2023 United States Energy Association
Building Understanding and Improving Community Engagement

Sutter Community Engagement - CCS
December 4, 2023
Calpine was founded in San Jose, California nearly 40 years ago on principles of sustainability.

**POWER GENERATION**
Over 26,000 MW of natural gas, geothermal, battery storage & solar; best-in-class maintenance program

**INFRASTRUCTURE DEVELOPMENT**
Calpine has 11 CCS project identified for full scale development with 4 active FEED studies currently progressing in CA and Texas.
Why community engagement is important for a CCUS project?

As California’s energy transition happens, it’s important CCUS projects engage with the community.

Thoughtful collaboration and listening can lead to positive outcomes for both the project and the community.
The Sutter Community

Agricultural powerhouse
Punjabi and Hispanic influences
Trade-focused Education
Proximity to Sacramento
World's Smallest Mountain Range: Sutter Buttes
The Northern California Community

This is a Northern California project - Calpine is committed to building a clean energy workforce and providing clean electricity to a large community of Californians.

Our regional partners on this journey include, but are not limited to:
- Sacramento Municipal Utility District
- California State Building Trades Council
- Los Medanos College
- Yuba College
- Lawrence Livermore National Laboratory
- University of California, Davis
- Stanford University
Sutter Energy Center: Built on a History of Community and Labor Engagement

1. 1995-1998
   Community members engaged on Sutter project and identified levee improvements as a community priority

2. 1998
   Calpine and Labor set the stage for first project labor agreement ever executed for a California power facility, setting the standard

3. 2001
   SEC begins commercial operation—becoming the first air-cooled merchant CCGT in California

4. 2005
   The plant has first offtake agreements with the Sacramento Municipal Utility District (SMUD) and Balancing Authority of Northern California

5. 2009
   Groundbreaking for the Starbend Levee project in partnership with the State under community benefits agreement

6. 2021
   Discussions with community leadership and scoping for CCS retrofit begin

7. Early 2022
   Public outreach for CCUS project begins, hosting two public forums in both Sacramento and Yuba city

8. 2023
   SMUD votes to partner with Calpine on the CCS retrofit, now named the Sutter Decarbonization Project
CCS Success: Built on a History of Community and Labor Engagement

**Education and Training**
- Expanded relationships with minority-serving institutions
- **Career fairs, apprenticeships, and information-sharing** with Yuba College, Los Medanos College, and UC Davis.
- **Expanded internship program** for both STEM and non-STEM careers

**Labor**
- Negotiating a **Project Labor Agreement (PLA)** to cover project construction
- Calpine to offer learning and development opportunities for job promotion and professional development
- Continue to sponsor co-op programs with students from local community colleges

**Stakeholder Engagement**
- More than 45 stakeholder meetings held to date
- Meetings with community groups kicked off in September 2022, more than 6 months prior to permit filing
- Two public CCS workshops held in May 2023
- Community feedback directly impacts engineering design, broader project design and implementation

**Community Economic Impact**
- Jobs creation for construction and operations
- Community Benefits Agreement (similar to SEC’s initial development)
- Local businesses utilized for construction and operations
- Maintenance/operations budgets spent in Sutter County
- Local non-profit charitable contributions
Challenges to Community Engagement for CCUS

Different audiences have different concerns.

What our partners assumed the community valued most:
• Equity
• Air pollution control
• Business growth

While Calpine still prioritizes these issues, the articulated community concerns instead focused on:
• Noise
• Water
• Impact to traffic
• Economic impact, including taxes
• Carbon storage permanence
• Job creation
Integrating Community Feedback

**Water Use**
Water is a critical resource in the community; the site will continue to be fully air-cooled

**Non-STEM Internships**
In addition to traditional apprenticeships, local educational institutions requested non-STEM internships to expand opportunity

**Community Liaison**
An on-the-ground community member identifies and raises concerns before they become problems

**Continued Meetings**
We continue to host public small group meetings, as well as one-on-one meetings to address ongoing concerns in the community

**Seismicity**
Community feedback led to more extensive community outreach and education with storage partner
Connecting with the Community: Addressing Concerns

Calpine has integrated a variety of means to facilitate communication with the community.

California-focused website
- Addresses local audience
- FAQ guide
- Project updates

Calpine coordinated with partners SMUD, ION Clean Energy, and 1PointFive to create materials and messaging focusing on:
- Pipeline information
- Safety
- Noise concerns
- Water Impact
- Carbon Storage
- Project timeline

Following up with one-on-one meetings with trusted members of the community, this outreach resulted in addressing safety questions around storage and seismic concerns. This includes a dedicated 800 number and email to gather community feedback.
Building and Maintaining Relationships with the Community

1. Be honest and transparent
   
   Honesty and transparency is necessary to build and maintain trust.

2. Stay engaged and responsive
   
   Regular communication and involvement is needed to maintain relationships.

3. Be proactive and take initiative
   
   Identify and address CCUS-related community concerns or issues before they become major problems.

4. Acknowledge this will take work and time
   
   Community engagement requires extensive research, interfacing, and staffing. Ensure you have the resources early in the development process. Rural energy communities have been proven to be susceptible to research fatigue. As a result, indicators may seem lower than expected.

5. A community liaison can help you understand sentiment
   
   Having a resource on the ground can help proactively address minor issues before they become larger, gain perspective into local issues, and help understand what is important to the community.
What the Community is Saying...

Karm Bains  
Chair, Sutter County Board of Supervisors  
“I have 100% confidence in Calpine and this project. Calpine has been operating in Sutter county for over 20 years. They have proven to be a great community partner.”

Heidi Sanborn  
SMUD Board President, Director  
“I look forward to our close working relationship with Calpine to make sure this goes as smoothly as it possibly can with all the smart people in the room that have helped bring this to us.”

Mark Mulliner  
State Building & Construction Trades Council of California  
"It is our obligation to work with Calpine and support these companies, because they are making the commitment to utilize our members."
Thank You!

Sutter Decarbonization Project – Community Engagement