

Solar Energy: Public Financing Options for California's Local Governments

Hot Topics In Solar Energy

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CAEATFA Mission –LOWER FINANCING COSTS

- Lower the cost of financing GHG reduction technologies
- Alternative Energy
- Advanced Transportation



California's SOLAR Program Design California Solar Initiative (CSI)

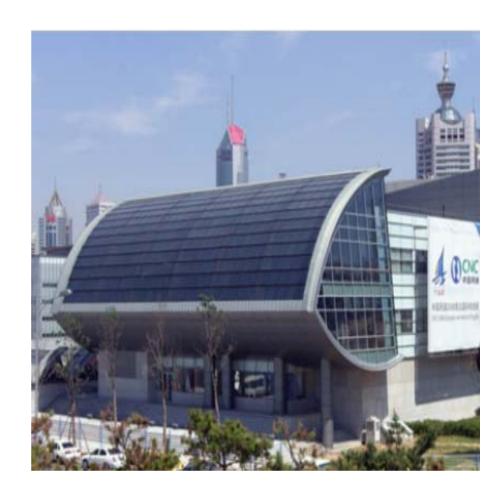
- Rebates: Non-Profit & Government incentives
- Net metering
- Federal Tax Credits & Accelerated Depreciation *note that higher rebates for non-profit and government
- Solar Rights
- State Property Tax exemptions (non-profit / gov higher)
- Distributed Generation (DG) focus on customer side of meter electricity only



California's Evolving SOLAR Programs



- Solar Water Heating Efficiency Act
- Renewable Portfolio Standard (RPS)
- AB 32 reduce GHG to '90 levels
- Feed-in Tariffs
- Gas and Electricity displacement?



California Legislature 2009



- **RPS:** SB 14, AB 64, Executive Order
- 20% '10 to 2013
- 33% by 2020
- Out of State power delivery
- RECs limited to 25-30% of 2020
- PUC 19 month transmission approval
- Expected veto
- **AB 1x**: AB 413, SB 695
- PUC to increase non-CARE residential Tier 1 & 2 rates over time
- PUC can employ time-variant rates after 1/2014
- On Governor's desk







Net Metering – Lift cap

- AB 560
- Lifts cap for 2.5% to 5%
- Prohibited solar installers for projects greater than 250 kW
- Held in Senate Business & Professions Committee

Net Metering- Sell Excess Power

- AB 920
- NEM customers may sell excess power
- Rate determined by PUC
- Governor's desk
- SB 7
- Held

Energy Efficiency KEY

- AB 578
- CEC develop audit plan for residential and nonresidential building stock
- PUC consider Utility financing programs
- PUC Triennial EE report
- Governor's desk







Self Generation Incentives

- SB 412
- PUC authorized for incentives that meet GHG goals
- Governor's Desk

Feed In Tariff

- SB 32
- FIT for up to 3 MW
- PUC determine price MPR +
- Increase cap from 500MW to 700MW
- Governor's desk



Federal Legislation – HR 3525 (Representative Mike Thompson)



- Provides tax exempt financing for renewables and a variety of other GHG technologies
- AB 811 Tax exempt financing district programs would be tax exempt from



Sleeper Technologies – Solar Thermal + Solar Thermal Heating & Cooling



- 27% of CA's GHG emissions are attributed to the heating and cooling of both water and space
- GHG reductions from just commercial hot water would provide reductions of 6 MMT annually



California Solar Trends / Realities



- Many Legislators want to author a solar bill
- CSI declining incentives over time for utility customers
- Net metering is key also controversial
- Must add energy efficiency measures = more cost-effective projects
- Future solar programs will be tied to GHG reductions (RPS)
- Feed in Tariff huge potential for expansion of solar program

