

Attachment A – Land Acknowledgement

Land Acknowledgement Statement

We should take a moment to acknowledge the land on which we are gathered. For thousands of years, this land has been the home of Patwin people. Today, there are three federally recognized Patwin tribes: Cachil Dehe Band of Wintun Indians of the Colusa Indian Community, Kletsel Dehe Band of Wintun Indians, and Yocha Dehe Wintun Nation.

The Patwin people have remained committed to the stewardship of this land over many centuries. It has been cherished and protected, as elders have instructed the young through generations. We are honored and grateful to be here today on their traditional lands.

Approved by Yocha Dehe Tribal Council (July 23, 2019)

Attachment B – 2024.04.22 YCCAC Meeting Minutes



MEETING MINUTES
Yolo County Climate Action Commission
April 22, 2024 | 4:00 PM – 6:30 PM

COMMISSION MEMBERS:

Suzanne Reed, District 1 Appointee
Robin Datel, District 2 Appointee
Mark Aulman, District 3 Appointee
Andrew Truman Kim, District 4 Appointee **(VICE-CHAIR)**
Adelita Serena, District 5 Appointee
Chris White, Technical Lead *(not in attendance)*
NJ Mvondo, Environmental Justice Lead **(CHAIR)**
Bernadette Austin, Climate Scientist/Subject Matter Expert
Pelayo Alvarez, Climate Scientist/Subject Matter Expert *(not in attendance)*
Mica Bennett – At Large
Ken Britten – At Large *(not in attendance)*

EX-OFFICIO MEMBERS:

Sarah Morgan, Yocha Dehe Wintun Nation
Carla Fresquez, UC Davis *(not in attendance)*

SUPERVISORS:

Supervisor Lucas Frerichs, Yolo County Board of Supervisors, District 2 *(not in attendance)*
Supervisor Jim Provenza, Yolo County Board of Supervisors, District 4

Commenced at 4:09 PM

1. Land Acknowledgement *(Attachment A) (R. Datel)*
2. Approval of the Agenda
 - Consider approval of the agenda

Decision: Approve

Approved By / Seconded By: A. Serena/S. Reed

Ayes: S. Reed, R. Datel, M. Aulman, A. Truman Kim, A. Serena, NJ Mvondo, B. Austin, M. Bennett

Noes: None

Abstain: B. Austin

Absent: C. White, P. Alvarez, & K. Britten

3. **Public Comment** – this item is reserved for public comment on items relating to the Commission business that are not on the agenda. Public comment for items on the agenda will be taken when that agenda item is considered.

- A Fridays for Future representative commented on for-profit utilities' influence on the CPUC, leading to higher electricity costs and hindering climate goals. They called for immediate action from the county and Commission to address these issues.

4. **Approve March 25, 2024 Commission Meeting Minutes (*Attachment B*)**

Decision: Approve

Approved By / Seconded By: S. Reed/R. Datel

Ayes: S. Reed, R. Datel, M. Aulman, A. Serena, C. White, NJ Mvondo, M. Bennett, K. Britten

Noes: None

Abstain: B. Austin, P. Alvarez, A. Truman Kim

Absent: C. White, P. Alvarez, & K. Britten

5. **Staff Announcements/Reports (Staff) (60 Minutes)**

- Updates to the Long Range Calendar for the upcoming months were shared.
- Staff presented and awarded winners of the Youth CAAP Calendar Art Contest with a prize and certificate.
- Staff highlighted new dual appointments between Community Services and the County Administrator's Office.
- An update was shared on the approval of the April 9th Presentation to Board of Supervisors on the Home Energy Score (HES) Pilot Program, Weatherization Program, and the Proposed Landfill Fee Concept.
- An update was shared on the Early Actions Projects; Electrification Retrofit Rebate Outreach Program & the Agricultural Equipment Replacement Program.
 - Five applications from Yolo-Solano County residents have been submitted for the Agricultural Equipment Replacement Program.

Public Comment

- The Sustainability Division's efforts and work were acknowledged and praised.

6. Receive Update and Provide Input on 2024-2028 Yolo County Strategic Plan (*Cindy Perez, County Administrators Office*) (15 minutes) (*Attachments F, G, and H*)

- A presentation on the 2024-2028 Yolo County Strategic Plan was given by County Staff from the County Administrator's Office, followed by a discussion between the Commission and Staff.

Public Comment

- No public comment at this time.

7. Receive Update on Greenhouse Gas Emissions Inventory (*K. Wraithwall*) (15 minutes) (*Attachments I and J*)

- Staff provided an update on the Greenhouse Gas Emissions Inventory, focusing on three components: community-wide inventory, municipal inventory, and consumption-based inventory. Inventory methodologies, the importance of accurate data in transportation and building energy sectors and plans for frequent updates to align community actions with climate goals were discussed.

Public Comment

- A comment was made on the importance of including detailed greenhouse gas emissions data and provided suggestions on an online dashboard display.

8. Update on Technical Advisory Committees (TACs) (7 minutes)

- An update on the discussions and progress made at the April Equity and Engagement (E&E) TAC Meeting was provided.
- An update on the discussions and progress made at the April Natural and Working Lands (NWL) TAC Meeting was provided.

Public Comment

- No public comment at this time.

9. Commission Member Reports, Comments, Future Agenda Items

- Events to be Included in the Newsletter were shared.

Public Comment

- No public comment at this time.

10. Adjournment

- Meeting adjourned at 6:42 PM

PUBLIC PARTICIPATION INSTRUCTIONS:

All meetings of the Yolo County Climate Action Commission will be held in person at the Yolo County Board of Supervisors Chambers, located at 625 Court Street, Woodland, Room 206. While the Board chambers are open for public attendance, members of the public are strongly encouraged to observe and participate in the meeting via Zoom at <https://yolocounty.zoom.us/j/87876273446> or by phone at (669) 900-6833 passcode 87876273446#.

If you are joining the meeting via zoom and wish to make a comment on an item, press the "raise a hand" button. If you are joining via telephone, press*9 to raise your hand. The chair will call you by name when it is your turn to comment. **Speakers will be limited to 3 minutes (subject to change).**

If you choose not to observe the Commission meeting but wish to make a comment on a specific agenda item, please submit your comment via email by 5:00 p.m. on the Friday prior to the Commission meeting. Please submit your comment to the Kristen Wraithwall at Kristen.wraithwall@yolocounty.org noting in the subject line: For Public Comment. Your comment will be placed into the record at the Commission meeting.

