



Strategic Energy Planning Project

**Santa Ynez Chumash
Environmental Office**

**Cherlyn Seruto
Energy Specialist**

**Santa Ynez Band of Chumash Indians
November 13, 2012**

About Us . . .



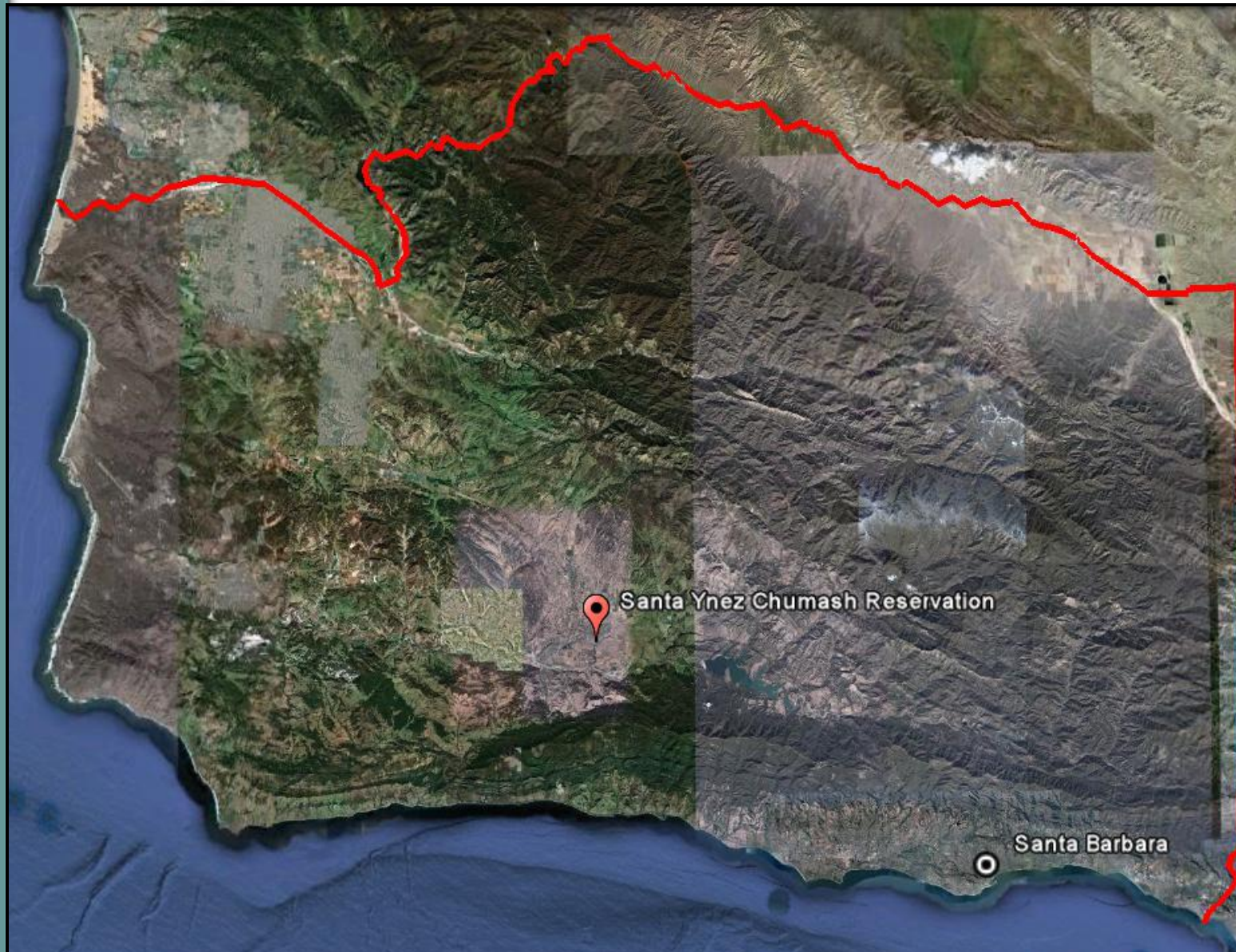


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BAND OF
CHUMASH
INDIANS



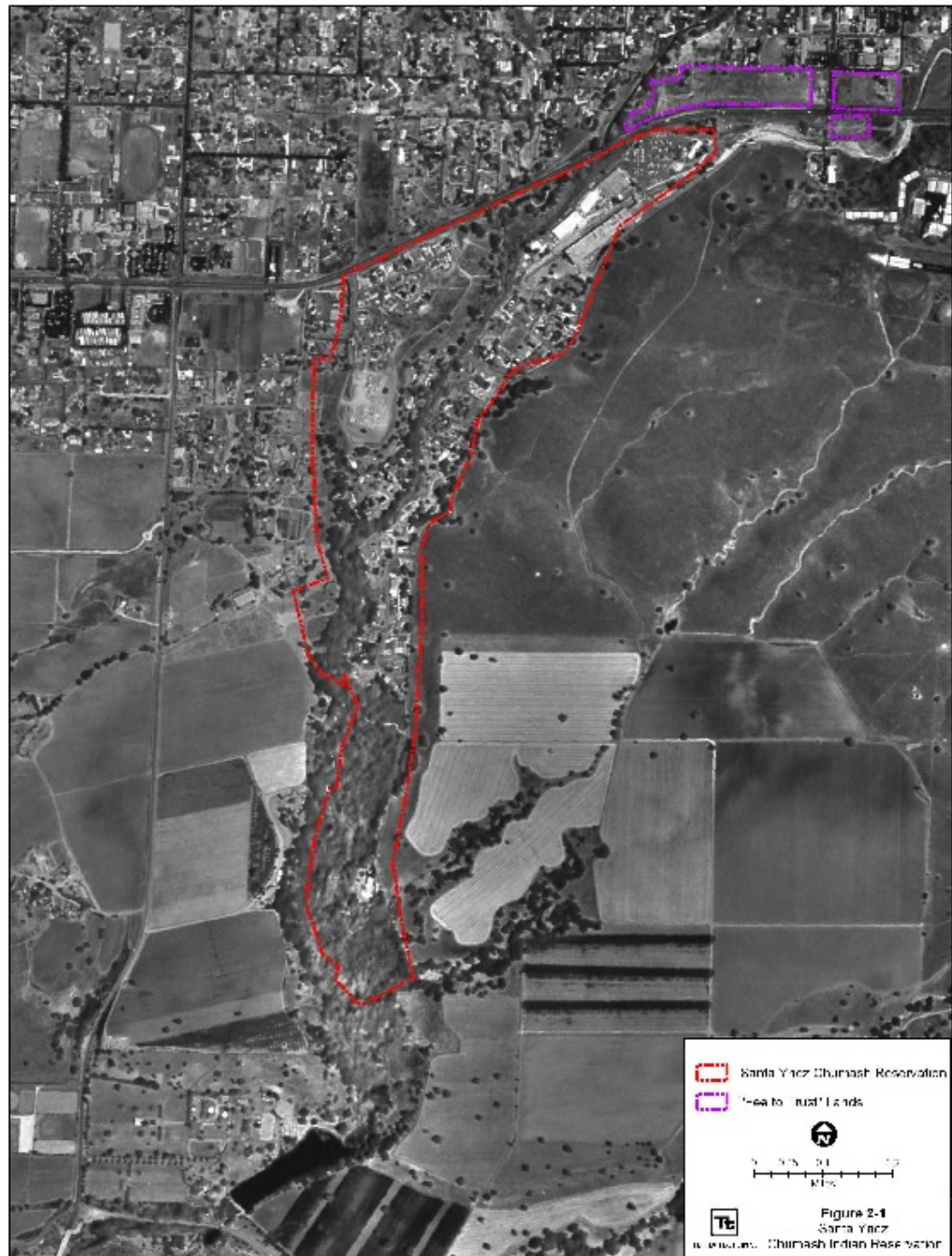


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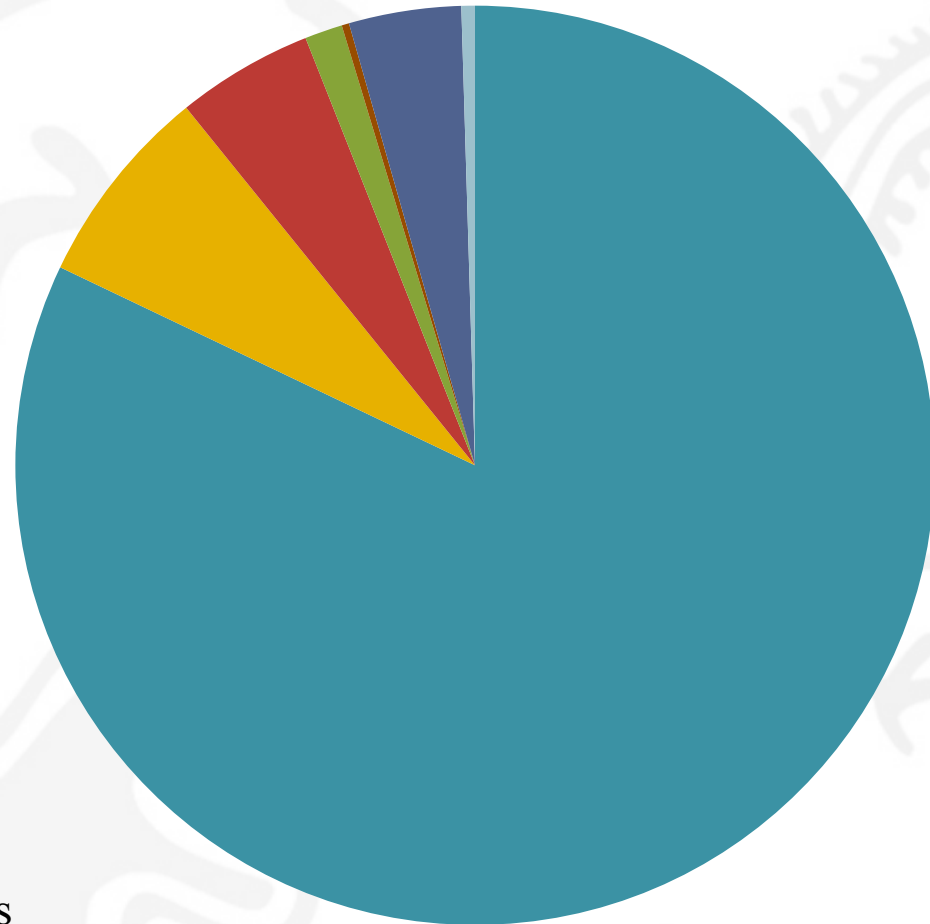
Project Objectives

A scenic landscape at sunset. The sun is low on the horizon, casting a warm glow over a range of mountains. In the distance, a lake is