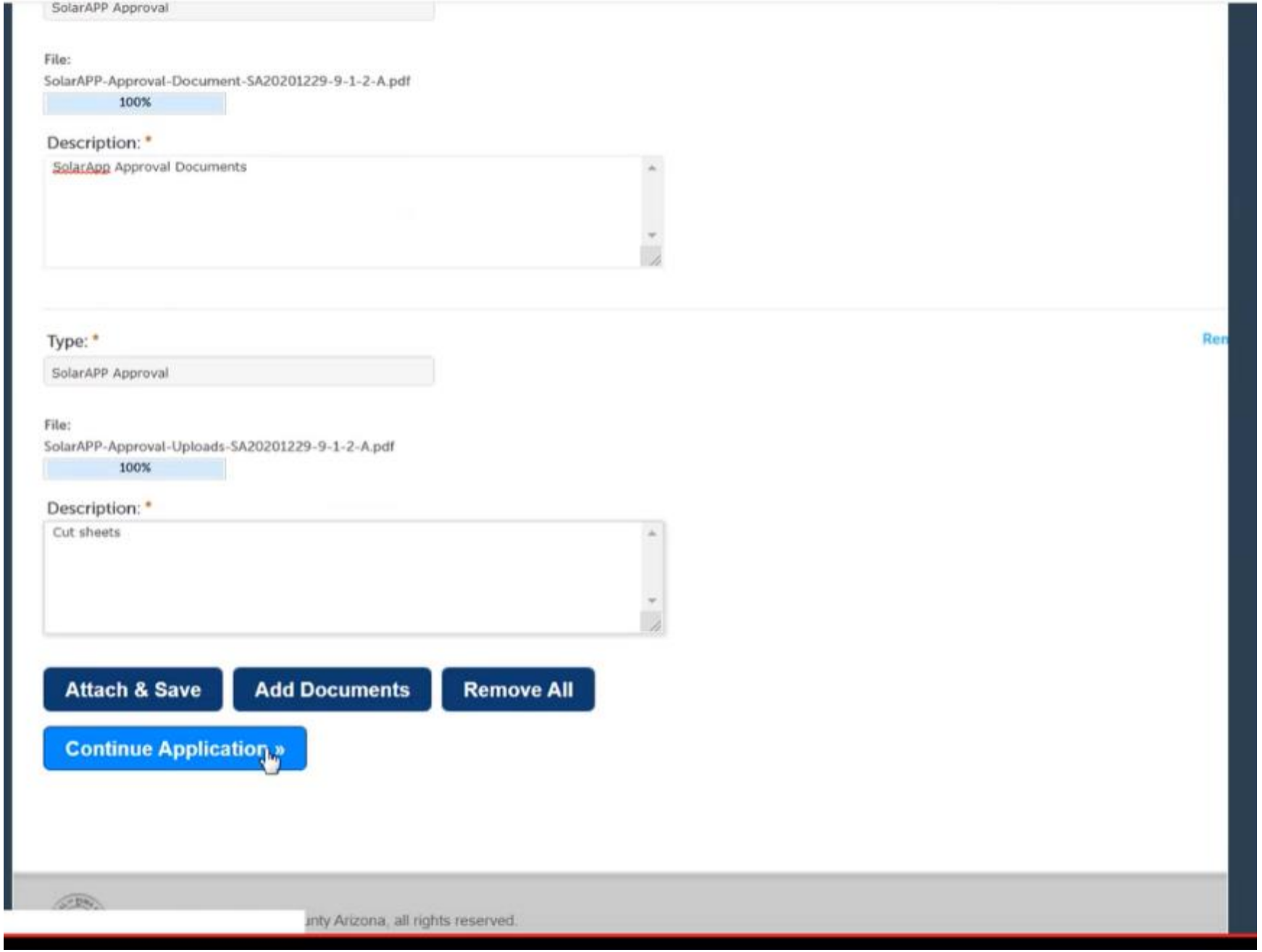
(•) Yes ( ) No

Attachment

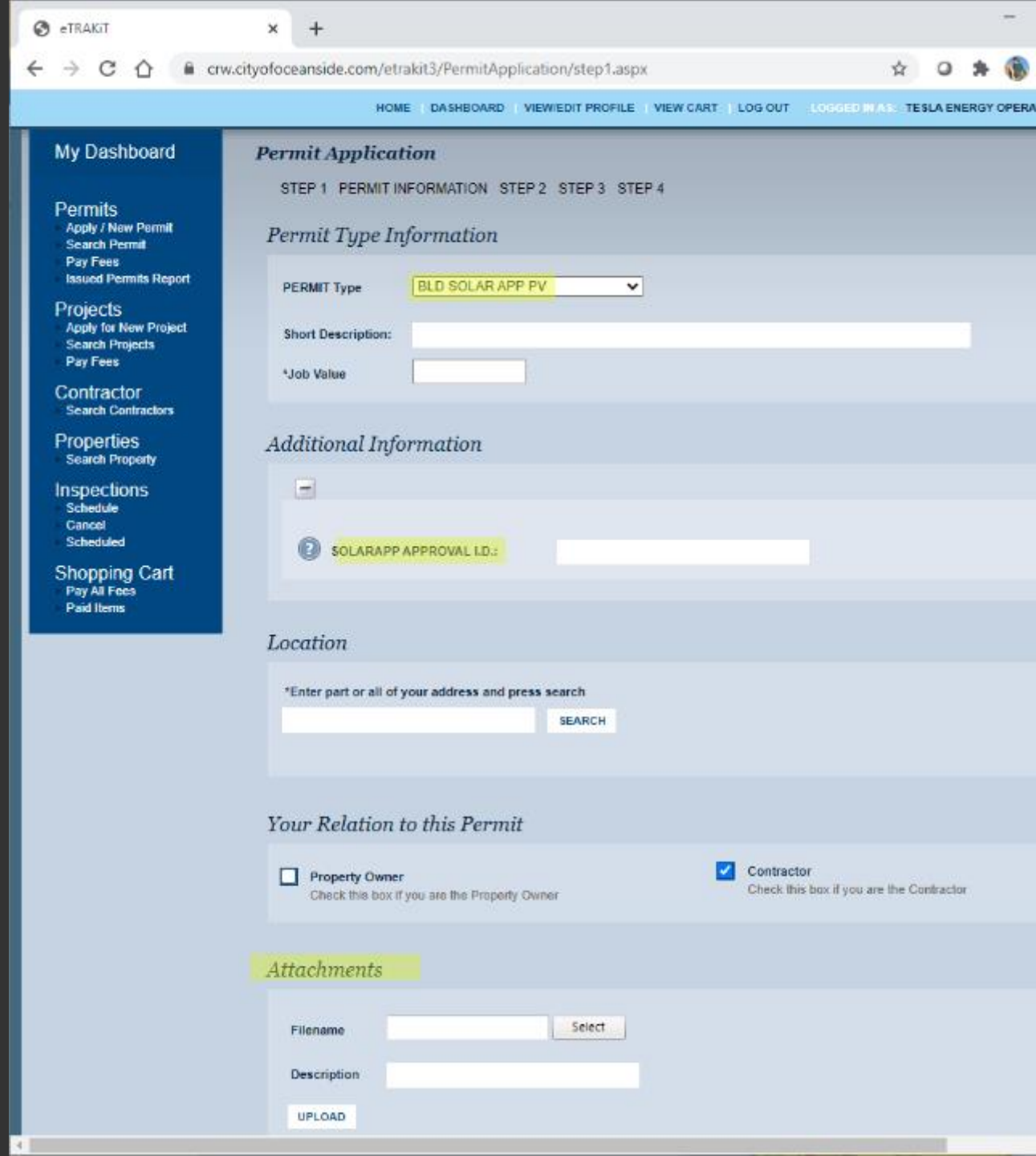
Please view submittal criteria posted on our web site for your project type to include:
File type
Consolidation of distinct documents into single file
Naming convention

The maximum file size allowed is **190 MB**.
exe:dll:bin:reg:bat:chm:cmd:cpl:crt:cln:hta:inf:ins:mdb:ms:com:scr:sct:vb:html:htm:mht:mhtml are disallowed file types to upload.