If you are watching/listening to the Commission meeting and wish to make either a general public comment or to comment on a specific agenda item as it is being heard, you may also submit your comment, limited to 250 words or less, to Kristen Wraithwall at kristen.wraithwall@yolocounty.org noting in the subject line: For Public Comment. Every effort will be made to read your comment into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

Attachment C – ZEV RFP Release Staff Report

STAFF REPORT

DATE: March 25th, 2024
TO: Yolo County Climate Action Commission
FROM: Julia Olsen, Administrative Analyst
RE: Receive update on Zero Emission Vehicle (ZEV) Action Plan RFP

RECOMMENDED ACTION

1. Receive update on Zero Emission Vehicle (ZEV) Action Plan RFP.

REASON FOR RECOMMENDED ACTION

Yolo County staff worked with the four cities, UC Davis, the Yocha Dehe Wintun Nation, the Yolo Transportation District, and other community partners to develop an RFP for implementation of the ZEV Action Plan that was released for bids on May 23, 2024.

BACKGROUND

From September 2021 to January 2022, Yolo County staff sought applications from the public for short-term actions to further Yolo County's climate action initiatives and support the County's goal of achieving net-negative emissions by 2030. The effort included development of prioritization criteria and ranking of 21 short-term action proposals. The Yolo Climate Action Commission and the Board of Supervisors both unanimously voted to approve the top seven projects as "early actions," including the Zero-Emission Vehicle Action Plan (ZEV Action Plan).

Yolo County staff worked with the four cities, UC Davis, the Yocha Dehe Wintun Nation, Yolo Transportation District, and other community partners to develop a proposal for the Caltrans Sustainable Communities grant program. In September 2023, Yolo County received notice that Caltrans awarded the County \$263,819 to support this project.

The Zero Emission Vehicle (ZEV) Action Plan will: 1) identify gaps in ZEV infrastructure and recommend locations for new infrastructure development; 2) assess the electrical grid's capacity to sustain increased ZEV usage and recommend improvements; 3) assess existing mobility options and recommend strategies to improve options; 4) identify state, federal, and other funding sources for future implementation; and 5) develop a strategy to help low-income households access rebates and other forms of support for ZEV ownership. Yolo County will also work with the City of Winters, the City of Woodland, and UC Davis to develop public vehicle fleet transition plans for Yolo County and these three public entities. Yolo County has since created a Yolo ZEV Task Force to implement a comprehensive public outreach strategy based on widely accepted best practices to

inform the development of the ZEV Action Plan, with a focus on underserved communities, and invite representatives from different County departments each of the four incorporated cities (Davis, Winters, West Sacramento, and Woodland), Caltrans District 3, the Yocha Dehe Wintun Nation, the Yolo Transportation District, UC Davis, air quality management districts, utilities, and community-based organizations working on ZEV policy and/or directly with underserved communities to participate.

The ZEV Action Plan will include an implementation plan with prioritized actions, as well as a funding strategy which matches actions to grants and other funding opportunities, to ensure Yolo County and its partners can quickly move implementation priorities forward. The project encompasses all of Yolo County and is therefore necessary to bring local governments and community-based organizations together to focus on increasing ZEV usage and mobility options in Yolo County and achieving local and state goals to reduce greenhouse gas emissions, as well as ensure underserved communities receive needed support.

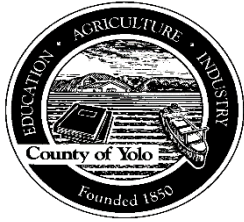
On May 23, 2024, the County issued a Request for Proposals for the ZEV Action Plan (Attachment D). The deadline to submit proposals is July 11, 2024. The anticipated contract start date is set for September 10, 2024.

NEXT STEPS

Following the release of the ZEV Action Plan RFP:

July 11, 2024	Deadline to submit proposals
September 2024	County and ZEV Action Team begin project implementation

Attachment D – ZEV Action Plan RFP



COUNTY OF YOLO

Purchasing Division

Request for Proposals (RFP)
For

Yolo County Community Services Department

YOLO COUNTY ZERO EMISSION VEHICLE (ZEV) ACTION PLAN RFP

Proposal Responses Due:
TBD, 2024 at 4:00 pm

Yolo County Procurement Division
120 West Main Street, Ste. G
Woodland, CA 95695

RFP Coordinator:
Keely Mendes
(530) 406-5774
keely.mendes@yolocounty.org

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Exhibits:

Exhibit "A"	Proposal Transmittal Letter
Exhibit "B"	Proposal Qualification & Experience
Exhibit "C"	Proposal Cost Form & Fee Schedule Rate
Exhibit "D"	Previous Customer References
Exhibit "E"	Signature Page (County Provided Form)
Exhibit "F"	Non-Collusion Non-Conflict of Interest Statement (County Provided Form)
Exhibit "G"	Non-Lobbing Certification (County Provided Form)
Exhibit "H"	Darfur Contracting Act Requirements (County Provided Form)
Exhibit "I"	Contractor Certification Clauses (County Provided Form)
Exhibit "J"	DVBE Requirements (County Provided Form)
Exhibit "K"	Exceptions (County Provided Form)

Attachments:

Attachment 1	Sample County Contract
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I. INTRODUCTION

A. STATEMENT OF PURPOSE

The County of Yolo is requesting proposals from qualified consultants/consulting firms to conduct a Zero Emission Vehicle (ZEV) Action Plan and Municipal Fleet Transition Plans as outlined in this RFP. The ZEV Action Plan and the fleet transition plans will reduce vehicle emissions, improve air quality, and help provide equal access to clean mobility services across Yolo County. The ZEV Action Plan and Fleet Transition Plans will outline a timeline, prioritization framework, and budget needs to assist with the acceleration of public and municipal fleet ZEV adoption and emissions reduction, and help Yolo County and our partners meet our respective greenhouse gas reduction goals while maximizing benefit for our underserved communities.

