CarbonSAFE2 Sutter Co.
Assistance and Validation Meeting

Presented by:

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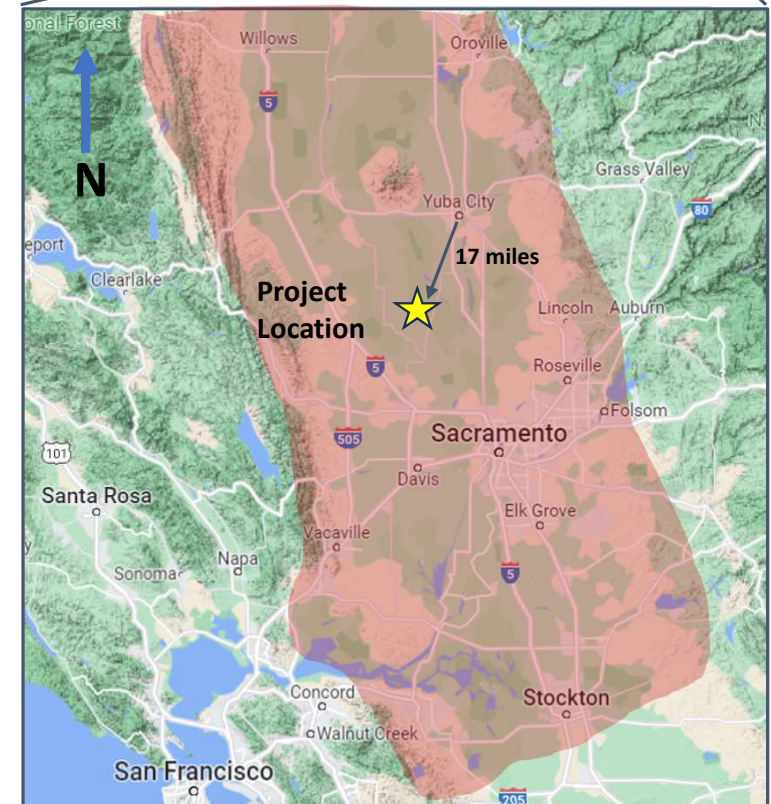
Agenda

- Project Description
- Project Partners and Resources
- Community Benefits Plan (CBP) Overview
- Community and Labor Engagement
- Investing in Job Quality and a Skilled Workforce
- Diversity, Equity, Inclusion, and Accessibility
- Justice40 Initiative
- Timeline / Implementation Roadmap
- Proposed Framework to Evaluate and Track Progress
- Potential Challenges to Successful Outcome

CarbonSAFE2 Sutter Co. Project Description

- This CarbonSAFE Phase-II project seeks to determine:
  - Storage complex feasibility of the central Sacramento basin in northern California
  - Potential to store 50 million metric tons of anthropogenic CO2 over 30 years.

- Key Project Activities include:
  - Data collection to supplement key missing geologic and reservoir data (i.e., drilling of a stratigraphic test well within the AOI and associated testing)
  - Geologic, Reservoir and Geomechanical Modeling
  - Risk Assessment and Mitigation/Monitoring Planning
  - CO2 Source and Transport Planning
  - Analysis of Contractual and Regulatory Requirements
  - Technical and Economic Feasibility Assessment
  - Community Benefits
  - Phase-III and UIC Class VI Application Planning and Verification

Proposed Stratigraphic well location:
17 miles SE from Yuba City

Project Partners and Resources

CBP Project Partner & Staffing Resource	CBP Role
GTI Energy (in coordination with the Sutter Decarbonization Project) • Ke "Jack" Ding, Principal Analyst • Eric Boria, Principal Analyst & Project Manager • Cynthia Medina, EJ Analyst	**SCI Lead** **IAW Lead** **DEIA Lead**
Calpine • Emily Turkel, Government Affairs Analyst • Barbara Levake, Local Community and Government Relations Consultant • Alfred Torres, Governmental and Community Affairs Manager	**CBP Coordination**
Frontier Energy • Soria Adibi	**CLE LEAD**
Carbon Solutions • Erin Middleton, Director of Energy Equity • Qasim Mehdi, Research Scientist	**J40**
1POINTFIVE • Julie Coleman, Stakeholder Relations Manager • Telbe Storbeck, External Affairs Manager	**CBP Support**