BUILDING GENERAL
Description: *
Installation of Roof mounted PV System
Is This for a Solar Installation?: *
Yes
No
Was This Done in SolarAPP?: *
Yes
No
SolarAPP Approval ID: *
SA20201229-9-1-2-A
Attachment
Please view submittal criteria posted on our web site for your project type to include:
File type
Consolidation of distinct documents into single file
Naming convention
The maximum file size allowed is 190 MB.
exe;dll;bin;reg;bat;chm;cmd;cpl;crt;clp;hta;inf;ins;mdb;ms;com;scr;sct;vb;html;htm;mht;mhtml are disallowed file types to upload.
Name
Latest Update
Action
No records found.
Add Documents
Continue Application »
unty Arizona, all rights reserved.


SolarAPP Approval
File:
SolarAPP-Approval-Document-SA20201229-9-1-2-A.pdf
100%
Description: *
SolarApp Approval Documents
Type: *
SolarAPP Approval
File:
SolarAPP-Approval-Uploads-SA20201229-9-1-2-A.pdf
100%
Description: *
Cut sheets
Attach & Save
Add Documents
Remove All
Continue Application »
nty Arizona, all rights reserved.

Example:
Oceanside (CA)
using ETRAKiT



APPENDIX

More information:

SolarAPP Outreach Materials

- Website:
  - https://solarapp.nrel.gov/
- Pilot Results:
  - https://www.nrel.gov/docs/fy22osti/81603.pdf
- Demonstration webinar:
  - https://www.youtube.com/watch?v=XmXLvQevPEs
- Where is SolarAPP+ available?
  - https://help.solar-app.org/article/108-where-is-solarapp-available.
- Piloting webinar:
  - https://youtu.be/iaocESF9Ilg.
- SolarAPP Benefits Memo:
  - https://solarapp.nrel.gov/docs/SolarAPP_Benefits_Memo.pdf
- For more information contact:
  - team@solar-app.org

CalAPP Grant

The California Automated Permit Process Program (CalAPP) is a $20 million funding program that provides grants to cities and counties to help implement SolarAPP+

CalAPP application deadline is May 1st, 2023

Proposed Grant Sizes:

- Population <50,000: Up to $40K
- Population 50,000-99,999: Up to $60K
- Population 100,000-200,000: Up to $80K
- Population >200,000: $100K

Grant Can Cover:

- IT staff time on adoption
- Inspector time on training
- Time spent meeting with NREL
- And more