1) BACKGROUND

In September 2020, the Yolo County Board of Supervisors adopted Resolution No. 20-114, Resolution Declaring a Climate Crisis Requiring an Urgent and Inclusive Mobilization in Yolo County, which set the goal of meeting a carbon-negative footprint by 2030 while centering equity and ensuring a Just Transition. The County has since developed a 2030 Climate Action and Adaptation Plan (CAAP) (projected to be adopted in fall 2024), and in partnership with the Yolo County Climate Action Commission (YCCAC), has developed a list of Early Action Projects to accelerate the County's carbon negative by 2030 goal prior to the adoption of the CAAP. One of these Early Action Projects is a Zero Emission Vehicle (ZEV) Action Plan to: 1) identify gaps in ZEV infrastructure and recommend locations for new infrastructure development; 2) assess the electrical grid's capacity to sustain increased ZEV usage and recommend improvements; 3) assess existing mobility options and recommend strategies to improve options; 4) identify state, federal, and other funding sources for future implementation; and 5) develop a strategy to help low-income households access rebates and other forms of support for ZEV ownership. Development of the ZEV Action Plan will also include the development of Municipal Fleet Transition Plans for Yolo County, the City of Winters, the City of Woodland, the City of West Sacramento, and UC Davis.

- 2) Project will be funded by California Department of Transportation's grant Sustainable Communities for Sustainable Transportation Planning. A portion of this project will be federally funded by the American Rescue Plan (ARP.) The total budgeted amount for this project is \$303,819.

Proposers who submit a response to this RFP must have the ability to meet the requirements, including the terms and conditions contained in this RFP.

B. SYNONYMOUS TERMS

As used throughout this proposal and its attachments, the following terms are synonymous:

- 1) Supplier, Vendor, Contractor
 - b. Purchase Order, Contract, Agreement
 - c. Services, Work, Scope, and Project
 - d. Bidder, Offeror, Proposer
- 2) "The County" refers to the County of Yolo, California.
- 3) Bidsync, Periscope Source

C. SCOPE OF WORK

1) GENERAL DESCRIPTION & BACKGROUND:

The ZEV Action Plan will include an implementation plan with prioritized actions, as well as a funding strategy which matches actions to grants and other funding opportunities, to ensure Yolo County and its partners can quickly move implementation priorities forward. The project encompasses all of Yolo County and is therefore necessary to bring local governments and community-based organizations together to focus on increasing ZEV usage and mobility options in Yolo County and achieving local and state goals to reduce greenhouse gas emissions, as well as ensure underserved communities receive needed support. This project will build on the Yolo County Climate Action and Adaptation Plan, UC Davis Fossil Fuel-Free Pathway Plan, the Yolo Transportation District’s Yolo Active Transportation Corridors Project, the Sacramento Area Council of Governments (SACOG) Blueprint, and other relevant completed and emerging regional planning projects.

The overall project objective is to develop implementable plans (both the overall ZEV Action Plan and 5Fleet Transition Plans) that will support the increased adoption of ZEV use Countywide by providing a prioritized, step-by-step improvement schedule complete with cost estimates and shovel-ready funding strategies. The plan should accommodate future transportation demand needs on a 10-year planning horizon.

2) TECHNICAL SPECIFICATIONS:

The following tasks are identified for the purposes of providing clarity to consultant(s) submitting proposals on the Yolo County ZEV Action Plan, however proposals should be submitted that reflect the creativity of the consultant team and may modify or combine these tasks and deliverables as appropriate to create a more effective Plan.

Vendor shall perform, at a minimum, the following tasks:

Task 1: Project Management

The consultant will be responsible for general project management of the ZEV Action Plan and fleet transition plans and coordination with Department of Community Services’ Sustainability Division and the ZEV Task Force. The ZEV Task Force currently includes representatives from each of the four cities (Davis, West Sacramento, Winters, and Woodland), Yocha Dehe Wintun Nation, Yolo Transportation District, and UC Davis. Consultant to support identification of additional Task Force members including utility partners and community-based organizations.

Additional Project Management responsibilities includes providing necessary information and input to staff, clearly communicating data and information needs, scheduling and attending meetings, (including to provide briefings to relevant local boards and commissions), providing meeting summaries with clear next-steps and deliverables, creating and tracking the overall project schedule, tracking timelines and deliverables, and communicating with staff.

<u>Task 1 Deliverables</u>
<ul style="list-style-type: none">• Detailed Request for Information (RFI) outlining data needs to complete ZEV Action Plan and Fleet Transition Plans.• Schedule regular check-ins with the County project team and ZEV Task Force; provide meeting summaries.

- Project management timeline that includes dates for interim milestones, internal and external meetings, and incorporates time for revisions to the plan following stakeholder input periods.
- Attend scheduled project team meetings, working group meetings, and relevant local board and commission meetings as necessary.

Task 2: Public Outreach Assessment & Engagement Strategy

Develop a public engagement strategy drawing from Greenlining’s Mobility Equity Framework that outline’s the team’s approach for engaging with the community, and ensuring solutions address the greatest needs of the County’s underserved populations. Focused on actively engaging the community with solutions that improve long-term capacity building, the public engagement strategy will prioritize three specific items relevant to the ZEV Action Plan:

1. An assessment of ZEV community needs based on a presentation of data collected through the planning process;
2. Comments on the draft ZEV Action Plan;
3. Distribution of outreach materials to help underserved communities access funding and incentives to increase ZEV ownership.

In the development of the public engagement strategy, the selected consultant will support trusted communication platforms—such as social media, newsletters, and newspapers from the County and partners—to advertise opportunities for public input through a variety of means, including in-person workshops, presentations at existing meetings, and surveys. Include methods that emphasize accessibility so the public can participate in their preferred location, language, and format. The selected consultant will work with CBO partners to identify potential gathering places such as CBO buildings, markets, libraries, transit hubs, school/community events, that remove barriers to participation for the County’s communities, including those residing in rural/unincorporated areas, farmworkers, tribes, etc. The selected consultant will assist in providing summaries following public outreach events, summarizing recommendations from outreach events to be incorporated into the plan.

<u>Task 2 Deliverables</u>
<ul style="list-style-type: none"> • Provide support for development of Request for Proposal/Qualifications for CBO outreach partners. • Draft and Final Public Outreach Strategy. • Multi-language/culturally appropriate public outreach toolkit including PowerPoint presentations, social media posts, flyers, email templates, website announcements (as appropriate), and materials to help underserved communities access funding and incentives to increase ZEV ownership. • Community input survey(s) regarding mobility needs and challenges, ZEV infrastructure priorities, etc. • Survey summaries. • Strategy to help low-income households access rebates and other forms of support for ZEV ownership.

