**SOUTHERN CALIFORNIA GAS COMPANY (SOCALGAS)**
**SIERRA CLUB DATA REQUEST 8 (SIERRA CLUB DR-08)**
**HYDROGEN BLENDING DEMONSTRATION APPLICATION (A.22-09-006)**
**DATE REQUESTED: August 14, 2025**
**RESPONSE DUE: August 28, 2025**

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**QUESTION 1:**

Please refer to page 11 of the Response of Southern California Gas Company to Appendix B of Assigned Commissioner's Scoping Memo and Ruling ("SoCalGas's Response to Appendix B Questions"), where SoCalGas states that it intends to encourage Orange Cove customers to participate in "existing customer assistance and energy efficiency programs," including "SoCalGas's Energy Savings Assistance Program, which may be able to subsidize or fully replace existing appliances."

a. Please identify all "customer assistance and energy efficiency programs" that SoCalGas could recommend to Orange Cove customers in the context of this statement, including income-qualified programs such as the Energy Savings Assistance Program.
b. For each program identified in response to Question 1(a), please list all eligible measures provided by the program.
c. Do any of the programs identified in response to Question 1(a) provide subsidies or installation of electric or induction cooking equipment (i.e., ranges, cooktops, or ovens)?
d. Do any of the programs identified in response to Question 1(a) provide subsidies or installation of heat pump water heaters?
e. Do any of the programs identified in response to Question 1(a) provide subsidies or installation of heat pump HVAC equipment (i.e., central heat pumps, ductless mini-split heat pumps, or room heat pumps)?
f. Does SoCalGas intend to educate Orange Cove customers regarding customer assistance and energy efficiency programs offered by their electric utility as well?

**RESPONSE 1:**

a. Customer Assistance and Energy Efficiency Programs that SoCalGas could offer to Orange Cove Customer as referenced in this statement include:
   - Energy Savings Assistance Program (ESA Program)
   - Emerging Technologies
   - Marketplace
   - Residential Rebate Program-Home Energy Efficiency Rebate Program
   - Energy Efficiency Rebates for Business
   - Trade Ally Program
   - Contractor Collaboration Platform
   - Comprehensive Manufactured Home Program
   - Residential Advanced Clean Energy Program

- Comprehensive Multi-Family Incentive Program
- Multi-Family Energy Efficiency Alliance Program
- Workforce Education & Training Program
- Community Language Efficiency Outreach Direct Install
- Food Service Outreach
- Public Sector Program
- Business Energy Efficiency Survey
- Behavioral and Financing Program
- Commercial Building Energy Solutions and Technologies ("CBEST") Program
- Agriculture Energy Efficiency (AgEE) Program
- Large Commercial Program
- Public Direct Install Program

b. Measures identified as eligible for each of these programs are listed as follows:

- **ESA Program Measures:**

| **Measure Name** |
|---|
| Attic Insulation |
| CO/Smoke Alarm |
| Comprehensive Home Health & Safety Checkup |
| Envelope/Air Sealing Measures |
| Faucet Aerators |
| Low Flow Showerheads |
| Furnace Clean & Tune |
| Furnace Repair/Replacement |
| High Efficiency Forced Air Unit |
| High Efficiency Clothes Washer |
| Prescriptive Duct Sealing |
| Smart Fan Controller |
| Smart Thermostat |
| Tankless Water Heater |
| Thermostatic Shower Valve |
| Thermostatic Tub Spout |
| Water Heater Tank and Pipe Insulation |
| Water Heater Repair/Replacement |

- **Emerging Technologies** looks to identify energy efficiency technologies for potential inclusion into our program portfolio. While no project technologies have been identified for this community at this time, the program is active to identify project opportunities.
- **The SoCalGas Marketplace** can be leveraged to connect Orange Cove customers to instant rebates and low-interest financing from the California GoGreen Financing offer. This includes products not offered by the ESA Program such as clothes dryers, dishwashers, and ovens. The Marketplace program can also ship residents free Water & Energy Efficiency Kits containing faucet aerators and low-flow showerheads
- **Residential Rebate Program, Home Energy Efficiency Rebate Program-**See https://www.socalgas.com/savings/rebates-and-incentives
- Measures:
  - Natural Gas Fireplace Insert
  - Natural Gas Patio Heaters
  - Solar Thermal Water Heating System
  - Natural Gas Pool Heater
  - High-Efficiency Natural Gas Storage Water Heaters
  - High-Efficiency or ENERGY STAR Certified Natural Gas Tankless Water Heaters
  - ENERGY STAR Certified Natural Gas Clothes Dryer
  - Natural Gas Wall Oven
  - Natural Gas Oven
- **Energy Efficiency Rebates for Business Program** is a good resource for Orange Cove businesses. See https://www.socalgas.com/business/savings/equipment-rebates.
  - Tankless Water Heater
  - Commercial Hot Water
  - Commercial Griddle
  - Convection Rack Oven
  - Natural Gas Patio Heater
  - Solar Thermal Collector
- **Trade Ally Program** and **Contractor Collaborative Platform ("CCP")** can connect local plumbing and HVAC trade professionals to SoCalGas program implementers to keep energy efficiency work in the community. Our CCP program offers the following bonuses:
  - $150 incentive to a plumbing PRO for the sale of an energy efficient tankless water heater
  - $200 incentive for an HVAC PRO for the sale of an energy efficient furnace

- **Workforce Education & Training team (WE&T)** can deliver energy efficiency education in-person at our Energy Resource Center (ERC), virtually online, and on-site at local locations in Orange Cove.
- **Residential Advanced Clean Energy Program:**

| MeasureName |
|---|
| Smart fan controller installed on existing HVAC system (AOE) |
| Smart fan controller installed on new HVAC system (NR) |
| Smart fan controller installed on existing HVAC system with Smart Thermostat (AOE) |
| Smart fan controller installed on new HVAC system with Smart Thermostat (NR) |
| Duct Seal and Test, Residential, High (40% to 12%) SFm & MFm pre 2006 |
| Duct Seal and Test, Residential, High (40% to 12%) SFm & MFm post 2006 |
| Ceiling/Attic Insulation >= R-30* |
| Duct seal high to low (40% to 12%), air seal attic plane, lower and bury ducts in insulation |
| Duct seal medium to low (24% to 12%), air seal attic plane, lower and bury ducts in insulation |
| Faucet Aerator for Residential Buildings, Bathroom <=1.0 gpm |
| Faucet Aerator for Residential Buildings, Bathroom <=0.5 gpm |
| Faucet Aerator for Residential Buildings, Kitchen <=1.5 gpm |
| High Efficiency Furnace, Residential, AFUE 92%-VSM |
| High Efficiency Furnace, Residential, AFUE 95%-VSM |
| High Efficiency Furnace, Residential, AFUE 97%-VSM |
| Residential Showerhead, <=1.5 gpm |
| Thermostatic Shower Valve |
| HW Heater Pipe Sleeve, Indoor |
| HW Heater Pipe Sleeve, Outdoor |

| |
|---|
| Energy Star Dryer |
| Efficient Residential Gas Oven |
| Residential Smart Thermostat-DI |
| Natural Gas Fireplace Insert - Tier 1 (NR) - (70-74.9 FE) |
| Pool & Spa Heaters in Res Bldgs - 84% TE |
| Natural Gas Fireplace Insert - Tier 2 (NR) - (75 FE or greater) |
| Pool & Spa Heaters in Res Bldgs - 94% TE |
| Fan Type Wall Furnace with thermoelectric generator 82% AFUE (30 kBtu/hr Input Capacity) |
| Small Tankless Water Heater, Tier 4 (UEF>=0.96), High Draw |

- **CoMFI** Program (Comprehensive Multifamily Incentive) See comfiprogram.com.
  - Clothes Washer Residential
  - Ceiling Insulation, Residential

