



Options for SB 379 Compliance

PANEL OF PRESENTERS



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CA Energy Commission



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City of LA



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CEO, Saira Solutions



David Khorram PE
Superintendent of Building & Safety -
City of Long Beach



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Chief Electrical Engineer and Inspector
Los Angeles County Public Works



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Director of Community Development
City of Norwalk



Gabriel Linares PE
Community Development
Director
City of Lynnwood



- SB 379 Mandates Objective and requirements
- Timelines and deadlines to comply and implement
- Grants for Instant solar permitting



California Energy Commission

Residential Solar Permit Reporting – SB 379 and the California Automated Permit Processing Program

Lucio Hernandez

April 22, 2024



Senate Bill 379 Overview



Senate Bill 379 (Wiener, Chapter 356, Statutes of 2022)

Who?

California cities & counties
(with exemptions)

When?

By September 30, 2023 or
September 30, 2024 (depending
on population size)

What?

Implement an online, automated
permitting platform such as
SolarAPP+ and Symbium



CEC Role

- Adopted guidelines for annual reporting
- [Residential Solar Permit Reporting – SB 379](#)



SB 379 Exemptions

Who?	Threshold	
City	• Population fewer than 5,000	
Example	• City of Truckee (Population ~16,000)	<u>NOT EXEMPT</u>
County	• Population fewer than 150,000 (includes population of cities within)	
Example	• Nevada County (Population ~97,000)	<u>EXEMPT</u>



Annual Reporting

SB 379: “The Energy Commission shall set guidelines...for jurisdictions to report on the number of permits issued and the relevant characteristics of those systems.”

Data Submission to the CEC:

Authorized representatives of non-exempt reporting jurisdictions shall provide information to the Energy Commission that satisfies the requirements of SB 379

Submission deadlines:

Non-exempt reporting jurisdictions shall submit annual reports by June 30th every year following compliance until June 30, 2034

Data Reporting:

Data shall cover the previous calendar year from January 1 – December 31




CEC Data Submission Portal

Residential Solar Permit Reporting Report

Reporting Attestation

Residential Solar Permit Reporting

Jurisdiction Select 

Data Reporting Year Partial Year Submission

Data Reporting Period
Start **End**

Estimated Population

Permits issued for ALL residential solar energy systems (Not including those paired with energy storage)
Total **Issued Online**

Permits issued for ALL residential energy storage systems paired with residential solar energy systems
Total **Issued Online**

Next »

Attestation Form

I, , declare under the requirements defined by [Senate Bill 379](#) and the [California Energy Commission's SB 379 Guidelines](#) that by completing and submitting this information, I attest the following:


- I am an authorized representative of a non-exempt reporting city, county, or city and county and have the authority to complete and submit this information on behalf of the city, county, or city and county I selected.
- I have read and understand [Senate Bill 379](#) and the [California Energy Commission's SB 379 Guidelines](#), including the annual reporting requirements.
- The city, county, or city and county I am reporting on behalf of has adopted an online, automated platform that is in compliance with [Senate Bill 379](#) and the [California Energy Commission's SB 379 Guidelines](#).
- I acknowledge that the California Energy Commission may request additional information to substantiate the information submitted in the annual report.
- I declare under penalty of perjury that the information submitted on behalf of the city, county, or city and county is true and correct to the best of my knowledge.

Jurisdiction Represented




Reporting individual is an employee of the Jurisdiction?


Reporting Individual's Company



Email Address




Phone Number



Signature



Date





SB 379 Solar Permit Annual Reports

Name of Jurisdiction	Type	Estimated Population	Year Reported	PV Permits Issued	Online PV Permits Issued	PV + Storage Permits Issued	Online PV + Storage Permits Issued
Aliso Viejo	City	52,222	2023	269	269	-	-
Arcadia	City	55,503	2023	155	48	41	16
Benicia	City	28,174	2023	189	55	47	33
Butte	County	207,000	2023	750	750	93	93
Chino	City	95,000	2023	6	6	4	4
Citrus Heights	City	89,000	2023	91	91	17	17
Concord	City	124,074	2023	32	3	95	30
Contra Costa	County	1,160,000	2023	2,018	8	536	32



Residential Solar Permitting Program Dashboard

Residential Solar Permitting Program

SB 379 in Numbers

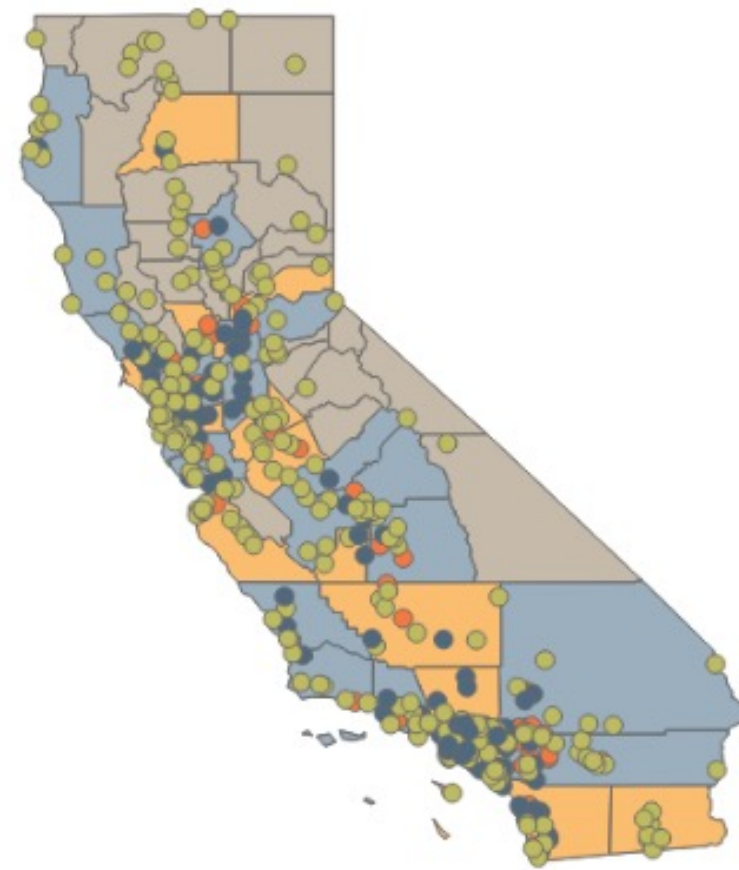
Online, Automated Platform
Counties:21 Cities:122

Annual Report Submitted to CEC
Counties:7 Cities:46
Percentage of Jurisdictions:9.8%

CalAPP Awarded Funds

Total Jurisdictions:
326

Total Funds:
\$18,060,000



Keyword Search

Report Submitted
(All)