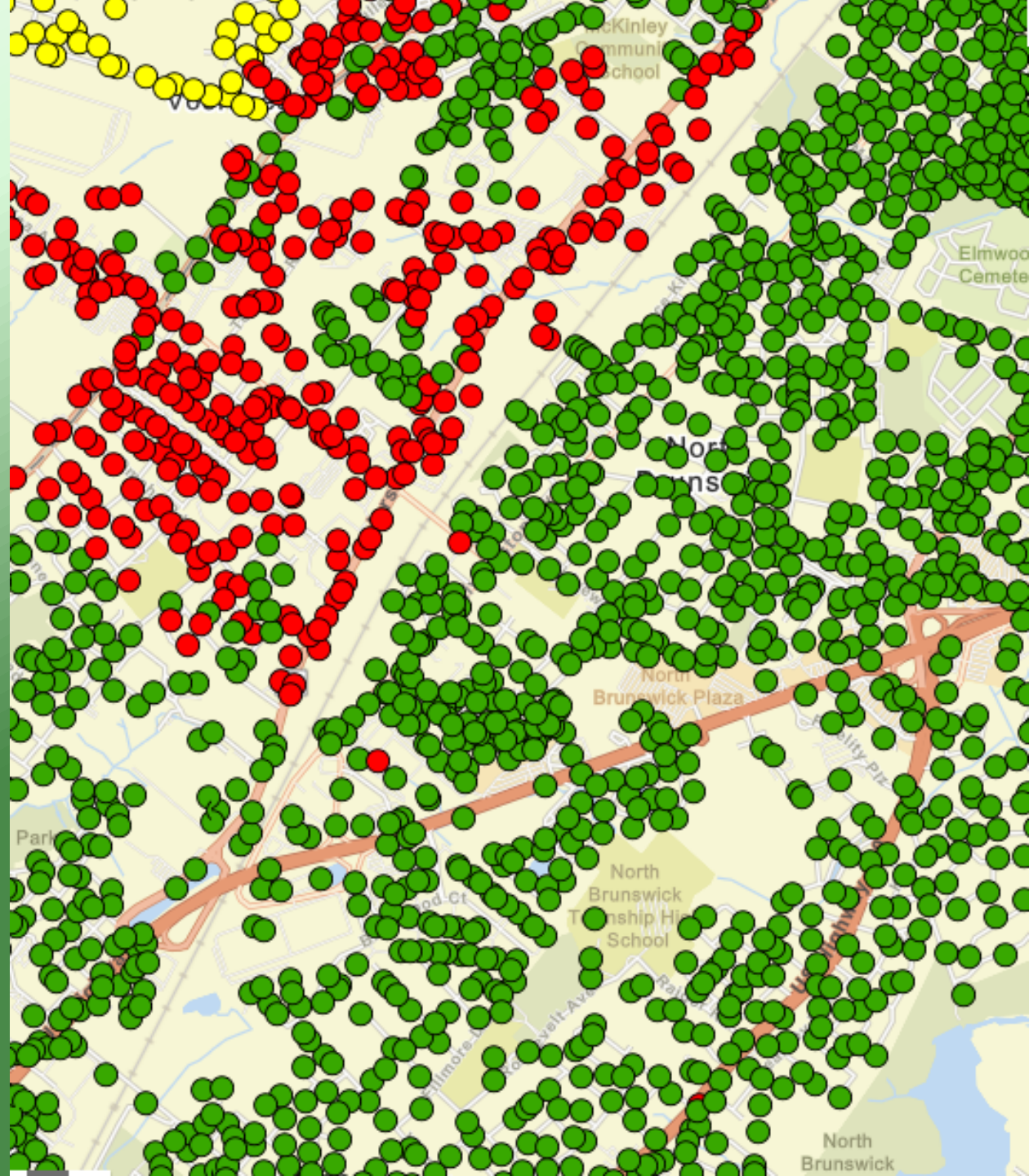
For more information visit: https://www.energy.ca.gov/programs-and-topics/programs/california-automated-permit-processing-program-calapp

SUSTAINABILITY SUMMIT

Solar Resources

May 3, 2024

Tracey Woods
Energy Program Manager
Sustainable Jersey



Municipal On-Site Solar

5 points Solar thermal system

10 - 30 points On-site photovoltaic solar system, points vary by percentage of electricity offset

Additional 10 points System includes islanding/grid-interactive infrastructure and energy storage

Additional 5 points for having a solar thermal system AND solar array

Direct Pay Program Opens Up Solar Purchasing Options for Local Governments

Inflation Reduction Act's Elective Pay Program (a.k.a "Direct Pay")

- Municipalities and Schools able to receive full value of tax credits for clean energy projects
- Program also offers grants for eligible projects