- Furnace, Residential
- Smart Thermostat, Residential
- Domestic Hot Water Loop Temperature Controller, Multifamily & Commercial
- Hot Water Pipe Insulation, Nonresidential and Multifamily
- Demand Control for Centralized Water Heater Recirculation Pump, Multifamily & Commercial
- Central Storage Water Heater, Multifamily
- Boiler, Multifamily
- Space Heating Boiler, Commercial & Multifamily
- Tankless Water Heater, Residential
- Storage Water Heater, Residential
- Faucet Aerator Residential
- Low-Flow Showerhead, Residential
- TSV with and without an Integrated Low-Flow Showerhead, Residential
- Diverting Tub Spout with TSV, Residential
- Solar Thermal Water Heating System, Commercial and Multifamily
- Gas Heat Pump Water Heater, Multifamily
- Heater for Pool or Spa, Commercial and Multifamily
- Space Heating Gas Absorption Heat Pump, Multifamily
- Patio Heater, Gas, Commercial and Residential
- Placeholder for Additional Custom Measures

- **Comprehensive Manufactured Homes Program** partners for this program: Staples Energy and Synergy Companies (see https://www.synergycompanies.com/gas/cmhp).

| MeasureName |
|---|
| Smart fan controller installed on existing HVAC system (AOE) |
| Smart fan controller installed on new HVAC system (NR) |
| Smart fan controller installed on existing HVAC system with Smart Thermostat (AOE) |
| Smart fan controller installed on new HVAC system with Smart Thermostat (NR) |
| Duct Seal and Test, Mobile Home, High (35% to 15%) |
| Return Duct Retrofit (total leakage reduction 50% to 15%) |
| Crossover Duct Replacement (total leakage reduction 35% to 15%) |
| Faucet Aerator for Residential Buildings, Kitchen <=1.5 gpm |
| Faucet Aerator for Residential Buildings, Bathroom <=1.0 gpm |
| Faucet Aerator for Residential Buildings, Bathroom <=0.5 gpm |
| Residential Showerhead, <=1.5 gpm |
| Thermostatic Shower Valve |
| HW Heater Pipe Sleeve, Indoor |
| HW Heater Pipe Sleeve, Outdoor |

| Measure Name |
|---|
| Energy Star Dryer |
| Residential Smart Thermostat - DI |
| Natural Gas Fireplace Insert - Tier 1 (NR) - (70-74.9 FE) |
| Storage Water Heater 40 Gal Medium Draw (UEF>=0.64) |
| Natural Gas Fireplace Insert - Tier 2 (NR) - (75 FE or greater) |
| Small Tankless Water Heater, Tier 4 (UEF>=0.96), High Draw |
| High Efficiency Furnace, Residential, AFUE 92%-VSM |
| High Efficiency Furnace, Residential, AFUE 95%-VSM |
| High Efficiency Furnace, Residential, AFUE 97%-VSM |

- **CLEO-DI Program** (Community Language Efficiency Outreach Direct Install) See https://www.cleo-info.com/.

| Measure Name |
|---|
| Duct Seal and Test, Residential, Medium (25% to 12%) SFm & MFm pre 2006 |
| Duct Seal and Test, Residential, High (40% to 12%) SFm & MFm pre 2006 |
| Duct Seal and Test, Residential, Medium (25% to 12%) SFm & MFm post 2006 |
| Duct Seal and Test, Residential, High (40% to 12%) SFm & MFm post 2006 |
| Ceiling/Attic Insulation >= R-11* |
| Ceiling/Attic Insulation >= R-19* |
| Ceiling/Attic Insulation >= R-30* |
| Ceiling/Attic Insulation >= R-38* |
| Duct Seal high to Low (40%to 12%), Air Seal Attic Plane, Lower and Bury Ducts in Insulation |
| Duct Seal Medium to Low (24%to 12%), Air Seal Attic Plane, Lower and Bury Ducts in Insulation |
| Faucet Aerator for Residential Buildings, Kitchen <=1.5 gpm |
| Faucet Aerator for Residential Buildings, Bathroom <=1.0 gpm |
| HW Heater Pipe Sleeve, Indoor |
| Residential Showerhead, <=1.5 gpm |
| Tubspout & Thermostatic Shut-off Showerhead; 1.5 GPM (SF) |
| Residential Smart Thermostat - DI |

- **MEA Program** (Multi-Family Energy Alliance) See https://caenergyprograms.com/mea.

| |
|---|
| Tankless Water Heater: Tier 1: 0.82 - 0.86 UEF** |
| Tankless Water Heater: Tier 2: 0.87 – 0.91 UEF |
| Tankless Water Heater: Tier 3: 0.92 – 0.95 UEF |
| Tankless Water Heater: Tier 4: ≥ 0.96 UEF |

| |
|---|
| Clothes Dryer Residential: ENERGY STAR Most Efficient (Advanced Tier) - ≥3.48 CEF |
| Clothes Washer Residential: ≥ 2.92 IMEF and ≤ 3.2 IWF |
| Fan Wall Furnace: Input rate 30,000 Btu/hr, 82% AFUE |
| Furnace Residential: ≥ 95% AFUE |
| Storage Water Heater Residential: ≥ 0.64 UEF |
| Tankless Water Heater Residential: Tier 2: 0.87 – 0.91 UEF |
| Tankless Water Heater Residential: Tier 3: 0.92 – 0.95 UEF |
| Tankless Water Heater Residential: Tier 4: ≥ 0.96 UEF |
| Boiler Multifamily: >90% TE |
| Demand Control for Centralized Water Heater Recirculation Pump Multifamily, < 35 HH |
| Demand Control for Centralized Water Heater Recirculation Pump Multifamily, > 35 HH |
| Domestic Hot Water Loop Temperature, < 35 HH |
| Domestic Hot Water Loop Temperature, > 35 HH |
| Patio Heater Standing |
| Patio Heater Wall |
| Pool Heater Multifamily |

- **Food Service Outreach Team** can deliver food service equipment education, equipment rebate support, and possibly local demonstrations of natural gas commercial food service equipment.
- **Public Sector Program** can serve our K-12 school partners with offerings such as:
    - Small Storage Water Heater, 40 gallons
    - Small Storage Water Heater, 50 gallons
    - Up to five faucet aerators installed at no cost to either SoCalGas or the K-12 school
- **Behavioral & Financing team** can market GoGreen Financing directly to Orange Cove residents with financing available up to $50 thousand for residential and up to $5 million for businesses.
    - Our Zero Percent On Bill Financing program for businesses offers qualified customers zero percent, unsecured loans to finance the purchase and installation of eligible energy-efficiency upgrades. See https://www.socalgas.com/business/savings/energy-saving-tips-and-tools/energy-efficiency-programs/zero-percent-financing.
- **Business Energy Efficiency Survey (BEES)** Program serves commercial, industrial, and agricultural SoCalGas customers by providing a no-cost inventory of their existing natural gas equipment and tailored energy efficiency recommendations. See https://www.socalgas.com/sites/default/files/2025-07/BEES-Brochure-25.pdf.
- Our Small & Medium **Commercial Program** (COMMERCIAL BUILDING ENERGY SOLUTIONS AND TECHNOLOGIES, “C-BEST” PROGRAM), implemented by ICF

