

# REACH CODE STAKEHOLDER ADVISORY COMMITTEE

MEETING #4: EDUCATION, INCENTIVES,  
WORKFORCE STRATEGY

TOWN OF TRUCKEE

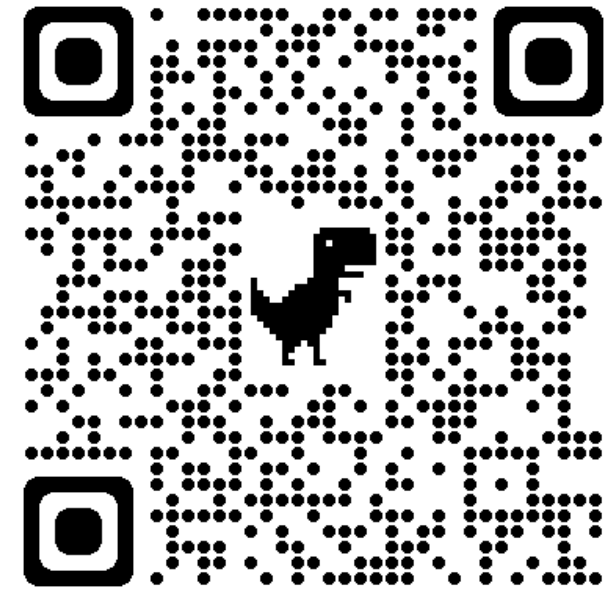
**DATE:** November 14, 2022

ID  
360°



# Housekeeping

- Opportunities to submit comments and questions will be available after each local utilities' presentation.
- Open floor discussion is welcome after the presentations today.
- Any questions or comments not addressed in today's meeting will be followed up on separately.



Scan QR Code for access to presentation materials and supplemental resources.



# AGENDA

1. Goals for Today's Meeting
2. Reach Code Development Timeline Updates
3. Decarbonization Resources for the Community
  1. Statewide and Federal Incentive Programs
  2. Local Utility Programs
4. Program Examples from Other Jurisdictions
5. Stakeholder Committee Discussion
6. Next Steps



# GOALS

- Engage in discussion on the following:
  - **Education** opportunities related to energy efficiency, electrification, and decarbonization.
  - **Incentive** priorities related to energy efficiency, electrification, and decarbonization.
  - **Workforce development** strategies related to energy efficiency, electrification, and decarbonization.
- Discuss education and incentives that the Town should promote or consider exploring.



# Reach Code Development Timeline Updates





# Reach Code Development Timeline Updates

- Town has received 2022 New Single-family Custom Analysis and 2022 New Nonresidential Custom Analysis from statewide team.
- Expansion of Supplemental Cost-benefit & Economic Impact Analysis scope in progress based on feedback during 9/27 meeting.
- Full reports from statewide team for 2022 New Nonresidential and 2022 New Multifamily pending.
- Committee to reconvene after the New Year, when all the cost-effectiveness data and analyses are complete.



# Decarbonization Resources for the Community

## Federal & State Programs





# 2022 Inflation Reduction Act (IRA)

## Key Provisions

- Expanded clean energy tax credits to drive wind and solar.
- Climate-smart development financing to local, state, tribal governments.
- Program funding for clean energy (solar, pollution-reducing) in low-income and disadvantaged communities.
- Incentives for homeowners to install heat pumps, EVs, and solar.
- Local government assistance for zero-energy codes.
- State-based workforce development funding to train contractors in energy efficiency installation and electrification improvements.





# 2022 Inflation Reduction Act (IRA)

- Tax credits and rebates for homeowners and renters.
  - Rooftop Solar PV
  - Weatherization and Efficiency Upgrades
  - Heat pump systems
  - Electric system upgrades
  - Electric vehicle (EV)





# 2022 Inflation Reduction Act (IRA)

High-Efficiency Electric Home Rebate Program (HEEHRA)	
Appliance/Non-Appliance Upgrade	Rebate
Air-Source Heat Pump (ASHP)	\$8,000
Heat Pump Water Heater (HPWH)	\$1,750
Electric Stove	\$840
Electric Clothes Dryer	\$840
Upgraded Breaker Box	\$4,000
Upgraded Electrical Wiring	\$2,500
Insulation, Ventilation and Sealing	\$1,600
Total home cap of \$14,000 cap. Eligible income: < 150% AMI	

