City of Santa Ana

This page outlines solar PV incentives, financing mechanisms, permitting process, and interconnection information for the City of Santa Ana and the utility that serves its territory, Southern California Edison.

To skip directly to each section please use these hyperlinks:
Find an Installer | Financing | Incentives | Permitting | Interconnection

Contact Information
City of Santa Ana
Planning and Building Agency
20 Civic Center Plaza, Ross Annex M-19
Santa Ana, CA 92702

Phone:
Office: (714) 647-5800
Inspection Request Line: (714) 667-2738

Website:
http://www.santa-ana.org/pba/default.asp

Hours:
Monday, Tuesday, Thursday: 8:00AM - 4:00PM
Wednesday: 10:00AM - 4:00PM
Friday: Closed
Find an Installer

- Qualified contractors are your key to getting the most productive solar energy system for your home or business.
  - Typically solar installers will:
    - Locate financing programs to fit your needs
    - Apply for rebates and incentives on your behalf
    - Apply for local permits
    - Install your PV system
    - Arrange for your PV system to be interconnected to your utility's power grid

- California Solar Statistics provides a searchable/sortable list of Installers, Contractors, and Sellers by area who can help you in the process of going solar:
  - [http://californiasolarstatistics.com/search/contractor/](http://californiasolarstatistics.com/search/contractor/)
  - Important Notes:
    - Costs are measured on a per watt basis
It is important to remember that cost is not the only factor involved in system installation.

It is highly recommended to contact a minimum of three installers to compare costs, system sizing, and services offered before signing a contract.

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**Financing Information**

**Federal Solar Incentives**

- **Residential Renewable Energy Tax Credit**
  - A taxpayer may claim a credit of 30% of qualified expenditures for a solar system that serves a residence located in the United States that is owned and used as a residence by the taxpayer.

- **Business Energy Investment Tax Credit (ITC)**
  - This federal tax credit is equal to 30% of expenditures on a solar system, with no maximum credit.
    - [http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=US02F&re=1&ee=1](http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=US02F&re=1&ee=1)

**Third Party Ownership**

- **Solar Power Purchase Agreements**
  - A Solar Power Purchase Agreement is a financial arrangement in which a third-party developer owns, operates, and maintains the photovoltaic system, and a host customer agrees to site the system on its property and purchases the system’s electricity. With this business model, the host customer buys the kilowatt hours of electricity produced by the PV system rather than the PV system itself. This financial arrangement allows the host customer to receive stable, and sometimes lower cost electricity, while the solar services provider or another party acquires valuable financial benefits such as tax credits and income generated from the sale of electricity to the host customer.

- **Solar Leases**
  - Solar Leases are similar to Power Purchase Agreements in that a third party pays for and owns the system, but with this financing mechanism a customer pays a fixed monthly fee that is not tied to actual use and is responsible for system performance, operations and maintenance.
Southern California Edison Solar Rooftop Program

- This commercial leasing program allows commercial building owners to lease their roof space to SCE to install solar systems. SCE will pay the building owners to lease their rooftop and generate electricity for the SCE energy grid.

Secured Financing

Secured financing is a loan in which the borrower pledges some asset as collateral. Typically for a solar installation this collateral is a home or building. The following secured loans are available in the SCRC region:

- Home Equity Lines of Credit (HELOCs) and Home Equity Loans (HELs)
  - HELOCs are forms of revolving credit in which a home serves as collateral. A HEL is a loan that has a fixed rate and term and also uses a home as collateral. The major difference between these two types of financing mechanisms is that HELOCs are similar to a credit card – you can withdraw money as needed and pay back the debt indefinitely – whereas an HEL gives you a one-time lump sum of cash that is paid off over a fixed amount of time. These types of loans are typically available through banks.

- FHA 203(k) Rehabilitation Loans
  - The Federal Housing Administration (FHA), which is part of the U.S. Department of Housing and Urban Development (HUD), administers various single family mortgage insurance programs. These programs operate through FHA-approved lending institutions which submit applications to have the property appraised and have the buyer's credit approved. These lenders fund the mortgage loans which the HUD insures, thereby giving a line of credit to the property owner to make property upgrades, such as solar PV installations.

- HUD Title 1 PowerSaver Loans (Secured or Unsecured)
  - The PowerSaver program insures loans to finance small or moderate improvements to a home, such as a solar energy upgrade. The PowerSaver pilot will provide lender
insurance for secured and unsecured loans up to $25,000 to single family homeowners specifically targeting residential energy efficiency and renewable energy improvements.