Resources LLC, can support Orange Cove businesses in the community. See https://caenergyprograms.com/CBEST. Measures include:

| Measure Name |
|---|
| DHW Boiler, Commercial - Small (<200kBtuh), Tier 1 (>=0.87 UEF) |
| DHW Boiler, Commercial - Small (<200kBtuh), Tier 2 (>=0.92 UEF) |
| DHW Boiler, Commercial - Small (<200kBtuh), Tier 3 (>=0.96 UEF) |
| DHW Boiler, Commercial - Large (>=300kBtuh), Tier 1 (>=90%TE) |
| DHW Boiler, Commercial - Large (>=300kBtuh), Tier 2 (>=96%TE) |
| Storage Water Heater Large Tier 1 (>75 kBtuh and TE >= 90%) |
| Storage Water Heater Large Tier 2 (>75 kBtuh and TE >=96%) |
| SOLAR THERMAL WATER HEATING SYSTEM |
| Space Heating, Hot wtr boiler(300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F) NR |
| Tankless Water Heater <200 kBtu/hr (Small), Tier 2 (>=0.87 UEF) Deemed |
| Tankless Water Heater <200 kBtu/hr (Small), Tier 3 (>=0.92 UEF) |
| Tankless Water Heater <200 kBtu/hr (Small), Tier 4 (>=0.96 UEF) |
| Modulating Gas Valve for Com Dryers up to 200 lbs cap AOE |
| Steam Trap Replacement - Commercial/Other BRO-Op |
| Efficient infrared vertical (standalone) patio heater, gas |
| Efficient infrared horizontal (wall mount) patio heater, gas |
| Natural Gas Pool Heater >=84% TE, Indoor Pool |
| Natural Gas Pool Heater >=84% TE, Outdoor Pool |
| Natural Gas Pool Heater >=94% TE, Indoor Pool |
| Natural Gas Pool Heater >=94% TE, Outdoor Pool |
| High Efficiency Furnace, Commercial, 95% AFUE, With VSM |
| |
| No-Cost Equipment |
| Laminar Flow Restrictor - 1.0 GPM (Direct Install) |
| Faucet Aerator for Commercial Buildings, Public Lavatory - 0.5 GPM Flow Rate AOE |
| Faucet Aerator for Commercial Buildings, Private Lavatory - 0.5 GPM Flow Rate AOE |
| Pipe Insulation 1" Insulation <= 1" pipe Hot Water_Indoor AOE |
| Pipe Insulation 1" Insulation <= 1" pipe Hot Water_Outdoor AOE |

- **Agriculture Energy Efficiency (AgEE) Program** helps Orange Cove growers and producers incorporate energy-efficient equipment and technology at their facilities. See https://caenergyprograms.com/agee

- The AgEE program offers direct installation of several measures with no customer co-pay (no cost) exclusively to HTR (Hard to Reach) customers. Those measures are as follows:
  - Greenhouse
    - Greenhouse Heat Curtain
    - Greenhouse Infrared Film
  - Boilers and Water Heating
    - Process Boiler
    - Storage Water Heaters
  - Insulation
    - Tank Insulation
    - Fitting Insulation
    - Pipe Insulation
  - Aerators
    - Faucet Aerators
- The AgEE Program also offers rebates on several measures. Those measures with corresponding rebates are as follows:

| Measure Name | Measure Unit | Standard Incentive Amount |
|---|---|---|
| Greenhouse Heat Curtain (Hoop House) AOE | Area-ft2-BA | $0.48 |
| Greenhouse Heat Curtain (Ridge & Furrow) AOE | Area-ft2-BA | $0.48 |
| Greenhouse Heat Curtain (Hoop House) NC | Area-ft2-BA | $0.48 |
| Greenhouse Heat Curtain (Ridge & Furrow) NC | Area-ft2-BA | $0.48 |
| Greenhouse Infrared Film (minimum thickness of 6 mil) | Area-ft2 | $0.09 |
| Greenhouse Infrared Film (minimum thickness of 6 mil) NC | Area-ft2 | $0.09 |
| ProcessBoiler-Steam(>=83%CE) | Cap-kBTUh | $3.35 |
| ProcessBoiler-Water(>=85%CE) | Cap-kBTUh | $2.27 |
| ProcessBoiler-Water-Tier2(>=90%CE) | Cap-kBTUh | $8.25 |
| Tank Insulation- 1in. 120-170 degF. High usage. Indoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 120-170 degF. High usage. Outdoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 120-170 degF. Low usage. Indoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 120-170 degF. Low usage. Outdoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 170-200 degF. High usage. Indoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 170-200 degF. High usage. Outdoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 170-200 degF. Low usage. Indoor | Area-ft2 | $1.68 |
| Tank Insulation- 1in. 170-200 degF. Low usage. Outdoor | Area-ft2 | $1.68 |
| Tank Insulation- 2in. 120-170 degF. High usage. Indoor | Area-ft2 | $2.19 |
| Tank Insulation- 2in. 120-170 degF. High usage. Outdoor | Area-ft2 | $2.19 |
| Tank Insulation- 2in. 170-200 degF. High usage. Indoor | Area-ft2 | $2.19 |
| Tank Insulation- 2in. 170-200 degF. High usage. Outdoor | Area-ft2 | $2.19 |
| Commercial Storage Heaters, 40 gallons,0.64 UEF | Cap-kBTUh | $20.77 |
| Commercial Storage Heaters, 40 gallons,0.68 UEF | Cap-kBTUh | $22.31 |
| Commercial Faucet, Private Lavatory Aerator, 0.5 gpm | Each | $2.69 |
| Commercial Faucet, Private Lavatory Aerator, 1.0 gpm | Each | $2.69 |
| Commercial Faucet, Public Lavatory Aerator, 0.5 gpm | Each | $2.69 |
| Fitting Insulation <= 1in. pipe Hot Water_Indoor | Each | $6.45 |
| Fitting Insulation <= 1in. pipe Hot Water_Outdoor | Each | $6.45 |
| Fitting Insulation <= 1in. pipe <=15 psig steam_Indoor | Each | $13.35 |
| Fitting Insulation <= 1in. pipe <=15 psig steam_Outdoor | Each | $13.35 |
| Fitting Insulation <= 1in. pipe >15 psig steam_Indoor | Each | $13.35 |
| Fitting Insulation <= 1in. pipe >15 psig steam_Outdoor | Each | $13.35 |
| Fitting Insulation 1in. < pipe <= 4in. Hot Water_Indoor | Each | $11.67 |
| Fitting Insulation 1in. < pipe <= 4in. Hot Water_Outdoor | Each | $11.67 |
| Fitting Insulation 1in. < pipe <= 4in. <=15 psig steam_Indoor | Each | $25.83 |
| Fitting Insulation 1in. < pipe <= 4in. <=15 psig steam_Outdoor | Each | $25.83 |
| Fitting Insulation 1in. < pipe <= 4in. >15 psig steam_Indoor | Each | $25.83 |
| Fitting Insulation 1in. < pipe <= 4in. >15 psig steam_Outdoor | Each | $25.83 |
| Fitting Insulation > 4in. pipe Hot Water_Indoor | Each | $15.88 |

- **Large Commercial Program** (LCP) is an energy efficiency program that offers financial incentives for the implementation and verification of natural gas-saving technologies. The program supports a comprehensive list of upgrades and provides technical assistance and financing options. Measures offered by the LCP mirror that of the Energy Efficiency Rebates for Business Program and are as follows:
    - Tankless Water Heater

- Commercial Hot Water Boiler
- Commercial Griddle
- Convection Rack Oven
- Natural Patio Heater
- Solar Thermal Collector

- **Public Direct Install Program (PDIP)** is available to small and medium public facilities, local and federal government buildings, and K-12 educational facilities. See https://www.synergycompanies.com/utility-program/public-direct-install-program.
  - PDIP No-Cost Direct Install Measures are as follows:

| | | |
|---|---|---|
| 1-inch thick Tank insulation - Medium Temp Low Usage Indoor | No-Cost Direct Install | Area-ft2 |
| 2-inch-thick Tank insulation - Medium Temp High Usage Indoor | No-Cost Direct Install | Area-ft2 |
| 2-inch-thick Tank insulation - Medium Temp High Usage Outdoor | No-Cost Direct Install | Area-ft2 |
| Com Showerhead FCV: 1.50 GPM | No-Cost Direct Install | Each |
| Commercial Showerheads, 1.5 gpm | No-Cost Direct Install | Fixture |
| Low-Flow Pre-Rinse Spray Valves, <0.75 gpm | No-Cost Direct Install | Each |
| Low-Flow Pre-Rinse Spray Valves, 0.75-1.07 gpm | No-Cost Direct Install | Each |
| Pipe Insulation - Com Hot Water >= 1 pipe Outdoor | No-Cost Direct Install | Len-ft |
| Public Lavatory Control Valves for Commercial Buildings 0.5 GPM* | No-Cost Direct Install | Each |
| Public Lavatory Faucet Aerator for Commercial Buildings 0.5 GPM* | No-Cost Direct Install | Each |
| Small Commercial Fitting Insulation 1 inch < pipe <= 4-inch Hot Water Outdoor | No-Cost Direct Install | Each |