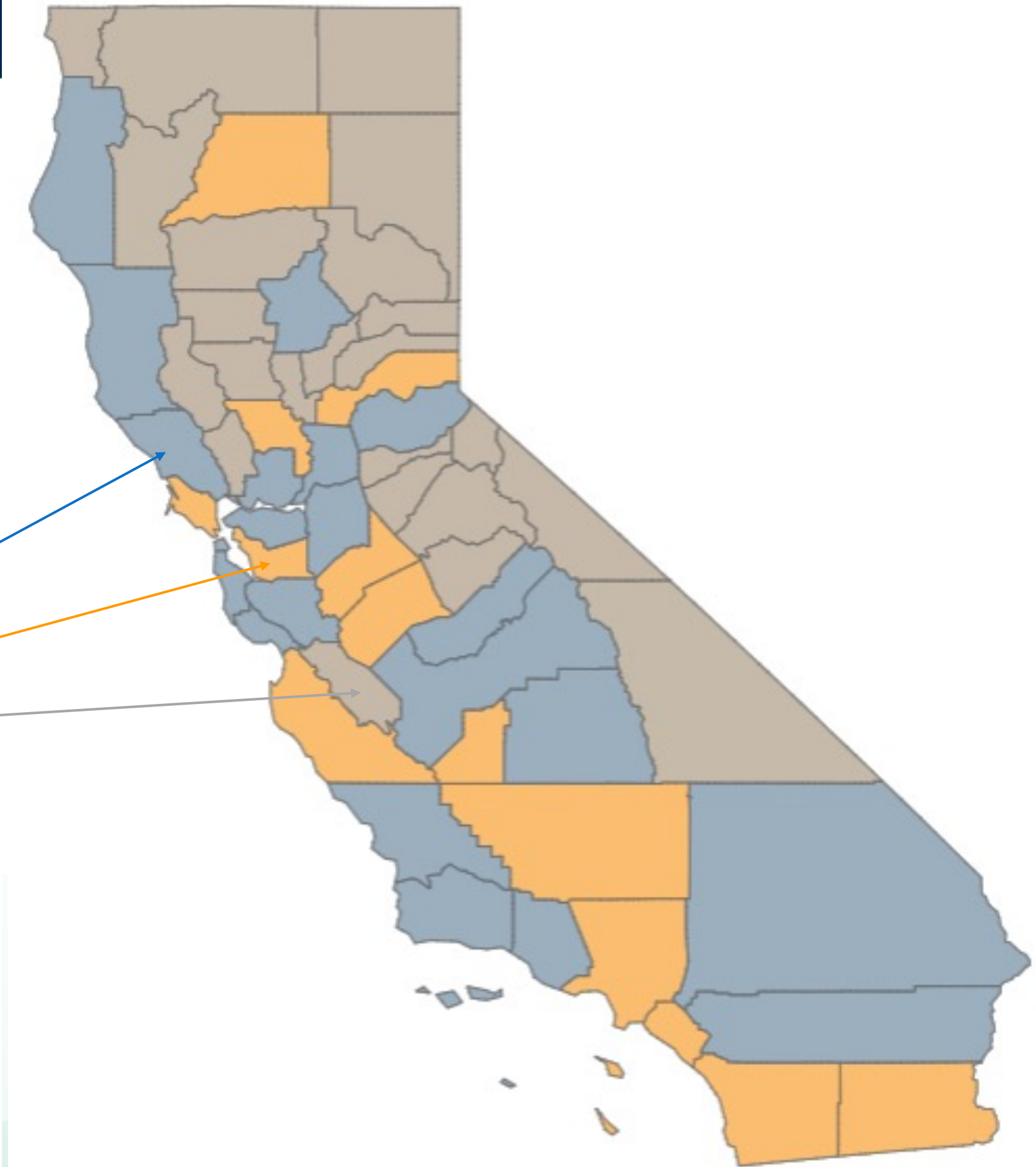
SB 379 Deadline
(All)

SB 379 Platform Status
(All)

CalAPP Funding
(All)

- SB 379 Platform Status Legend
- Counties with Online, Automated Platform ■
 - Cities with Online, Automated Platform ●
 - Counties Without Platform ■
 - Cities Without Platform ●
 - Counties Exempt ■
 - Cities Exempt/Exempt Until 2024 ●

Note: To use the Keyword Search, type in the search term into the text box, and then press the 'enter' button on your keyboard.



Item	Jurisdiction	Population	SB 379 Deadline	SB 379 Platform Status	Annual Report Submitted	CalAPP Funding	Funds Awarded
2	Adelanto (City)	36,656	Sept 2024	Exempt Until Sept 2024	None	Not Awarded	N/A
3	Agoura Hills (City)	19,770	Sept 2024	Exempt Until Sept 2024	None	Awarded	\$40,000
4	Alameda (City)	77,287	Sept 2023	SolarAPP+ Platform	None	Awarded	\$60,000
5	Alameda (County)	1,636,194	Sept 2023	Without Platform	None	Not Awarded	N/A
6	Albany (City)	21,401	Sept 2024	Exempt Until Sept 2024	None	Awarded	\$40,000
7	Alhambra (City)	81,303	Sept 2023	Without Platform	None	Awarded	\$60,000

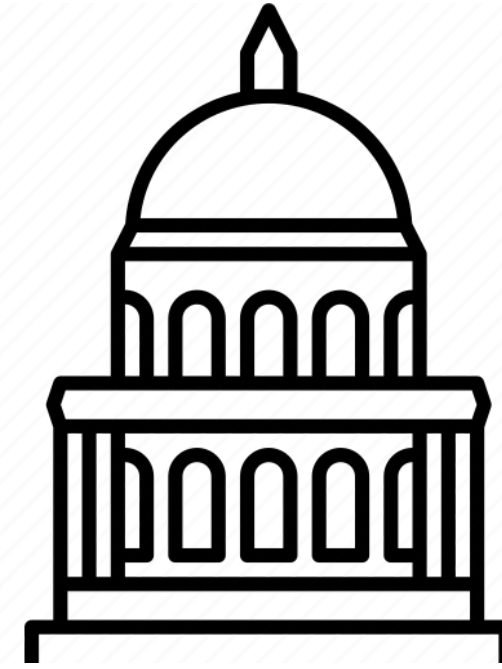




California Automated Permit Processing (CalAPP) Program



CalAPP Program Overview



Senate Bill 129 (Skinner, Budget Act of 2021)

Budget: \$20 million (up to \$1 million for admin costs)

What?

Grant program for cities, counties, or cities and counties to establish online solar permitting

Eligibility

All incorporated California cities (482) and counties (58)

Funding Structure

\$40,000 - \$100,000

Deadline

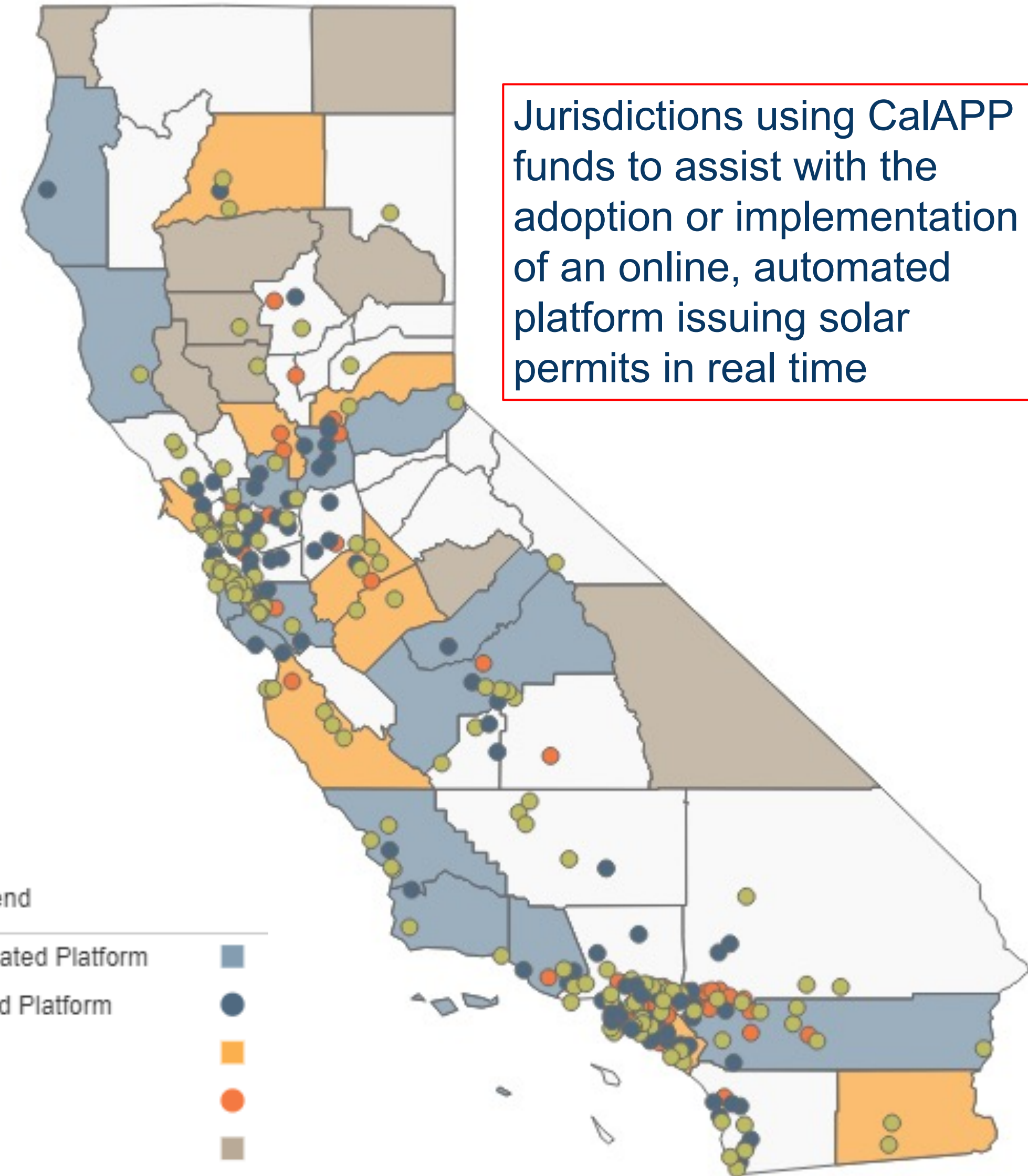
May 1, 2024

Application Form:
<https://www.energy.ca.gov/calapp>



CalAPP Numbers to Date

- Applications
 - 331 applications submitted
 - 327 agreements awarded
- Funding
 - \$18,100,000 encumbered
 - \$900,000 remaining



