

# California Solar Initiative

## CPUC Program Status Update



California Solar Initiative  
Go **Solar** California!

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California Public Utilities Commission

**Solar Power 2007**

September 27, 2007  
Long Beach, California

# California Solar Initiative (CSI)

## Goals:

- State: 3000 MW of new distributed solar distributed generation by 2016
  - CPUC: 1940 MW
  - 1750 MW mainstream
- Self-sustaining solar industry free from ratepayer subsidies after 2016
  - Incentives optimally-sited and maintained systems to ensure performance, maximize ratepayer ROI
  - 10-year commitment



# CPUC CSI Budget 2007-2016

<b>Program Category</b>	<b>Budget (\$ mns)</b>
<b>General Market Program</b>	<b>1,897</b>
Administration, Marketing, Evaluation (10%)	190
Direct Incentives	\$1,707
<b>Low Income Budget (10%)</b>	<b>217</b>
<b>Research, Development, Demonstration &amp; Deployment</b>	<b>50</b>
<b>San Diego Regional Energy Office Solar Hot Water Pilot</b>	<b>3</b>
<b>Total CPUC CSI Budget</b>	<b>\$2,167</b>

## 3 CPUC Program Administrators:

- PG&E
- Southern California Edison
- California Center for Sustainable Energy



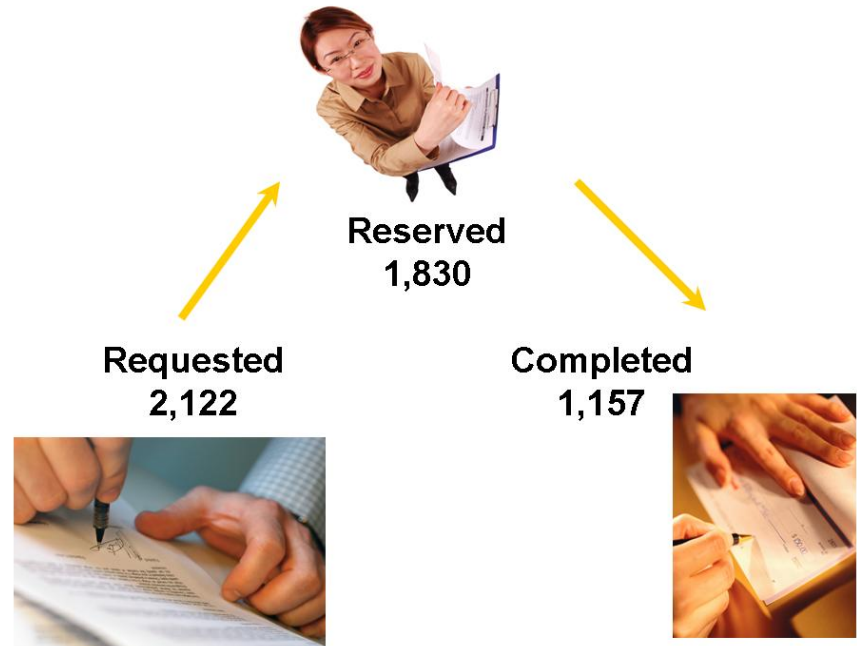
# Here Comes the Sun...

Jan 1- Sept 18, 2007:

- 5230 total app'ns  
= 175.3 MW  
= \$363 mn in rebates

(but 121 dropouts  
@ 14.8 MW = 160 MW)