- PDIP direct installation measures offered at a low co-pay are as follows:

| | | |
|---|---|---|
| Commercial Inst. Heaters, <=200 kBtu/hr, 0.87 UEF | Co-pay Direct Install | Cap-kBTUh |
| Commercial Inst. Heaters, >200 kBtu/hr, 80% TE | Co-pay Direct Install | Cap-kBTUh |
| Commercial Inst. Heaters, >200 kBtu/hr, 90% TE | Co-pay Direct Install | Cap-kBTUh |
| Commercial Stor. Heaters, <=75 kBtu/hr, 40G-HD-0.68 UEF (Epr, Ese, Ofs) | Co-pay Direct Install | Cap-kBTUh |
| Commercial Stor. Heaters, <=75 kBtu/hr, 40G-MD-0.64 UEF (Epr, Ese, Ofs) | Co-pay Direct Install | Cap-kBTUh |
| Commercial Stor. Heaters, <=75 kBtu/hr, 50G-HD-0.68 UEF (Epr, Ese, Ofs) | Co-pay Direct Install | Cap-kBTUh |
| Commercial Stor. Heaters, <=75 kBtu/hr, 50G-MD-0.64 UEF (Epr, Ese, Ofs) | Co-pay Direct Install | Cap-kBTUh |
| Furnace Commercial (Epr, Ese, Ofs) | Co-pay Direct Install | Cap-kBTUh |

c. SoCalGas objects to this request pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which provides that parties may obtain discovery "that is relevant to the subject matter involved in the pending proceeding, if the matter either is itself admissible in evidence or appears reasonably calculated to lead to the discovery of admissible evidence." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. No.

d. SoCalGas objects to this request pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which provides that parties may obtain discovery "that is relevant to the subject matter involved in the pending proceeding, if the matter either is itself admissible in evidence or appears reasonably calculated to lead to the discovery of admissible evidence." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. No.

e. SoCalGas objects to this request pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which provides that parties may obtain discovery "that is relevant to the subject matter involved in the pending proceeding, if the matter either is itself admissible in evidence or appears reasonably calculated to lead to the discovery of admissible evidence." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. No.

f. SoCalGas objects to this request pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which provides that parties may obtain discovery "that is relevant to the subject matter involved in the pending proceeding, if the matter either is itself admissible in evidence or appears reasonably calculated to lead to the discovery of admissible evidence." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. No. PG&E, not SoCalGas, is the electric utility serving the City of Orange Cove.

**QUESTION 2:**

Please refer to page 4 of SoCalGas's Response to Appendix B Questions, which states that the Canadian Standards Association Group "confirms that existing product certifications remain valid with gas blends of up to 5% hydrogen," citing a 2022

statement of position. Does this position apply to appliances that were certified prior to 2022? If yes, what is the earliest model year or date of manufacture for which the Canadian Standards Association's product certifications apply to appliances operating on hydrogen blends up to 5%?

**RESPONSE 2:**

CSA's position is based on their assessment that small hydrogen blends, up to 5%, do not significantly alter the combustion characteristics or safety profiles of appliances originally certified for natural gas. Therefore, as long as the appliance was certified under CSA standards and the blend remains within the 5% threshold, the certification is considered valid.

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**QUESTION 3:**

Please refer to page 8, footnote 15, and accompanying text of SoCalGas's Response to Appendix B Questions. Has SoCalGas considered offering any compensation to customers whose property is damaged as a result of exposure to a 5% hydrogen blend? If not, why not?

**RESPONSE 3:**

Please see CAL ADVOCATES-SCG-A2209006-002 (DR-002) Question 6.b.

SoCalGas is not aware of any appliances that cannot function with 5% hydrogen blend. Moreover, research confirms that common appliances can operate safely with blends up to 20% hydrogen while the Orange Cove demonstration is planned for only 0.1-5% blends. Furthermore, CSA Group, one of the leading organizations in North America for testing, inspecting, and certifying appliances, has recognized product certification remains valid with natural gas blends of up to 5% hydrogen.

Issues with gas appliances that arise during the demonstration will be addressed and documented on a case-by-case basis, in accordance with SoCalGas's existing processes and procedures. If equipment malfunction occurs during the demonstration, SoCalGas may opt to send the equipment to a lab for root cause analysis, though research indicates this scenario is unlikely. In the event of equipment replacement, SoCalGas will coordinate awareness and availability of existing SoCalGas Customer Assistance Programs.

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**QUESTION 4:**

Please refer to page 9 of SoCalGas's Response to Appendix B Questions, which states that "SoCalGas is not aware of any appliances that cannot function with 5% hydrogen blend."

a. Is there any gas-fueled equipment containing a combustion chamber, such as gas-fueled electric generators, connected to SoCalGas's gas distribution system in Orange Cove?

b. Are there any fueling stations for vehicles that operate on methane in Orange Cove?

**RESPONSE 4:**

a. SoCalGas has not performed an in-depth inventory of end-uses in Orange Cove. However, SoCalGas notes that a lot of gas-fueled equipment contains a combustion chamber beyond just electric generation equipment.

b. SoCalGas objects to this request on the grounds it is unintelligible. A fueling station for vehicles is not an "appliance." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. SoCalGas understands there to be a natural gas fueling station that is no longer in use that is sited in the community.

**QUESTION 5:**

Please refer to SoCalGas's Supplemental Response to Data Request SC-SCG-04, Q. 20 (July 16, 2025).

a. Please provide all documentation of SoCalGas's evaluation of the pipeline areas referenced in this response.
b. Please provide all emails between SoCalGas and the municipalities identified in this response regarding potential siting of the Open System Project.

**RESPONSE 5:**

a. SoCalGas objects to this request on the grounds it is overly broad and unduly burdensome pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which allows for discovery of matters that are relevant to the proceeding and could be admitted as evidence, or are reasonably calculated to lead to the discovery of admissible evidence, "unless the burden, expense, or intrusiveness of that discovery clearly outweighs the likelihood that the information sought will lead to the discovery of admissible evidence." SoCalGas recommends a more narrowly tailored request to overcome the objection. A narrative response to a similar question can be found at: Cal Advocates-SCG-A2209006-002 (DR-001) Orange Cove.[1]
b. SoCalGas objects to this request on the grounds it is overly broad and unduly burdensome pursuant to Rule 10.1 of the Commission's Rules of Practice and Procedure, which allows for discovery of matters that are relevant to the proceeding and could be admitted as evidence, or are reasonably calculated to lead to the discovery of admissible evidence, "unless the burden, expense, or intrusiveness of that discovery clearly outweighs the likelihood that the information sought will lead to the discovery of admissible evidence." Subject to and without waiving the foregoing objection, SoCalGas responds as follows. None.

[1] See Data Request Cal-Advocates-SCG-A.2209006-002 (DR-001) Orange Cove, at 1.e; available at https://www.socalgas.com/regulatory/amended-hydrogen-blending-demonstration-application

**QUESTION 6:**

Please refer to page 12 of SoCalGas's Response to Appendix B Questions, which states: "If before blending commences certain appliances are not working properly, it would not be prudent to separately evaluate those appliances with hydrogen because the appliances are already known to not be in working order."

a. Does SoCalGas agree that some customers on its system operate gas appliances that are not working properly? If not, why not?
b. Does SoCalGas plan to do any analysis of the impact of hydrogen blending on gas appliances that are not working properly? If yes, please describe such plans in detail.
c. If SoCalGas does not test the impact of hydrogen blending on gas appliances that are not working properly, how does it expect to understand the impact of a hydrogen blend on such appliances if the Commission approves hydrogen blending at scale?

