

- Presentation will begin shortly
- Session will be recorded
- Participants are muted
- Please be aware of Q&A at bottom of screen – ask your questions here
- We will address questions at various points in the session

www.chulavistaca.gov/clean



- July 1st, 4 PM Organic Waste Recycling Program in Chula Vista
- July 15th, 4 PM Protecting Our Waterways Starts with Our Storm Drains
- August 5th, 4 PM SB1383; How Will the New Organic Waste Law Affect Chula Vista
- August 19th, 12 PM Energy Benchmarking
- September 2nd, 4 PM Recycling 101- Are You Wish Cycling or Really Recycling?
- September 16th, 4 PM Chula Vista's Zero Waste Plan

www.chulavistaca.gov/clean





All attendees are muted Please type your questions in the question box

Beneficial Electrification

Tips and Resources for Switching to Clean Electricity

Beneficial Electrification:

- 1. Saves the consumer money
- 2. Benefits the environment
- 3. Improves consumer quality of life
- 4. Fosters a more resilient grid



https://www.youtube.com/watch?v=HDCKmAJzoV8

Agenda

Electrifying your Cooking

 Colleen FitzSimons - San Diego Green Building Council

Solar for Low-income

• Stan Morison - GRID Alternatives

Home Electrification

Cory Downs - City of Chula Vista



Please type your questions in the Q&A box



WHY INDUCTION? HEALTH IMPACTS OF GAS COOKING

People in the US spend roughly 90% of their time indoors

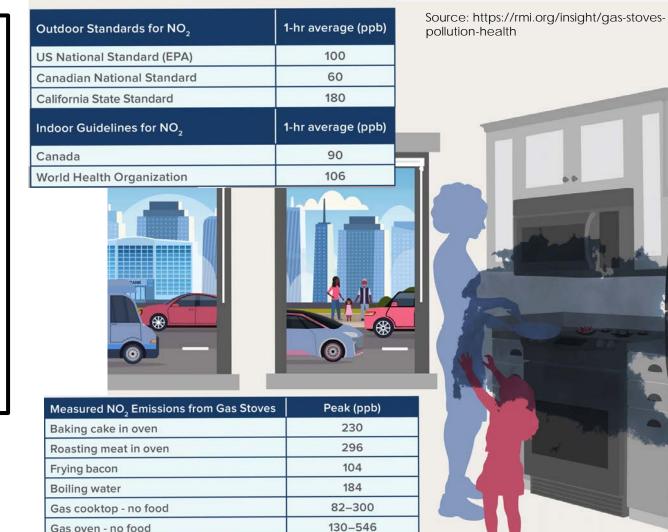
Environmental Protection Agency (EPA) warns that indoor levels of pollutants may be 2 - 5 times

and occasionally more than 100 times —
 higher than outdoor levels



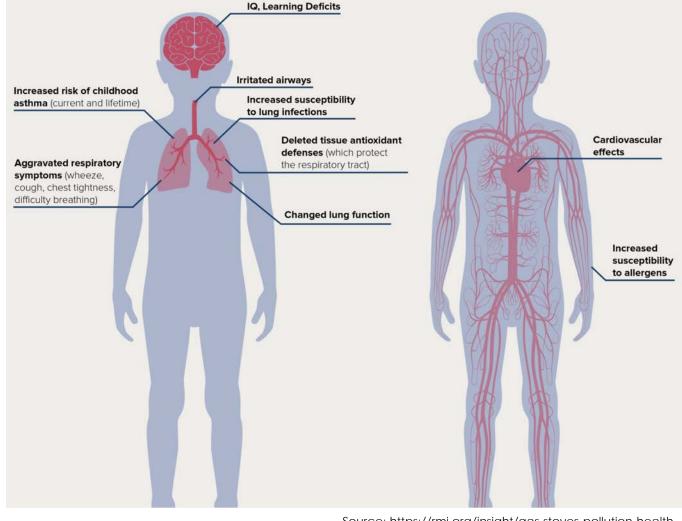
Gas stoves can emit elevated indoor Nitrogen Dioxide (NO_2) levels often exceeding indoor air guidelines and outdoor





Health effects of NO₂ in children may include:





Three Main Factors Why Children Are More Susceptible to Illnesses Associated with Air Pollution

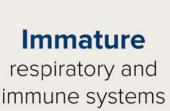
Higher
breathing
rates and
greater levels
of physical
activity

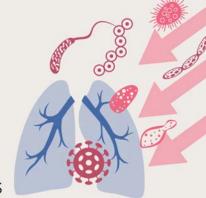


Higher lung surface to body weight ratios and smaller bodies









Alternative: Induction Cooking!