- Multi-lingual agendas/materials for in-person workshop(s) and pop-up events.
- Multi-lingual translation services.
- Sign-in sheets from in-person workshop(s) and pop-up events.
- In-person workshop summaries (including at least one workshop on the DRAFT ZEV Action Plan).
- Receipts for light refreshments at in-person workshops.
- Updates to local commissions/advisory bodies, such as the Yolo County Climate Action Commission, City of Woodland Sustainability Advisory Committee, Yolo Transportation District Board of Directors and Transportation Advisory Committee, etc. (*at minimum, 1 round of updates during initial public outreach period, 1 during draft review, 1 to share final deliverables*).

Task 3: Assessment & Analyses of Existing Conditions, Challenges, and Opportunities

The ZEV Action Plan and Fleet Transition Plans will include an assessment of existing conditions, challenges, and opportunities related to ZEV vehicle (*including hydrogen and electric vehicle*) use, access, and proliferation in Yolo County. Selected consultant will align this work with regional transportation priorities and relevant local planning processes.

The selected consultant will:

1. Conduct an analysis of the current state of ZEV infrastructure in Yolo County: In partnership with the County, municipalities, and other partners, assess the location, ownership, and type (ie. Level I, level II, DCF, pay vs. free, etc.) of current EV charging and hydrogen infrastructure. Conduct interviews with key stakeholders—including fleet managers, multi-family housing developers/owners, etc.—to assess opportunities and challenges in the existing ZEV infrastructure.
2. Conduct a Community Mobility Needs Assessment: Using Greenlining’s Mobility Equity Framework as a guide, work with the Yolo ZEV Task Force and CBO outreach partners to conduct outreach to inform gaps, challenges, and needs in terms of transportation (including bus routes), mobility services (including e-bike and ZEV carshare), and ZEV infrastructure. Build on existing planning processes such as the Yolo County Climate Action and Adaptation Plan, Yolo Transportation District’s Yolo Active Transportation Corridors Project, SACOG Blueprint, etc.
3. Evaluate Public Fleet for Electrification Readiness (For Yolo County, City of Winters, City of Woodland, City of West Sacramento, and UC Davis): Yolo County, City of Winters, City of Woodland, City of West Sacramento, and UC Davis are in need of a fleet transition plan to accelerate adoption of zero emission vehicles. In conducting fleet transition studies for these five entities there is an opportunity to align goals, methodologies, and ensure collaborative, shared progress toward full fleet electrification.
 - i. In close partnership with fleet managers and following Advanced Clean Fleets (ACF) regulation, evaluate existing fleet inventory to understand vehicle use, replacement timeframe, readiness to electrify (ie. available EV alternative on the market, fits use-type of vehicle, etc.).
 - ii. Evaluate fuel consumption by vehicle type.

- iii. Perform right-sizing analysis to identify optimum fleet size.
 - iv. Develop electrification timeline in line with ACF requirements and the ACF ZEV Purchase Schedule, provide budget and funding recommendations for each of the five partners.
4. Forecast Grid Capacity: In consultation with local utilities, including Valley Clean Energy and Pacific Gas & Electric, overlay the analysis of current and future ZEV infrastructure with the available grid capacity.
 5. Forecast Future Travel Demand: Building on the work of SACOG’s Blueprint and utilizing data and methodologies from the Yolo County Climate Action and Adaptation Plan Update (in progress) and Yolo Transportation District planning efforts, forecast future travel demand, EV adoption timelines, etc. to ensure that the grid capacity meets the expected demand.

<u>Task 3 Deliverables</u>
<ul style="list-style-type: none"> • Methodology for Conducting Community Needs Assessment. • Draft Community Needs Assessment. • Final Community Needs Assessment. • Draft Summary of Existing Conditions. • Final Summary of Existing Conditions. • Grid Capacity Forecast. • Travel Demand Forecast.

Task 4: Analysis, Synthesis, and Strategy Recommendations

After conducting detailed analysis and comprehensive public outreach, the selected consulting team will analyze the outcomes of their work and provide a number of key recommendations including:

Where to site additional charging stations: including establishment of priorities which consider a focus on light, medium and heavy-duty vehicles and areas where ZEV infrastructure would result in the greatest reduction of greenhouse gas emissions and greatest public benefit to underserved communities.

- Identification of the number, type and location of EV charging stations needed to support full fleet electrification, and to provide charging for County and the public.
- Recommendations for the types of chargers needed at each location (ie. level I, II, DCFC, etc.).
- Outlining specific electric/grid requirements for each site, cross-referenced with fleet capacity data.
- Provide cost and timing estimates for infrastructure installation at recommended charging locations.

How and where to establish Zero-Emission mobility services (including electric carshare and electric bikes) for residents and businesses in the unincorporated area to enable residents—particularly farmworkers and rural residents in underserved communities—to use clean

mobility options to meet their travel demands. These mobility services may focus exclusively on helping low-income households and disadvantaged communities.

- Provide cost and timing estimates for various mobility service recommendations.

How to address barriers to ZEV proliferation and recommended solutions: Highlight gaps and challenges that arose during the public outreach and analysis phases of the project. Recommended solutions may include:

- Developing resources and templates to help Yolo ZEV Task Force coordinate with local electric utility providers—including Valley Clean Energy and/or Pacific Gas and Electric—to ensure proposed ZEV infrastructure improvements align with new, upgraded, or existing electrical infrastructure.

When and how to transition municipal fleets to ZEV:

- Identify high-priority fleet vehicles for electrification, including outlining cost and timelines for transition.
- If appropriate/needed, recommend software and/or process upgrades to fleet management systems needed to handle data associated with charging coordination.
- Provide recommendations for fleet right-sizing and outline associated cost-savings.
- Outline charging/fueling needs (including recommending charging types and locations) to support ZEV fleet transition, including a phased timeline and cost estimates.

Task 4 Deliverables

- Prioritization Criteria for infrastructure siting.
- List and Map of Recommended Infrastructure Sites (*both public-facing and for internal/municipal fleet needs*).
- Draft Analysis (*including recommendations for mobility services, barriers to ZEV proliferation and strategies to overcome*).
- Final Analysis.