What does this mean for Local Governments?
Local Governments should consider both Power Purchase Agreements (PPAs) and Direct Purchase

whitehouse.gov/cleanenergy/directpay

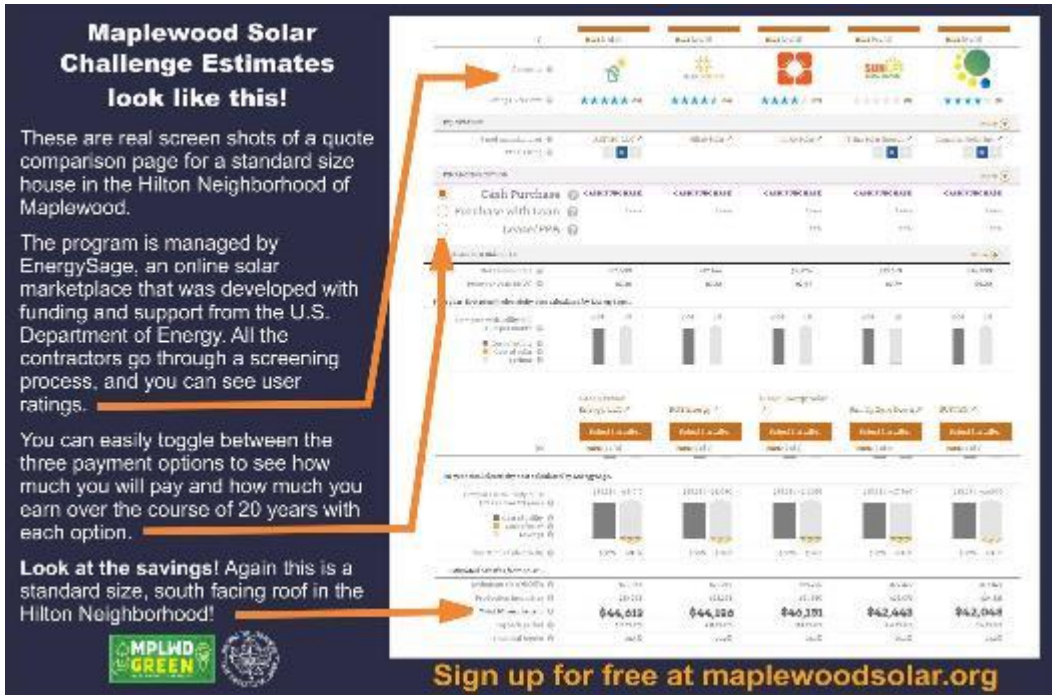
Solar Outreach

10 points:
Solar Purchasing Program

- Solarize program
- Solar Marketplace
- Outreach Partnership with Solar Program

Additional 5 points (15 points total)

- At least one activity to promote solar, such as newsletter or social media
- At least one incentive to promote solar, such as waiver for permitting fee for non-profits



TOP RIGHT: Ribbon cutting event for Paterson's solar outreach campaign. *Image Courtesy of PosiGen Solar & Energy Efficiency*

BOTTOM RIGHT: Social media graphic from Maplewood's Solar Challenge

Make Your Town Solar Friendly

15-30 points

Supportive Solar Zoning Ordinance

- Adopt Solar Zoning Ordinance
- Amend Permitting Fee Ordinance

- Note: Solsmart *Silver* designation qualifies for 15 points for this action

Streamlined Permitting

- Post requirements online

Additional activities:

- Train first responders
- Cross-train codes and permitting staff
- Expedited permitting
- Offer narrow inspection timeframe
- Expedite or eliminate zoning review