SB 379 Platform Status Legend

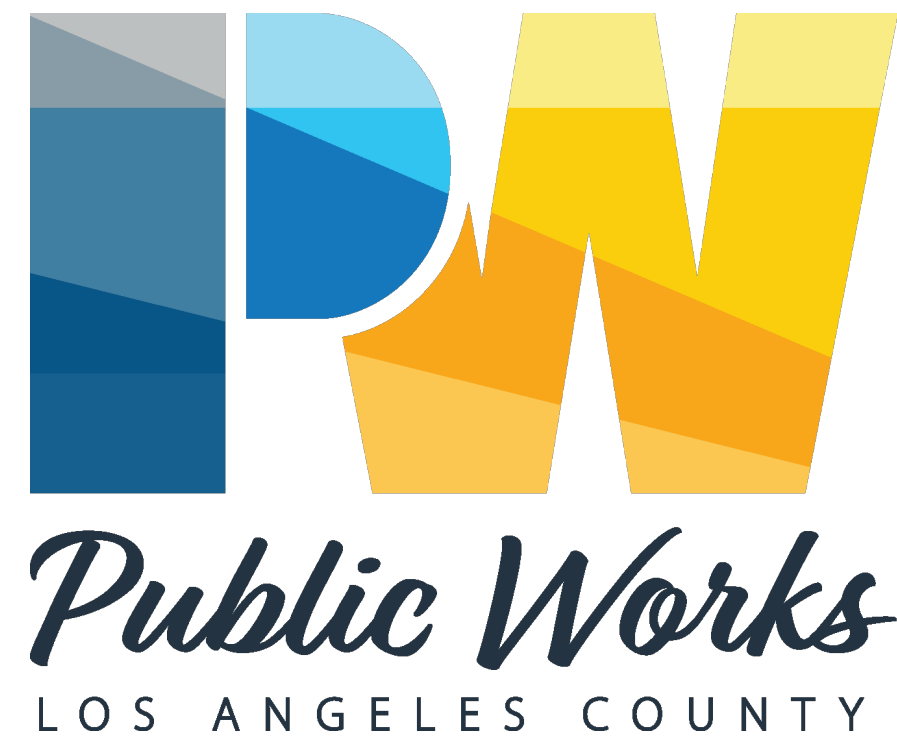
- Counties with Online, Automated Platform
- Cities with Online, Automated Platform
- Counties Without Platform
- Cities Without Platform
- Counties Exempt
- Cities Exempt/Exempt Until 2024



Next Steps & More Information

- **May 1, 2024:** CalAPP Application deadline to reserve funding
- CalAPP Program webpage: <https://www.energy.ca.gov/calapp>
 - Application Form accessible from this page
- SB 379 webpage: <https://www.energy.ca.gov/programs-and-topics/programs/residential-solar-permit-reporting-sb-379>
- Please join the CalAPP email list topic, available from our webpage or at <https://public.govdelivery.com/accounts/CNRA/signup/31719>
- CEC Contact: calapp@energy.ca.gov

Customer Experience





saira
solutions

+



Solar APP+





City of
LYNWOOD
California



Instant Solar Permits

The City of Lynwood is pleased to announce a new streamlined residential roof top solar plan check and permitting process.

New simplified Solar Permit Application - just one application to complete!

Apply for the qualifying Expedited Solar PV Permit through our
Lynwood Instant Solar Permits
<https://lynwood.edgesoftinc.com/cap/> or in person at City Hall.



scan me

**Residential Photovoltaic Eligibility Checklist -
for projects that comply with the new screening checklist,
no structural plan check required!**

For questions regarding this permit process,
please consult the Community Development Department at
(310) 603-0220, ext. 289 or visit <https://www.lynwoodca.gov>



← ONLINE SERVICES

 Online Permits +






 My Permits Status +

 Building Inspections +

 My Profile +

Welcome To The City Of Lynwood Online Portal!

Please refer to the navigation bar at the left of the screen to navigate. Some of the features include:

<h3><u>APPLY FOR PLANNING REVIEW</u></h3>  <p>Apply and pay for Online Planning Applications.</p> <p>CLICK HERE TO APPLY FOR PLANNING REVIEW →</p>	<h3><u>APPLY FOR INSTANT SOLAR PERMIT</u></h3>  <p>Apply and pay for Online Instant Solar Permit.</p> <p>CLICK HERE TO APPLY FOR INSTANT SOLAR PERMIT →</p>	<h3><u>PERMIT STATUS</u></h3>  <p>My Active Permits.</p> <p>CLICK HERE FOR MY ACTIVE PERMITS →</p>
<h3><u>INSPECTIONS</u></h3>  <p>Request an Inspection, Review Scheduled Inspections, Cancel a Scheduled Inspection.</p> <p>CLICK HERE TO REQUEST AN INSPECTION →</p>	<h3><u>MY PROFILE</u></h3>  <p>Review and update your profile. Provide the city with your contact information.</p> <p>CLICK HERE TO GO TO YOUR PROFILE →</p>	

Citizen Access Portal

Step 1 of 5 - Apply for Solar Permit: Address

1

At What Address Will This Permit/Application Be Taking Place?

Street Name

Street Number

Street Fraction

If you haven't yet obtained a confirmation number from SolarApp+ please [click here](#)

NEXT



Projects

All Approved

Name ▾

Demo Project

New Project

Enter the address and jurisdiction of your new project to get started.

Title

New Project 2022-10-27 15:46:22

Address

108 North Bluebird Drive, Green Valley, AZ, USA

Address Validated



108 N Bluebird Dr

Green Valley, AZ 85614

AHJ

Pima County, Arizona

Project Type

Nothing selected

Cancel

Continue

Help Center

Emily Fekete ▾

New Project

Export

Approval Date ▾

N/A







Citizen Access Portal

← ONLINE SERVICES

 Online Permits +

 My Permits Status +

 Building Inspections +

 My Profile +

Welcome To The City Of Norwalk Online Portal!

Please refer to the navigation bar at the left of the screen to navigate. Some of the features include:

APPLY FOR BUILDING PERMITS



Apply and pay for Online Building Permits.

[CLICK HERE TO APPLY FOR BUILDING PERMITS](#)



APPLY FOR PLANNING REVIEW



Apply and pay for Online Planning Applications.

[CLICK HERE TO APPLY FOR PLANNING REVIEW](#)



YARD SALE APPLICATION

Yard Sale Application

[CLICK HERE FOR YARD SALE APPLICATION](#)

INSTANT SOLAR PERMIT



This is applicable for residential solar permit only. For all other permits, use building permit process.

[CLICK HERE TO APPLY FOR INSTANT SOLAR PERMIT](#)



PERMIT STATUS



My Active Permits

[CLICK HERE FOR MY ACTIVE PERMITS](#)



INSPECTIONS

Request an Inspection,
Review Scheduled Inspections,
Cancel a Scheduled Inspection

[CLICK HERE TO REQUEST AN INSPECTION](#)

Step 1 of 4 – Basic Information

1

At What Address Will This Permit/Application Be Taking Place?

Street Name*

Street Number*

Street Fraction

SolarAPP+Approval ID*

Description

If you don't have a confirmation number from SolarApp+ please [click here](#)

If this involves a meter upgrade, please get an additional permit.

NEXT



Projects

All Approved

Name ▾

Demo Project

New Project

Enter the address and jurisdiction of your new project to get started.