visible. The sky is a mix of blue and orange, with a single white contrail streaking across it. The foreground is filled with dark, silhouetted trees and bushes.

Step 1: Know Our Energy Use



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- Casino
- Hotel
- Residences
- Tribal Hall and Health Clinic
- Employee Resource Center
- Restaurant
- Gas Station

Step 2: Envision our Energy Future



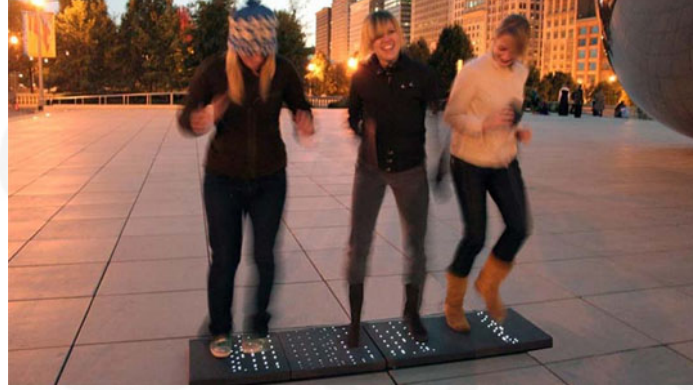
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Step 3: Assess our Options





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Step 4: Build in-house capacity