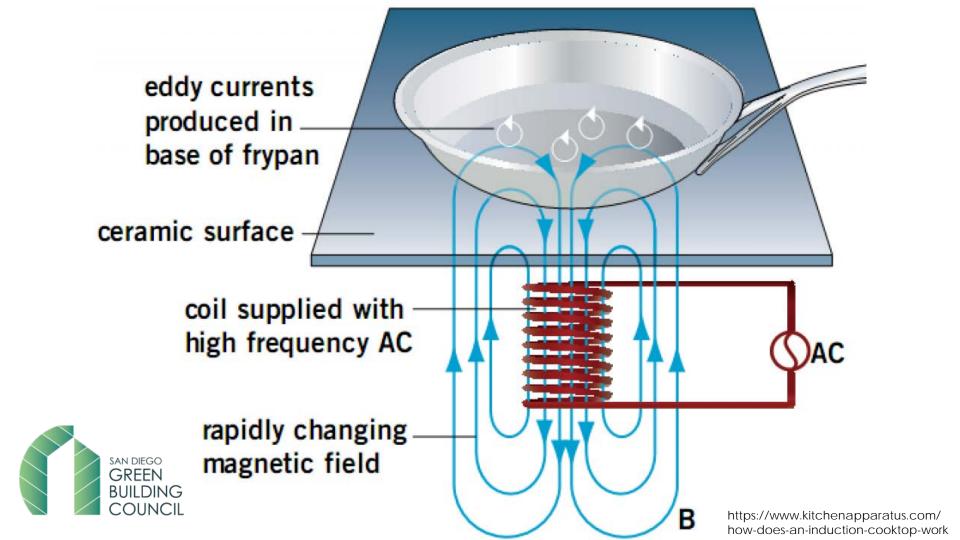
Energy Efficient

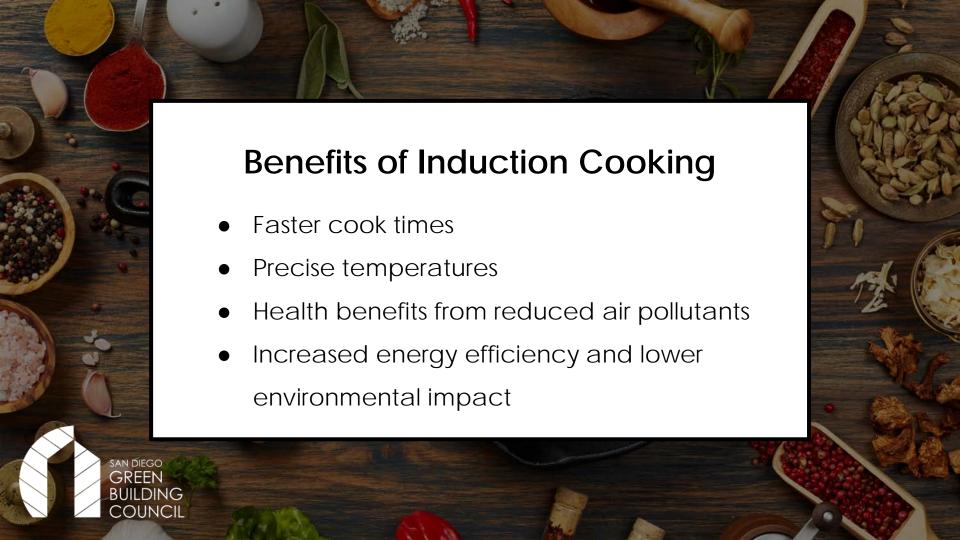
Induction: 90% of heat reaches the food

Electric range: 65-70% of heat reached the food

Gas range: 40-55% of heat reaches the food



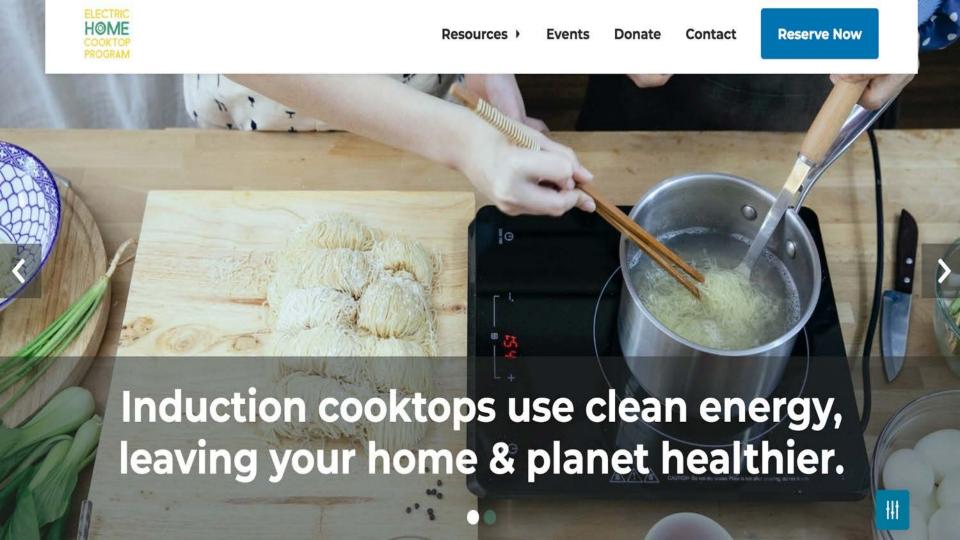


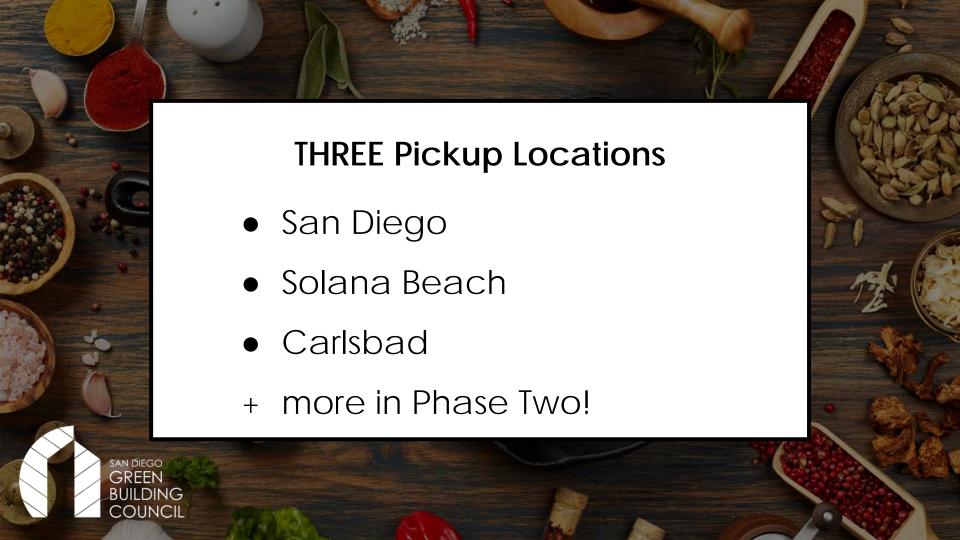














SAN DIEGO 350

CLIMATE ACTION



FUTURES UNBOUND











SAN DIEGO GREEN BUILDING COUNCIL

Colleen FitzSimons Executive Director colleen@sd-gbc.org

www.sd-gbc.org





Who we are

GRID Alternatives is a nonprofit organization that has been installing solar systems exclusively for low-income communities since 2004.

Disadvantaged Communities – Single-Family Solar Homes (DAC-SASH)

Provide no-cost solar to homeowners that qualify as low-income reducing household electricity costs by up to 80%.