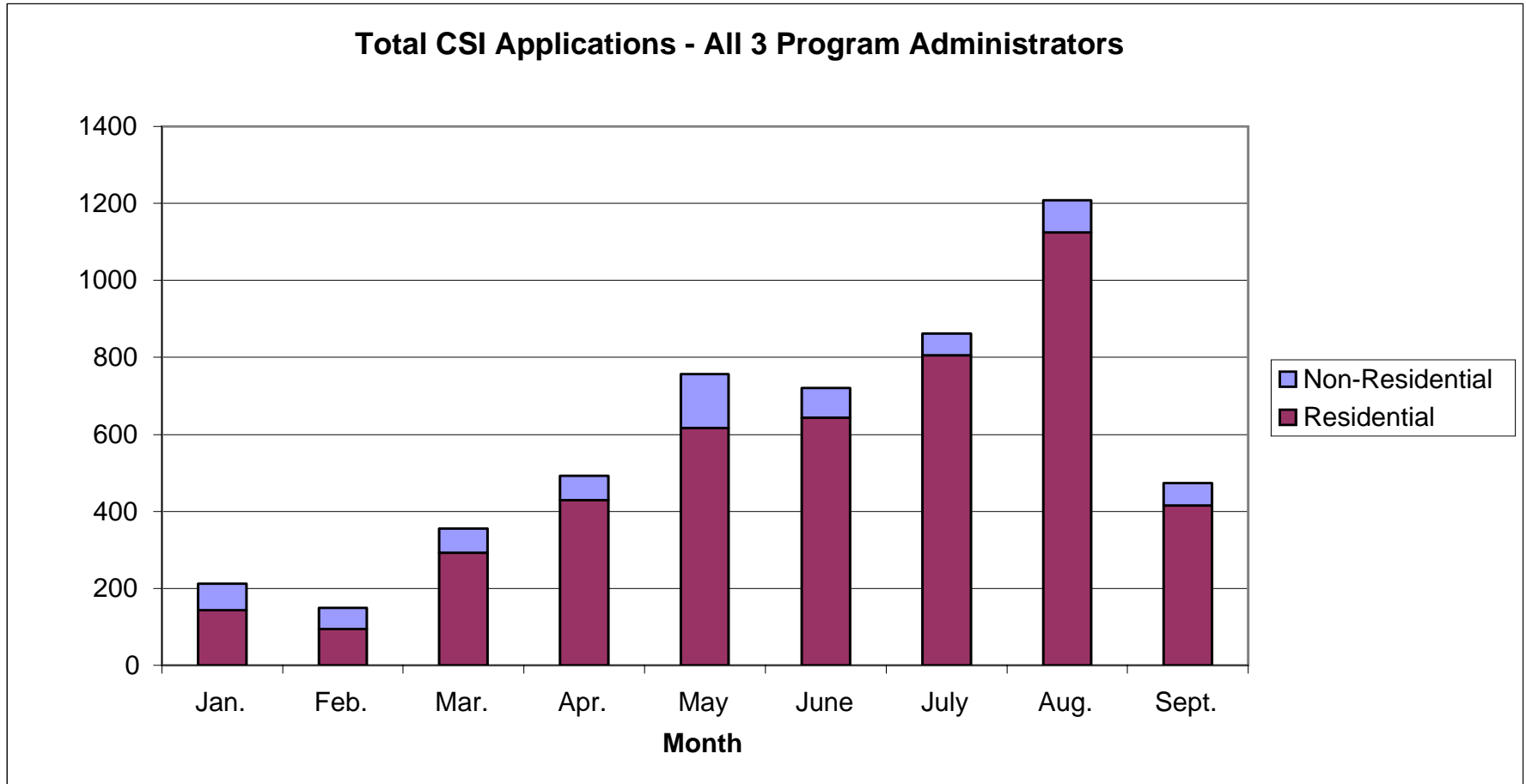
Paid = 9.4 MW, \$25 mn



In the first 9 months alone, the new program is nearing CA's total installed solar from the previous 26 years (198 MW).