Municipally Supported Community Solar Action

15 points

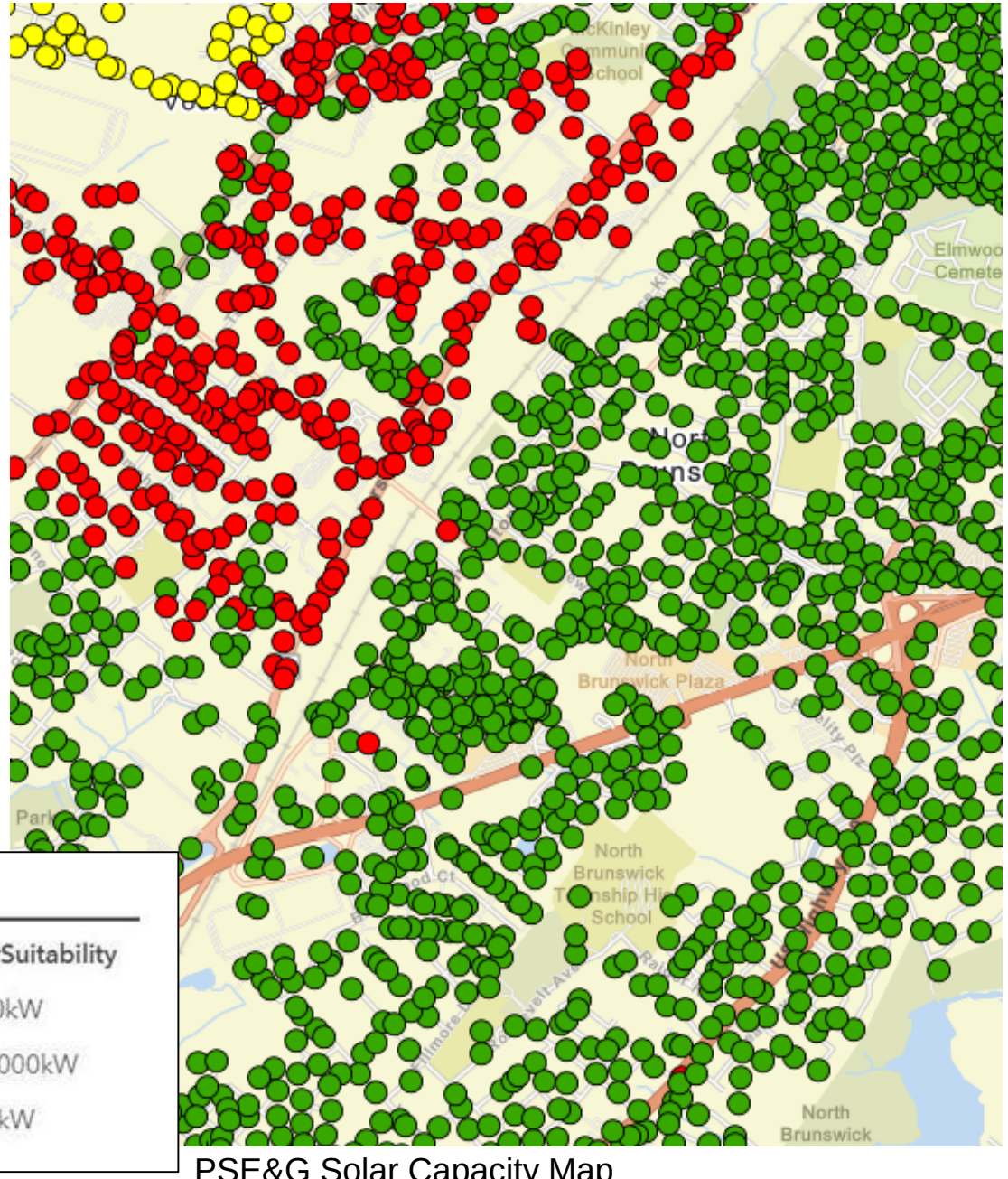
Municipality:

- Establishes community criteria for project
- Municipal outreach campaign
  - Education and outreach campaign
  - Outreach partner
  - Project ambassador

10 additional points (at least TWO):

Project featured in outreach campaign includes:

- Anchor subscriber
- Site host
- Workforce training
- Low- and moderate-income discount
- Energy efficiency services