Community Benefits Plan (CBP)

Build a framework to engage community stakeholders, develop a ready workforce, and optimize project benefits

Community and Labor Engagement
- CBP Panel building on Calpine's existing relationships
- CLE communication & engagement strategy
- Community and stakeholder analysis

Investing in Job Quality & Skilled Workforce
- Skills, certification, educational needs analysis for future CCUS jobs and local workforce hiring needs
- Health & safety (HSE) plans for CCUS-related work
- CCUS training & education partnership pipeline

DEIA
- Diverse hiring and contracting strategy
- Accessible CCUS-skills training & education pipeline
- Public dissemination of project information on website

Justice40
- CCUS J40 data gathering
- Identification of J40 metrics for CCUS
- Database development on CCUS J40 data to facilitate future work

GTI ENERGY   FRONTIER energy   Carbon Solutions LLC   CALPINE   Projeo   1POINTFIVE

Community and Labor Engagement

A **Community Benefits Panel (CB Panel)** will be formed with community stakeholders from Calpine's existing relationships in Sutter County

- o Frontier Energy will lead the CLE and CB panel and the community engagement work in California
- Community engagement work will also include on providing transparent information about CO_2 pipeline and storage safety and risk communication and mitigation strategies
- Coordinate with other federal/state projects to avoid community fatigue

Stakeholder Group	Organizations/Groups
Academia, Local Colleges and Universities, and Schools	Yuba College; University of California, Davis; California State University Sacramento; Sutter County Superintendent of Schools; Feather River Academy
Utilities	Pacific Gas & Electric; Sacramento Municipal Utility District; Sutter Mutual Water Company
Workforce-based Community	Calpine; Agricultural Community and its affiliated organizations; Mid Valley Building Trades (includes OE3, Local 228, and others); Yuba-Sutter Economic Development Corporation; Sutter County One Stop
Research / Scientific Community	National Energy Technology Laboratory; Lawrence Livermore National Laboratory
Environmental Organizations	Natural Resources Defense Council; Coalition for Clean Air; California Waterfowl Association; Environmental Council of Sacramento; Union of Concerned Scientists; Center for Energy Efficiency and Renewable Technologies; 350 Sacramento
Tribal Nations and Organizations	California Tribal Temporary Assistance for Needy Families; Enterprise Rancheria (Estom Yumeka Maidu Tribe)
Community-Based Organizations	Alliance for Hispanic Advancement; Yuba-Sutter Farm Bureau; Rotary Club; assorted Punjabi-American groups; Ducks Unlimited
Local and Regional Public Officials and Agencies	Feather River Air Quality Management District; Sutter County Board of Supervisors; Yuba City; Sacramento Area Council of Governments; Reclamation District 1500; Sutter Butte Flood Control Agency

Investing in Job Quality and a Skilled Workforce

The CBP will advance **Workforce Training and Education on CCUS by:**

1. Providing an analysis of skills, certification, educational needs for future CCUS jobs along with a characterization of local workforce characteristics
2. Developing recommendations to health and safety (HSE) plans for CCUS-related work
3. Creating a workplace anti-harassment and anti-discrimination policy for work created by the project
4. Identifying potential partners for a CCUS-skills training and education pipeline that utilizing the partnerships Calpine already has with academic institutions, workforce training, and community partners.

Diversity, Equity, Inclusion, & Accessibility

- Create a diverse hiring and contracting strategy
- Develop partnerships for CCUS-skills training and education pipeline
  - Metrics: We will track partnerships established for future training and educational opportunities and demographics of potential participants
- Increase access to CCUS training and educational opportunities
  - Metrics: We will Develop guidelines by project completion
- Promote inclusion through increased accessibility to information and communication platforms on CCUS.
  - Metrics: The project team will contribute to the project website and update data on a quarterly basis
  - Calpine has a project website and we will make this portion of the work available on that site

Justice40 Initiative

GOAL - Create a foundation to achieve J40 policy priorities in subsequent phases of CCUS construction, operations, and maintenance