PROGRESS TO DATE





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PROGRESS TO DATE

Step 1: Know our Energy Use



Data tracking tools keep us on track



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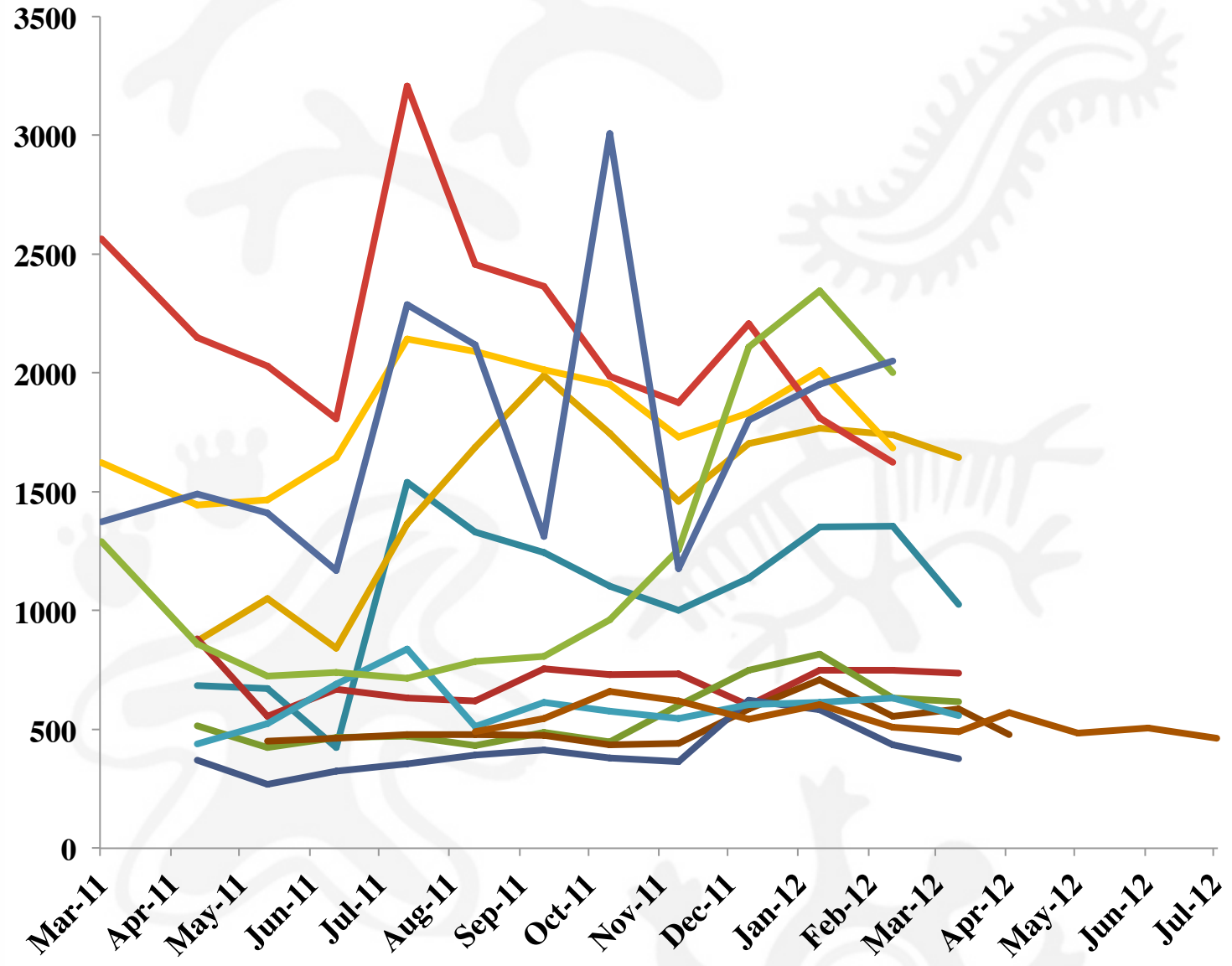


Progress:
DATA
TRACKING



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Residential Electricity (kWh)



