

# Virtual Net Metering

August 14, 2009



# Agenda

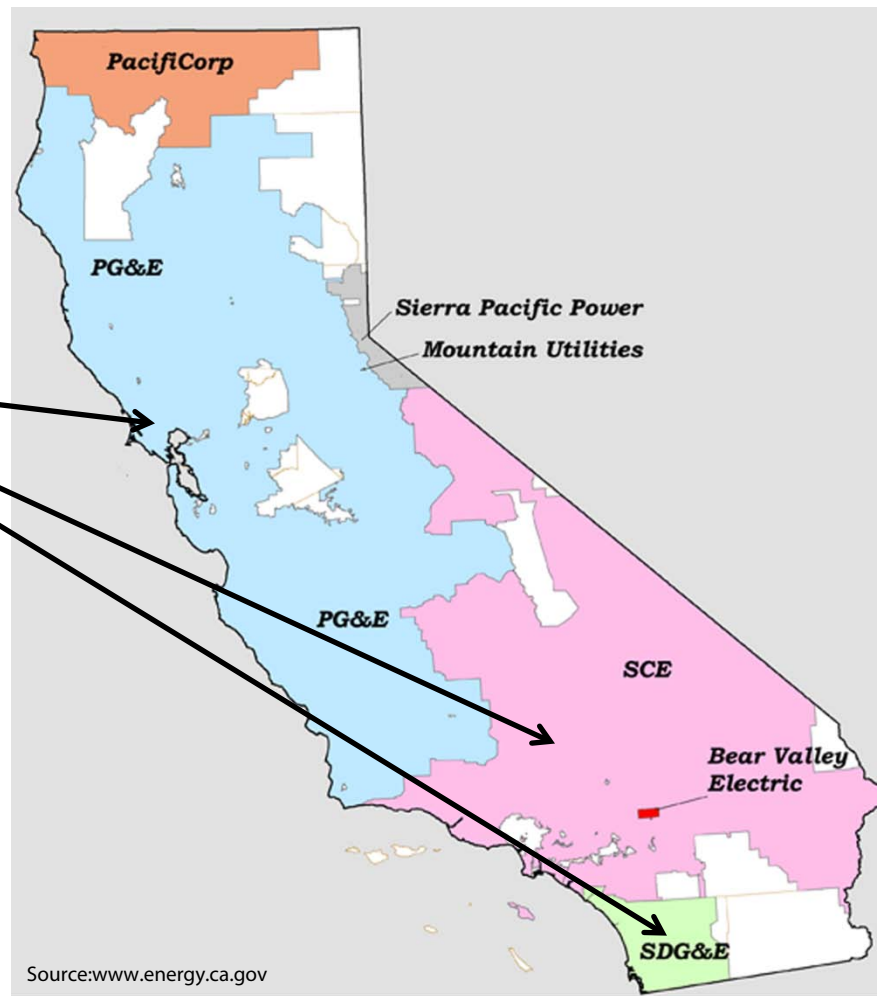
- California Solar Initiative
  - MASH and NSHP
- Building Eligibility
- Net Metering
- Virtual Net Metering
  - Overview, Customer Eligibility and Application Requirements

# California Solar Initiative

- Solar photovoltaic incentive program available
- Provides capacity-based rebates for Residential Commercial, Government and Non-Profit
- Designed to last until December 31, 2015 or until funds run out



Available to customers in PG&E, SCE and SDG&E territories



# California Solar Initiative

- Includes Low-Income Programs
  - Multifamily Affordable Solar Housing (MASH)
    - Existing Multifamily Affordable Housing
    - Administered by CCSE
    - [www.energycenter.org/mash](http://www.energycenter.org/mash)
    - [mash@energycenter.org](mailto:mash@energycenter.org)
    - 858-244-7281
  - New Solar Homes Partnership (NSHP)
    - New Multifamily Affordable Housing
    - Administered by SDG&E
    - [www.sdge.com](http://www.sdge.com)
    - [newsolarhomes@sdge.com](mailto:newsolarhomes@sdge.com)
    - 866-631-1744



Villa Nueva, San Ysidro  
Steadfast/Casa Familiar



Solara, Poway  
Community HousingWorks  
Source: <http://blog.islandpress.org/>



Los Vecinos, Chula Vista  
Wakeland HDC  
Source: <http://www.wakelandhdc.com/>



# Eligibility

Affordable Housing Multi-Family Accommodations: Per PU Code Section 2852, is multi-family housing that meets at least one of following criteria:

a) Residential housing financed with low-income housing tax credits, tax-exempt mortgage revenue bonds, general obligation bonds, or local, state, or federal loans or grants, and for which the rents of the occupants who are lower income households, as defined in Section 50079.5 of the Health and Safety Code, do not exceed those prescribed by deed restrictions or regulatory agreements pursuant to the terms of the financing or financial assistance.

b) A residential complex in which at least 20 percent of the total units are sold or rented to lower income households, as defined in Section 50079.5 of the Health and Safety Code, and the housing units targeted for lower income households are subject to a deed restriction or affordability covenant with a public entity that ensures that the units will be available at an affordable housing cost, as defined in Section 50052.5 of the Health and Safety Code, or at an affordable rent, as defined in Section 50053 of the Health and Safety Code for a period of at least 30 years.