For more information

Stanford Morison | Outreach Coordinator

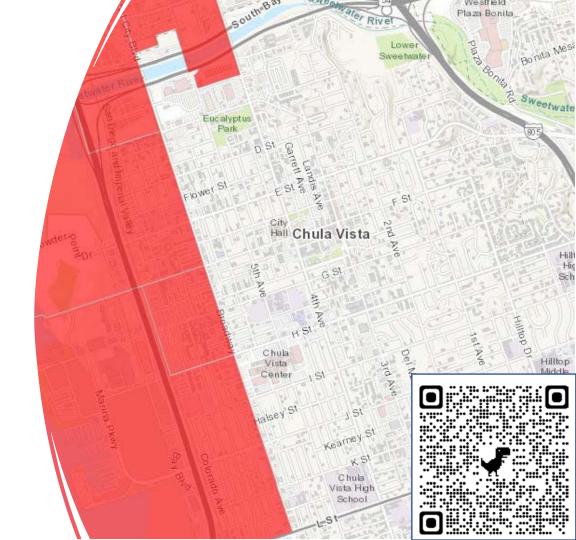
Phone: (619) 610-0171 Text: (619) 363-2869

Email: smorison@gridalternatives.org

Eligibility

DAC-SASH Program Disadvantaged Communities – Single-Family Solar Homes Program		
	Effective June 1, 2021 May 31, 2022	
1	Same as below	
2	\$34,480	
3	\$54,900	
4	\$66,250	
5	\$77,600	
6	\$88,950	
7	\$100,300	
8	\$111,650	
Each additional person	\$11,350	

*Line 9 of you 2020 Tax Return



Electric vehicles are in your reach!

You could qualify for \$5000 to \$14000 toward the cost of buying or leasing a new or used electric vehicle.







Questions?

For more information

Stanford Morison | Outreach Coordinator

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Home Electrification

Tips and Resources for Switching to Clean Electricity

Agenda

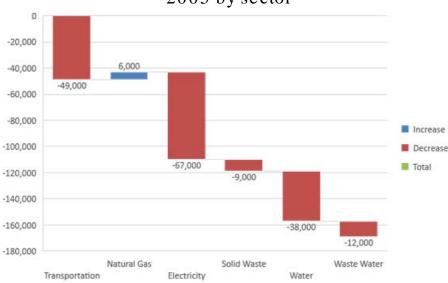
- The core four
- Energy efficiency
- Existing Home Sustainability
 Ordinance
- Solar energy
- Energy storage
- Retrofit tips



Why electrify?

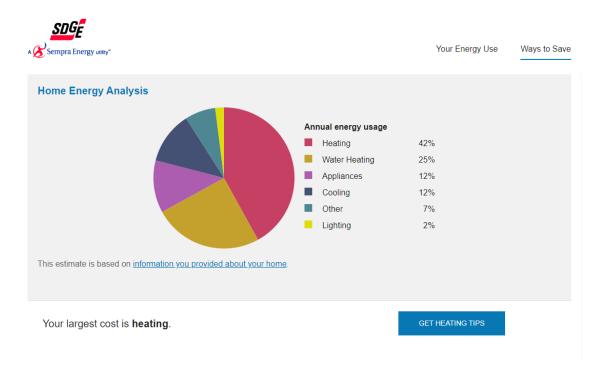
- Path for 100% clean electricity
- Decrease local air pollution
- Utilize self generation
- Increase efficiency
- Increase service

Chula Vista emissions change since 2005 by sector



The Core Four Electrical Appliances

- Space Heating
- Water Heating (Rebate)
- Clothes Dryer
- Stove



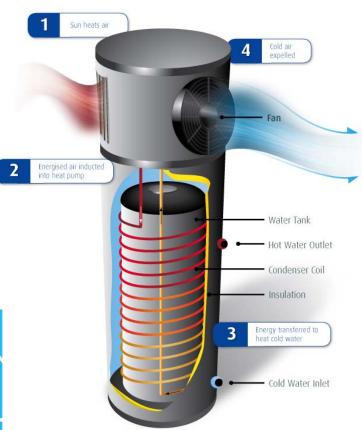
• Learn about your home on SDG&E's "My Account" by taking the "Home Energy Survey" found in the "Ways to Save" page

Energy and Water Efficiency

The cleanest energy is energy that is not needed

- Heat Pump Technology moves heat does not create it
 - \$500 SDG&E rebate <u>www.sdge.com/rebates</u>
- LED lighting
- Low-flow shower heads and faucet aerators
- Energy Star appliances





