



# Building Electrification Benefitting Local Non-Profits

Cupertino Rotary Club  
Climate Action Committee

Seema Lindskog

Dino Sakkas

Rod Sinks

Rotary 5170 District Conference

April 23, 2022



# Why Building Electrification for Non-Profits?

- Do our part to move the needle on climate change
- Help worthy non-profits electrify their buildings, reducing their carbon footprint and utility costs
- Leverage a small amount of your club's charitable funds to bring in foundation grants & rebates
- Provide hands-on projects for club members and prospective members
- Enhance your club's public image
- Attract new & younger members
- Give your club an opportunity to grow and do more





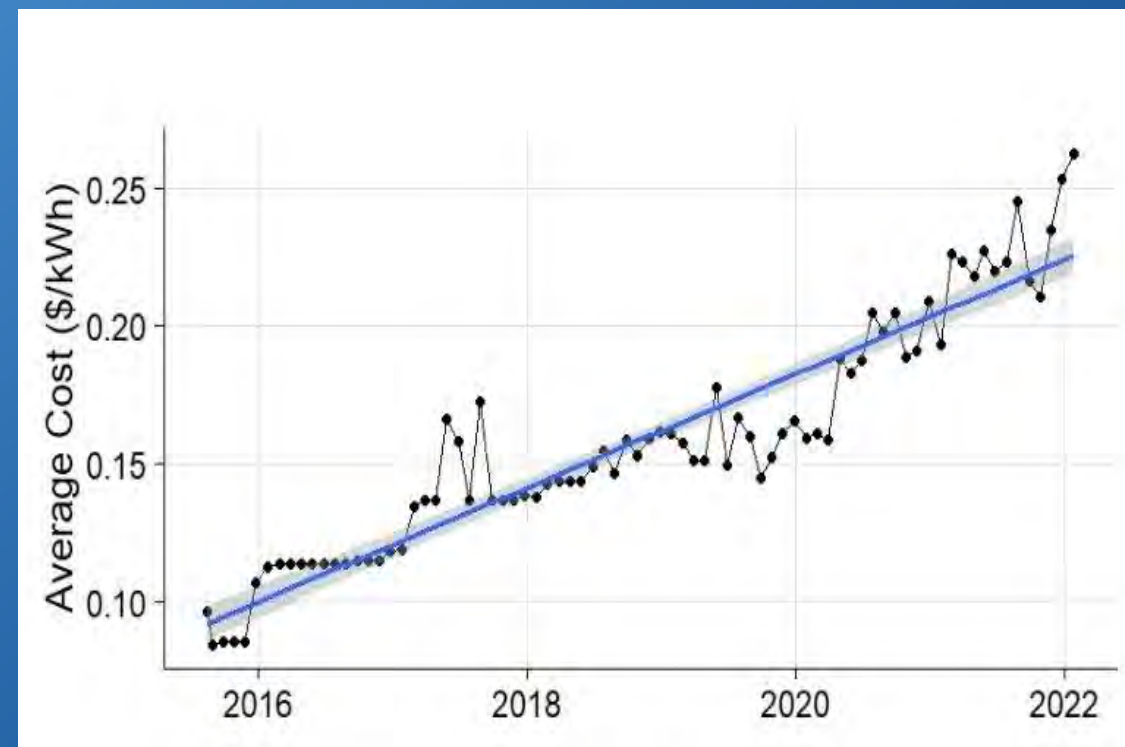
# Energy Costs Continue to Rise



## Natural Gas US Wholesale Prices (Henry Hub)



## Northern California Average Electricity Rates





# Non-Profit Challenges



- Building electrification would reduce their carbon footprint and utility costs, but...
  - They are not eligible for tax credits and certain rebate programs
  - They may not have reasonable payback or adequate capital without our help (funding + volunteer labor)
- Examples:

Rooftop Solar	
Payback time for typical residential installation with tax credit	6 years
Payback time for typical non-profit installation without tax credit	10 years
Payback time for a non-profit's investment with our help	2 years

Heat Pump Water Heater	Net Cost after rebates
Residential	\$1500
Residential low-income household	\$0
Non-profit facility (other than residential – no rebates available)	\$7500
Non-profit facility with our help	\$2500



# Rooftop Solar



SERVE TO CHANGE LIVES

# Multi-Family Low-Income Housing



SERVE TO CHANGE LIVES  
& PRESERVE OUR PLANET

- 9.1kW PV Solar (26 panels) + tree trimming
- Four homes & common area in Cupertino
- Offsets 100% of demand in common area & 40% in households
- Owned by West Valley Community Services (WVCS)
- Installation: August 21-22, 2021