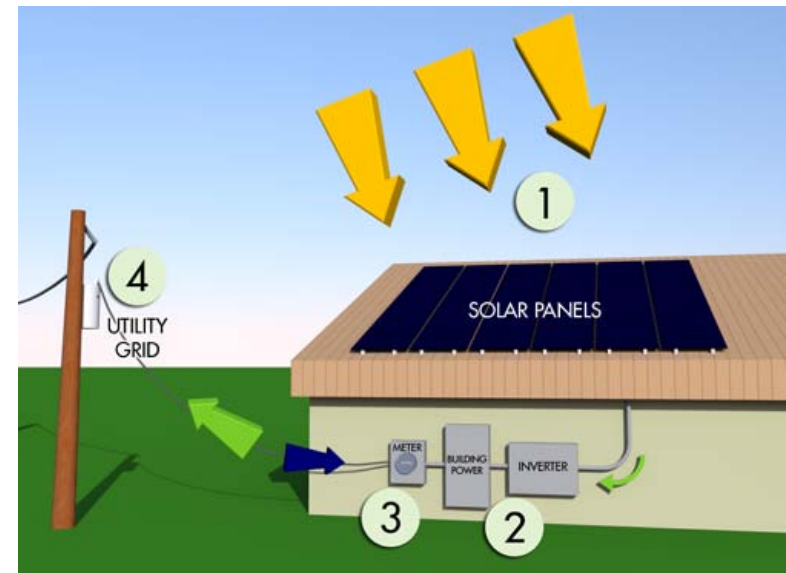
c) New Solar Homes Partnership (NHSP)-eligible Affordable housing as defined in Public Resource Code Section 25401.6.



# Net Metering (for grid-tied systems only)

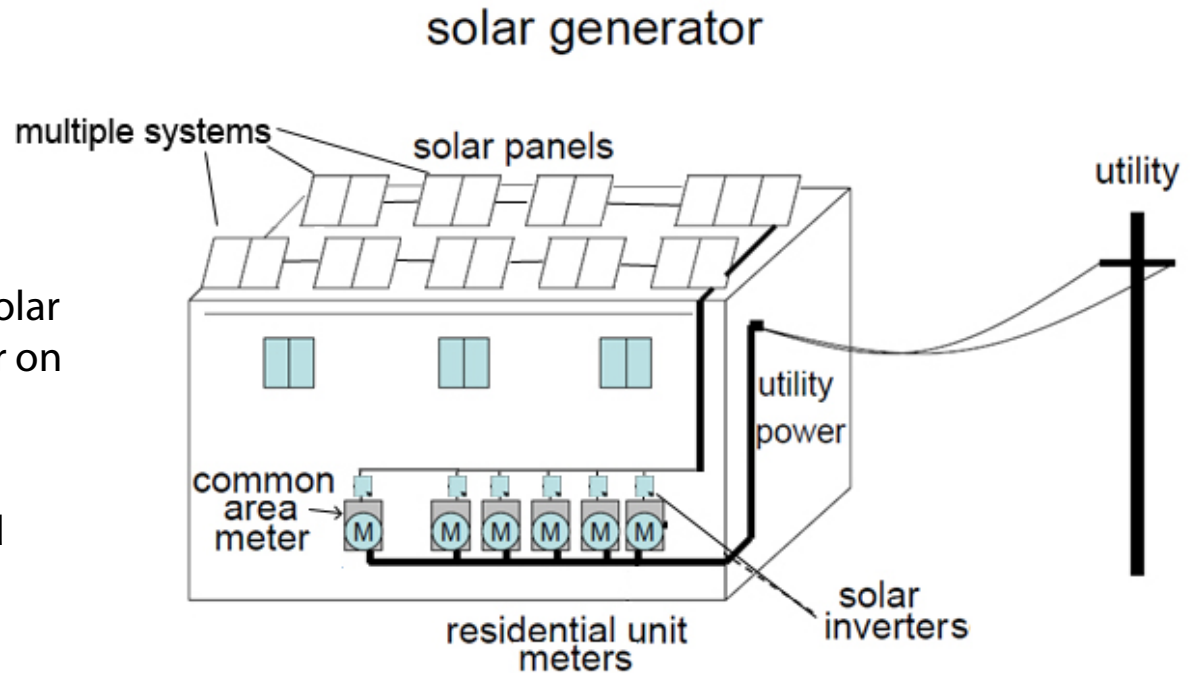
Allows a customer generator to receive credit for energy produced