- Rebates up to 50% or 100% of project cost (income determined) up to measure-specific caps.
- Available for new construction



# 2022 Inflation Reduction Act (IRA)

- Performance-based, whole home rebates (retrofit only)
  - Rebates for retrofits of up to \$4,000/home for market rate customers
  - \$8,000 for LMI homes (for energy savings >35%)
  - Rebate based on either modeled or measured energy savings





# Building Initiative for Low-Emissions Development Program (BUILD)

## About the BUILD Initiative

- BUILD is a residential building decarbonization program.
- BUILD provides incentives and technical assistance to support the adoption of advanced building design and all-electric technologies in new, low-income all-electric homes.
- BUILD encourages adoption of clean energy technologies in affordable housing developments.





# Building Initiative for Low-Emissions Development Program (BUILD)

## Why Participate in BUILD?

- Receive \$2,000,000 in incentives to reduce construction costs
- Reduce long-term utility costs for both developer and residents
- Build applicant's in-house capacity for all electric buildings
- Layer funds with other programs and incentives
- Eliminate costs for gas infrastructure

## Who is Eligible?

- Building owners or developers of low-income housing with:
  - Five years' development experience
  - At least one completed low-income project



# Building Initiative for Low-Emissions Development Program (BUILD)

## What Projects are Eligible?

- Low-income residential housing (single-family and multifamily)
- Building must be all-electric and no hookups to the gas distribution grid
- Demonstrate modeled resident utility cost savings
- Project located in one of four gas service territories:
  - Southern California Gas, Pacific Gas & Electric, San Diego Gas & Electric, and Southwest Gas Corporation



# Building Initiative for Low-Emissions Development Program (BUILD)

## Eligible Residential Buildings

- Newly constructed buildings
- Existing buildings repurposed for housing
- Building additions or renovations where 50% or more of the exterior weight bearing walls are removed or demolished

## Sample Eligible Building Types

- Single-family homes
- Duplexes/triplexes/ quadplexes
- Multifamily apartments
- Homeless/transitional housing
- Mixed-use buildings (incentive for residential portion)



# TECH Initiative

## ABOUT the TECH Initiative


- TECH Clean California is a \$120 million initiative.
- Designed to help advance the state's mission to achieve carbon neutrality by 2045.
- Driving the market adoption of low-emissions space and water heating technologies.
- 40% of program benefits targeted towards low-income and disadvantaged communities.





# TECH Initiative


## Key Activities

- Provide comprehensive guidance on product incentives, pilots, workforce development and training opportunities and local and state policies that impact the market.
- Expand the reach of consumer awareness campaign,  **THE SWITCH IS ON**, in markets with TECH initiatives in place.
- Develop custom messaging and outreach for low-income customers and disadvantaged communities through low-income facilitators and CBOs.
- Collect and publish sales data, energy and GHG impacts to inform California's long-term decarbonization strategy.



# TECH Clean California

- Maintains public data on heat pump installations and tracks the number of installations performed by contractors enrolled in the program.



Enter up to 5 digits of your zip code followed by '\*' to find a nearby contractor

×

Contractor Name	Contractor City	HP HVAC Installs	HPWH Installs	Total Units Installed
All Phase Heating & Air Conditioning, Inc.	Grass Valley	1	0	1
Beaver Heating & Air	Yuba City	5	0	5
Brewer Heating & Air Conditioning Inc	Grass Valley	15	0	15
Climate and Energy Solutions	Chico	49	20	69
Connect Energy Mechanical	Chico	4	0	4
Danny Oliver's Heating & Air Conditioning	Penn Valley	3	0	3
Hignell inc	Chico	4	0	4
McClelland Air Conditioning Inc	Chico	1	0	1
Royal Aire, Inc.	CHICO	8	1	9
Town and Country Heating and AC	Yuba City	4	0	4