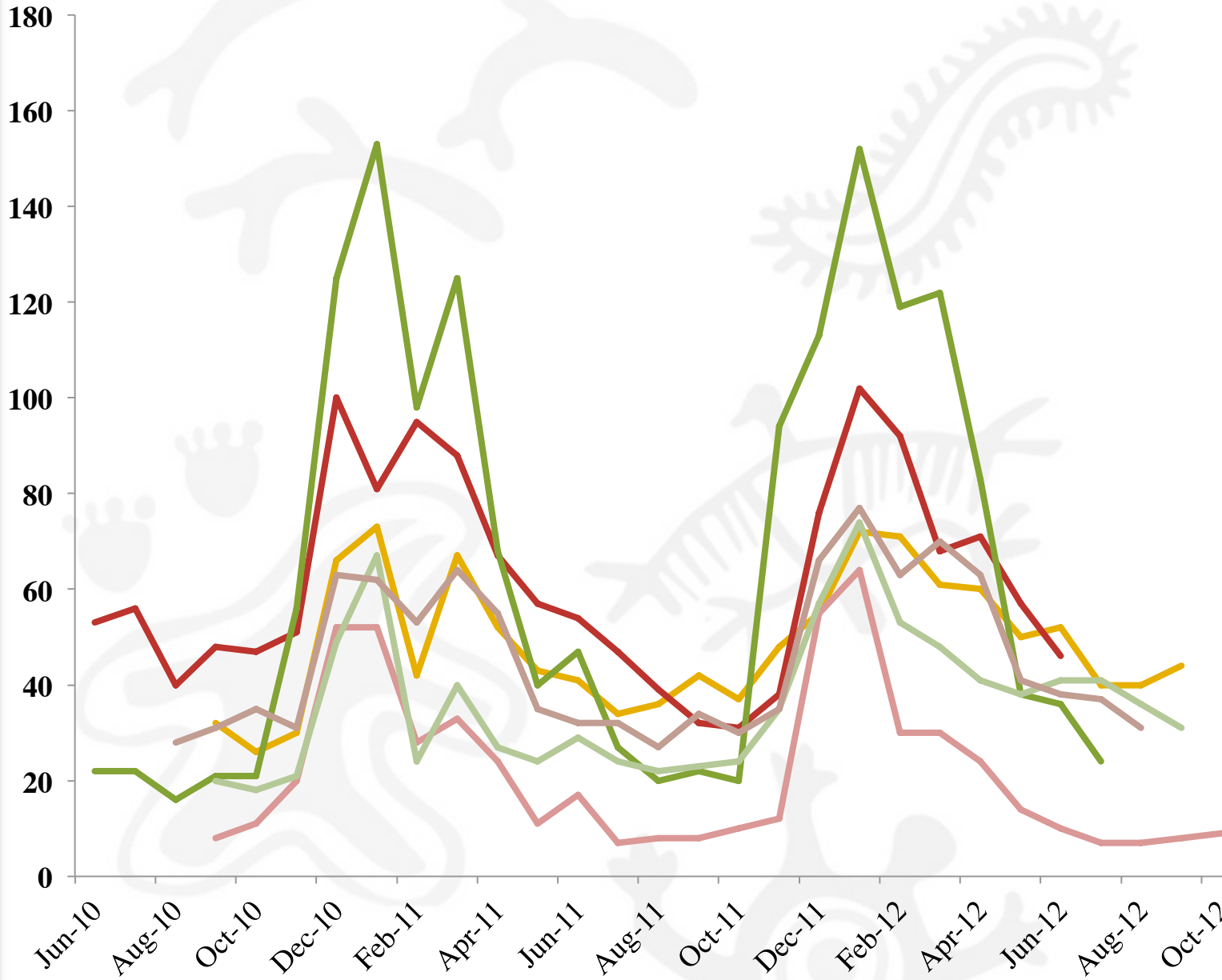
Progress:
ENERGY
BASELINE



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Progress:
ENERGY
BASELINE

Residential Gas (therms)





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PROGRESS TO DATE

Step 2: Envision Energy Future

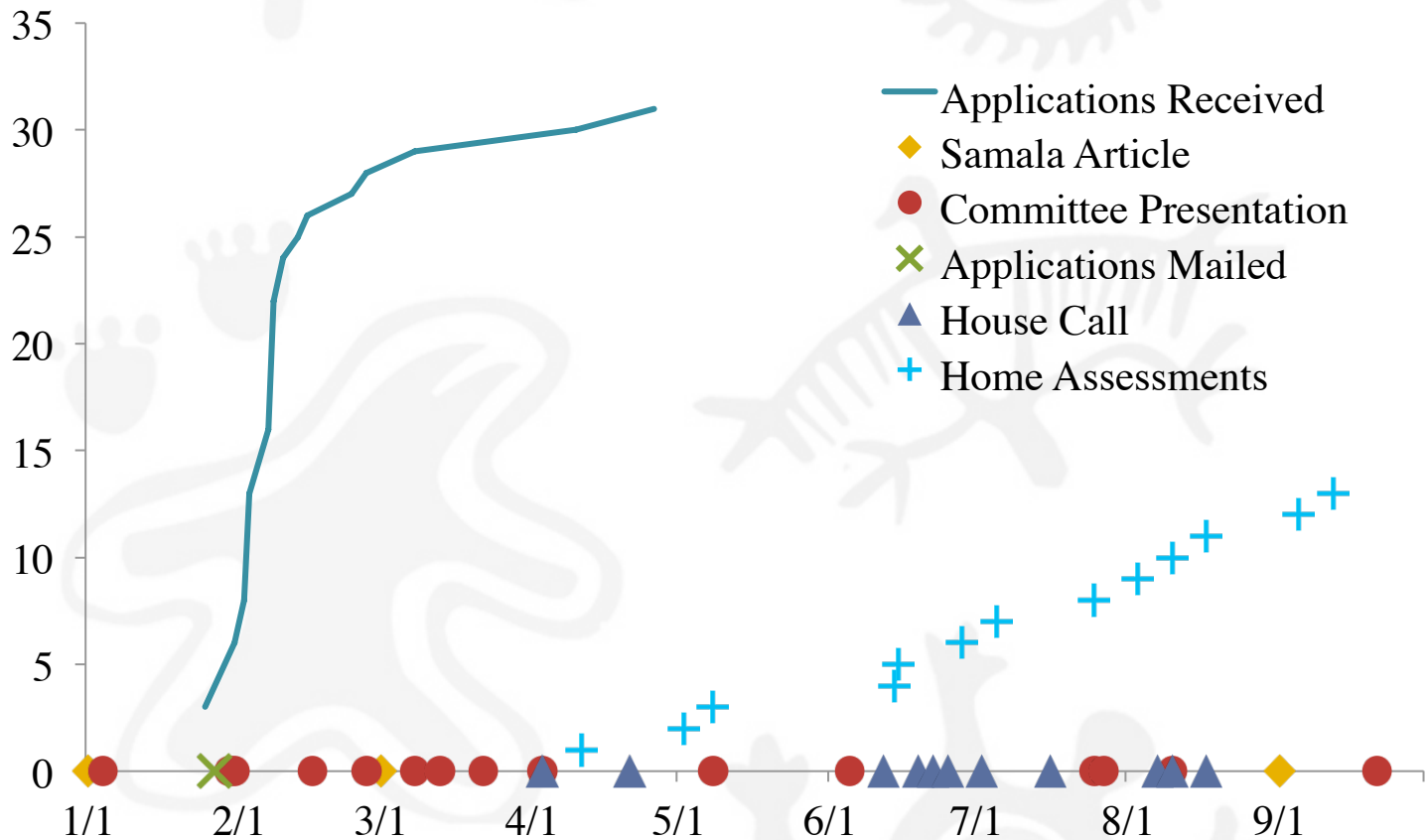


Continually Involving Community Members to Develop and Refine Energy Goals



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Education and Outreach Activities Summary