# Interest Keeps Growing

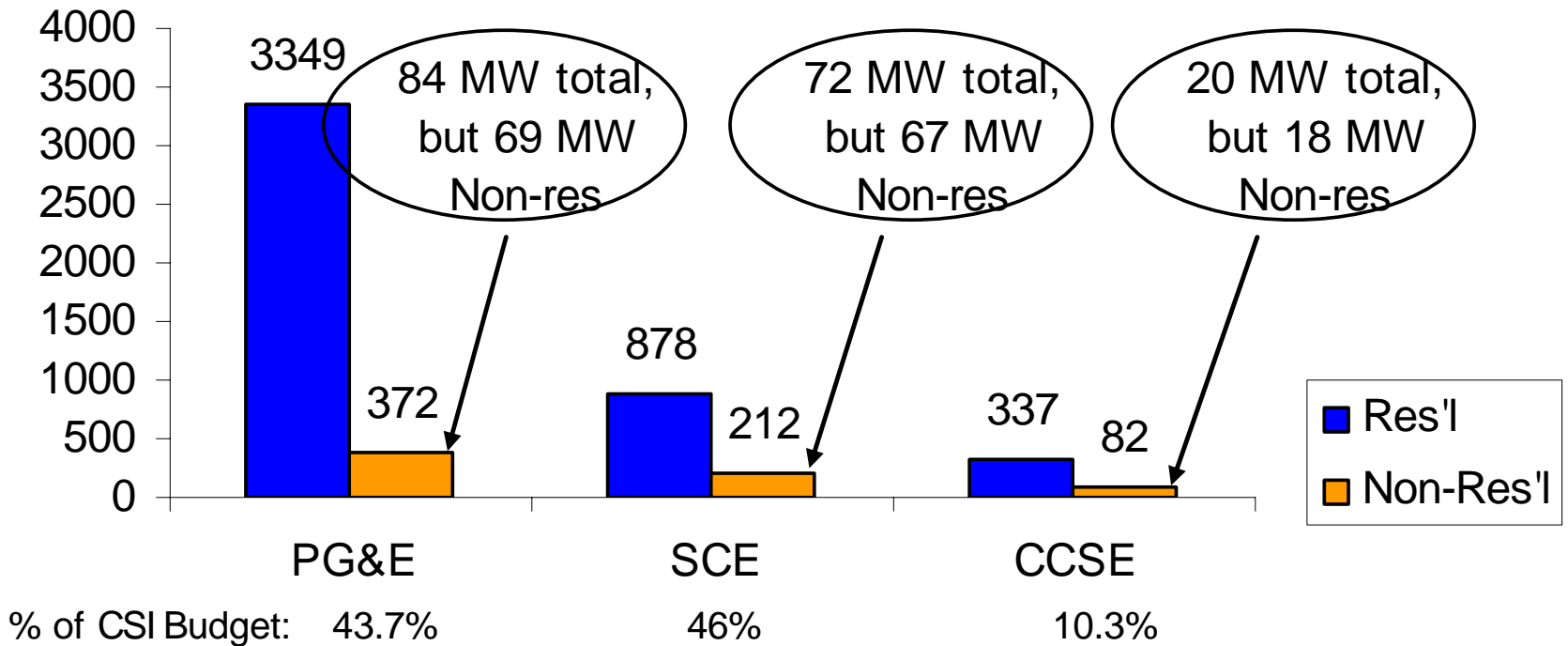


**Demand continues to climb despite early transition issues and new CSI application procedures.**



# CSI Demand

## CSI Applications, Jan. 1-Sept. 18, 2007



**PG&E faces a higher administrative load than SCE. They are managing three times as many applications for nearly the same MW volume.**