- [www1.eere.energy.gov/wip/solutioncenter/financialproducts/PowerSaver.html](http://www1.eere.energy.gov/wip/solutioncenter/financialproducts/PowerSaver.html)

**Unsecured Financing**

Unsecured financing is a loan that is not backed by any collateral. Credit cards and personal loans are the most common examples of unsecured financing. Unsecured financing products available for energy upgrades include personal loans and contractor-sponsored products. However, unsecured financing does come with drawbacks: a good line of credit is typically required with no collateral and the interest rates tend to be higher than with secured loans. However, with some publicly-supported programs, the jurisdiction will pay the interest rate down to attract borrowers.

- **Fannie Mae Energy Loan**
  - Fannie Mae offers a direct, non-recourse consumer loan program that will finance up to $20,000 in energy improvements without putting a lien on your home. Energy Loan is a simple interest, fixed rate loan with longer terms available than typical bank financing.
    - [www.energyloan.net/index.php](http://www.energyloan.net/index.php)

- **Clean Energy Upgrade Financing Program - ABX1 14**
  - ABX1 14 authorizes the California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA) to administer a Clean Energy Upgrade Financing Program using up to $25 million to finance the installation of distributed generation renewable energy sources, electric vehicle charging infrastructure, or energy or water efficiency improvements on homes or small commercial properties.
    - [http://www.treasurer.ca.gov/caeatfa/abx1_14/index.asp](http://www.treasurer.ca.gov/caeatfa/abx1_14/index.asp)

**Other Financing Mechanisms**
Feed-in Tariff (FIT)
- Under a feed-in tariff, eligible renewable electricity generators are paid for the generating renewable electricity and feeding it into the utility grid.
  - SCE FIT Program

Virtual Net Metering
- VNEM is similar to ordinary Net Energy Metering (NEM) but is for multi-metered properties. VNEM is an agreement under which a share of production credits from a single solar system can be distributed to individual ratepayers in a multi-tenant property.

Incentive Information
- Federal Solar Incentives
  - Residential Renewable Energy Tax Credit
    - A taxpayer may claim a credit of 30% of qualified expenditures for a solar system that serves a residence located in the United States that is owned and used as a residence by the taxpayer.
      - http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=US37F&re=1&ee=1
  - Business Energy Investment Tax Credit (ITC)
    - This federal tax credit is equal to 30% of expenditures on a solar system, with no maximum credit.
      - http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=US02F&re=1&ee=1

- California Solar Initiative (CSI)
  - www.gosolarcalifornia.com/csi

- Program Administrator
  - Southern California Edison
  - Phone: (866) 584-7436
  - Email: CSIGroup@sce.com
Step by Step Process of getting a CSI solar rebate

- **Step 1: Energy Efficiency Audit**
  Complete an energy efficiency audit and make sure to take advantage of all the cost-effective ways to save energy and money in your home or business.

- **Step 2: Find a Solar Installer**
  Qualified contractors are your key to getting the most productive solar energy system for your home or business.

- **Step 3: Apply for Rebates**
  Qualified contractors will handle the CSI application process for your rebates in two or three steps.

- **Step 4: Install Your System**
  If you have received your reservation confirmation letter, you're ready to install your system and interconnect to the utility's power grid.

- **Step 5: Claim Your Incentive**
  When your project is installed and operational you may submit the Incentive Claim Form.
Solar Equipment Submittal Checklist:

Permit Handouts page:
[http://www.ci.santa-ana.ca.us/pba/BuildingHandouts.asp](http://www.ci.santa-ana.ca.us/pba/BuildingHandouts.asp)

Permitting Process:

**STEP 1: Submit Applications and Plans**
- Submit documentation to Planning Department for Solar Plan Check:
  - See the Solar Equipment Submittal Checklist for required documents:
STEP 2: Initial Screening
  - The City of Santa Ana will do a quick screening to ensure all documents are included in the application.

STEP 3: Plans are accepted for plan check
  - If the initial screen is approved from STEP 2, the application will be moved to plan check.

STEP 4: Building and Electrical Plan Check
  - Upon completion of the solar plan check, the documentation will need to be submitted to the Building Division to review the structural and electrical plans for code compliance.

STEP 5: Permit Issued
  - Upon approval of all permit documents by the City of Santa Ana, the permit will be issued.