Title

New Project 2022-10-27 15:46:22

Address

108 North Bluebird Drive, Green Valley, AZ, USA

Address Validated



108 N Bluebird Dr

Green Valley, AZ 85614

AHJ

Pima County, Arizona

Project Type

Nothing selected

Cancel

Continue

Help Center

Emily Fekete ▾

New Project

Export

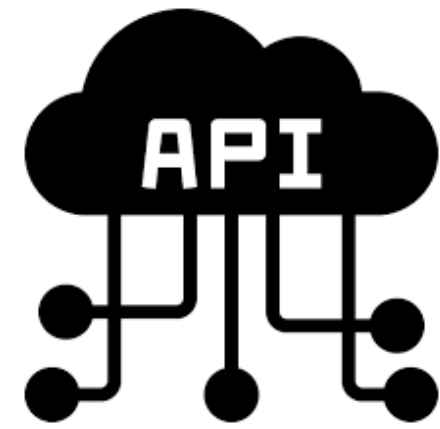
Approval Date ▾

N/A





saira
solutions



Symbium



**CITY OF
BURBANK**



Burbank Online Permits



ONLINE SERVICES

- Online Permits +
- Building Inspections +
- My Permits Status +
- My Profile +

Welcome To The City Of Burbank Online Portal!

Please refer to the navigation bar at the left of the screen to navigate. Some of the features include:

<h3>MY PERMITS</h3> <p>My Active Permits</p> <p>CLICK HERE FOR MY ACTIVE PERMITS</p>	<h3>INSPECTIONS</h3> <p>Request an Inspection, Review Scheduled Inspections, Cancel a Scheduled Inspection</p> <p>CLICK HERE TO REQUEST AN INSPECTION</p>	<h3>APPLY FOR BUILDING PERMITS</h3> <p>Apply and pay for Online Building Permits.</p> <p>CLICK HERE TO APPLY FOR PERMITS</p>
<h3>INSTANT SOLAR PERMIT</h3> <p>This is applicable for residential solar permit only. For all other permits, use building permit process.</p> <p>CLICK HERE TO INSTANT SOLAR PERMIT</p>	<h3>GARAGE SALE APPLICATION</h3> <p>Garage Sale Application</p> <p>CLICK HERE FOR GARAGE SALE APPLICATION</p>	<h3>MY PROFILE</h3> <p>Review and update your profile to provide the City with your current contact information</p> <p>CLICK HERE TO GO TO YOUR PROFILE</p>

25,454 total parcel(s) found

Clear all

City

Burbank

230 bethany road

Property Information

Lot Area

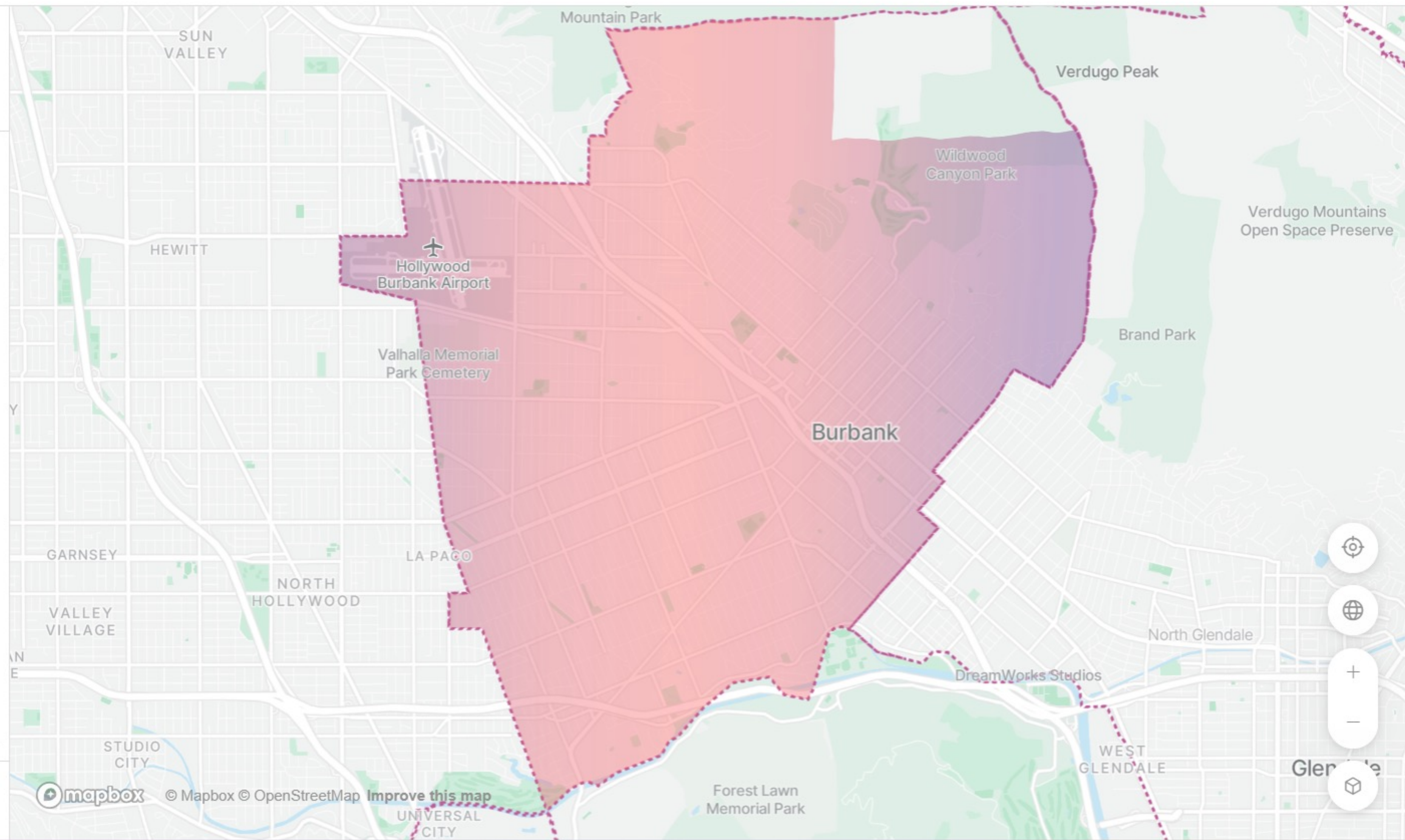
Min	sqft	Max	sqft
-----	------	-----	------

Assessment Values

Natural Hazards

Proximity to Transit

Feedback



CITY OF
LONG
BEACH

Population of almost ½ million Required to comply by October 2023

Steps we followed:

1. Adjusted the residential PV and ESS city permit fees in accordance with mandate
2. Trained and established a team of expert “permit technicians” to address the large number of expected submittals
3. Updated the existing checklists
4. Hired a consultant and developed a portal that applicants can pay and process their PV, ESS, and EVCS projects in real time
5. Applied and awarded a grant of \$100,000 from the CA Energy Commission (CEC)
6. Demonstrated the system and passed the CEC audit



COMMUNITY DEVELOPMENT

[LBCD Home](#)[About Us](#)[Services](#)[Resources & Forms](#)[Programs & Projects](#)[Maps](#)

[Home](#) » [Community Development](#) » [Building And Safety](#) » [Permit Center](#) » [Solar Photovoltaic \(PV\) Process](#)

SOLAR PHOTOVOLTAIC (PV) PROCESS



The City of Long Beach (City) is committed to encouraging and supporting the installation of rooftop solar PV systems that generates renewable energy, provides stable electricity, and reduces pollution. The City permits such installations by reviewing, approving, and issuing most construction permits (electrical and/or building) over the public counter process. The inspection of these projects can be scheduled and conducted at the convenience of the applicant upon the issuance of the construction permits.

SUBMIT ELECTRONIC SOLAR PV PLANS AND APPLICATIONS

The City's Development Permit Center accepts electronic solar PV plans and applications for the installation of solar PV systems.



HELPFUL QUICK LINKS

[PERMIT CENTER APPOINTMENTS](#)[PLAN REVIEW SERVICE](#)[SCHEDULE AN INSPECTION](#)[FORMS & APPLICATIONS](#)[FEE SCHEDULES](#)[INFORMATION BULLETINS](#)[ONLINE PERMITTING](#)

<https://www.longbeach.gov/lbcd/building/permit-center/solar-permit/>

Permit Statistics Since October 2023

Photovoltaic System (PV)	424
Energy Storage System (ESS)	16
Electrical Vehicle Charging Station (EVCS)	73
TOTAL	513



Public Works

LOS ANGELES COUNTY

LA County compliance with SB379 for an
online, automated permitting platform

LA County Compliance with SB379

SB379 requires a software platform that must be:

- Capable of verifying code compliance or issuing permits in real time.
- Consistent with the system parameters, configurations, and eligibility of SolarAPP+.