Existing Home Sustainability Ordinance

Require homes built before 2006 that are performing additions or structural remodels to also perform specific energy upgrades

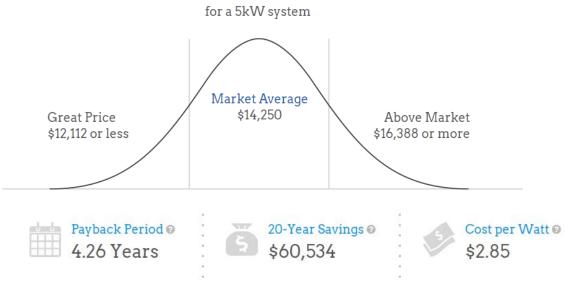
- Applies to all 1-4 unit buildings and individually owned units in larger residential buildings
- Typical electrification measures that also meet EHSO
 - LED lighting
 - Water heater efficiency
 - Attic insulation
 - Duct sealing
 - High efficiency water heater





Solar Energy

2021 average solar panel cost graph in Chula Vista, CA



www.energysage.com

- Unbiased general information
- Standardized solar quotes without the pressure
- Pre-screened contractors

Energy Storage

Batteries:



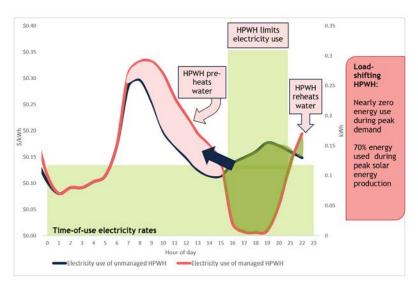


Energy Storage General Budget	Step 3 \$/Wh
Large Storage (>10 kW)	\$0.35
Large Storage Claiming ITC	\$0.25
Small Residential Storage (<=10 kW)	\$0.35

www.energycenter.org/self-generation-incentive-program

Heat Pump Water Heaters:

Smart or Grid connected (look for wifi connected and/or cta-2045) HPWHs can know utility rates and schedules to use more energy in off peak times



Retrofit Tips

- Heat Pump Water Heaters
 - Installation considerations
 - In-conditioned space
 - Noise
 - Connection to 240 v outlet (120 v units coming soon!)
 - Often referred as a hybrid electric Heat Pump Water Heaters which means it has an electric resistance as back up
- Limited existing breaker capacity circuit splitters



 $\underline{https://redwoodenergy.net/wp-content/uploads/2021/02/Pocket-Guide-to-All-Electric-Retrofits-of-Single-Family-Homes.pdf}$

Home Energy Kits at the Library

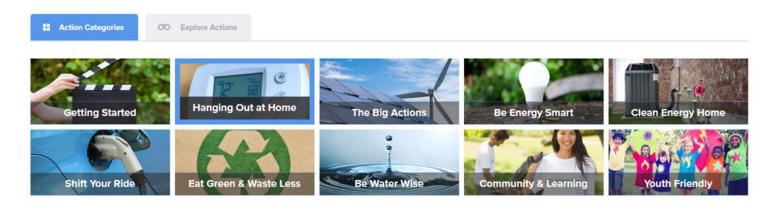
Tools and Supplies:

IR Camera
Gas Detector
Weatherstripping and LED bulbs
Instructional Guidebook



www.chulavistaca.gov/departments/clean/home-toolkit





Actions you can take while sheltering at home that make a difference and save you money!

- 1. Create an account at www.cvclimatechallenge.com
- 2. Complete the survey to find your carbon footprint
- 3. Earn points for taking action

Hanging Out at Home 29

Covid-19 Assistance



Need help paying your past-due rent and utilities?



Chula Vista residential tenants (renters) who have experienced financial hardship due to the COVID-19 pandemic may qualify.



If you are not a resident of Chula Vista, but live within San Diego County, rent and utility resources are available at www.ERAPsandiego.org

This project is being supported, in whole or in part, by federal award number ERA0131 awarded to the City of Chula Vista by the U.S. Department of the Treasury.

Questions?

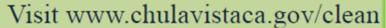


Cory Downs
Sustainability Specialist
cdowns@chulavistaca.gov



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Start changing!



Your actions make a difference!



www.chulavistaca.gov/clean

Questions?



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cdowns@chulavistaca.gov