Task 5: ZEV Action Plan Funding and Implementation Strategy

The selected consulting team will prioritize actions, define steps necessary to further each priority action, develop a realistic timeline for priority actions, and identify potential funding sources and financing strategies to support actions outlined in the ZEV Action Plan through the development of a funding and implementation strategy. The funding and implementation strategy will also include a cost benefit analysis of the various actions identified that includes cost of inaction. The funding and implementation strategy should identify the best models for deploying chargers (including considerations of publicly- vs. privately-owned charging infrastructure) and provide custom approaches for each of the project partners. Yolo County has already developed a system through which the Yolo County Board of Supervisors matches priority actions to address climate change with potential funding sources, as the Board of Supervisors approved a three-year grant strategy for five high-priority actions in 2022. The County chose these actions after developing prioritization criteria and seeking feedback from the Yolo County Climate Action Commission, composed of community members appointed by the Board of Supervisors to advise on climate action, on both the criteria and the final priorities. Yolo County also dedicated staff and resources to apply for

grants to pursue funding and implement these early actions. Yolo County will apply this same approach to development of the funding and implementation strategy for the ZEV Action Plan. The County may include the funding and implementation strategy as a chapter in the ZEV Action Plan.

<u>Task 5 Deliverables</u>
<ul style="list-style-type: none"> • Draft ZEV Action Plan funding and implementation strategy. • Final ZEV Action Plan funding and implementation strategy.

Task 6: Draft and Final ZEV Action Plan and Fleet Transition Plans

The selected consulting team will be responsible for combining and summarizing the results of the above activities into accessible final products. This will include an overall ZEV Action Plan, an executive summary of the ZEV Action Plan (available in multiple languages using accessible/culturally appropriate language), and fleet transition plans for each of four entities (Winters, Woodland, Yolo County, and UC Davis). The draft and final plan will include the following chapters: 1) introduction and background; 2) overview of public outreach efforts, including creation of the ZEV Task Force; 3) existing conditions; 4) gaps in ZEV infrastructure and recommended locations for new infrastructure development; 5) electrical grid capacity assessment and improvements; 6) funding and implementation strategy; 7) strategies to help underserved households access rebates and other forms of support for ZEV ownership. The draft and final plans will also include summaries of the fleet transition plans for Yolo County, the City of Woodland, the City of Winters, and UC Davis (while the draft and final fleet transition plans are included as separate, stand-alone deliverables as outlined below). The draft and final plan will have a particular focus on underserved communities and households for all elements of the analysis. The selected consulting team, in collaboration with the ZEV Task Force, will facilitate public workshops to ensure the public has the opportunity to provide feedback on the draft ZEV Action Plan. Feedback from this workshop will be incorporated into the final ZEV Action Plan.

<u>Task 6 Deliverables</u>
<ul style="list-style-type: none"> • Draft ZEV Action Plan. • Final ZEV Action Plan, crediting Caltrans on the cover or title page, submitted to Caltrans in an ADA accessible electronic copy. • ZEV Action Plan Executive Summary. • Draft Fleet Transition Plans (West Sacramento, Winters, Woodland, Yolo County, and UC Davis). • Final Fleet Transition Plans (West Sacramento, Winters, Woodland, Yolo County, and UC Davis).

3) VENDOR MINIMUM REQUIREMENTS:

Consultant/firm shall meet a minimum of the following requirements:

- a. Five years' experience performing the services required in this RFP, including climate action planning, sustainability planning or other long-range planning efforts.

- b. Staff must have two (2) years' extensive zero emission vehicle infrastructure planning experience.

4) REPORTS:

- a. Consultant/Firm will be required to provide quarterly reports.

5) AWARDED CONTRACTOR REQUIREMENT:

- a. The successful Awarded contractor must supply all insurance requirements as required in Attachment "1," Yolo County Sample Contract.
- b. **CONTRACT TERM:** Contractor agrees to provide awarded items and/or services as specified in the RFP document for a period of two (2) years. Hourly rates shall remain firm for the entire two (2) term. It is expected the contractor will complete all services within twelve (12) months to 18 months from the start date.

D. PROPOSAL DEADLINE

Proposals shall be submitted no later than the Proposal Deadline time and date detailed in the Section II, RFP Schedule of Events. Proposers shall respond to the written RFP and any exhibits, attachments, or amendments. A Proposer's failure to submit a proposal as required before the deadline shall cause the proposal to be disqualified. Late proposals shall not be accepted nor shall additional time be granted to any potential Proposer.

E. SUBMITTING PROPOSALS

The required method of submitting your proposal is electronically through Periscope Source formerly BidSync, www.BidSync.com

It is the sole responsibility of the proposer to ensure their proposal reaches BidSync, LLC before the closing date and time. If you have any questions regarding the submittal of this proposal, please contact BidSync at 1(800) 990-9339, for vendor support.

Late proposals shall not be accepted, nor shall additional time be granted to any potential Bidder.

F. ADDENDA

Any additional information not included in this solicitation which the County finds necessary and material to responding to the RFP will be posted as an addendum on BidSync. Answers to questions submitted through BidSync shall be considered addenda to the solicitation documents.



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II. SCHEDULE OF EVENTS

The following RFP Schedule of Events represents the County's best estimate of the schedule that shall be followed. Unless otherwise specified, the time of day for the following events shall be between 8:00 a.m. and 4:00 p.m., Pacific Time.

The County reserves the right, at its sole discretion, to adjust this schedule as it deems necessary.

Notification of any adjustment to the Schedule of Events shall be provided to all vendors through BidSync. The County is not responsible for failure of the prospective Bidders to check for any RFP document updates, changes, or answers to questions posted at the BidSync.com website. Failure to periodically check the website will be at the Bidder's sole risk.

	EVENT	DATE	TIME
1	County Issues RFP	TBD	-
2	Deadline for Written Comments Posted on BidSync	TBD	4:00 pm
3	County Issues Responses to Written Comments	TBD	
4	Deadline Proposal Due	TBD	4:00 pm
5	County Completes Evaluations	TBD	-
6	Anticipated Contract Start Date	TBD	-

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III. GENERAL INSTRUCTIONS AND INFORMATION

A. RFP COORDINATOR

The following RFP Coordinator shall be the main point of contact for this RFP:

Keely Mendes
120 West Main Street, Suite G.
Woodland, CA 95695
(530) 406-5774
Keely.Mendes@yolocounty.org

B. COMMUNICATIONS REGARDING THE RFP

Upon release of this RFP, all vendor communications concerning this procurement must be directed to the RFP Coordinator named above. Unauthorized contact regarding the RFP with other County employees of the procuring county agency may result in disqualification.

Questions concerning this proposal, including specifications, requirements, terms and/or conditions of a solicitation, etc. should be submitted solely in writing online at www.bidsync.com in the questions and answers section of the solicitation no later than the date and time noted above in the Section II. Schedule of Events Chart, item#3 Deadline for Written Comments Posted on BidSync or per any changes to Schedule of Events as posted to BidSync.