# CSI Demand Similar to Earlier Rebates: Residential

## MW Comparisons

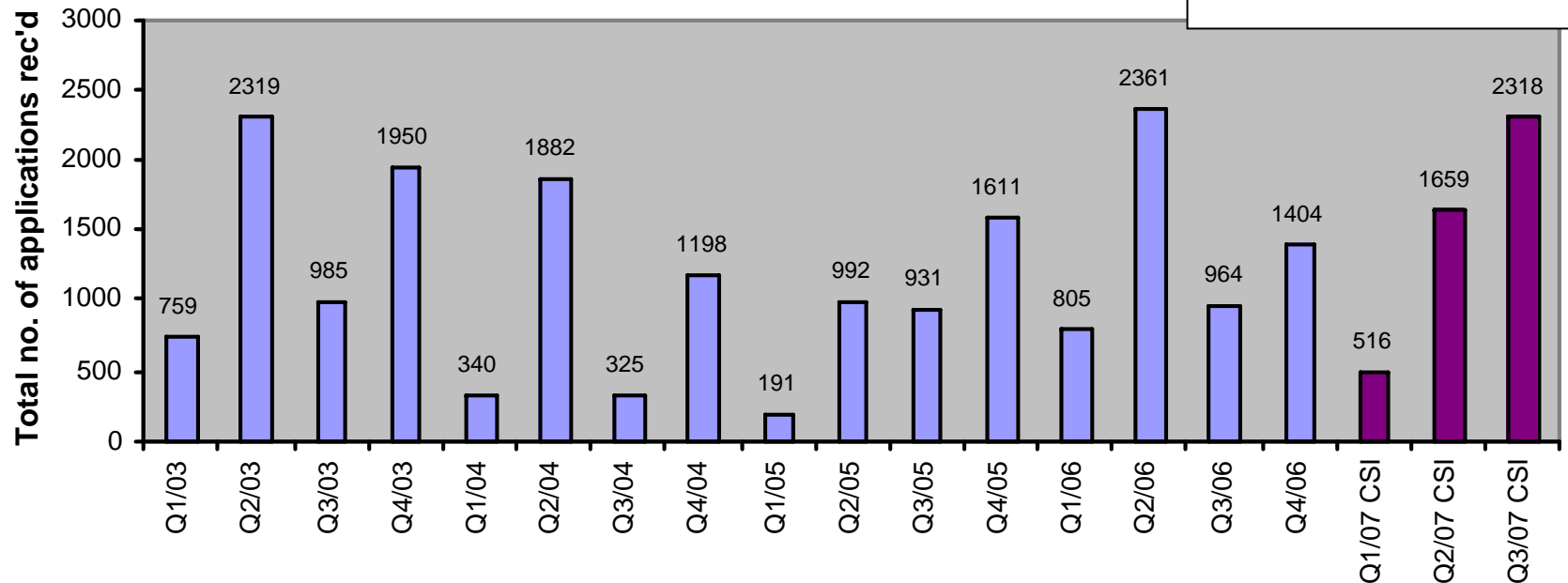
### ERP:

Q1/06: 3.1  
Q2/06: 9.2  
Q3/06: 4.0  
Q4/06: 6.1

### CSI:

Q1/07: 2.5  
Q2/07: 7.6  
Q3/07: 10.9

Residential Solar Applications 2003-2007

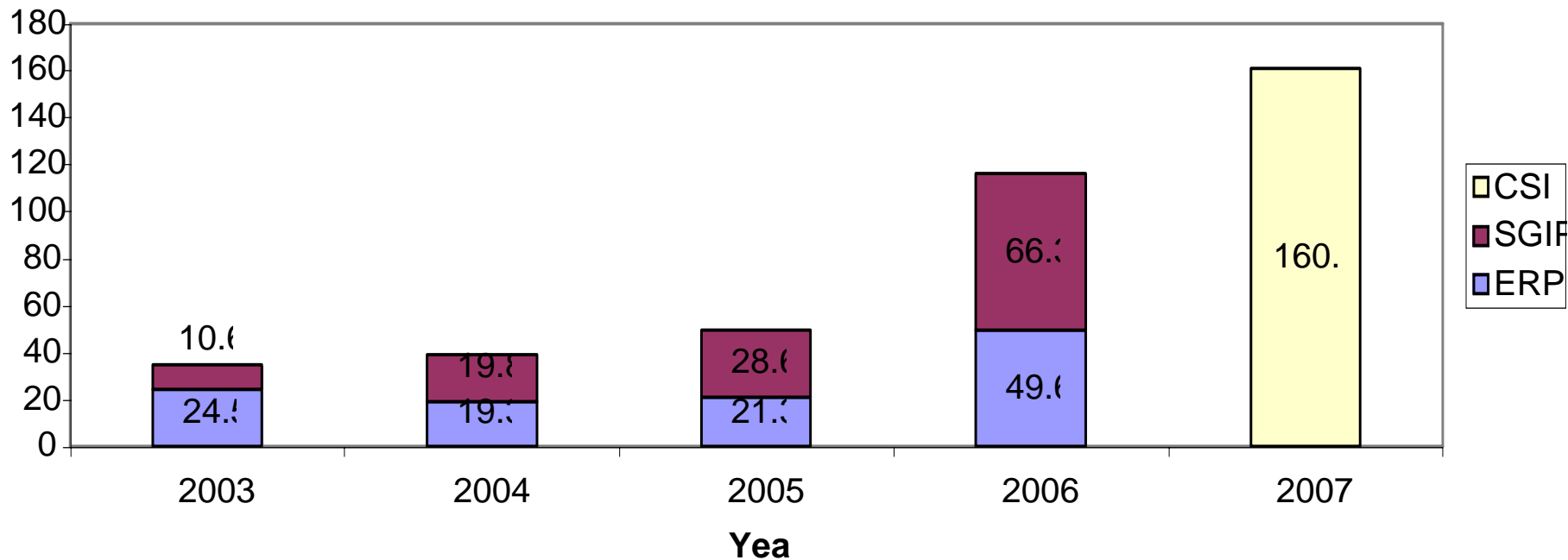


**CSI has more applications and MW than ERP in the same period last year.**



# CSI Demand Similar to Earlier Rebates: All Applications

Solar Capacity in IOU Territories



**CSI has higher demand in MW than SGIP & ERP.**





# How Are We Doing?

- Start - Finish: 113 – 135 days
- Reviewing app'ns: 8 days-7 wks
- % of app'ns w/ problems: 35-60%
- Inspection stage: 1-3 wks
- % of failed inspections: 10-30%
- Claim Package to Check: 4-7 weeks
- Installers trained: 1646 staff, 554 firms
- Drop-outs:
  - CCSE: 7 app'ns (0.15 MW)
  - PG&E: 62 app'ns (11.6 MW)
  - SCE: 37 app'ns (2.7 MW)



# What's Worked?

- Public awareness of rebates
- Strong Commercial Demand:
  - Leaders: Google, Walmart, Macy's
- Quarterly Forums>> public input
- Very public process on adm've decisions
- City/county solar promotion



# Early Transition Issues

- Delayed tools
- Metering accuracy requirements
- Access for BIPV to up-front incentive
- Additional paperwork
- Energy efficiency audits and shading
- Residential Demand:
  - Awareness of new performance requirements
  - Incentive drop from CEC program
  - Time of Use Rates for some customers



# Past/Upcoming CSI Decisions

## Done/Nearly Done:

- New handbook with reduced req'ts: Sept 2007
- **New shading methodology, BIPV in EPBB, and calculator change**
- Interim Outreach Plans (*Facilitative outreach*)
- \$50 mn R&D grant program>> Prog. Mgr, RFP, Planning Meetings
- PMRS > Performance Data Provider Ruling > Comments closed

## Upcoming:

- \$108 mn Incentives for Single-Family Low Income Residents
- Non-PV Solar (electric-displacing)
- 1/08 Energy Efficiency Requirements
- SDG&E rates (TOU and general)
- \$108 mn Incentives for Multifamily Low Income Residents
- Program Measurement and Evaluation
- Long-term Marketing and Outreach Plan



# CEC SB1 Conditions: Due 12/07

- Adopt CEC incentive calculator?
  - Design Factor 1.0 cap >> program budgets
  - Time-dependent valuation
- Shading calculation method
- Energy-efficiency requirements:
  - New Commercial: 15% and 30% above T24
  - Existing Commercial: retrocommissioning if under Energy Star 75 rating
  - Existing Residential: audit and... ?





**Thank You!**

**Polly Shaw**

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**For Additional Information:**

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

**[www.GoSolarCalifornia.ca.gov](http://www.GoSolarCalifornia.ca.gov)**

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