**RESPONSE 6:**

a. SoCalGas objects to this request on the grounds it calls for speculation and is compound and argumentative. SoCalGas further objects to this request on the grounds it is overly broad and not relevant, asking about the entirety of SoCalGas's "system." Subject to and without waiving the foregoing objections, SoCalGas responds as follows.

   SoCalGas has existing policies and procedures to safely address appliances that are not working properly. Appliances found to be unsafe will be red-tagged and disconnected, regardless of the presence of a hydrogen blend.[2]

b. As outlined in response to Appendix B of the Assigned Commissioner's Scoping Memo, "It would not be prudent nor cost effective to require SoCalGas to duplicate in a laboratory any condition problems found in gas appliances and test the blend in a separate facility before the project begins".[3] If before blending commences an appliance is not working properly, it would not be prudent to separately evaluate that appliance with hydrogen because it is known to not be in working order.[4]

c. SoCalGas objects to this request on the grounds it is argumentative and unintelligible, particularly to the extent it asks about testing on "appliances that are not working properly." Subject to and without waiving the foregoing objections, SoCalGas responds as follows.

[2] Response of SoCalGas to Appendix B of Assigned Commissioner's Scoping Memo and Ruling, at 10
[3] Response of SoCalGas to Appendix B of Assigned Commissioner's Scoping Memo and Ruling, at 11
[4] Id. at 12

As outlined above and in Appendix B, it would not be prudent to separately evaluate appliances that are not working properly, because they are already known to not be in working order.[5]

[5] Id.

**SOUTHERN CALIFORNIA GAS COMPANY (SOCALGAS)**
**SIERRA CLUB DATA REQUEST 8 (SIERRA CLUB DR-08)**
**HYDROGEN BLENDING DEMONSTRATION APPLICATION (A.22-09-006)**
**DATE REQUESTED: August 14, 2025**
**RESPONSE DUE: August 28, 2025**

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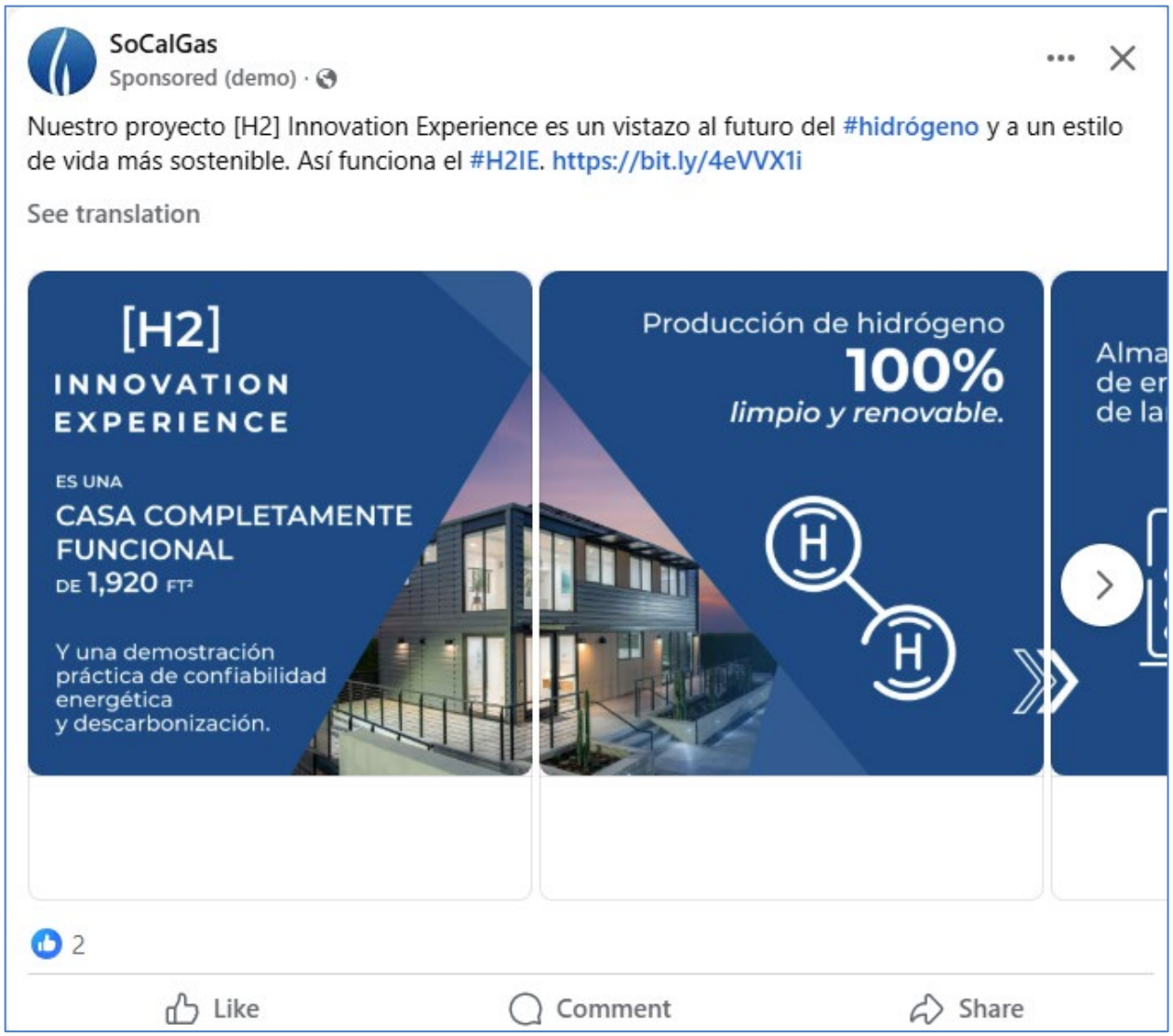
**QUESTION 7:**

Please refer to SoCalGas's Response to Appendix B Questions, page 18, which references "[t]argeted social media posts in English and Spanish." Please provide copies of all targeted social media posts referenced in this statement and identify what social media platforms they appeared on and when.