LEAD - Carbon Solutions will lead the J40 activities

Data gathering and analysis on J40 and CCUS
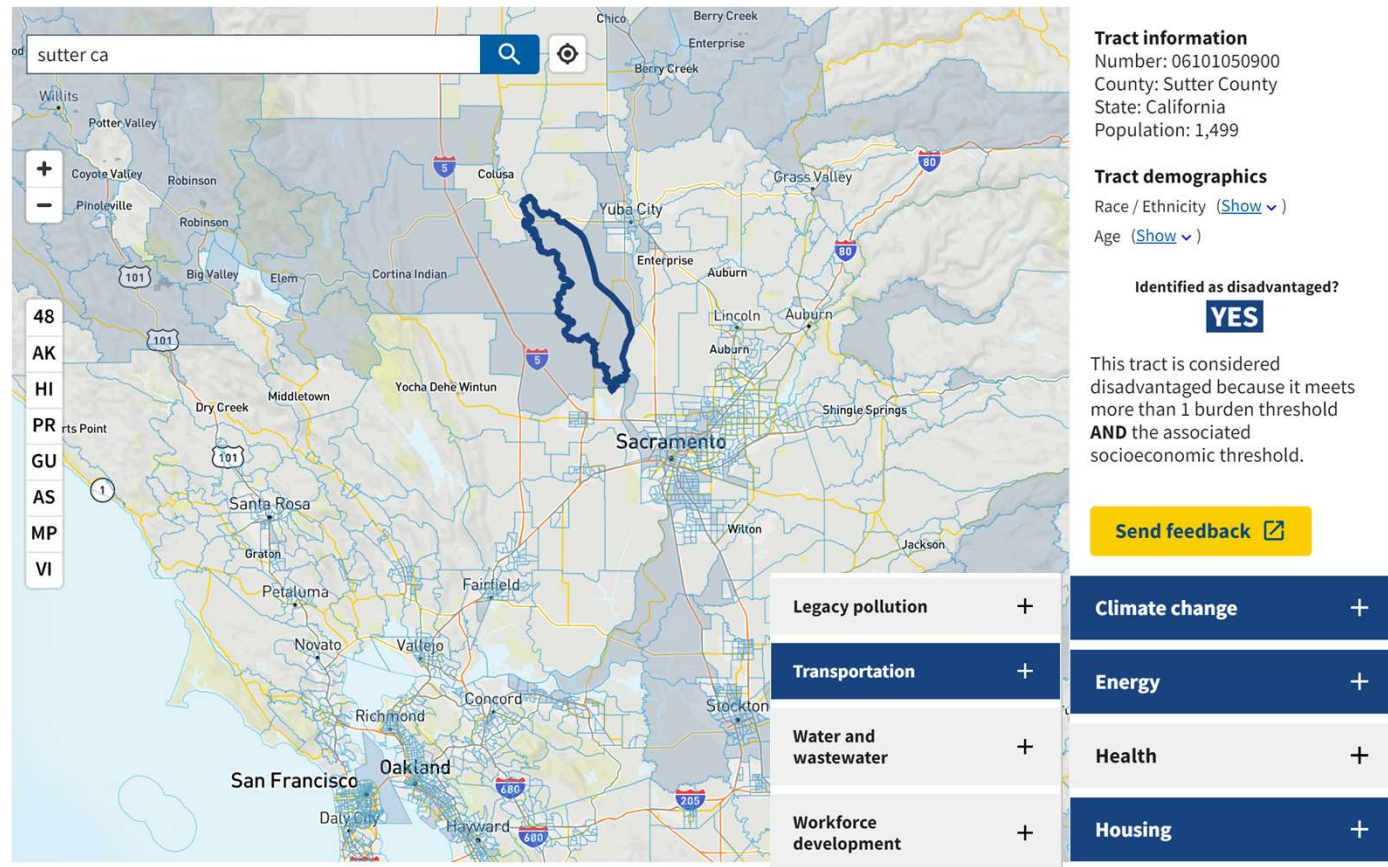
Establish a methodology to assess J40 policy priorities

Create a J40 database to facilitate future work

J40 Initiative

Metrics	Value
Total Census Tracts	60
DACs(EJ Screen)	19
DACs (CalEnviroScreen 4.0)	8
Population residing in the project area	1400