# Multi-Family Low-Income Housing



## Funding

\$ 4,000 Cupertino Rotary

\$ 3,400 WVCS (owner)

\$14,600 Hammond Climate Solutions

\$ 8,000 Volunteer Labor Contribution

\$30,000 Total System Value





SERVE TO CHANGE LIVES

# Multi-Family Low-Income Housing



SERVE TO CHANGE LIVES  
PROGRESS AND PLANET

## The Mercury News

The Newspaper of Silicon Valley

LOCAL NEWS

Cupertino  
COURIER

SUNNYVALE  
THE SUN

## South Bay volunteers help affordable housing complex go solar



Alysa and Dino Sakkas, members of the Cupertino Rotary Climate Action Committee, prep the roof at an affordable apartment complex on Greenwood Court for solar panel installation on Aug. 21. The committee worked with Milpitas-based SunWork Renewable Energy Projects, among others, to install the solar panel array. (Courtesy photo)

Volunteers from Cupertino Rotary and West Valley Community Services partnered for some energizing activities Aug. 21 at an affordable housing complex on Greenwood Court in Cupertino.

The Rotary Climate Action Committee project, led by Seema Lindskog, worked with Milpitas-based SunWork Renewable Energy Projects, along with Hammond Climate Solutions and the Left Coast Fund—both based in San Diego—to install a solar panel array on the roof of the Greenwood Court property, owned by West Valley Community Services. Rotarians worked side by side with staff from SunWork to install racking, run conduit and mount the solar panels on the rooftop.

The array is designed to provide all the power for the apartment complex's common area and about 40% of residents' electricity use. The project should enable West Valley Community Services to transition to renewable energy and long-term lower utility costs while increasing household stability and self-sufficiency for residents.

While some Rotarians were on the roof, members of the Cupertino Rotary Community Services Committee helped with cleanup and maintenance around the property under the leadership of club member Lloyd Holmes, president of De Anza College.



# Video – Mountain View Project



SERVE TO CHANGE LIVES

# Non-Profit Center - Downtown Mountain View



SERVE TO CHANGE LIVES  
& PRESERVE OUR PLANET

- 27kW PV Solar (60 panels)
- Offsets up to 80% of demand
- Owned by Los Altos United Methodist Church
- Installation: 6 work days in March 2022; 30 volunteers





# Non-Profit Center - Downtown Mountain View

## Funding:

\$ 6,000 Cupertino Rotary

\$ 2,500 Sunnyvale Rotary Club

\$ 2,000 Mountain View Rotary Club

\$ 1,500 Los Gatos Morning Rotary Club

\$ 1,000 Los Altos Rotary Club

\$21,500 LAUMC (owner)

\$25,000 Hammond Climate Solutions

\$25,000 Volunteer Labor Contribution

\$84,500 Total System Value





# Non-Profit Center - Downtown Mountain View

Los Altos United Methodist Church

[laumc.org](http://laumc.org)

*LAUMC acquired Trinity United Methodist Church in downtown Mountain View in 2019 and has transformed it into a center for non-profits including:*

**Hope's Corner – 700 meals each week & showers**

[hopes-corner.org](http://hopes-corner.org)

**Cold Weather Shelter for 50 Families & Women**

**JobTrain – training unemployed to become professional cooks**

[jobtrainworks.org](http://jobtrainworks.org)

**Community Health Awareness Council Family Resource Center**

[chacmv.org/frc](http://chacmv.org/frc)

**Art Changes Us – helping youth develop life skills through art**

[artchangesus.org](http://artchangesus.org)

**Alcoholics Anonymous**

**Al-Anon**



# Our Partners

## Hammond Climate Solutions Foundation



*Expediting positive change for a just and livable future.*

- The HCSF team works tirelessly to heal the planet and ensure that an equitable and survivable future prevails.
- We partner with local philanthropists, nonprofit organizations, advocates and elected officials to implement effective solutions towards stopping the climate crisis.