# Budget

## Remaining Funding Allocation for TECH Clean California General Incentives

	Total Incentives Paid (\$)	Total Paid + In Process (\$)	Reserved Funds (Total Paid + In Process + Unsubmitted) (\$)	Allocated Incentive Budget (\$)	Non-Reserved Budget Remaining (\$)	% of Budget Remaining
<b>Total</b>	<b>9,572,250</b>	<b>30,069,250</b>	<b>47,485,350</b>	<b>40,000,000</b>	<b>-7,485,350</b>	<b>-18.7%</b>
<b>Single Family HPWH &amp; HP HVAC</b>	<b>9,497,550</b>	<b>23,287,950</b>	<b>36,280,950</b>	<b>28,000,000</b>	<b>-8,280,950</b>	<b>-29.6%</b>
Southern California Gas Territory HPWH Incentives	157,750	277,250	349,250	1,500,000	1,150,750	76.7%
Southern California Gas Territory HP HVAC Incentives	Suspended - All Incentives Reserved (\$12,292,800)					
Pacific Gas & Electric Territory	Suspended - All Incentives Reserved (\$11,855,200)					
San Diego Gas & Electric Territory	Suspended - All Incentives Reserved (\$1,895,600)					
Southwest Gas Territory	16,500	79,700	130,700	456,400	325,700	71.4%
<b>Multifamily HPWH &amp; HP HVAC</b>	<b>74,700</b>	<b>6,781,300</b>	<b>11,204,400</b>	<b>12,000,000</b>	<b>795,600</b>	<b>6.6%</b>
Southern California Gas Territory	70,700	888,100	5,311,200	5,911,200	600,000	10.2%
Pacific Gas & Electric Territory	Suspended - All Incentives Reserved (\$5,080,800)					
San Diego Gas & Electric Territory	Suspended - All Incentives Reserved (\$812,400)					
Southwest Gas Territory	-	-	-	195,600	195,600	100%

Last updated: 6/8/22



# TECH: Single-Family Incentives

## Heat Pump HVAC Incentives

Equipment Type	Minimum Efficiency Requirements	Total Incentive Per Unit
Package, split, mini/multi-split	Title 24 code minimum	\$1,000

## Heat Pump HVAC Incentives — Quality Installation

Quality Installation Measure	Qualifier	Total Incentive (TECH + Local Program Combined)
Manual J completed	Provide calculations	\$300
Duct sealing/replacement and testing	5% Total leakage or less	\$300
Field Measured Performance (based on ASHRAE 221-2020)	Heating System Performance Ratio (HSP <sub>r</sub> ) or Cooling System Performance Ratio (CSP <sub>r</sub> ) = 80% or better	\$400

*Note: The above installation incentives are available to be kept or passed on to the customer at the contractor's discretion.*



# TECH: Single-Family Incentives

## Heat Pump Water Heater Incentives

Replacement Scenario	Measure Criteria	Total Incentive Per Unit By Utility Territory
Gas/propane to HPWH	All HPWH sizes	\$2,100 for PG&E \$3,100 for SCG and SWG
Electric resistance to HPWH	All HPWH sizes	\$1,000 for all

*Note: The Demand Response Program enrollment bonus is \$50 and is available in all territories and can be kept by contractor*



# TECH: Multifamily Incentives

## Incentives for Heat Pump HVAC Systems Serving Individual Apartments

Previous Space Heat Source	System Type		Total Incentive Per System
	Description	AHRI Test Standard	
Non-heat pump systems	Split or rooftop heat pump (ducted or ductless)	210/240	\$2,000
All except PTHPs	PTHP, SPVHP, or unitary through the wall/ceiling heat pump	310/380, 390	\$500 (Single or two-stage compressor) \$1,000 (Variable capacity/inverter-driven)

## Incentives for Heat Pump HVAC Systems Serving Multiple Apartments

Previous Space Heat Source	System Type	Total Incentive (Per Apartment Served)
Non-heat pump systems	HP HVAC equipment serving multiple apartments	\$1,000



# TECH: Multifamily Incentives

## Incentives for Heat Pump HVAC Systems Serving Common Areas

Previous Space Heat Source	System Type	Total Incentive Per System
Non-heat pump systems	Split or rooftop heat pump (ducted or ductless)	\$1,800
	PTHP, SPVHP, or unitary through the wall/ceiling heat pump	\$300 (Single or two-stage compressor) \$800 (Variable capacity/inverter-driven)