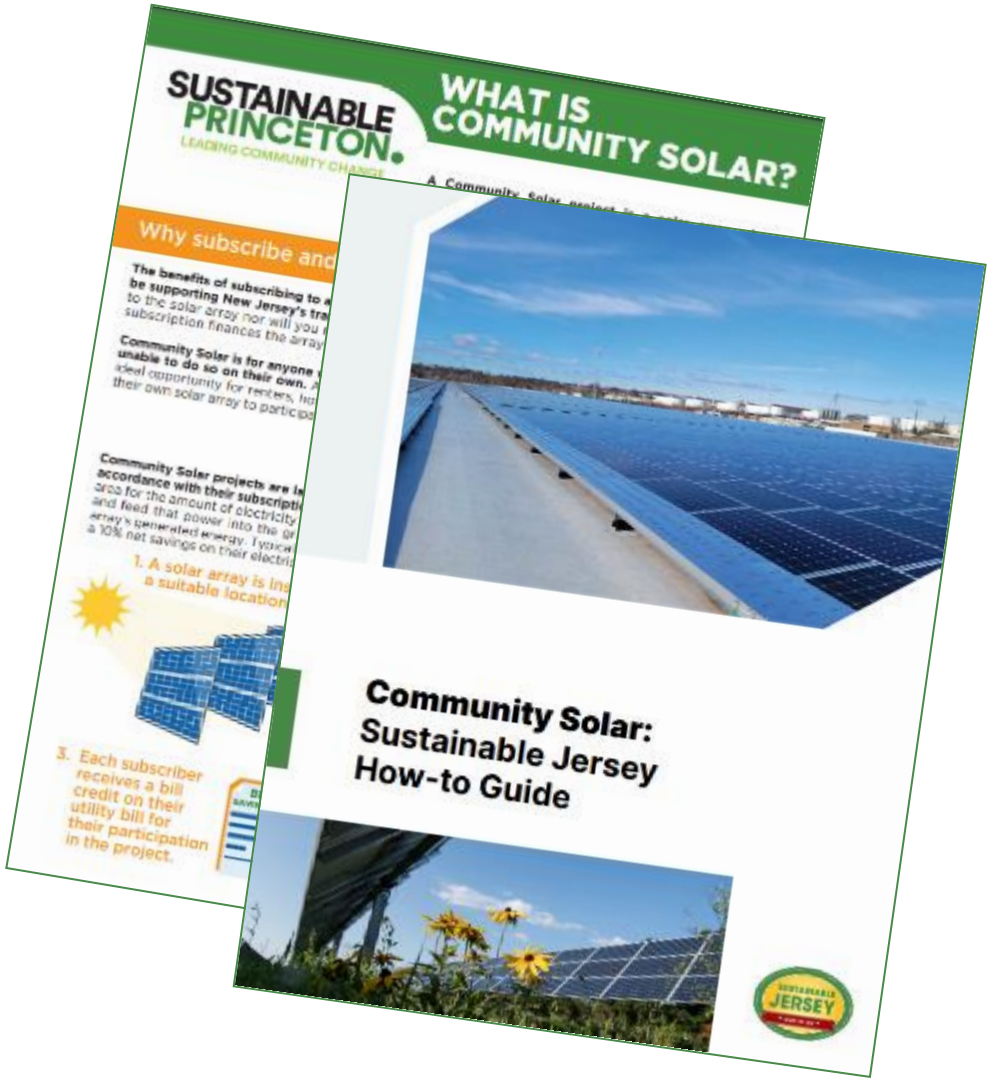
PSE&G Solar Capacity Map

Sustainable Jersey Community Solar Resources

- Sustainable Jersey Community Solar How-To Guide
- Sustainable Jersey Certification Program action – Municipally Supported Community Solar
- Sustainable Princeton
  - Community Solar Factsheet
  - Subscriber Tip Sheet

Upcoming Resources

- Guidance to support municipalities in Automatic Enrollment project for LMI residents
- Updates to Community Solar Project Finder to reflect permanent program



All resources can be found at sustainablejersey.com/fileadmin/media/Actions and_Certification/Actions/Energy/Community Solar_Resources.pdf

Sustainable Jersey has provided technical assistance to over 100 municipalities and school districts!

Sustainable Jersey Energy Technical Assistance

- Assistance applying for State and utility energy efficiency incentives
- Energy tracking and management
- Completing energy actions for Sustainable Jersey certification

Get free energy technical assistance for your school district or municipality

info@sustainablejersey.com

2024 SUSTAINABILITY SUMMIT

CEU SIGN OUT

SCAN ME

QR CODE INSTRUCTIONS:

1.Open the Camera app on your phone.
2.Hold your phone so that the QR code appears in view.
3.Tap the notification to open the link.
4. You **MUST** Sign out to receive CEU credits.