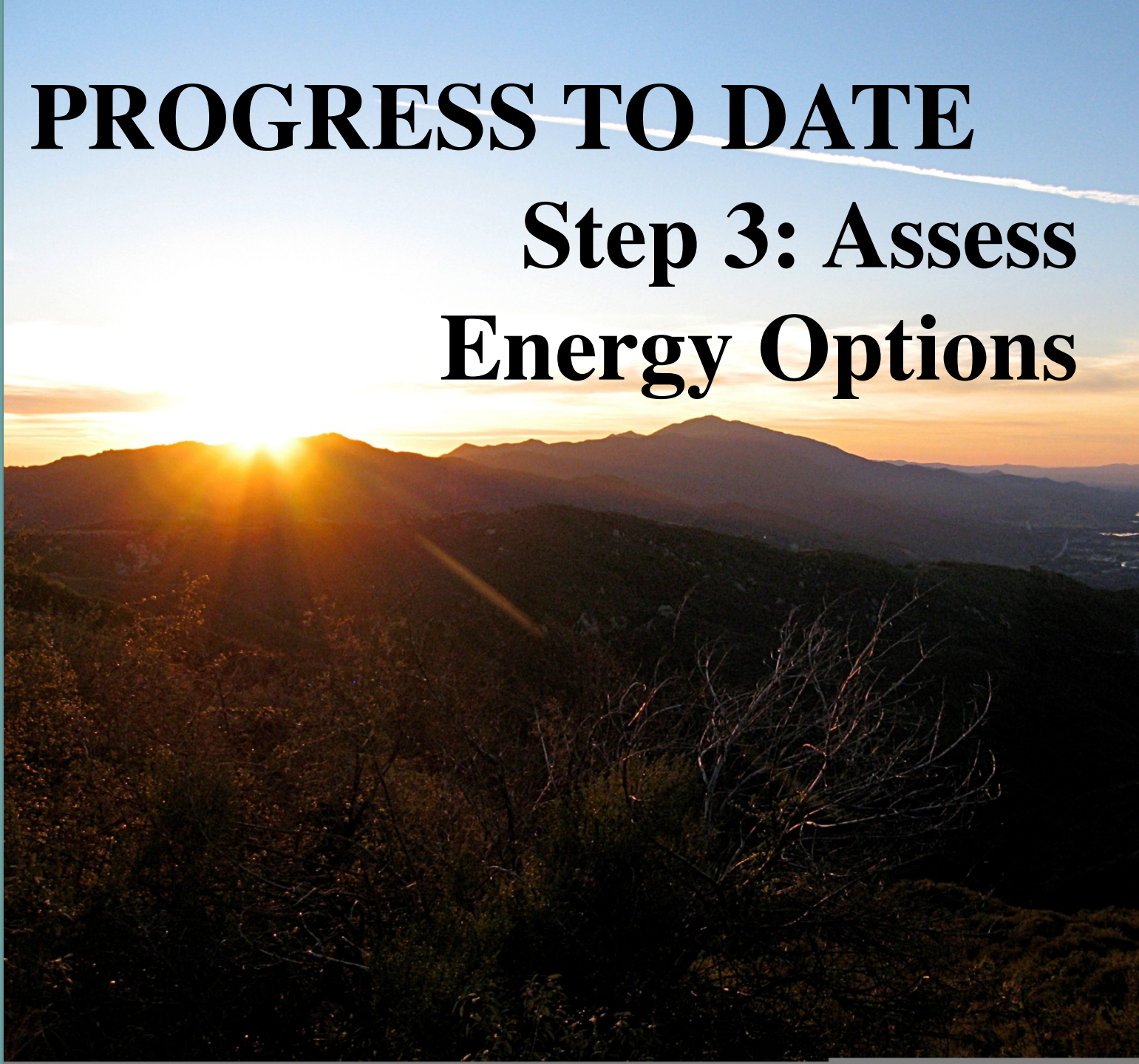
Progress:
TRIBAL
ENERGY
GOALS



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PROGRESS TO DATE

Step 3: Assess Energy Options







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- **Whole Building Energy Management**
 - **PG&E Integrated Energy Audit**
 - **Gas and Electricity Metering**
 - **HVAC Economizer**
 - **Variable Speed Drives**
 - **Johnson Controls Software**
- **Solar Thermal**
- **LED Lighting**
 - **Annual Savings:**
 - **585 MWh**
 - **\$58,000**



Kree DR-1000



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Keeping Abreast of Applicable Energy Options



Progress:
ENERGY
OPTIONS



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PROGRESS TO DATE

Step 4: Capacity Building



Home Performance Assessments



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A man with a grey beard and sunglasses, wearing a blue jacket and khaki shorts, holding a clipboard and a water bottle.

A man wearing a white baseball cap, sunglasses, and a black t-shirt with grey sleeves.

A man wearing a tan Carhart work jacket over a light-colored shirt and grey trousers.

An older man with white hair and glasses, wearing a green button-down shirt and blue jeans.

A man with a shaved head wearing a dark jacket over a blue t-shirt and blue jeans.

A man wearing a dark baseball cap, sunglasses, and a green and black jacket over a black t-shirt and light blue jeans.