CEJST V1.0 Launch Date: November 22nd, 2022

Timeline / Implementation Roadmap

Category and Commitment (Numbered tasks **in bold** are listed in the CBP Summary Table; Additional tasks added for execution)	Timeline listed in CBP	Responsible for task execution	2024												2025											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Community and Labor Engagement																										
B2.1 Convene a CBP Panel	*Ongoing throughout project*	Frontier	■	■			■			■			■			■		■		■			■			
B2.1.1 Identify potential members for the CBP Panel (from technical and relevant stakeholder groups)	*PMP - M1*	Frontier	▨																							
B2.1.2 Meet with CBP Panel (one-on-one and collective meetings)	*PMP - M2-throughout the project*	Frontier		▨	▨																					
B2.2 Complete a CLE communication and engagement strategy and update following CBP Panel meeting dates	*PMP - M4-throughout the project*	Frontier				■	■			■			■			■		■		■			■			
B2.3 Conduct CLE engagement	*PMP - M4-throughout the project*	Frontier				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
B2.4 Community, Labor, and stakeholder data analysis	*Ongoing throughout project*	Frontier				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Investing in Job Quality and a Skilled Workforce																										
C3a.1 Create a workplace anti-harassment and discrimination policy for work created by the project	*Completed by project conclusion.*	GTI	■	■	■																					
C3a.2 Identify skills, certification, educational needs for future CCUS jobs	*Ongoing throughout project and beyond*	GTI			■							■				■					■				■	
C3a.3 Identify and report locally-defined workforce development and quality job characteristics valued by the local workforce	*Completed by project conclusion.*	GTI									▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
C3a.4 Report workforce-informed recommendations to health and safety (HSE) plans for CCUS-related work.	*Ongoing throughout project and beyond*	GTI									■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3a.5 Identify potential local training and educational partners for CCUS and clean energy jobs	*Completed by project conclusion.*	GTI			■				■			■			■			■			■			■		

Timeline / Implementation Roadmap

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Diversity, Equity, Inclusion, and Accessibility																										
D1 Create a diverse hiring and contracting strategy with DEIA-informed job descriptions, outreach, and hiring practices for proposed project jobs	*PMP - M1-12*	GTI	■	■	■	■	■	■	■	■	■	■	■	■	■											
D2 Develop partnerships for CCUS-skills training and education pipeline	*Ongoing throughout project and beyond*	GTI/Frontier		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
D3 Increase access to CCUS training and educational opportunities	*Ongoing throughout project and beyond*	GTI/Frontier			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
D4 Promoting inclusion through increasing accessibility to information and communication platforms on CCUS	*Ongoing throughout project and beyond*	GTI	■	■	■	■	■		■		■	■		■		■		■		■	■		■			
Justice40 Initiative																										
E1 Prepare for assessment of potential decreases in energy burden resulting from future phases in construction and operation.	*Ongoing throughout project and beyond*	Carbon Solutions	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
E2 Prepare for assessment of potential decreases in environmental exposure and burdens resulting from future phases in construction and operation.	*Ongoing throughout project and beyond*	Carbon Solutions	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
E3 Identify potential barriers and opportunities in access to clean energy job pipeline, and job training for members of DACs and underrepresented groups	*Ongoing throughout project and beyond*	GTI	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
E4 Increase energy democracy by creating opportunities for two-way engagement.	*Ongoing throughout project and beyond*	Carbon Solutions				■	■	■	■	■	■	■	■	■	■	■										
E5 Increased parity in clean energy technology access and adoption in future phases by demonstrating how CCUS can decarbonize a local power plant	*Ongoing throughout project and beyond*	Carbon Solutions				■	■	■	■	■	■	■	■	■	■	■										
E6 Update diverse hiring strategy guidelines specific for future clean energy contracting opportunities	*Ongoing throughout project and beyond.*	GTI					■	■	■	■	■	■	■	■	■	■										

Proposed Framework to Evaluate and Track Progress

The CBP will track the following items/metrics to track progress:
- # of groups reached/engaged
- # of CB panel meetings hosted
- # of in-person and virtual meetings with local service organizations hosted
- # of local community engagement events hosted
- Completion of community, labor, and stakeholder data analysis
- Collection of community feedback and to post on the project website
- Creation of workplace anti-harassment and anti-discrimination policy
- Creation of diverse hiring strategy
- # of Partnerships for CCUS-skills training and educational opportunities
- Development of J40 metrics database
- Methodologies developed to assess J40 metrics

Potential Challenges to Successful Outcome

- Cost overruns
- Poor response (pushback) from community engagement efforts
- To avoid community fatigue
- Injury/accident at strat well site