More information:  
[hammondclimatesolutions.com](https://hammondclimatesolutions.com)





# Our Partners Solar Moonshot Program



- Administered by Hammond
- \$1 million annual budget to help nonprofits afford the switch to solar
  - Solar savings are reinvested into the community
  - Green jobs are supported
- Up to \$25,000 grants are given to nonprofit organizations across the U.S.
- Grants can support solar and storage
- Schools, cities and Indigenous nations can partner with a nonprofit to receive the grant

More information:  
[solarmoonshot.org](http://solarmoonshot.org)





# Our Partners

## SunWork Renewable Energy Projects

SunWork's nonprofit model helps make solar and heat pump water heaters up to 1/3 more affordable with the help of trained volunteers. The heart of SunWork's mission is to give environmentally-concerned people a way to do something to make a difference. SunWork is pushing to change the shape of our energy landscape, and to change the feeling that the environmental problems humankind faces are too big to be within the ability of individuals to meaningfully impact.

More information:  
[sunwork.org](http://sunwork.org)





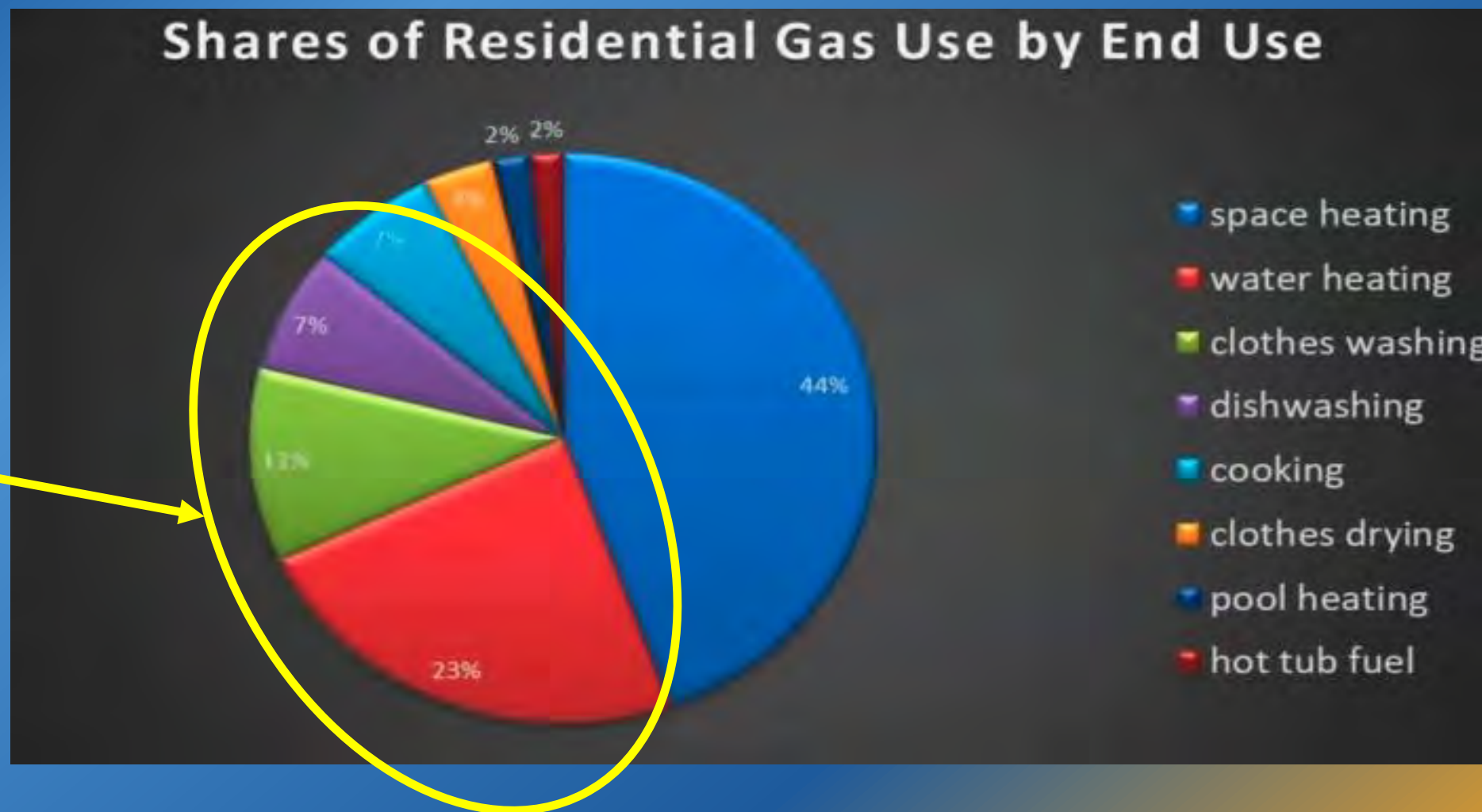
# Heat Pump Water Heaters



# Heating Water with Gas is a Major Contributor to Home Carbon Emissions



Potential  
for 41%  
Reduction  
in Home  
Carbon  
Emissions





# Heat Pump Water Heaters (HPWH) can significantly reduce carbon emissions



- Replacing gas with HPWH is the most cost-effective way to reduce household carbon emissions
- Super efficient
- Operating costs similar to gas
- Allows time shifting to reduce cost and carbon footprint
- Significant rebates available especially for low-income households



