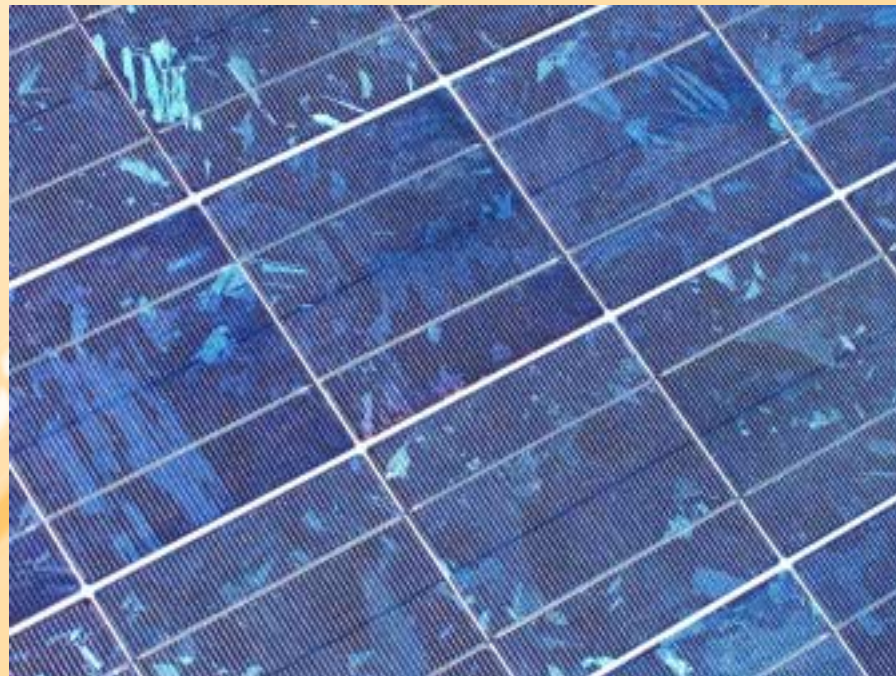


# **Silicon Valley Power** ***Solar Power in Santa Clara:*** ***Past, Present, and Future Projects***

September 2005



[www.siliconvalleypower.com](http://www.siliconvalleypower.com)



# *What is Silicon Valley Power?*

- A department of the City of Santa Clara
- An electric utility that has been in operation since 1896
  - Providing electricity and programs for residents and businesses in Santa Clara
  - We do solar power!

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# *Solar in Santa Clara*

## **Hot Water Solar Utility**



- Since 1975, the City of Santa Clara has
  - Established the nation's first municipal solar utility
  - Supplied, installed and maintained solar water heating systems
  - Installed solar energy equipment for its own facilities. The International Swim Center in Central Park and neighborhood City pools use solar heated water.

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# *Solar in Santa Clara*

## **Neighborhood Solar Program**

- Customer pay \$5 or more per month to help add solar PV in Santa Clara.
- The first one was at Haman Elementary. It was installed last September. Information on this system's operation is on our website.
- The next one will be at Valley Village Retirement Center.



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# Solar in Santa Clara



## Green Power Program

- Customers pay a little more each month to support solar photovoltaic and wind power at places all over California.

High Winds Energy Center

Location: Solano County, CA



Mountain View Wind

Location: San Geronio, CA



Alameda County Fairground Solar

Location: Pleasanton, CA



Green Power Partners Wind

Location: Riverside County, CA



Haman Elementary School Solar

Location: Santa Clara, CA



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# *Solar in Santa Clara*

## **Photovoltaic Systems**

- Silicon Valley Power has 18 photovoltaic systems installed on homes, schools, and at Santa Clara University
- Most systems were built with partial or full funding from the utility
- Equivalent to approximately **50kW** of installed capacity



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# *Solar in Santa Clara*

## **Habitat for Humanity**

- Paid for PV Systems at 3 Santa Clara homes during Summer '04.
- City is working with Habitat to coordinate another project in the future.
- Potential for 6-8 more homes in the next project.



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# *Solar in Santa Clara*

## **Other Current Solar Projects...**

- Fire Stations 3&4
  - Currently being demolished and rebuilt.
  - 10 kW systems will be installed at both stations
  - These will be the first PV systems at City facilities

# *Solar for the Future*

## **Santa Clara's ”*Million Dollar Baby...*”**

- Capital Project approved for FY 05-06
- Currently evaluating potential sights and project ideas
- Looking to do a community friendly installation...not a standard rooftop system.

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# *Solar for the Future*

## **Residential Rebate Program**

- Limited program planned for Jan 1, 2006 launch
- \$/watt rebate formula with a cap
- Will probably fund 4-5 new systems.
- Program will be evaluated and potentially renewed for FY 06-07 if successful.

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# Questions?

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