CUSTOMER SATISFACTION
IS OUR BUSINESS



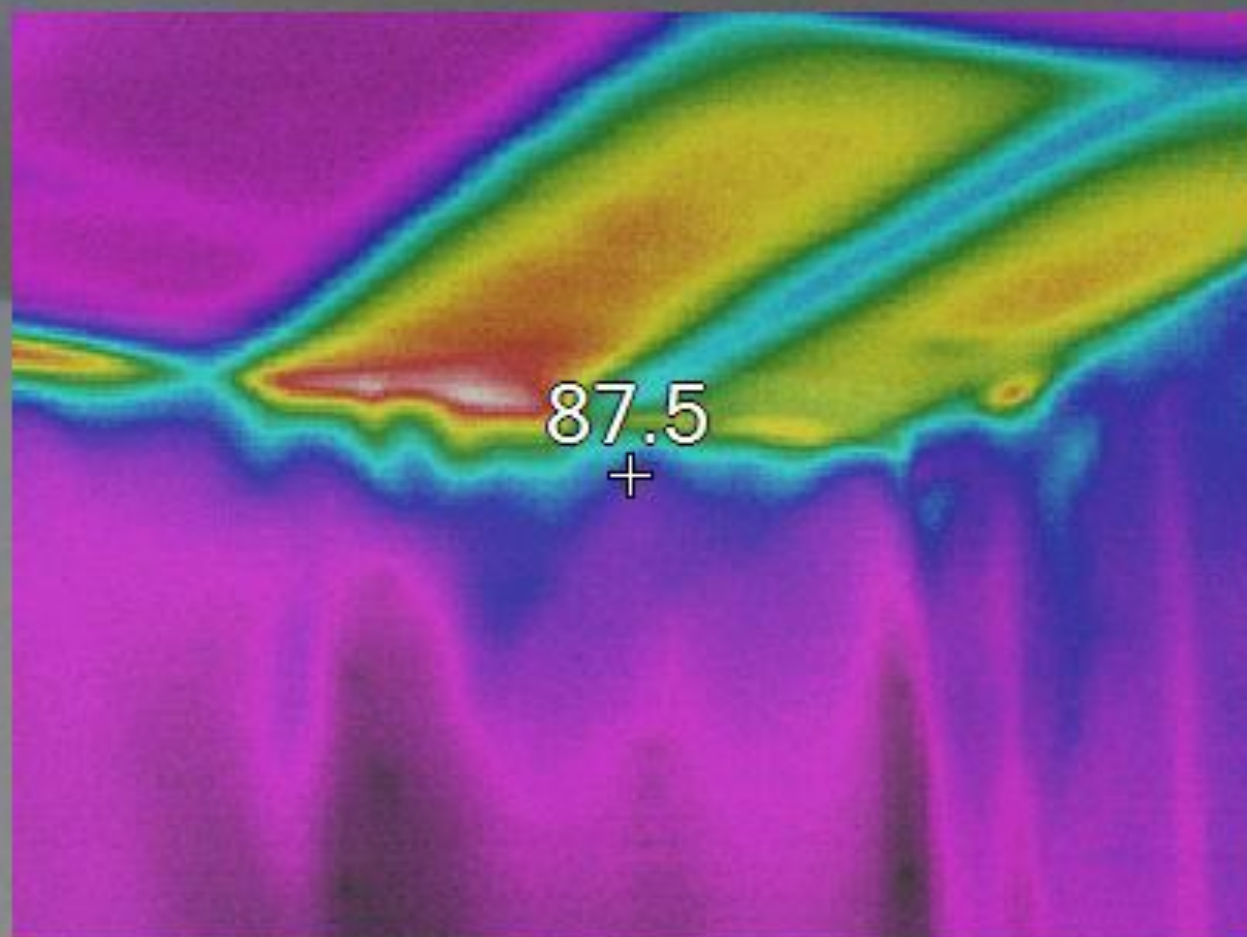




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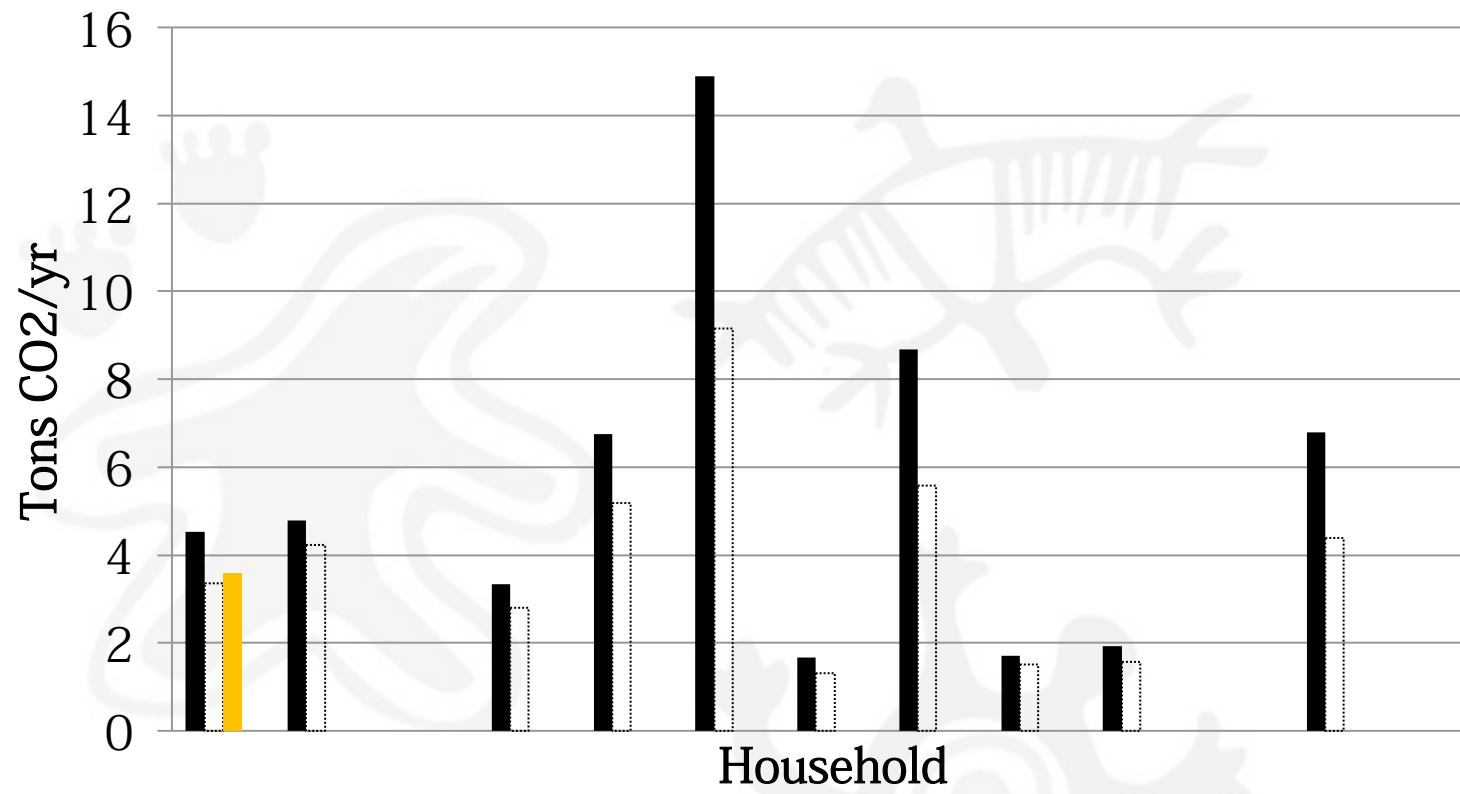
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Progress:
ENERGY
BASELINE

Residential Savings Potential (MTCO₂ eq)