# TECH: Multifamily Incentives

## Incentives for Electrical Panel Upgrades

Previous Equipment	System Type	Total Incentive (Per Apartment Receiving Electrical Upgrade)
Undersized apartment electrical infrastructure that is upgraded as part of an apartment's HPWH or HP HVAC installation	Apartment panel or sub panel upgrades, feeder upgrades, or service disconnect upgrades	<p>\$1,400</p> <p>Apartment unit must have received a TECH-funded HP HVAC or HPWH and must be all-electric after the electrical upgrade</p>



# TECH: Multifamily Incentives

## Incentives for Unitary Heat Pump Water Heaters

Previous Water Heater Heat Source	HPWH Tank Size	Total Incentive Per System
Gas or propane	< 55 gallons	\$1,400
	>= 55 gallons	\$2,100
Electric resistance	All	\$700

## Incentives for Central Heat Pump Water Heaters Serving Two or More Apartments

Previous Water Heater Heat Source	HPWH Storage Volume <sup>1</sup>	Total Incentive (Per Apartment Served)
Non-heat pump systems	< 15 gallons per bedroom served	\$1,200
	>= 15 gallons per bedroom served	\$1,800

<sup>1</sup> Storage volume only includes storage volume of water that can be heated directly by the heat pump components of the plant.

## Incentives for Multifamily Heat Pump Pool or Spa Heating

Previous Space Heat Source	System Type	Total Incentive Per System
Non-heat pump systems	Heat pump pool heating	\$2,500



# California Electric Homes Program - CalEHP

- Program currently under development.
- Program will provide incentives for the construction of all-electric market-rate residential buildings.
- Program will provide incentives for installation of energy storage systems.



**CALIFORNIA**  
**ENERGY**  
**COMMISSION**



# Decarbonization Resources for the Community

## Local Programs





# Local Utility Programs

Energy efficiency and savings programs available to the Truckee community.

- Liberty Utilities
- Southwest Gas
- Truckee Donner Public Utility District





# Charting a Sustainable Future

## Introduction to TDPUD De-carbonization programs





# TDPUD De-Carbonization Programs - Context

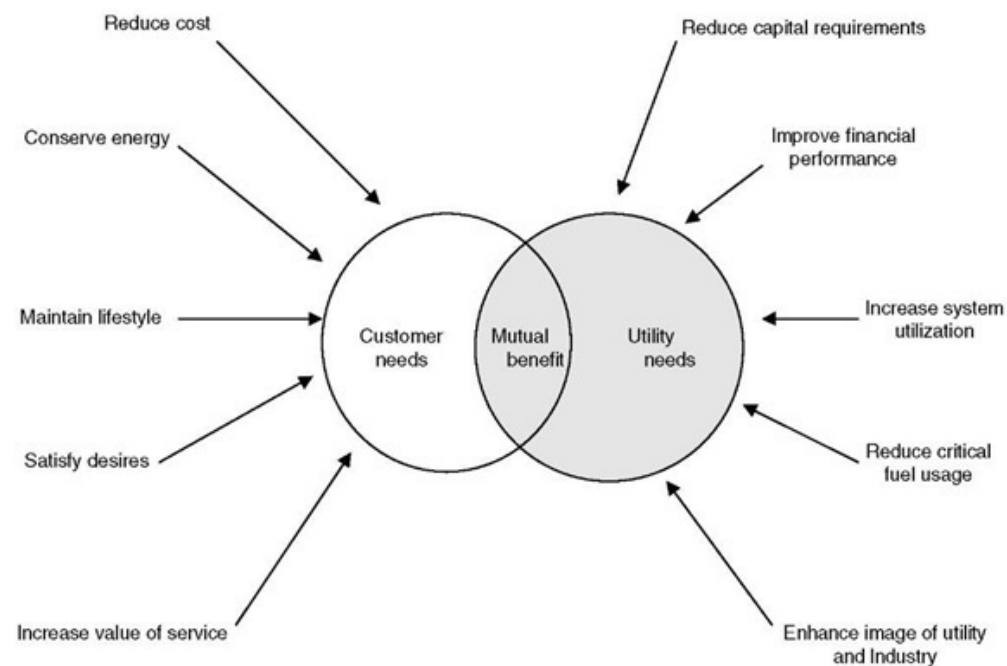
Resource Planning Objectives are Consistent with SB 1020 (*currently exceed by ~7 years*)

- 60% Renewable and Clean by 2030
- 90% by 2035
- 95% by 2040
- 100% by 2045

Focus has shifted from traditional *conservation* to *de-carbonization* - though we still have specific conservation targets.