**RESPONSE 7:**

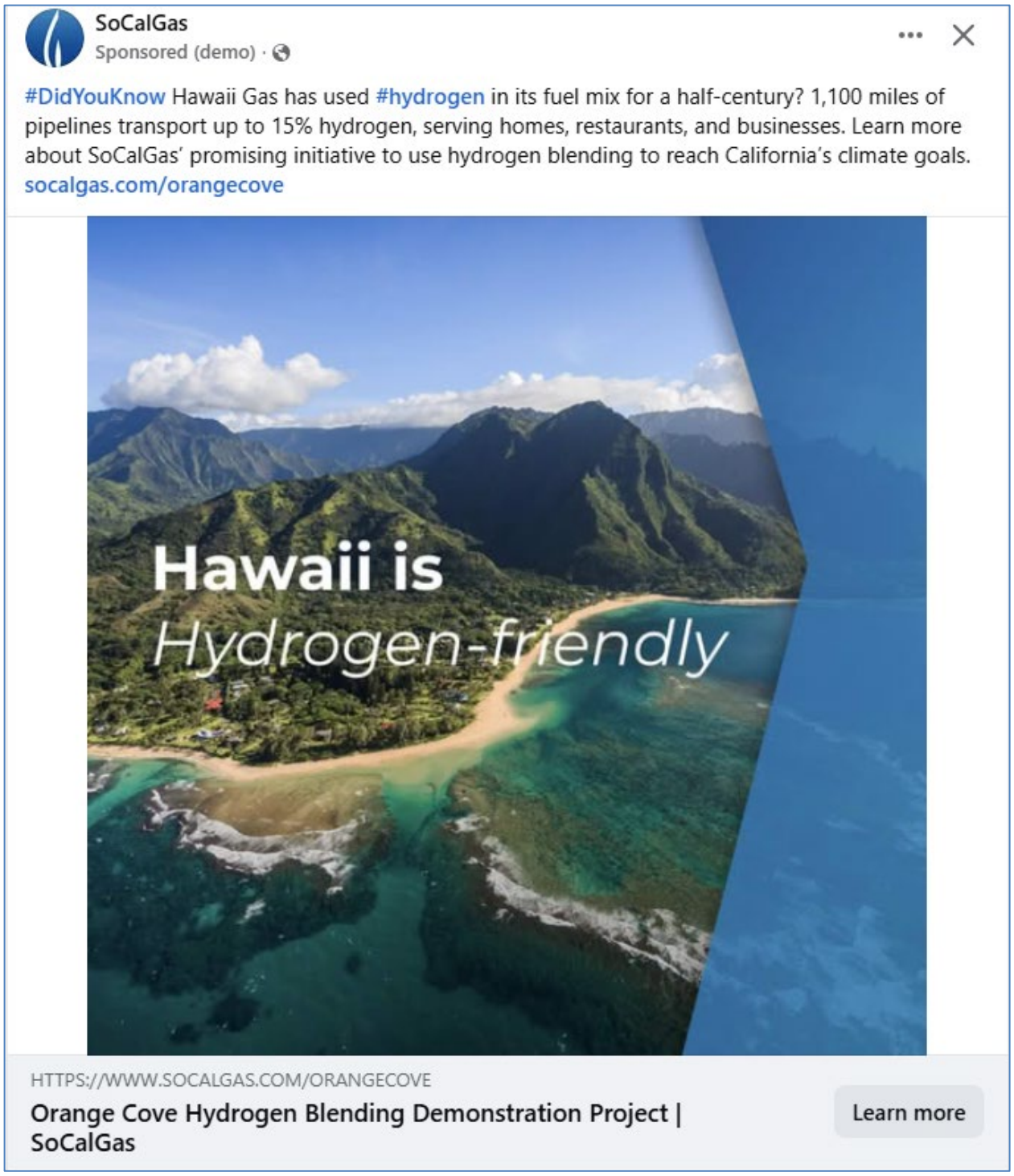
SoCalGas provides the following social media posts as referenced in our statement in Appendix B:

**12/2/24 – Facebook**




https://www.facebook.com/100064858775658/posts/1039662171539066/

**9/13/24 – Facebook**

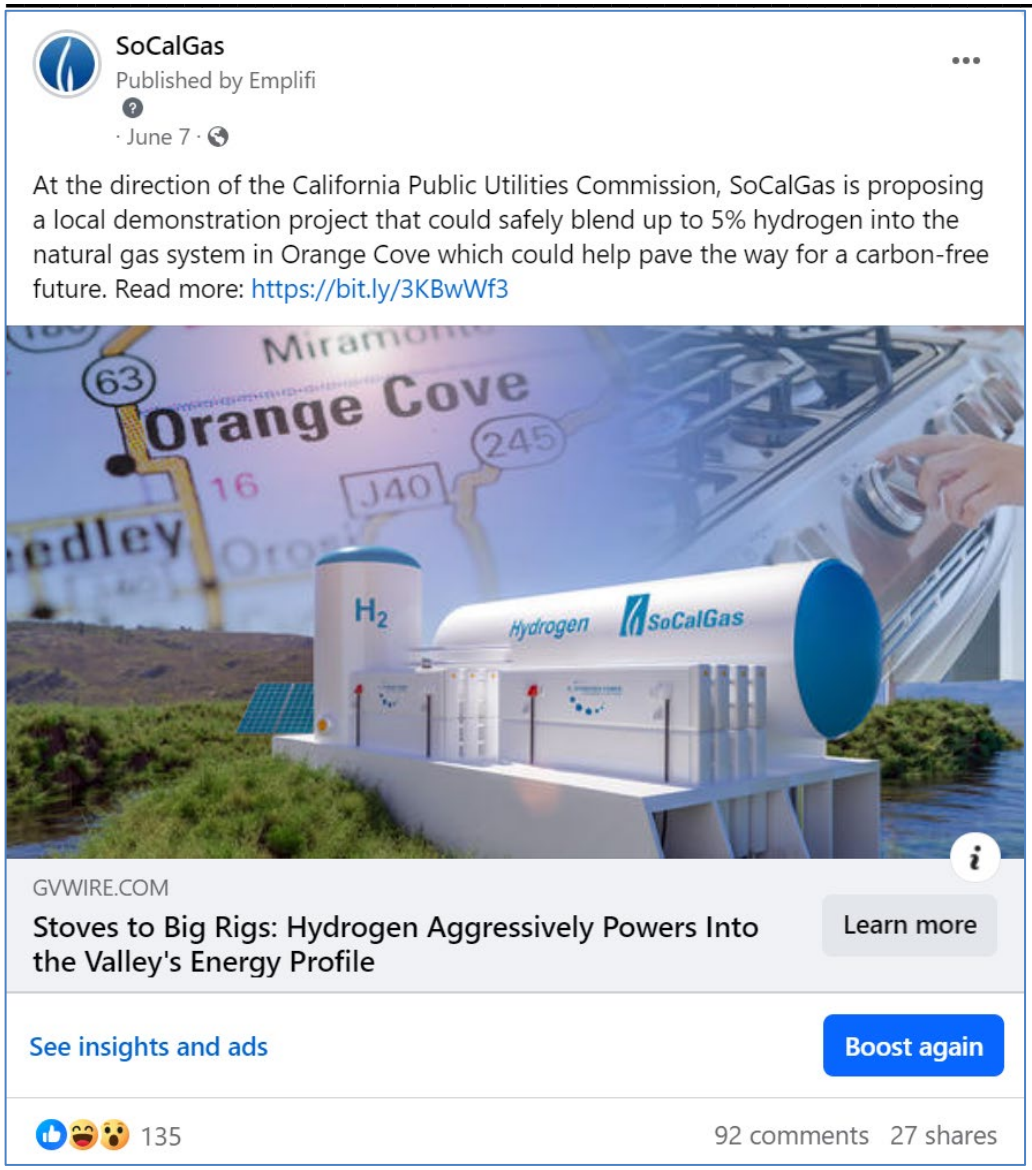



https://www.facebook.com/100064858775658/posts/981312994040651/

**9/13/24 – Facebook**


https://www.facebook.com/100064858775658/posts/979070434264907/

**6/7/24 – Facebook**

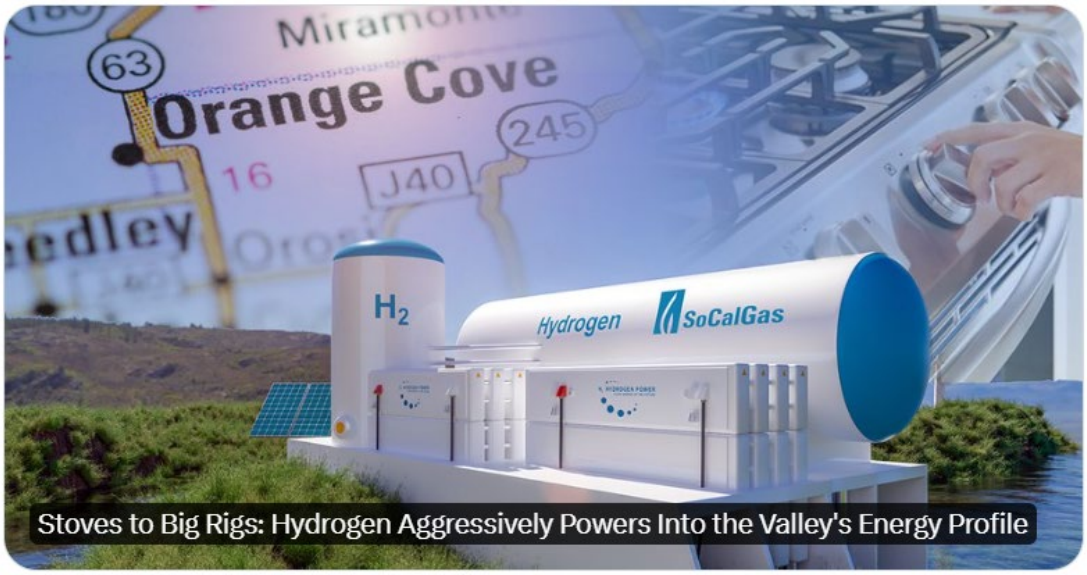



https://www.facebook.com/SoCalGas/posts/pfbid0h9sbwiR6cW8727GfuNXwNHHjGfWVSNmrpXmddVWxF3pLTRwWVtbCPFpnaM1zmU2fl