WIFI INFORMATION: 2 Open Networks

1.sustainablenj: Ballroom, GS3, Nonprofit Exhibit area
2.Bell_Works_Conf_Center: Bell Theatre & Conference

UPCOMING EVENTS AND OPPORTUNITIES

EARNING YOUR DIGITAL SCHOOLS STAR: TIPS FOR SUCCESS WEBINAR

This webinar offers an overview of the Digital Schools program, insights and examples of ways to improve digital school action submissions and earn points to attain Digital Schools Star recognition. The informational webinar will be held on **Wednesday, May 8, 2024, 3:30pm-4:30pm**.

Register: bit.ly/4dhdj91

2024 MUNICIPAL CERTIFICATION CYCLE

The next deadline to apply for certification is **Friday, May 10, 2024**. The final application deadline is **Wednesday, July 31, 2024**. View the full cycle timeline on the 2024 Certification Cycle page.

Learn More: bit.ly/SJ2024CertCycle

NJBPU'S COMMUNITY ENERGY PLANNING GRANTS

The New Jersey Board of Public Utilities is offering a new round of Community Energy Plan Grants for all New Jersey municipalities.

Application Deadline: **Friday, May 24, 2024**

Learn More: bit.ly/3WcmAt7

TRI-COUNTY SUSTAINABILITY GENERAL MEETINGS

This Sustainable Jersey Regional Hub will host virtual meetings on a variety of sustainability topics throughout the year. The next meeting is **Tuesday, May 28, 2024, 7:00pm-8:00pm.**

Learn More: bit.ly/Tri-CountySustainability

2024 SUSTAINABLE COMMUNITIES GRANT PROGRAM

Atlantic City Electric is contributing $35,000 to support municipal environmental stewardship and resiliency projects within its service territory. Join us for an informational webinar on **Monday, May 13 from 1:00pm-2:00pm** to learn more about the program and how to use the online application portal.

Application Deadline: Thursday, June 27, 2024

Learn More: bit.ly/SustainableCommunitiesGrantProgram

2024 SCHOOL CERTIFICATION CYCLE

The final deadline to apply for certification and Digital Schools Star Recognition is **Thursday, June 13, 2024**. View the full cycle timeline on the 2024 Certification Cycle page.

Learn More: bit.ly/SJS2024CertCycle

HOW TO ADOPT OR UPDATE A COMPLETE AND GREEN STREETS POLICY WEBINAR

Save the date! Join a one-hour walkthrough on how to create your own model municipal Complete and Green Streets Policy, brought to you by the Voorhees Transportation Center at Rutgers University, Sustainable Jersey, the New Jersey Department of Transportation, and the North Jersey Transportation Planning Authority, on **Tuesday, September 17, 2024, 12:00pm-1:00pm.** Registration information coming soon. Follow-up Open House Q&A for attendees to be held virtually on **Wednesday, October 30, 2024 from 3:00pm-5:00pm.**

PROGRAM UNDERWRITERS

Gardinier Environmental Fund

Geraldine R. Dodge Foundation

New Jersey's Clean Energy Program (njcleanenergy.com)

* State of New Jersey Department of Education

New Jersey Department of Environmental Protection

* New Jersey School Boards Association (NJSBA)

njea New Jersey Education Association

PSEG Foundation

Robert Wood Johnson Foundation

CORPORATE SPONSORS

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New Jersey Natural Gas

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PSE&G

* South Jersey Gas / Elizabethtown Gas

* NJM Insurance Group

solar landscape

Atlantic Shores offshore wind

Bayshore Family of Companies

Bluepoint Wind

FirstEnergy Foundation

New Jersey American Water

Northfield Bank

CMC Energy Services

Covanta

EV Resource Group

flo EV Charging Done Right

gabel associates

Greener by Design

HEVI

Maschio's Food Services, Inc.

PosiGen Solar Energy and Energy Efficiency

Red Oak

Republic Services

RISE Light & Power

*Digital Schools Sponsor