STEP 6: Install PV System

STEP 7: Request Inspections
  - Inspections
    - [https://ww2.santa-ana.org/bldginspections.aspx](https://ww2.santa-ana.org/bldginspections.aspx)
    - Upon receiving your permits you will be given an inspection card and approved plans. When your installation is complete, you will need to schedule a final inspection with the City of Santa Ana.
    - For New Construction Inspections there are two methods for scheduling:
      i. Online: [www.santa-ana.org/pba/buildingsafety](http://www.santa-ana.org/pba/buildingsafety)
      ii. By Phone: (714) 667-2738
        1. An automated response will explain the process and record your message. Please provide the following information:
           a. Permit number
           b. Complete address, including suite numbers
           c. Type of inspection: Structural, Plumbing, Mechanical, Electrical
           d. Inspection Code (located on your inspection card)
           e. Example: 20 = Electrical Final
           f. The date you would like the inspection
           g. Any special instructions for the inspector (optional)
It will take approximately 5 business days to schedule an inspection.

- You will need the following documents for your inspection:

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<td>1.</td>
<td>Have all approved plans on-site for inspection. If the inspector arrives at your job-site and the approved plans are not able to be located, the inspector will write a correction to &quot;have approved plans on-site for inspection.&quot; This will end the inspection.</td>
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<td>2.</td>
<td>Access to the area of inspection. This may require keys, gate codes, combinations to locks, and in some cases, an escort.</td>
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<td>3.</td>
<td>Job card. The inspector may not approve the requested inspection until other necessary inspections have been signed off. The job card shows all previously completed inspections.</td>
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<td>4.</td>
<td>50 foot or longer tape measure. Distance of vents, lumber spans, equipment locations, etc. may need to be verified.</td>
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<td>5.</td>
<td>Ladder. This may be needed for roofing inspections, attic access, access to roof mounted equipment, etc.</td>
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<td>6.</td>
<td>Installation instructions. Installation instructions of equipment being installed must be provided to the inspector to verify manufacturer's requirements for such items as wall heaters, water heaters, furnaces, most electrical equipment, etc.</td>
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**STEP 8: Inspector signs final permit**

**STEP 9: The solar customer is notified that the final inspection is approved**

**STEP 10: Interconnection Process**

- Interconnection
  - The City of Santa Ana will not automatically notify Southern California Edison that the system has been inspected for compliance.
  - The installer will need to contact Southern California Edison to initiate the Interconnection Process.

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**Southern California Edison (SCE) Interconnection Process**
Southern California Edison (SCE) is the local utility for the City of Santa Ana. Upon installation of your solar system and completion of your building permit inspection from the City of Santa Ana, SCE will complete your interconnection agreement and connect your system to the electric grid so you can start generating electricity for your home or business.

**Contact Information**

**Phone:**
(626) 302-9680

**Website:**
[http://www.sce.com/nem](http://www.sce.com/nem)
How do I apply for Net Energy Metering (NEM)?
NEM interconnection paperwork is typically submitted by your installer because it involves technical documentation of the proposed system.
Application checklists, required documents, and samples can be downloaded from [www.sce.com/nem](http://www.sce.com/nem). Application documents may be submitted via email to customer.generation@sce.com or by fax to (626) 571-4272.

1. **Submit NEM Application Package and “NEM Agreement for Renewable Technologies” document**
   - Submit the initial Application Packet as early as possible, long before the system is installed and the final inspection by the local building and safety department is scheduled. The Application Packet consists of:
     - NEM Interconnection Application
       1. Systems under 10kW
       2. Systems over 10kW
     - Single Line Diagram & Plot Plan
     - NEM Interconnection Agreement signed by SCE’s customer

2. **Submit Building Permit Job Card from local Building Department**
   - Submit a copy of the Final Electrical Inspection and Approval from the local Building and Safety department as soon as it is issued.

3. **SCE Finalizes Application and Issue Permission to Operate letter**
   - Within 30 working days of receipt of all the required documents, SCE will:
     - Issue a Permission to Operate (PTO) letter so you can turn on your system. Enclosed with the PTO letter will be an NEM tag for you to place on your meter to notify SCE meter technicians about the presence of your generating system and as proof of your permission to operate.
     - Ensure your meter is capable of tracking your net generation.
     - Enroll you on the Net Energy Metering rate schedule.

For regulatory and safety reasons, your generating facility must not be interconnected prior to your receipt of the PTO letter and placement of the NEM tag on your meter.

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**Additional Interconnection Information**

The parallel operation of a solar PV unit requires interconnection with SCE’s electrical grid. Electric Rule 21 is a tariff that describes the interconnection, operating and metering requirements for generation facilities to be connected to a utility’s distribution system, over which the California Public Utilities Commission (CPUC) has jurisdiction. Note that the posted Rule 21 may not reflect updates to the tariff that may be pending before the CPUC:
• **SCE Rule 21**

The NEM Interconnection Handbook specifies the typical minimum technical requirements to interconnect generating facilities with SCE’s electric system under the Net Energy Metering (NEM) program:

• **SCE’s Net Energy Metering Interconnection Handbook**

[Back to Top](#)