The County is not responsible for failure of the prospective Bidders/Offerers to check for any RFP document updates, changes, or answers to questions posted at the BidSync.com website. Failure to periodically check the website will be at the Bidder's/Offeror's sole risk.

Any oral communications shall be considered unofficial and nonbinding on the County.

Any irregularities or lack of clarity in the RFP should be brought to the attention of the County for correction or clarification.

C. PROPOSAL PREPARATION COSTS

The County shall not pay any costs associated with the preparation, submittal, or presentation of any proposal.

D. PROPOSAL WITHDRAWAL

To withdraw a proposal, the Vendor must submit a written request, signed by an authorized representative, to the RFP Coordinator. After withdrawing a previously submitted proposal, the vendor may submit another proposal at any time up to the deadline for submitting proposals.

E. PROPOSAL AMENDMENT

The County shall not accept any amendments, revisions, or alterations to proposals after the deadline for proposal submittal unless the County formally requests such in writing.

F. PROPOSAL ERRORS

Proposers are liable for all errors or omissions contained in their proposals. Proposers shall not be allowed to alter proposal documents after the deadline for submitting a proposal.

G. PROHIBITION OF PROPOSER TERMS & CONDITIONS

A Proposer may not submit the Proposer's own contract terms and conditions in a response to this RFP. If a proposal contains such terms and conditions, the County, at its sole discretion, may determine the proposal to be a nonresponsive counteroffer, and the proposal may be rejected.

H. ASSIGNMENT AND SUBCONTRACTING

The Contractor may not subcontract, transfer, or assign any portion of the contract without prior, written approval from the County. The County must approve each subcontractor in writing. The

substitution of one subcontractor for another may be made only at the discretion of the County and with prior, written approval from the County.

Notwithstanding the use of approved subcontractors, the Proposer, if awarded a contract under this RFP, shall be the prime contractor and shall be responsible for all work performed.

Contractor shall require each of its subcontractors of any tier to carry the aforementioned coverage, or Contractor may insure subcontractors under its own policy.

I. PROPOSAL OF ADDITIONAL SERVICES

If a Proposer indicates an offer of goods or services in addition to those required by and described in this RFP, these additional goods or services may be added to the contract before contract signing at the sole discretion of the County.

J. INDEPENDENT PRICE DETERMINATION

A proposal shall be disqualified and rejected by the County if the price in the proposal was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to such prices with any other Proposer, a County employee, or any Competitor.

K. INSURANCE

The successful Contractor will be required to provide and maintain insurance as required and listed in Attachment 1 before commencing work on the contract.

L. LICENSURE

Before a contract pursuant to this RFP is signed, the Proposer must hold all necessary, applicable business and professional licenses. The County may require any or all Proposers to submit evidence of proper licensure.

M. RFP AMENDMENT AND CANCELLATION

The County reserves the unilateral right to amend this RFP in writing at any time. The County also reserves the right to cancel or reissue the RFP at its sole discretion. If an amendment is issued it shall be provided to all proposers through BidSync. Proposers shall respond to the final written RFP and any exhibits, attachments, and amendments.

N. RIGHT OF REJECTION

The County reserves the right, at its sole discretion, to reject any and all proposals or to cancel this RFP in its entirety.

Any proposal received which does not meet the requirements of this RFP may be considered to be nonresponsive, and the proposal may be rejected. Proposers must comply with all of the terms of this RFP and all applicable State and County laws and regulations. The County may reject any proposal that does not comply with all of the terms, conditions, and performance requirements of this RFP.

The County reserves the right, at its sole discretion, to waive variances in proposals provided such action is in the best interest of the County. Where the County waives minor variances in proposals, such waiver does not modify the RFP requirements or excuse the proposer from full compliance with the RFP. Notwithstanding any minor variance, the County may hold any Proposer to strict compliance with the RFP.

O. DISCLOSURE OF PROPOSAL CONTENTS

All proposals become the property of the County, which is a public agency subject to the disclosure requirements of the California Public Records Act (CPRA, California Government Code §6250 and following). The CPRA contains limited exemptions. If you contend that any documents, as defined by the CPRA, are confidential or proprietary material and exempt from CPRA, these documents shall be clearly marked "Exempt from CPRA." Proposer shall defend, indemnify and hold the County harmless against any claim, action or litigation (including but not

limited to all judgments, costs, fees, and attorney's fees) that may result from denial of a CPRA request. If Proposer does not respond to a CPRA request or agree to do so within five (5) days, the County may disclose the requested information under the CPRA."

P. PROPOSAL EVALUATION PROCESS

The evaluation process is designed to award the procurement to the Proposer with the best combination of attributes based upon the evaluation criteria.

The County reserves the right, at its sole discretion, to request clarifications of proposals or to conduct discussions for the purpose of clarification with any or all Proposers. If clarifications are made as a result of such discussion, the Proposer shall put such clarifications in writing.

Q. AWARD OF PROPOSAL

Award will be made to the Proposer offering the most advantageous proposal after consideration of all Evaluation Criteria set forth below. This criterion is not listed in any order of preference. The County reserves the right to establish weight factors that will be applied to the criteria depending upon the order of importance. The County shall not be obligated to accept the lowest priced proposal, but will make an award in the best interests of the County after all factors have been evaluated.

Award Evaluation Criteria:

The evaluation of consultant proposals may include, but is not limited to, the following criteria:

- Qualifications and Experience of Consultant/staff 30 points
- Responsibility/Demonstrated Competence 5 points
- Understanding & Approach to Project 35 points
- Project Schedule for each Task Completion 10 points
- Previous Customer References 10 points
- Cost Proposal 10 points
- Quality and Completeness of Submitted Proposal pass/fail

R. AWARD PROCESS

The County reserves the right to make an award without further discussion of any proposal submitted. Each proposal should be initially submitted on the most favorable terms the proposer can offer. The County reserves the right to negotiate and/or include a best and final offer stage to the process.

Notwithstanding, the county reserves the right to add terms and conditions, deemed to be in the best interest of the county, during final negotiations. Any such terms and conditions shall be within the scope of the RFP and shall not affect the basis of proposal evaluations and will be incorporated in a purchase order.

Additionally, the County has the right to add interviews into this evaluation process.

The County reserves the right, at its sole discretion, to negotiate with the apparent best evaluated Proposer.