Winter peaking at ~60% of distribution system design capacity (*demand response not currently a cost effective or necessary resource*)

Large portion of well educated customers with both the means and interest in pursuing home electrification (*though with skepticism*)





# Current Initiatives

## Conservation and De-Carbonization Programs

### Classic Rebates



### SMART Electrification





# Current Initiatives

## *Conservation and De-Carbonization Programs*

---

### Residential Energy Surveys



- Slowly re-launching program in-house. (Intend to actively start marketing spring '23)
- Entirely virtual audit process paired with “conservation kits”
- Identify opportunities for customers to participate in other District Programs and Southwest Gas programs.



# PY22 De-Carbonization Program Participation Snapshot

(as of August 2022)

## Appliances

	<i>Heat Pumps</i>	<i>EV Chargers</i>
Enrollment Quantity	7	11
Total Incentives	\$9,887.00	\$7,920.68
Electric Impacts	-12,708.57 kWh	-33,000.00 kWh
Gas Impacts	1,348.54 Therms	0 Therms
Installed Tonnage	21.6	NA

## DERs

	<i>PV</i>	<i>ESS</i>
Count	236	11
Total Capacity	1,436 kW	100 kW
Avg. Capacity	6.09 kW	9.12 kW
Annual Production	2,155 MWH	
Storage Capacity		282 kWh



# Current Initiatives

## *Conservation and De-Carbonization Programs*

### Education

- Increase local community understanding of why conservation (both energy and water) is important;
- Increase awareness and involvement in TDPUD water and energy conservation programs;
- Increase awareness of TDPUD efforts at decarbonization and how individuals within the community can participate
- Teach conservation lifestyle behaviors
- Conservation Garden





## TDPUD Electrification Programs - Takeaways

---

- Limited participation in rebate offerings
  - Programs are newly re-designed and “*suffer*” from high saturations of traditional measures (e.g. past program success).
  - Local concerns about grid reliability (really “availability”)
- Local HVAC contractors not familiar with (and largely disinterested in) cold weather heat pump options.
- High **natural adoption** rates for EV chargers (particularly Tesla), Energy Star appliances, and heat pumps.
- Questionable utility for ESS (battery) for PSOM and extended outages. High natural adoption in certain pockets despite no real economic payback.



**Pushing program focus towards education, outreach, and behavior!**



# Liberty's Home Energy Audit Program

## Available to all residential customers

- Evaluation of the home to help to understand energy usage and identify opportunities to increase efficiency
- Virtually or in-person
- Customers will receive a report with the findings and recommendations
- Energy Efficiency Kit delivered to the home following the audit (may include LED lamps, advanced power strips, shower heads/faucet aerators)





Energy Efficient Home Improvements Can

# SAVE YOU MONEY AND ENERGY



## THERE ARE TWO WAYS TO QUALIFY!

### 1. Public Assistance Program Eligibility

If you or someone in your household participate(s) in any of the following programs:

- Medicaid/Medi-Cal (age 65 and over)
- Medicaid/Medi-Cal (under age 65)
- Medi-Cal for Families A&B (Healthy Families A&B)
- Supplemental Security Income (SSI)
- CalFresh/SNAP (Food Stamps)
- Head Start Income Eligible (Tribal Only)
- Bureau of Indian Affairs General Assistance
- Women, Infants, and Children (WIC)
- National School Lunch Program (NSLP)
- Low Income Home Energy Assistance Program LIHEAP)
- CalWORKS (TANF) or Tribal TANF

### 2. Income Eligibility

#### ESA

Effective July 1, 2022 to May 31, 2023.

Number of Persons Living in My Home	Annual Income
1	\$33,975
2	\$45,775
3	\$57,575
4	\$69,375
5	\$81,175
6	\$92,975
7	\$104,775
8	\$116,575

for each additional person add \$11,800

Now you can take advantage of the Energy Savings Assistance (ESA) Program and save money on your energy bills. As a Southwest Gas, Liberty Utilities or Bear Valley Electric income-qualified customer, you may be eligible for energy efficient home improvements at no cost to you.