LA County elected to utilize their existing EpicLA platform to comply with SB379 by implementing two new “express permit” types:

- Express Solar Roof Mount Residential
- Express Solar Roof Mount Residential with Energy Storage System

LA County Compliance with SB379

To comply with California Senate Bill 379, LA County took the following steps:

- 1) Created “express permit” types as part of the EpicLA (Energov) online system.
- These application types were developed by the in-house IT Section. A copy of the design template used to make these permit application types is available to be shared.
 - EpicLA collects general information about the solar and energy system.
 - The applicant is responsible for providing accurate inputs, which are used to generate the fee and subsequently create a permit for those items.
 - Inspections can be scheduled online through EpicLA as well.
 - Additional information is provided to the applicants concerning outside agency involvement such as Fire Department and Department of Regional Planning (Coastal Commission).

LA County Compliance with SB379

To comply with California Senate Bill 379, LA County took the following steps:

- 2) Trained inspectors for review and inspections of solar and solar/ESS installations.
 - Inspection guide checklists for the express permit types were created.

**EXPRESS SOLAR PERMIT + EXPRESS SOLAR AND ENERGY STORAGE PERMIT
Inspection Guide Checklist**

		Y	N	NA
1	Applicant presented a copy of the permit and equipment data sheets.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Equipment model numbers and quantities on the express permit match what is on site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. PV Module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. DC-DC Converter ("optimizers")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Central Inverter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Microinverter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e. Racking system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f. Other equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	NRTL certifications are confirmed for all PV equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. PV module – UL1703 or UL61730	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Central or Microinverters – UL1741	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Racking System – UL2703	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. DC-DC Converter ("optimizers") – UL1741	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e. Other equipment – applicable standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Appropriate fire setbacks and pathways are provided.			
	PATHWAYS At least 2x 3-foot-wide pathways on separate roof planes are provided from the lowest roof edge to the ridge. At least one pathway is on the street or driveway side of the roof.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SETBACK AT RIDGE If the building does not have an automatic sprinkler system: - When the PV modules cover up to 33% of the total roof space, an 18" setback is provided on each side of the ridge. - When the PV modules cover more than 33% of the total roof space, a 36" setback is provided on each side of the ridge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If the building has an automatic sprinkler system: - When the PV modules cover up to 66% of the total roof space, an 18" setback is provided on each side of the ridge. - When the PV modules cover more than 66% of the total roof space, a 36" setback is provided on each side of the ridge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	EMERGENCY ESCAPE AND RESCUE OPENING Modules are arranged such that a 3-foot-wide pathway is available to any emergency escape and rescue openings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Y N NA

5	Roof and attachment details are consistent with the structural compliance method identified in the express permit: <input type="checkbox"/> Prescriptive Requirements <input type="checkbox"/> Attachment E – Structural Toolkit <input type="checkbox"/> Structural Engineering Calculations			
	Roof member size, roof member spacing, roof material, attachment method (lag size), attachment spacing, and height between module and roof are all appropriate for the selected method of structural compliance. Projects with site elevation > 2000 ft. (<i>especially Antelope Valley District Office</i>): Structural calculations include 20 psf snow load analysis.	<input type="checkbox"/>	<input type="checkbox"/>	
	PRESCRIPTIVE REQUIREMENTS 1) The roofing material is wood shingle, asphalt shingle, or rolled/torch-down and is single or double layered only. 2) The PV system weighs not more than 4 psf. 3) The maximum concentrated load imposed by the PV system supports onto the roof structure is 40 pounds. 4) The distance between the top most part of any module to the roof is less than 18". 5) Rafters are 2x4's (or better) spaced 24" on center with a maximum PV attachment span of 4 feet (48 inches) on center. 6) Attachments are made with minimum 5/16" lag screws with minimum 2.5" penetration depth.			
6	Roof penetrations, sealants, and flashings are installed correctly. No plumbing/attic vents are installed beneath the PV modules (or are rerouted appropriately).	<input type="checkbox"/>	<input type="checkbox"/>	
7	Rooftop and/or attic wiring methods are per Code. <i>PV Wire or USE-2/RHW-2 for exposed wires; exposed wires are secured beneath modules/rails and off the roof; THWN or THWN-2 or similar rated wire in raceways, wire size is appropriate, conduit size is appropriate, conduits are strapped/supported at appropriate intervals.</i>	<input type="checkbox"/>	<input type="checkbox"/>	
8	Rooftop junction box(es) are installed per Code. Transition from free-air wiring to raceway wiring methods using appropriate wire types, wire nuts, and C-Clamp properly crimped if applicable.	<input type="checkbox"/>	<input type="checkbox"/>	
9	The racking system is bonded per installation instructions with any grounding lugs and ground wire at appropriate locations.	<input type="checkbox"/>	<input type="checkbox"/>	
10	For installations in very high fire hazard severity zones, the racking system classification + module fire type rating are shown to have a Class A Rating.	<input type="checkbox"/>	<input type="checkbox"/>	

Y N NA

11	Rapid Shutdown equipment is installed per Section 690.12(B)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The Rapid Shutdown Initiation Device is one of the below options and is installed outside of the residence per Section 690.12(C). <input type="checkbox"/> Service disconnecting means <input type="checkbox"/> PV system disconnecting means <input type="checkbox"/> Readily accessible switch that plainly indicates whether it is in the "off" or "on" position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	The AC side breakers and wire sizes are determined using 125% of the inverter output current per Sections 690.8 and 690.9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The Equipment Grounding Conductor(s) are determined using the breaker/fuse size per Table 250.122	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	All AC wiring methods are per Code.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>THWN or THWN-2 or similar rated wire in raceways, wire size is appropriate, conduit size is appropriate, conduits are strap/supported at appropriate intervals.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	The backfeed contribution satisfies one of the 705.12 methods of compliance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Most commonly, installations will follow the "120% rule" per Section 705.12(B)(2)(3)(b). The PV breaker is installed at the opposite end of the main breaker or input feeders such that: MAX Backfeed = 1.2 x Busbar Rating – Main OCPD Rating If the main breaker is de-rated, a residential load calculation per Article 220 is presented to justify the demand is less than the main breaker rating.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	All PV labels are installed with values completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>See separate reference guide for more details.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	All equipment and inverter compatibility was verified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Examples: Solar Edge optimizer P370 allows for a maximum input of 370W with a footnote allowing up to +5% → 388.5W absolute maximum power for the module rating SolarEdge optimizer P400 requires a minimum of 8 per string and up to a maximum of 5700W per string on 3.0, 3.8, 5.0, 6.0 kW inverter OR 6000W per string on the 7.6 kW and higher rated inverters SolarEdge inverters have a maximum DC power allowed. For example, a maximum of 11.8 kW DC (rating of all modules) on a 7.6 kW SolarEdge inverter is allowed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Y N NA

17	When a main panel upgrade is part of the scope of work...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Panel is accounted for on an issued electrical permit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Overhead entrance conductors are sized to Section 310.12(A).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Vertical riser is strapped per Code based on the type of conduit selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Grounding Electrode Conductor (GEC) is sized to Table 250.66	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If structure is served by a metallic water service, the water pipe electrode is bonded within the first five feet of entrance into the building. Section 250.68(C)(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	At least one type of electrode is used to supplement the water pipe electrode per Section 250.53(D)(2) If using ground rods as the supplemental electrode type, at least 2 ground rods shall be installed with minimum of 6 feet separation. Section 250.53(A)(2)&(3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	If the main service panel was relocated such that circuits are extended more than six feet, AFCI protection is provided for applicable circuits per Section 210.12(D).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Smoke and carbon monoxide detectors are installed inside the residence where required. <i>(Video documented or walk-through)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	The applicant provided a completed permit affidavit form – eligible on projects <38.4kW (AC Nameplate Rating). If no permit affidavit is completed, the modules are verified to be installed on a legal structure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Electrical work in general is per Code and there are no code violations related to the PV installation. Possible examples shown below.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Working clearance for panels and fused disconnects. Section 110.26 Location of breakers not more than 6'7" from floor/grade. Section 240.24(A) Equipment is at least 5 feet from pool edge. Section 680.22(C) Conduit, junction box, and raceway fills are not exceeded. Chapter 3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

****For projects that are in the COASTAL COMMISSION AREA, a referral from the field office staff must be made to the Department of Regional Planning for their review and approval.**

THIS SECTION OF THE CHECKLIST IS ONLY APPLICABLE TO THE ENERGY STORAGE SYSTEMS INSTALLED AS PART OF AN EXPRESS PERMIT FOR SOLAR AND ENERGY STORAGE.