S. PROTESTS

The County encourages Suppliers to resolve issues regarding requirements or the procurement process through written correspondence and discussions. The County is committed to fostering relationships with its Suppliers to encourage an ongoing pursuit to fulfill requirements.

1) Protest Procedures:

All protests shall be typed under the protester's letterhead and submitted in accordance with the provisions stated herein. Protests may be submitted by mail or by electronic mail.

Protests submitted by facsimile will not be accepted. All protests must be addressed and submitted to both the RFP Coordinator of this solicitation and the Manager of Procurement. All protests shall include at a minimum the following information:

- a. The name, address, and telephone number of the Protester;
- b. The signature of the Protester or Protester's representative;
- c. The solicitation title and due date;
- d. Name of County employee designated as the RFP Coordinator;
- e. Identification of the statute or procedure that is alleged to have been violated;
- f. A detailed statement identifying the legal and/or factual grounds of the protest and all documentation supporting the vendor's position;
- g. The form of relief requested.

The contact information for the Manager of Procurement is as follows:

Manager of Procurement
Yolo County Department of Financial Services
120 West Main Street, Ste G.
Woodland, CA 95695

Protester's failure to comply with these procedures shall constitute a waiver of any right to further the RFP Protest and shall constitute a failure to exhaust administrative remedies.

The Manager of Procurement will review the materials in connection with the protest, assess the merits of the protest, and provide a written decision on the protest. The Manager of Procurement's decision is final.

If it is determined the protest is frivolous, the party originating the protest may be determined to be irresponsible and may be ineligible for future contracts.

2) Protest of RFP Specifications/Requirements/Terms & Conditions:

Companies who are concerned regarding irregularities or lack of clarity in specifications, requirements, terms and/or conditions of a solicitation should be brought to the attention of the County. Notice shall be provided prior to the closing date and time of the designated "question and answer period" of the proposal noted above in the Section II. Schedule of Events Chart, item#3 Deadline for Written Comments Posted on BidSync.

Notice must be clearly marked "**Notice of Protest of Specifications/Requirements/Terms & Conditions**". No requests for protests of solicitation specifications, requirements, terms and/or conditions shall be considered after the deadline stated above.

Companies who fail to do so forfeit all rights to protest a solicitation or any subsequent award based on the specifications, requirements, terms or conditions of this solicitation. In the event of the protest for specifications, requirements, terms and/or conditions is denied and the protester wishes to continue in the solicitation process they must still submit a bid/proposal prior to the close of the solicitation.

3) Protest of Disqualification:

Initial evaluations will determine if proposals have met the minimal requirements as indicated in this RFP. Notices will be sent to all companies who have been disqualified for not meeting the minimal requirements. Should a company disagree with the determination, notice of disagreement must be received within five (5) working days of date of notice identifying areas that are in question and how the company met the minimal requirements. Notice must be clearly marked "**Notice of Disagreement**". Companies who fail to do so

forfeit all rights in the protest process. It is at the county's discretion at the department level to make final determinations for all disqualified protests.

4) Protest of Award of Contract:

In protests related to the award of a contract, the protest must be received by e-mail or hard copy no later than 4:00 PM Pacific Time five (5) business days after the notice of the proposed contract. Notice must be clearly marked "**Notice of Protest of Award of Contract**". A review may be granted if the protest is received within the specified time and the firm/person submitting the protest is a Bidder/Offeror.

Throughout the review process, the County has no obligation to delay or otherwise postpone an award of a contract based on a protest.

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IV. TERMS AND CONDITIONS

A. QUALIFICATIONS/INSPECTION

Proposals will only be considered from firms normally engaged in providing the types of commodities/services specified herein. The County reserves the right to inspect the Proposer's facilities, equipment, personnel, and organization at any time, or take any other action necessary to determine Proposer's ability to perform. The RFP Coordinator reserves the right to reject proposals where evidence or evaluation is determined to indicate inability to perform.

B. NON-WAIVER

The County's failure to address errors or omissions in the proposals shall not constitute a waiver of any requirement of this RFP by the County.

C. FEDERAL, STATE, AND LOCAL LAWS

The successful proposer must operate in conformity with all applicable, federal, state, and local laws, ordinances, orders, rules, and regulations pertaining to work. It is the responsibility of the awarded proposer to ensure that all permits and/or licensees required for operation are valid and current. Failure to comply with this provision may be cause to cancel any contract awarded, and award will be made to the next lowest, responsive, responsible proposer.

D. GOVERNING LAW

If an award is made, the contract will be made in the County of Yolo and shall be governed and construed in accordance with the laws of the State of California. Any action relating to the Contract shall be instituted and prosecuted in the courts of Yolo County, California.

E. ADDITIONAL APPLICABLE LAWS:

1) The Contractor will comply with the equal opportunity clause provided under 41 CFR 60-1.4, in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR, 1964-1965 Comp., p. 339), as amended by E.O. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

2) Contractor shall assure compliance with the Americans with Disabilities Act (ADA) of 1990, which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA. (42 U.S.C. 12101 et seq.)

3) Contractor must prove that they have complied with the Disabled Veteran Business Enterprises law. State law requires that contracts have participation goals of 3% for Disabled Veterans or made a Good Faith Effort. (Requirements specified in Exhibit G)

4) The Contractor will file the required certification under the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352), ensuring that the parties will not use, and have not used, Federal appropriated funds to attempt to influence any person or organization in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. 1352. The parties must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award.

5) The Contractor shall conform to any additional restrictions or conditions that may be imposed upon the County by the Federal or State government, including but not limited to the following: Contract Work Hours and Safety Standards (40 U.S.C. 3701-3708), Rights to

Inventions Made Under a Contract or Agreement (37 CFR Part 401), and the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387.

- 6) The Contractor is required to comply with Federal Regulations 2 CFR Part 180 and 2 CFR Part 3000.
- a) Contractor is required to verify that none of the Contractor, its principals (defined at 2 CFR §180.995), or its affiliates (defined at 2 CFR §180.905) are excluded (defined at 2 CFR §180.940) or disqualified (defined at 2 CFR §180.935).
 - b) The Contractor must comply with 2 CFR Part 180, Subpart C and 2 CFR Part 3000, Subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
 - c) This certification is a material representation of fact relied upon by the County. If it is later determined that the Contractor did not comply with 2 CFR Part 180, Subpart C and 2 CFR Part 3000, Subpart C, in addition to remedies available to (name of sub-awarding State agency, if applicable), and County, the Federal Government may pursue available remedies, including but not limited to suspension and/or disbarment.
 - d) The Contractor agrees to comply with the requirements of 2 CFR Part 180, Subpart C and 2 CFR Part 3000 Subpart C throughout the period of this contract. The Contractor further agrees to include a provision requiring such compliance in its lower tier covered transactions.
- 7) The Contractor shall make the maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired –
- a) Competitively within a timeframe providing for compliance with the contract performance schedule;
 - b) Meeting contract performance requirements; or
 - c) At a reasonable price.