Whether you rent or own, you'll see savings at home and in your pocket. **Conserving energy just got a whole lot easier.**

#### Your home can be more efficient with:

- Weatherstripping and caulking
- Ceiling insulation
- Water-restricting devices
- Water heater blankets
- Minor repairs to exterior doors and windows
- Switch and outlet cover plates and gaskets
- Pipe insulation
- Evaporative cooler and air conditioning covers
- Other minor home repairs

#### Emergency Disaster Relief Program (EDRP)

Southwest Gas customers are provided certain protections under the California EDRP in times of a declared emergency. These mandated protections include a suspension on disconnections for non-payment, waiver of deposits, and flexible payment options. [swgas.com/edrp](https://www.swgas.com/edrp)

# Liberty's Energy Savings Assistance Program (ESA)

## New Measure Updates

- Smart Thermostats
- Central Air Conditioner (AC) Replacement
- Central Heat Pump Replacement
- Heat Pump Water Heaters
- Dishwashers
- Freezers
- Room AC Replacement
- Central AC Tune-up
- Heat Pump Tune-up
- Smoke and Carbon Monoxide Detectors

## TO FIND OUT MORE ABOUT THE ENERGY SAVINGS ASSISTANCE PROGRAM, PLEASE CONTACT:

Energy Savings  
Assistance Program™



Southwest Gas  
866-812-5766 | 8 am to 5 pm  
[swgas.com/esa](https://www.swgas.com/esa)



Liberty Utilities Contractor  
866-812-5766 | 8 am to 5 pm  
[libertyutilities.com](https://www.libertyutilities.com)



Bear Valley Electric Service Contractor  
800-808-2837 | 8 am to 5 pm  
[bves.com](https://www.bves.com)

EE-CA ESA Flyer 07/2022





# Commercial Incentives Program

## Available to all non-residential customers

Provides support for planning/implementing energy efficiency projects

Prescriptive incentives for:

Lighting

Cooling

Commercial kitchen equipment

Refrigeration

- Prescriptive incentives are fixed values offered on per replaced/upgraded unit basis
  - Custom incentives based on estimated annual energy savings





# **California Energy Efficiency Programs**

**Prepared for the  
Truckee REACH Code Advisory Committee**

**November 14, 2022**



# Energy Savings Assistance (ESA) Program

Energy efficient home improvements at no cost to qualified Southwest Gas customers may include:

- Weatherstripping and caulking
- Insulation
- Water-restricting devices
- Water heater blankets
- Repair or replacement of doors and windows
- Switch and outlet cover plates and gaskets
- Pipe insulation
- Evaporative cooler and air conditioning covers
- Appliance repair or replacement
- Duct work repair
- Other minor home repairs



# ESA Program Qualifications

Qualified Southwest Gas customers may be owners or renters and qualify for program inclusion in two ways:

1. Public Assistance Program Eligibility – if any person in the household participates in any of the following programs:

- Medicaid/Medi-Cal (age 65 and over)
- Medicaid/Medi-Cal (under age 65)
- Medi-Cal for Families A&B (Healthy Families A&B)
- Supplemental Security Income (SSI)
- CalFresh/SNAP (food stamps)
- Head Start Income Eligible (Tribal only)
- Bureau of Indian Affairs General Assistance
- Women, Infants and Children (WIC)
- National School Lunch Program (NSLP)
- Low Income Home Energy Assistance Program (LIHEAP)
- CalWORKS (TANF) or Tribal TANF



# ESA Program Qualifications

2. Income Eligibility – The household annual income is at or below 250% of the Federal Poverty Level:

Effective July 1, 2022 to May 31, 2023	
Number of Persons in Household	Annual Income
1	\$33,975
2	\$45,775
3	\$57,575
4	\$69,375
5	\$81,175
6	\$92,975
7	\$104,775
8	\$116,575
For each additional person add \$11,800	



# ESA Application Process

1. Call 866-812-5766 or complete online form at [www.swgas.com/esa](http://www.swgas.com/esa).
2. Prequalification
  - Verification of program or income eligibility
  - Energy education
  - Identification of measure to be installed
3. Installation of weatherization measures
4. Post-installation inspection/audit and confirmation of measures installed
5. GHG emissions reductions are estimated based on the number and type of measures installed