# Great Rebates Available Now



- Technology and Equipment for Clean Heating (TECH) and Building Initiative rebates
  - Up to \$4,000
- Community Choice Energy Provider (CCE) rebates
  - Up to \$3,500
- More info:  
[switchison.org/](https://switchison.org/)



# Your Local CCE

## A Source of Many Electrification Rebates



### Community Choice Energy agencies (CCEs) serving Rotary District 5170

- Silicon Valley Clean Energy (SVCE)
  - Campbell, Cupertino, Gilroy, Los Altos, Los Altos Hills, Los Gatos, Milpitas, Monte Sereno, Morgan Hill, Mountain View, Saratoga, Sunnyvale and Unincorporated Santa Clara County
- Peninsula Clean Energy
  - San Mateo County
- San Jose Clean Energy
  - City of San Jose
- East Bay Community Energy
  - Alameda County
- Central Coast Community Energy
  - Santa Cruz, San Benito, Monterey Counties



# Example of a Non-Profit Home

Location: Sunnyvale / Contractor: SunWork with volunteers



New Heat Pump Heater including installation (replacing gas)	+\$7,000
TECH Clean California Incentive and/or SVCE Rebate	-\$4,000
Low Income Household Rebate from SVCE*	-\$1,500
SunWork volunteer labor contribution	<u>-\$1,500</u>
Final Cost	<b>\$ 0</b>

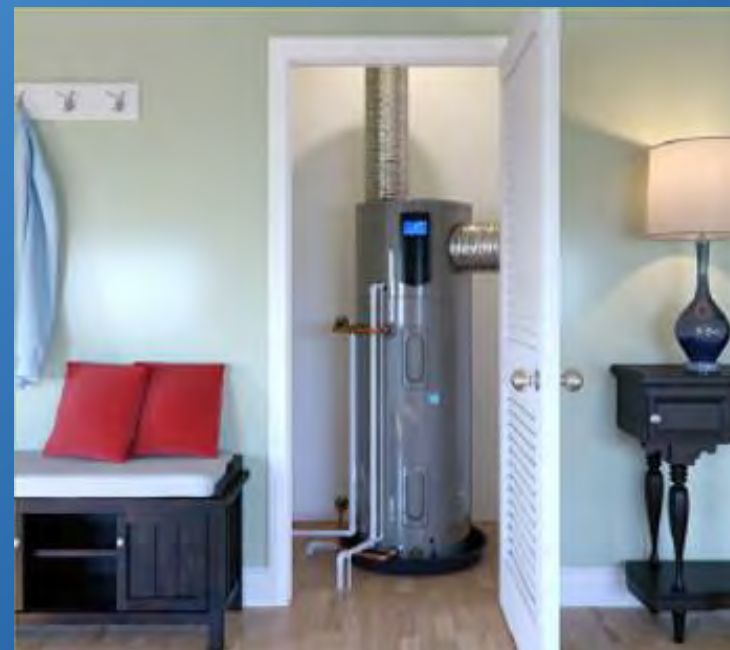
\* For CARE (California Alternate Rates for Energy Program)  
and FERA (Family Electric Rate Assistance Program) customers

- Additional incentives for panel upgrades if required
- No out-of-pocket expenses until FERA Rebate is issued per contractor policy
- Cost to operate approximately the same as gas (even better with solar panels)

# Typical Installations



Garage Installation (Simplest)



Interior Installation (Less Simple)



# The Perfect Project For Your Rotary Club

Whether in members' homes, low-income homes, or non-profit facilities

1. Locate a 5+ year old gas water heater
2. Get a quote from a contractor like SunWork
3. Recruit two volunteers for one day
4. Replace the water heater
5. Take pictures





**Coming  
Attraction**

**Battery Storage**



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**Rotary**



**SERVE TO CHANGE LIVES**



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& PRESERVE OUR PLANET**



# Building Electrification Benefitting Local Non-Profits



## Questions?

Cupertino Rotary Club

Climate Action Committee

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