- 1) Solar panels generate DC electricity
- 2) Solar inverter converts DC to AC
- 3) Solar-generated energy is used by the building with any excess going back out into the grid (spinning the meter backwards)
- 4) If the building is using more energy than the solar system is producing, energy from the utility grid is used (spinning the meter forward)



## Multifamily Net Metering System

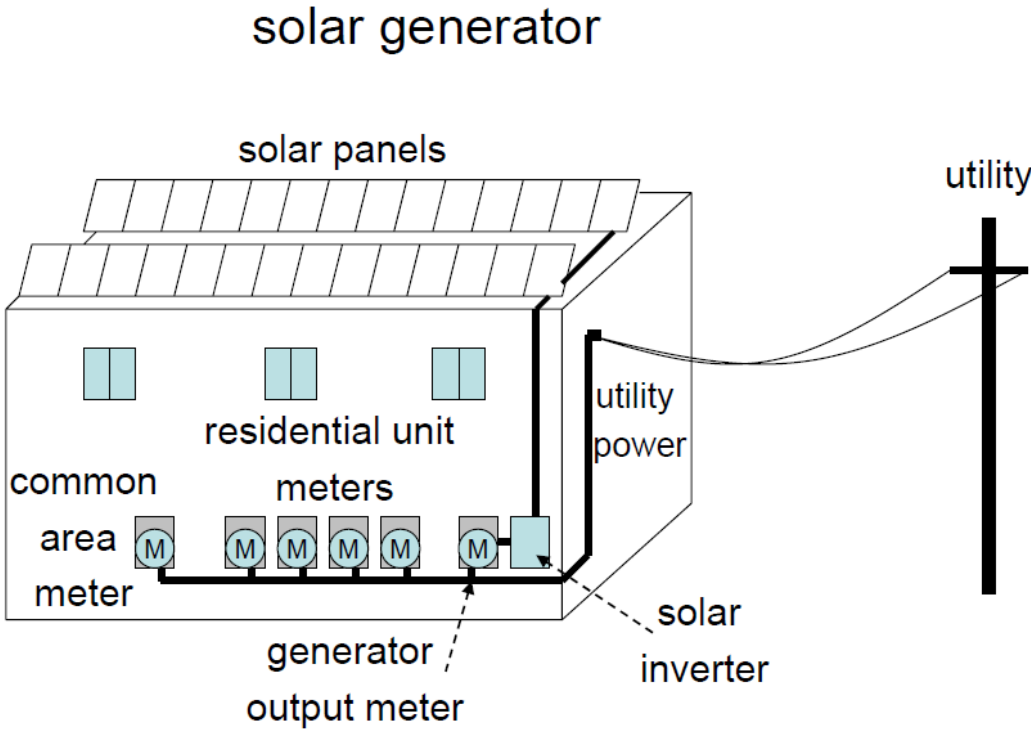
- Requires a separate solar system for each meter on the site
- Very complicated and expensive



## Virtual Net Metering

- VNM allows the benefit of on-site solar generation without requiring the generator to be physically connected to each billing meter
- All energy generated by a single solar system passes through a generation output meter back into the grid
- kWh credits are distributed to meters throughout a site offsetting individual accounts

# Virtual Net Metering System



Source: [www.cpuc.ca.gov](http://www.cpuc.ca.gov)



## Virtual Net Metering

- VNM customers are allowed to stay on their otherwise applicable rate schedule (OAS)
- Building owner determines credit allocation based on the relative size of the unit
  - Initial allocation between common area and tenant area remains in effect for 5 years then can change annually
  - Allocation between tenant units remains in effect for 1 year
  - Must submit 1) VNM Interconnection Agreement and 2) PV Generation Credit Allocation Request Form
- **All residents** of the qualified site can participate regardless of individual unit's income designation (60% AMI, Fair Market, etc...)



## Virtual Net Metering

- Affordable housing developments may require more than one VNM system
  - One VNM system per site (See Special Condition 4)
  - One system per service delivery point
  - Buildings cannot be not subdivided by governmental or private right of way nor by property owned by anyone other than the owner



Thank You.

Questions? Comments?

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