**6/7/24 – Twitter/X**

**SoCalGas** @socalgas · Jun 7 Promote

At the direction of the California Public Utilities Commission, SoCalGas is proposing a local demonstration project that could safely blend up to 5% hydrogen into the natural gas system in Orange Cove which could help pave the way for a carbon-free future.




From gvwire.com

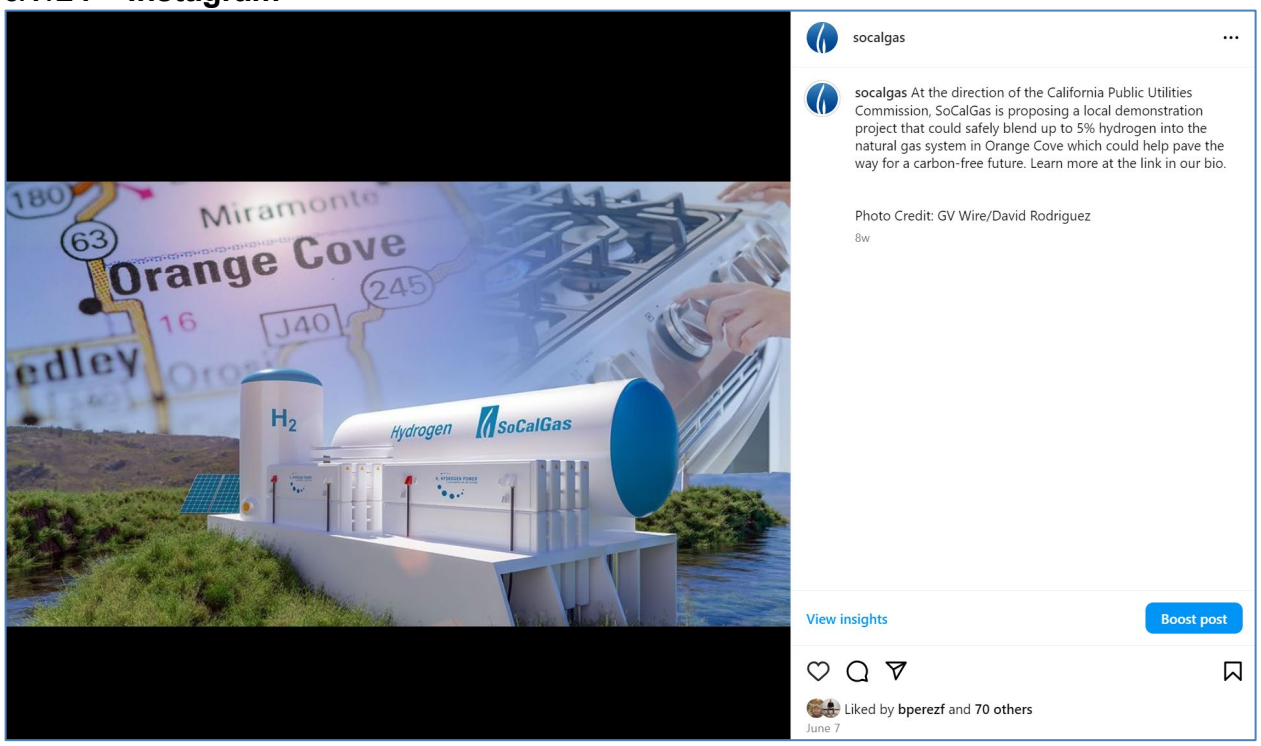
4 10 389

https://x.com/socalgas/status/1799109146182336731

**6/7/24 – LinkedIn**

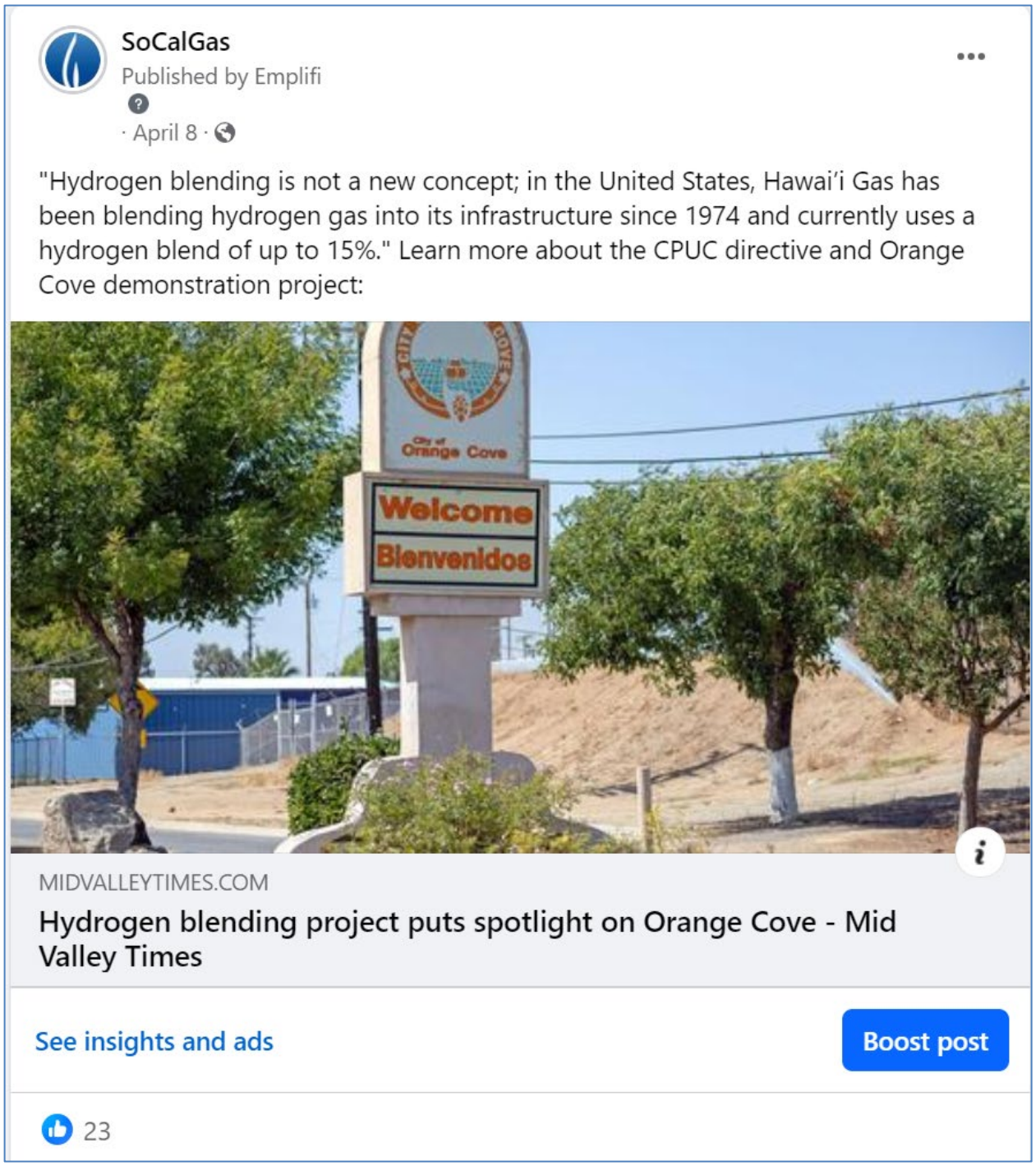

https://www.linkedin.com/feed/update/urn:li:activity:7204874859078680576

**6/7/24 – Instagram**




https://www.instagram.com/p/C7658sWxaMz/

**4/8/24 – Facebook**

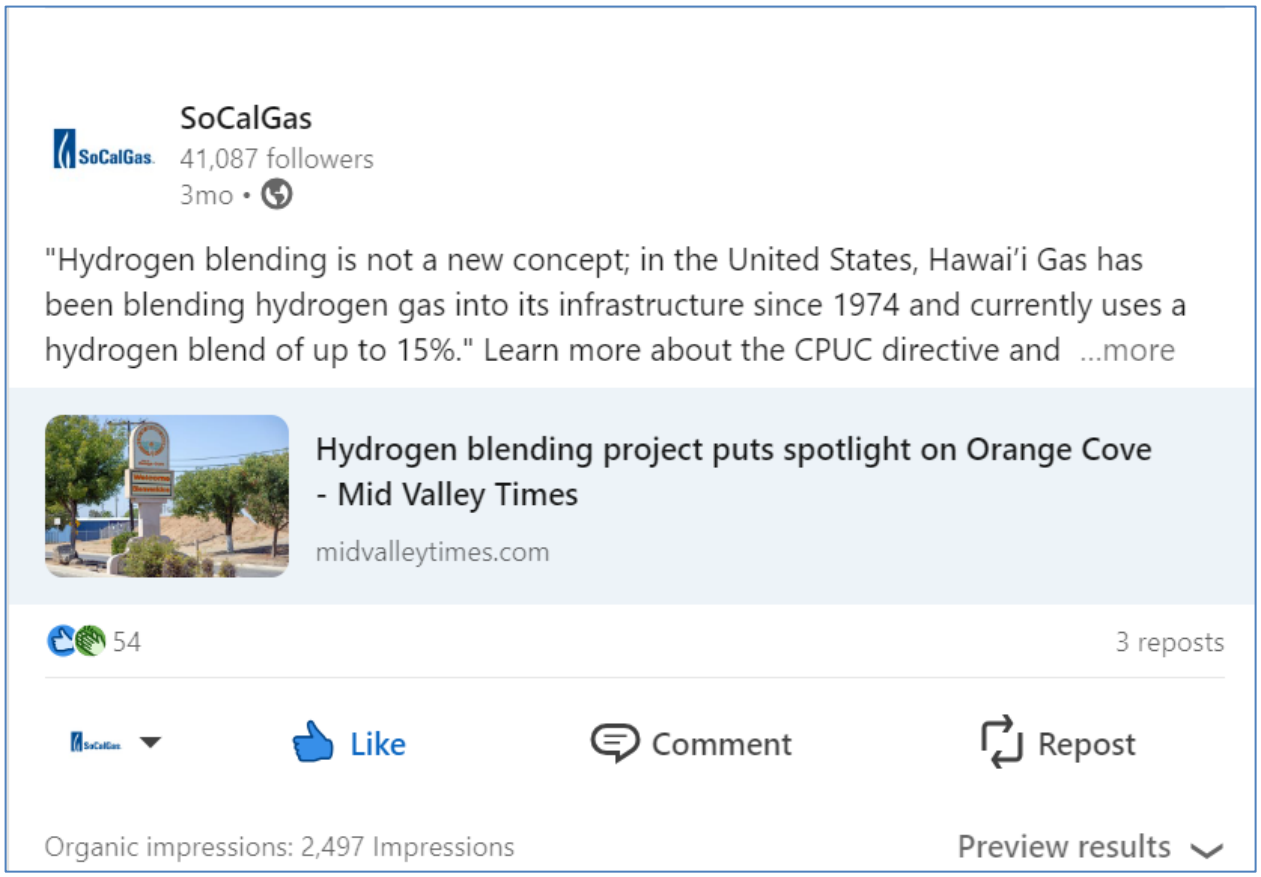



https://www.facebook.com/SoCalGas/posts/pfbid09rURamTUKeyC7oi9vEHqVNNPCzqzevzMQZ5ABzk6JZJ8yvk4YdATgogPZc6YXqgWl

**4/8/24 – Twitter/X**


https://x.com/socalgas/status/1777416281563746533

**4/8/24 – LinkedIn**

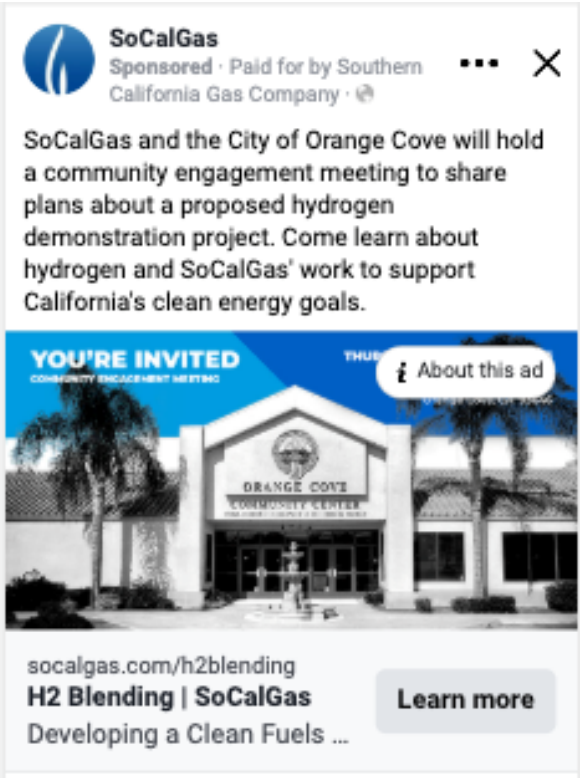



https://www.linkedin.com/feed/update/urn:li:activity:7183181895801745416

**4/8/24 – Instagram**


https://www.instagram.com/p/C5g1VpcRTvl/

**11/6/23 to 11/9/23 - English and Spanish Orange Cove FB posts**

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**QUESTION 8:**

Please refer to SoCalGas's Response to Appendix B Questions, page 20, which states that "the project will generate operational experience related to system performance, maintenance, and emergency response protocols."

What operational experience related to emergency response protocols does SoCalGas anticipate would be generated from the project outside of an emergency scenario?

**RESPONSE 8:**

SoCalGas objects to this request on the grounds it calls for speculation. Subject to and without waiving the foregoing objection, SoCalGas responds as follows.

Areas of operational experience SoCalGas intends to gather from the Orange Cove project include but are not limited to: training, leak surveying, gas handling, customer service protocols, service operations and customer interactions, and emergency response plans.[6] SoCalGas will review existing operational and emergency response protocols and determine if existing protocols warrant further updates or enhancements. SoCalGas will develop a detailed emergency response plan during detailed engineering design phases, which would occur during Phase 1 after application approval.[7]

[6] See Chapter 2, Prepared Direct Testimony of Blaine Waymire on Behalf of Southern California Gas company (SoCalGas's Hydrogen Blending Demonstration- Open system Project) at 11
[7] See Cal Advocates-SCG-A2209006-002 (DR-002) Orange Cove Supplemental, Question 3.d; available at https://www.socalgas.com/regulatory/amended-hydrogen-blending-demonstration-application