		Y	N	NA
1	Applicant presented a copy of the permit and equipment data sheets.	<input type="checkbox"/>	<input type="checkbox"/>	
	Equipment model numbers and quantities on the express permit match what is on site.	<input type="checkbox"/>	<input type="checkbox"/>	
2	LA County Fire Department field inspection completed.	<input type="checkbox"/>	<input type="checkbox"/>	
3	The energy storage system is listed by an NRTL to UL9540. Section R328.2	<input type="checkbox"/>	<input type="checkbox"/>	
4	<p>The location of the ESS is installed in a location allowed by Section R328.4</p> <ol style="list-style-type: none"> 1. Detached garages and detached accessory structures. 2. Attached garages separated from the dwelling unit living space in accordance with Section R302.6 3. Outdoors or on the exterior side of exterior walls located not less than 3 ft from doors and windows directly entering the dwelling unit. 4. Enclosed utility closets, basements, storage, or utility spaces within dwelling units with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than 5/8-inch Type X gypsum wallboard. <p>ESS shall not be installed in sleeping rooms, closets, spaces opening directly into sleeping rooms or in habitable spaces of dwelling units.</p>	<input type="checkbox"/>	<input type="checkbox"/>	
5	The spacing between individual ESS units is at least 3 feet per Section R328.3.1	<input type="checkbox"/>	<input type="checkbox"/>	
	LA County Fire Department approved plans or documentation for a closer spacing may be shown instead.	<input type="checkbox"/>	<input type="checkbox"/>	
6	Disconnecting means for the ESS is provided in a readily accessible location, is lockable in the open position, and is within sight of the ESS. If not already outside, an additional disconnect is required outside. Section 706.15(A)	<input type="checkbox"/>	<input type="checkbox"/>	
7	Overcurrent protective devices (OCPD) are provided on the ESS circuit per Section 706.31(A).	<input type="checkbox"/>	<input type="checkbox"/>	
	An OCPD is provided at the ESS location if the conductors to the connected equipment pass through a wall, floor, or ceiling. Section 706.31(F)	<input type="checkbox"/>	<input type="checkbox"/>	
8	The DC or AC side OCPDs and wire size are determined using 125% of the output current per Sections 706.30(B) and 706.31(B).	<input type="checkbox"/>	<input type="checkbox"/>	
	The Equipment Grounding Conductor(s) are determined using the breaker/fuse size per Table 250.122	<input type="checkbox"/>	<input type="checkbox"/>	

9	Where the ESS is connected to a backfed circuit breaker, an additional fastener shall be provided on that breaker per Section 408.36(D).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The circuit breaker and additional fastener shall be made by the same manufacturer.			
10	The backfeed contribution satisfies one of the 705.12 methods of compliance.			
	<p><i>Most commonly, installations will follow the "120% rule" per Section 705.12(B)(2)(3)(b). The PV/ESS breaker is installed at the opposite end of the main breaker or input feeders such that:</i></p> <p>MAX Backfeed = 1.2 x Busbar Rating – Main OCPD Rating</p> <p>Alternatively, the installer demonstrates the system is equipped with a Power Control System (PCS) and has been programmed to meet compliance via Section 705.13.</p>	<input type="checkbox"/>	<input type="checkbox"/>	
11	Each panel is protected from all available power sources. Section 408.30	<input type="checkbox"/>	<input type="checkbox"/>	
12	Electrical work in general is per Code and there are no code violations related to the ESS installation. Possible examples shown below.			
	<p>*Working clearance for panels and fused disconnects. Section 110.26 Location of breakers not more than 6'7" from floor/grade. Section 240.24(A) Equipment is at least 5 feet from pool edge. Section 680.22(C) Conduit, Junction Box, and Raceway fills are not exceeded. Chapter 3. Physical protection shall be provided if the equipment is on the back wall of a garage or otherwise facing vehicle traffic.</p> <p>*ESS are required to have working clearance per Section 706.20(C)(1).</p>	<input type="checkbox"/>	<input type="checkbox"/>	
13	Manufacturer instructions specific to the ESS product have been followed.			
	<p><i>Common examples:</i> The Solar Edge Back Up Interface has terminals for the "grid" connection and for the "backup loads" connection that accept #4-4/0 wires. A minimum #4 wire is needed even if a smaller sized breaker is used on either end of those terminals.</p> <p>The Tesla Gateway 2 comes standard with a "Neutral-Bond Strap" installed. This should be removed in any installation where the Gateway 2 is not acting as the main service (which is almost all installations in LA County).</p> <p>The Tesla Gateway 2 has various configurations for its internal panelboard to be installed. If installed as the "non-back up" panel within the Gateway 2, it is required to have a backfed 100A (max) main breaker.</p> <p>The Sunpower Hub+ is permitted to be installed on a circuit breaker up to 200A from the main service panel. The "non back up pan" (subpanel) within the HUB+ is rated 125A. If the breaker at the main panel is larger than 125A, a 125A (max) main breaker must be installed on that pan within the HUB+.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Solar Checklist

Project Name : **MT Test**

- ▶ APPLICANT INFORMATION
- ▶ PROJECT SELECTION
- ▶ PERMIT TYPE
- ▶ **SOLAR CHECKLIST**
- ▶ WORK DESCRIPTION
- ▶ SOLAR WORKSHEET
- ▶ SOLAR WORKSHEET REVIEW
- ▶ SCOPE OF WORK
- ▶ PERMIT REVIEW

Please select Yes or No:

Is there any existing ESS and or existing PV on this property?

Yes No

Is the service rated greater than 225A?

Yes No

Does the total PV system exceed 38.4 kWAC?

Yes No

Are you using a service that is rated other than 120/240V single phase?

Yes No

Are multiple solar module types being used for this installation?

Yes No

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All items marked with asterisk (*) are required

▶ APPLICANT INFORMATION ▶ PROJECT SELECTION ▶ PERMIT TYPE ▶ SOLAR CHECKLIST ▶ **WORK DESCRIPTION** ▶ SOLAR WORKSHEET ▶ SOLAR WORKSHEET REVIEW ▶ SCOPE OF WORK ▶ PERMIT REVIEW

PV System Grounding Method

Ungrounded Grounded

Work Description

Installation of a roof-mounted central/string inverter solar photovoltaic (PV) system, not exceeding 38.4kW in a 1 or 2 family dwelling.

Installation Requirements

1. The number of strings is four or fewer (with or without one combiner box).
2. The total capacity of the PV system is 38.4kWac or less.
3. GFCI or AFCI over current devices are not installed in the Alternate Current (AC) output of the inverter
4. PV modules are roof-top mounted and are crystalline or multi-crystalline type.
5. The AC power system is rated 120/240 volts single phase
6. The service disconnect is rated for less than or equal to 225A with a busbar size up to 400A, and meets one of the methods of compliance per NEC 2020 705.12(B)(3)(2) or 705.13.
7. The PV system does not consist of any the following items: storage battery, building integrated photovoltaic, photovoltaic roll roofing.
8. DC arc-fault circuit protecting device shall be installed per 690.11.
9. A separate building permit may be required for the ground mounted structural support of the solar photovoltaic system. Refer to Information Bulletin P/GI 2014-027 "Guidelines for Plan Check and Permit Requirements for Solar Energy Devices" for more information.
10. Solar PV system will be installed on an existing permitted building/structure.
11. PV Solar installation shall comply with [LAFD requirement NO. 96](#)

Rent Control

For installations in rental properties that are subject to the Rent Stabilization Ordinance, no portion of the work covered by this permit will occur in any habitable room, unit, or housing accommodation. Further, the portion of the work being performed under this permit shall not affect tenant habitability and/or safety. For additional information, refer to the Los Angeles Housing and Community Investment Department's ["Identification Checklist For All Rental Properties Subject to the Rent Stabilization Ordinance"](#).