# Energy Efficient Appliance Rebates

Category	Rebate Program	Description	Amount	Exp. Date
Water Heating	<a href="#">California Natural Gas Tankless Water Heater-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$225	Dec 31, 2025
Water Heating	<a href="#">California Natural Gas Storage Water Heater-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$75	Dec 31, 2025
Washer-Dryer	<a href="#">California Clothes Washer-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$25 - \$50	Dec 31, 2025
Washer-Dryer	<a href="#">California Natural Gas Clothes Dryer-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$50	Dec 31, 2025
Heating-Cooling	<a href="#">California Natural Gas Fireplace-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$50 - \$100	Dec 31, 2025
Heating-Cooling	<a href="#">California Natural Gas Gravity Wall Furnace-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$25	Dec 31, 2025
Heating-Cooling	<a href="#">California Smart Thermostat-Homeowner/Renter</a>	Receive a rebate on qualifying models if you are a Southwest Gas Residential customer.	\$100	Dec 31, 2025
Heating-Cooling	<a href="#">Special Offer Home Heating Inspection</a>	Special Offer: \$75 per-unit home heating inspection running October 1, 2022 – November 30, 2022.	\$75/unit	Dec 1, 2022



## Other CPUC Approved Conservation and Efficiency Programs

- **Residential Equipment Direct-Install (RED) Program:** The RED Program offers low flow showerheads, smart low flow showerheads, kitchen and bathroom faucet aerators and duct sealing measures to all residential customers at no charge. Southwest Gas has filed a request with the CPUC to add pipe wraps, water heater blankets and smart thermostats to the program.
- **New Homes Rebate:** The New Homes Rebate program offers rebates to homebuilders of single-family homes that are built to the State of California *Title 24 Energy Efficiency Standards* and equipped with high efficiency natural gas appliances.
- **Solar Thermal Rebates:** The Solar Thermal Rebate program offers rebates to residential and commercial customers for the installation of solar thermal systems for pools and residences.



With questions please contact:

**Stacy M. Woodbury, MPA**

**Manager/Public Affairs**

**775.309.7855**

**[Stacy.Woodbury@swgas.com](mailto:Stacy.Woodbury@swgas.com)**



# Program Examples from Other Jurisdictions





# Example Education/Incentive Programs

## Town of Los Altos Hills, CA

- [Building Electrification webpage](#) with electrification resources by end use and rebates available to the community.
- Established Home Electrification Assessment Program to assess a home's existing natural gas appliances + provide homeowners with a customized path for migrating off natural gas
- Town is offering \$1,000 rebates for 14 homeowners who replace a fossil-fueled water heater with a HPWH.





# Example Education/Incentive Programs

## Town of Portola Valley, CA

- Energy Upgrade Portola Valley Program
- Residents can schedule a Home Energy Assessment and a Water Use Assessment.
- Partnered with interested Energy Upgrade California-qualified contractors.





# Example Education/Incentive Programs

## Town of Fairfax, CA

- Town enrolled in Willdan's HPWH electrification program and replaced gas water heaters in various Town buildings.
- Pursuing electrification initiatives at facilities to lead by example and educate community.
- Provides resources to connect residents, businesses, and contractors to regional rebates, incentives, and training programs.

## Town of Crested Butte, CO

- Conducted case study of new 3,000 sq. ft. home in Town regarding equipment cost differences.
  - Gas v. electric heating, hot water heating, and stoves.
  - Available rebates
  - Utilizing cold-climate HPs found to be cost-effective.
- Leverages rebates from local utility.



# Example Education/Incentive Programs

- Streamlining Electrification Permitting
  - Similar to Expedited PV & EV Permitting required by the State.
  - Focus on electrification of appliances (HPWH, HP HVAC).
  - Leverage existing expedited review requirements and resources.
  - Evaluate permit fee structures to achieve parity between electric & natural gas or to favor electrification.
  - Develop dedicated electrification application, permit review, and inspection processes.





# Discussion





# Next Steps





## Next Steps

- Committee to reconvene after the New Year, when all the cost-effectiveness data and analyses are complete.
- State (Custom) and Supplemental C/E studies finalized.
- Develop local code based on statewide model code language and community and industry feedback.
- Bring reach code to Town Council.
- Undergo state approvals and begin local enforcement.