Chumash Home Energy Savings

- Current
- Upgrade Modeled
- Modeled Potential
- Upgrade Measured







CHUMASH



**USED COOKING
OIL**

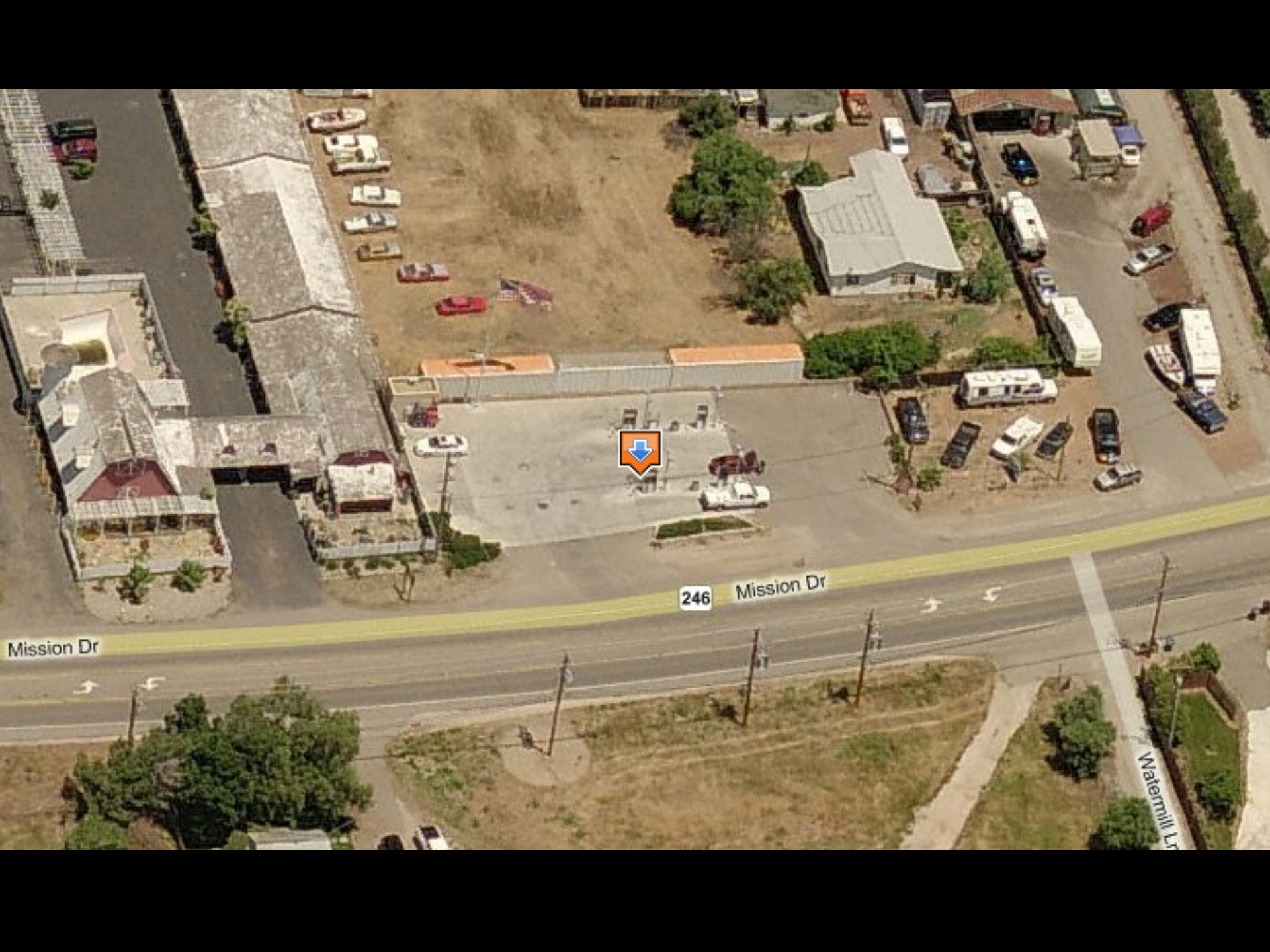


CHUMASH
RED COOKING OIL

www.VegPoweredSystems.com
525 4515

Ultra Concentrated



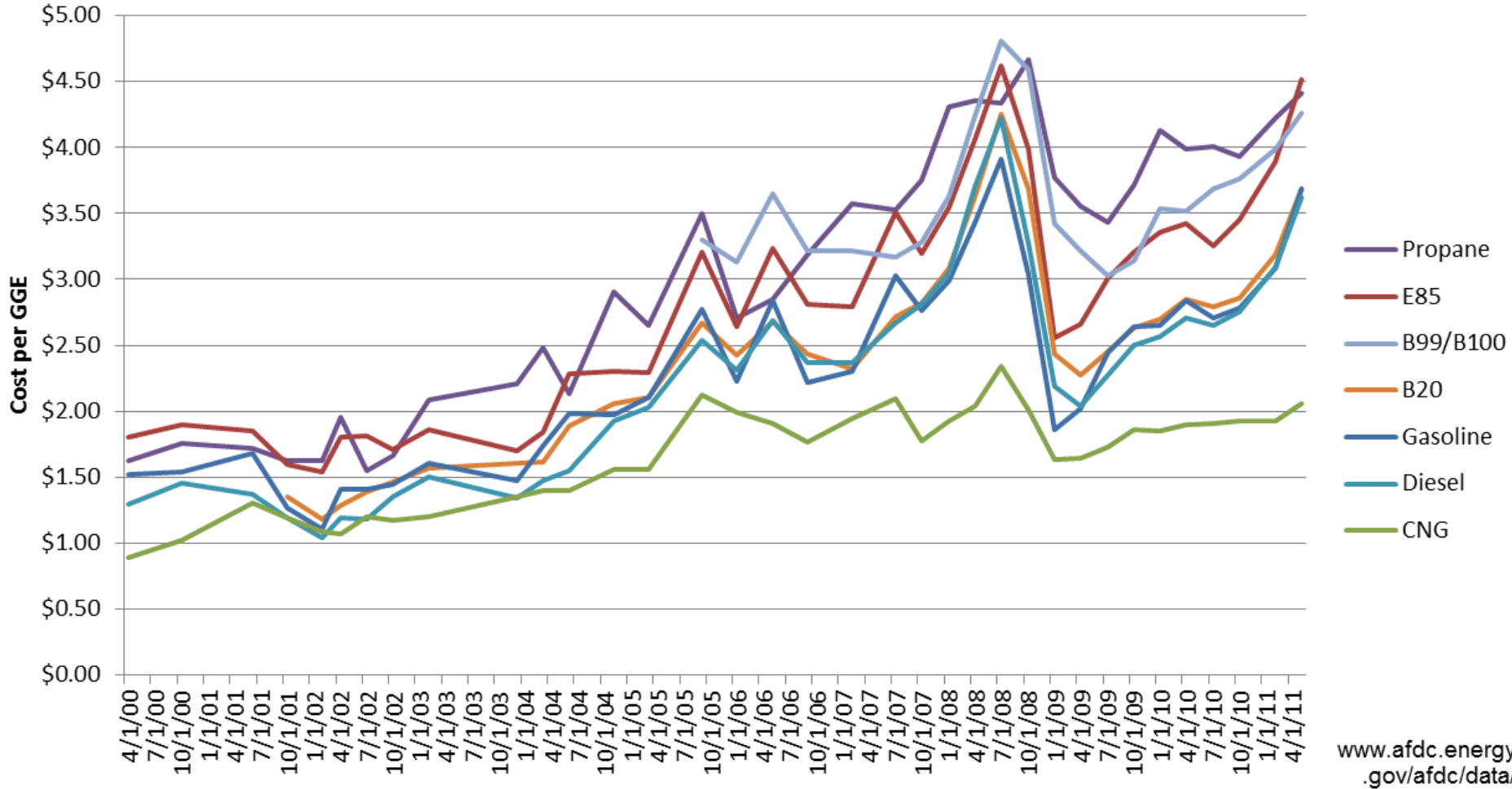


246 Mission Dr

Mission Dr

Watermill Ln

U.S. Average Retail Fuel Prices





Lessons Learned

1. Leverage contacts and keep abreast of local offerings
2. Be about solutions
3. Make sure goals and intentions are clear
4. Communicate

Upcoming Activities





NO
PARKING
IN LID
EXCEPT
FUELING





CHARGING

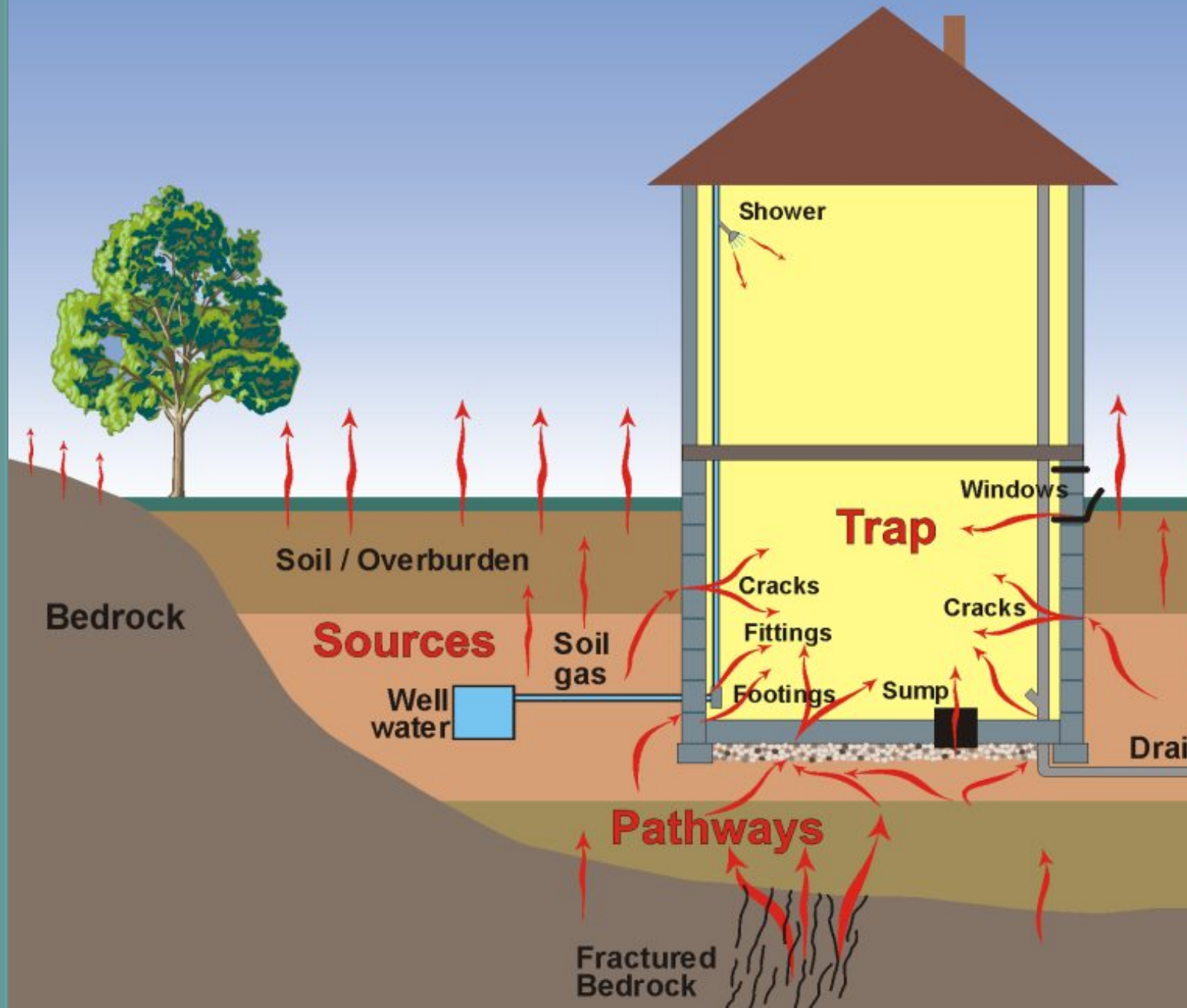


STATION

Radon Movement



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Chumash Community Energy Project

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Climate Showcase Communities
Local Climate and Energy Program

www.epa.gov/statelocalclimate/local/showcase/santaynez.html



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Chumash Community Energy Project

Community Member Training

Energy Efficiency & Solar

Formal Training

Paid Apprenticeship



Building Performance Upgrades

25 Homes, 4 Commercial

Installed by Trainees

Subsidized by CSC Grant







1. Know our Energy Use
2. Define Goals
3. Assess Options
4. Build Capacity