City Planning Requirements

I hereby acknowledge that I have read the [Los Angeles City Planning Department Advisory Notice for Installing Solar Equipment on Historic Buildings](#).

I have read and agree to follow the above Terms & Conditions.

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NEXT

Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

General Information

Total Number of Inverters Installed: 4

Inverter 1 Power Rating: 10.0 kW

Inverter 2 Power Rating: 10.0 kW

Inverter 3 Power Rating: 10.0 kW

Inverter 4 Power Rating: 7.6 kW

Number of AC Backfeed Overcurrent Protective Device (OCPD): 4

Size of AC Backfeed Overcurrent Protective Device 1 (OCPD): 55 A

Size of AC Backfeed Overcurrent Protective Device 2 (OCPD): 55 A

Size of AC Backfeed Overcurrent Protective Device 3 (OCPD): 55 A

Size of AC Backfeed Overcurrent Protective Device 4 (OCPD): 55 A

Are you installing a branch circuit for Energy Meter? Yes No

Module Information

Inverter 1 System

Module Manufacturer: a

Module Model: a

Module Voc (from module nameplate): 44.5 Volts

Module Isc (from module nameplate): 9.76 Amps

Module DC Output Power under Standard Test Conditions (STC): 340 Watts

Module Vmpp (from module nameplate): 37.8 Volts

Module Impp (from module nameplate): 9.0 Amps

Solar Photovoltaic (PV) System AC Output Power Rating: 37.60 kW

All inverters are using same module information.

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NEXT

Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter Information

Inverter 1 Information

Inverter Manufacturer:

Inverter Model:

Max Continuous AC Output Current Rating: Amps

Max. Input Short Circuit Current Rating: Amps

Max Inverter Input Voltage Rating: Volts

Are DC/DC Converters used? Yes No

Does Inverter2 system have the same Inverter1 information? Yes No

Does Inverter3 system have the same Inverter2 information? Yes No

Does Inverter4 system have the same Inverter3 information? Yes No

Inverter 4 Information

Inverter Manufacturer:

Inverter Model:

Max Continuous AC Output Current Rating: Amps

Max. Input Short Circuit Current Rating: Amps

Max Inverter Input Voltage Rating: Volts

Are DC/DC Converters used? Yes No

Inverter 1 System

DC Module Layout

How many source circuits (strings) are installed in Inverter 1 System?

Source Circuit Label	Number of Modules per Source Circuit
String 1	<input type="text" value="10"/>
String 2	<input type="text" value="10"/>
String 3	<input type="text" value="10"/>

Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter 1 System (Continued)

DC/DC Converter

Are DC/DC Converters used? Yes No

DC/DC Converter Model

DC/DC Converter Max DC Input Voltage Volts

Max DC Output Voltage Volts

Max DC Output Current Amps

Number of Modules per DC/DC Converter

DC/DC Converter Max DC Input Power Watts

DC/DC Converter Used with

Do DC/DC Converters run in parallel on one source circuit? Yes No

Largest number of DC/DC converters running in parallel on one source circuit

Maximum System DC Voltage

Are you using the module manufacturer's open-circuit voltage temperature coefficient (TC_{VOC})? Yes No

Select the unit for the Temperature Coefficient %/°C mV/°C

Enter the temperature coefficient value (Format: -0.xxx) %/°C

Sizing PV Source Circuit Conductors

Number of current carrying conductors in raceway

Raceway height above the roof

Inverter DC Disconnect

Does the inverter have an integrated DC disconnect? Yes No

Sizing Inverter Output Circuit Conductors

Number of current carrying conductors in raceway

Raceway height above the roof

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Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter 2 System

DC Module Layout Copy information from Inverter 1 system. Please review and edit information as applicable.

How many source circuits (strings) are installed in Inverter 2 System?

Source Circuit Label	Number of Modules per Source Circuit
String 1	<input type="text" value="10"/>
String 2	<input type="text" value="10"/>
String 3	<input type="text" value="10"/>

DC/DC Converter Copy information from Inverter 1 system. Please review and edit information as applicable.

Are DC/DC Converters used? Yes No

DC/DC Converter Model

DC/DC Converter Max DC Input Voltage Volts

Max DC Output Voltage Volts

Max DC Output Current Amps

Number of Modules per DC/DC Converter Watts

DC/DC Converter Max DC Input Power Watts

DC/DC Converter Used with

Do DC/DC Converters run in parallel on one source circuit? Yes No

Largest number of DC/DC converters running in parallel on one source circuit

Maximum System DC Voltage Copy information from Inverter 1 system. Please review and edit information as applicable.

Are you using the module manufacturer's open-circuit voltage temperature coefficient ($TC_{V_{oc}}$)? Yes No

Select the unit for the Temperature Coefficient %/°C mV/°C

Enter the temperature coefficient value (Format: -0.xxxx) %/°C

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Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter 2 System (Continued)

Sizing PV Source Circuit Conductors Copy information from Inverter 1 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

Inverter DC Disconnect Copy information from Inverter 1 system. Please review and edit information as applicable.

Does the inverter have an integrated DC disconnect? Yes No

Sizing Inverter Output Circuit Conductors Copy information from Inverter 1 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

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Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter 3 System

DC Module Layout Copy information from Inverter 2 system. Please review and edit information as applicable.

How many source circuits (strings) are installed in Inverter 3 System?

Source Circuit Label	Number of Modules per Source Circuit
String 1	<input type="text" value="10"/>
String 2	<input type="text" value="10"/>
String 3	<input type="text" value="10"/>

DC/DC Converter Copy information from Inverter 2 system. Please review and edit information as applicable.

Are DC/DC Converters used? Yes No

DC/DC Converter Model

DC/DC Converter Max DC Input Voltage Volts

Max DC Output Voltage Volts

Max DC Output Current Amps

Number of Modules per DC/DC Converter Watts

DC/DC Converter Max DC Input Power Watts

DC/DC Converter Used with

Do DC/DC Converters run in parallel on one source circuit? Yes No

Largest number of DC/DC converters running in parallel on one source circuit

Maximum System DC Voltage Copy information from Inverter 2 system. Please review and edit information as applicable.

Are you using the module manufacturer's open-circuit voltage temperature coefficient (TC_{voc})? Yes No

Select the unit for the Temperature Coefficient %/°C mV/°C

Enter the temperature coefficient value (Format: -0.000) %/°C

Sizing PV Source Circuit Conductors Copy information from Inverter 2 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

Inverter DC Disconnect Copy information from Inverter 2 system. Please review and edit information as applicable.

Does the inverter have an integrated DC disconnect? Yes No

Sizing Inverter Output Circuit Conductors Copy information from Inverter 2 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Inverter 4 System

DC Module Layout Copy information from Inverter 3 system. Please review and edit information as applicable.

How many source circuits (strings) are installed in Inverter 4 System?

Source Circuit Label	Number of Modules per Source Circuit
String 1	<input type="text" value="11"/>
String 2	<input type="text" value="11"/>

DC/DC Converter Copy information from Inverter 3 system. Please review and edit information as applicable.

Are DC/DC Converters used? Yes No

DC/DC Converter Model

DC/DC Converter Max DC Input Voltage Volts

Max DC Output Voltage Volts

Max DC Output Current Amps

Number of Modules per DC/DC Converter Watts

DC/DC Converter Max DC Input Power Watts

DC/DC Converter Used with

Do DC/DC Converters run in parallel on one source circuit? Yes No

Largest number of DC/DC converters running in parallel on one source circuit

Maximum System DC Voltage Copy information from Inverter 3 system. Please review and edit information as applicable.

Are you using the module manufacturer's open-circuit voltage temperature coefficient (TC_{voc})? Yes No

Select the unit for the Temperature Coefficient %/°C mV/°C

Enter the temperature coefficient value (Format: -0.000) %/°C

Sizing PV Source Circuit Conductors Copy information from Inverter 3 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

Inverter DC Disconnect Copy information from Inverter 3 system. Please review and edit information as applicable.

Does the inverter have an integrated DC disconnect? Yes No

Sizing Inverter Output Circuit Conductors Copy information from Inverter 3 system. Please review and edit information as applicable.

Number of current carrying conductors in raceway

Raceway height above the roof

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NEXT

Your input on this worksheet will be used to calculate the values required for the standard plan, and to determine the scope of work for the permit application.

Generation Subpanel

Combined PV inverters OCPD(s) rating Amps

The 125% of combined PV nameplate rated circuit currents: Amps

* Subpanel busbar rating ≤ 250 Amps

* Subpanel main OCPD rating ≤ 200 Amps

Number of output current carrying conductors in raceway

Raceway height above the roof

Point of Connection to Main Service Panel

Is this a new or existing service panel?

Existing New

Main Circuit Breaker Rating (Main OCPD Size) ≤ 225 Amps

Main Service Panel Busbar Rating (Bus Size) ≤ 400 Amps

Based on the indicated Main Service Panel Busbar Rating (Bus size) and Electric Power Sources Combined Output OCPD Rating, Main Service disconnect rating is not to exceed Amps

If the main breaker is reduced, a load calculation per Article 220 must accompany the Standard Plans to show that the reduction is allowed.

Rapid Shutdown

The rapid shutdown initiation device shall be labeled according to CEC 690.56(C), and its location shall be shown on the site plan drawing. The rapid shutdown system on the building shall comply with 690.12(A) through (D).

Grounding and Bonding of Modules and Racking System

Racking system listed to UL 2703 using modules identified in the listing

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* Separate Fused AC Disconnect ▼

Conductor, Cable and Conduit Schedule

Conductor/Cable Installation shall be subject to field inspection Per LA City 2020 Electrical Code.

[Click here to view the Single Line Diagram 1A to indicate tags for A, B, C and D](#)

[Click here to view the Single Line Optimizers Diagram to indicate tags for A, B, and C](#)

Supplemental Worksheet

* Are Junction boxes installed on the rooftop (Label 3 under single line)? ▼

* Is a Separate DC disconnect installed for the solar system(Label 4 under single line)? ▼

* Does the inverter has a built in DC disconnect(Label 5a under single line)? ▼

* Does the inverter has a built in AC disconnect(Label 5b under single line)? ▼

* Is a Separate AC disconnect installed for the solar system(Label 7 under single line)? ▼

* Is a performance meter required and installed per LADWP(Label 8 under single line)? ▼

* What is the rating of the main service(Label 9 under Single Line 1)? ≤ 225 Amps

Tag A / B : Current-Carrying Conductors (TYP based on the largest source circuit)

Conductor Size

Number of Conductors

* Conductor/Cable type ▼

* Conduit Size ▼

* Conduit Type ▼

Tag A / B : EGC(AWG Copper)

* Conductor Size ▼

* Number of Conductors

* Conductor/Cable type ▼

Tag C : Current-Carrying Conductor (TYP based on the largest Inverter-output circuit)

Conductor Size	<input type="text" value="6"/>
* Number of Conductors	<input type="text" value="2"/>
* Conductor/Cable type	<input type="text" value="THHW"/>
* Conduit Size	<input type="text" value="1 1/4"/>
* Conduit Type	<input type="text" value="FMT"/>

Tag C : EGC(AWG Copper)

* Conductor Size	<input type="text" value="8"/>
* Number of Conductors	<input type="text" value="3"/>
* Conductor/Cable type	<input type="text" value="THWN-2"/>

Tag D : Current-Carrying Conductors

Conductor Size	<input type="text" value="3/0"/>
* Number of Conductors	<input type="text" value="3"/>
* Conductor/Cable type	<input type="text" value="THHW"/>
* Conduit Size	<input type="text" value="3/4"/>
* Conduit Type	<input type="text" value="RMC"/>

Tag D : EGC(AWG Copper)

* Conductor Size	<input type="text" value="12"/>
* Number of Conductors	<input type="text" value="2"/>
* Conductor/Cable type	<input type="text" value="THHW"/>

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REVIEW

Summary Review page(see PDF)

Standard Plan - Central Inverters Scope of Work

Project Name : **MT Test**

All items marked with asterisk (*) are required

▶ SOLAR WORKSHEET 2 ▶ SOLAR WORKSHEET 3 ▶ SOLAR WORKSHEET 4 ▶ SOLAR WORKSHEET 5 ▶ SOLAR WORKSHEET 6 ▶ **SCOPE OF WORK** ▶ PERMIT FEES REVIEW

The following is a list of equipment based on the information you have entered.

Solar Photovoltaic System	
Branch Circuit	<input type="text" value="11"/>
Modules (DC)	<input type="text" value="112"/>
Inverter (0-3kW)	<input type="text" value="0"/>
Inverter (3.1-5kW)	<input type="text" value="0"/>
Inverter (5.1-20kW)	<input type="text" value="4"/>
Inverter (20.1-50kW)	<input type="text" value="0"/>
Panel (0 - 200 Amps)	<input type="text" value="0"/>
Panel (201 - 600 Amps)	<input type="text" value="1"/>

UPDATE WORKSHEET

NEXT

Permit Fees Review



Applying as: Contractor
License Number: 92
Expiration Date: 08/31/2025
BTRC Number: 0000068488

Permit Address: 204 E SUNSET AVE 90291
Permit Type: Solar PV/ Energy Storage - Electrical
Permit Sub-Type: House/Duplex

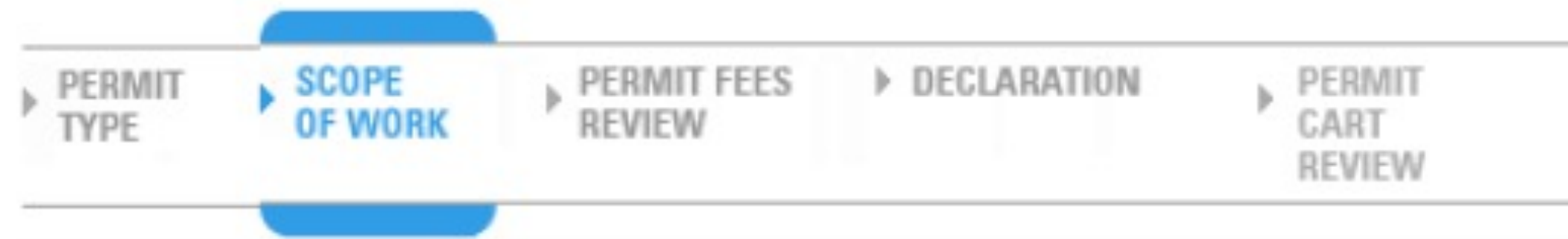
Fee Item	Fee Amount
Ltg/Gen Rec, Dwell App, Non-Dwell App(PVR)	\$187.00
Modules	\$672.00
Inverter (5.1 to 20 kW)	\$108.00
Panel 201-600 Amp	\$16.00
Fee Subtotal	\$983.00
State Cap (AB1414)	\$-533.00
Issuing fee	\$23.00
Dev Serv Center Surch	\$14.19
System Surcharge	\$28.38
Total Fees Due	\$515.57

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NEXT

Electrical - Scope of Work

All items marked with asterisk (*) are required



Enter the applicable items to be included on this permit within each of the designated boxes.

Leave boxes blank that are not applicable. If you are not sure which boxes are applicable, please call our customer Call Center at one of the following numbers:

Within Los Angeles County, dial 311
Outside Los Angeles County, dial (213) 473-3231

Service Panel Upgrade		
<input type="checkbox"/>	0 - 200A	
<input checked="" type="checkbox"/>	201 - 400A	1

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NEXT

Permit Fees Review



Permit Address: 204 E SUNSET AVE 90291

Applying as: Contractor
License Number: 92
Expiration Date: 08/31/2025
BTRC Number: 0000068488

Permit Type: Electrical
Permit Sub-Type: House/Duplex

Fee Item	Fee Amount
Services 201-600 Amp	\$34.00
Fee Subtotal	\$34.00
State Cap (AB1414)	\$0.00
Issuing fee	\$23.00
Dev Serv Center Surch	\$1.71
System Surcharge	\$3.42
Total Fees Due	\$62.13

BACK

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Permit Cart Review



204 E SUNSET AVE 90291

[Electrical](#)
Application No 1821496

09/27/2023 20:40:25

\$62.13

[Solar PV/ Energy Storage - Electrical](#)
Application No 1821495

09/27/2023 20:40:25

\$515.57

[Apply For Another Permit](#)

[Continue To Pay](#)

Q&A

Questions?

For additional questions about this program,
please contact the CALBO Office at
916-457-1103 or info@calbo.org