Information about this requirement, along with the list of EPA-designate items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>

- 8) The Drug-Free Workplace Act of 1990 ("the Act") requires the Contractor to comply with the requirements of Government Code Sections 8350-8357 and the requirements of federal law as implemented in 28 CFR Part 67, Subpart F, Sections 615 and 620.

By responding to this RFP Contractor certifies that no more than one (1) final unappealable finding of contempt of court by a Federal court has been issued against Contractor within the immediately preceding two-year period because of Contractor's failure to comply with an order of a Federal court, which orders Contractor to comply with an order of the National Labor Relations Board. (Pub. Contract Code §10296)

- 9) The Contractor must certify it has not been suspended or debarred from participation in federal grants.

10) Contractor must comply with the Darfur Contracting Act of 2008. All RFPs for goods and services must address the requirements of the Darfur Contracting Act of 2008 (Act). (Public Contract Code sections 10475, et seq.; Stats. 2008, Ch. 272). The Act was passed by the California Legislature and signed into law by the Governor to preclude State agencies generally from contracting with “scrutinized” companies that do business in the African nation of Sudan (of which the Darfur region is a part), for the reasons described in Public Contract Code section 10475. (See Requirements & Certifications attached in Exhibit H)

11) Contractor hereby declares that it is not an expatriate corporation or subsidiary of an expatriate corporation within the meaning of Public Contract Code Section 10286 and 10286.1, and is eligible to contract with the State of California.

12) It is unlawful for any person engaged in business within this state to sell or use any article or product as a “loss leader” as defined in Section 17030 of the Business and Professions Code. (PCC 10344(e).)

F. NON-DISCRIMINATION

There shall be no discrimination as to race, sex, color, creed, age or national origin in the operations conducted under any resulting contract.

G. PUBLIC AGENCY

It is intended that other public agencies (i.e., city, special district, public authority, public agency and other political subdivisions of the State of California) shall have the option to participate in any agreement created as a result of this RFP with the same terms and conditions specified, including pricing. The County shall incur no financial responsibility in connection with a purchase order from another public agency. The public agency shall accept sole responsibility for placing orders and making payment to the vendor.

H. ADDITIONAL PURCHASES

Following the award, the County may dispense with separate bidding for additional purchases of like item(s) from the successful Proposer within a twelve (12) month period from the initial purchase date provided that the Vendor agrees to provide the like item(s) at the same discounted price and under the same terms and conditions as the previous award.

I. EXTENSIONS

The County reserves the right to extend any contract past the end term date upon mutual agreement and under the same pricing, terms and conditions for continual service and supplies while a new contract is being solicited, evaluated and/or awarded for a period not to exceed six (6) months.

J. PRICE ESCALATION

All prices are firm for a period of two (2) years from the date of award.

K. INVOICES AND PAYMENT TERMS

Invoices are to be mailed to the County department(s) specified on the resulting purchase order, blanket purchase order or contract. All invoices must include the purchase order number, blanket purchase order number, or contract number, product description and reference to back ordered items. Failure to comply may result in delayed payments.

The County will make payment on a Net 30-day basis unless a cash discount of one-half percent (1/2%) or greater, which amounts to \$2.50 or more, is allowed for payment within not less than twenty (20) days. The payment term shall begin on the date the merchandise is inspected, delivered and accepted by the County, or on the date a correct invoice is received in the office specified in the order, whichever is later. Prompt payment discounts shall be considered earned if payment is postmarked or personally delivered within the prescribed term. The beginning date described above shall be considered day zero for the purposes of counting days in the prescribed term.

L. COMPLIANCE

Late, incomplete, incorrect deliveries or excessive backorders will be documented, and performance evaluated when considering contract continuation or extension. Inaccurate or erroneous billing will also be documented and monitored for the purpose of evaluating performance when considering continuation or extension of contract. Failure to meet quoted delivery timeframes, or inaccurate or erroneous invoices (as determined by the Purchasing Department) may be cause for the County to cancel the balance of the awarded purchase order and award will be made to the next lowest proposer. Failure to receive County concurrence for substitutions or alternates will be documented and considered when evaluating continuation or extension of contract.

M. DEFAULT

In case of default by the awarded proposer, the County may procure the goods or services from another source and may recover the loss occasioned thereby from any unpaid balance due the selected proposer, or by any other legal means available to the County. The County may also ban selected proposer up to two years from future solicitations for default.

N. TERMINATION FOR CONVENIENCE

The County reserves the right, in its best interest as determined by the County, to cancel any contract by giving written notice to the Contractor thirty (30) days prior to the effective date of such cancellation.

O. CANCELLATION FOR UNAPPROPRIATED FUNDS

The obligation of the County for payment to a Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of the contract into a subsequent fiscal period is subject to appropriation of funds, unless otherwise authorized by law.

P. ASSIGNMENT/TRANSFER/SUBCONTRACTING

Awarded Contractor shall not assign, transfer, or subcontract any portion of the contract without the express written consent of the department. Any award issued pursuant to this RFP, and the monies, which may become due hereunder, are not assignable without the prior written approval of the County.

Q. F.O.B. POINT

All prices quoted shall be F.O.B destination, freight prepaid (proposer pays and bears freight charges, proposer owns goods in transit and files any claims), excluding sales tax. The County is exempt from Federal Excise and Transportation taxes.

V. INSTRUCTIONS FOR COMPLETION OF PROPOSAL

A. SUBMITTING PROPOSALS

The required method of submitting your proposal is electronically through Periscope Source formerly BidSync, at www.BidSync.com

It is the sole responsibility of the proposer to ensure their proposal reaches BidSync before the closing date and time. If you have any questions regarding the submittal of this proposal, please contact BidSync at 1(800) 990-9339, or email: source-support@periscopeholdings.com for Vendor support.

Late proposals shall not be accepted nor shall additional time be granted to any potential Proposer.

B. REQUIRED PROPOSAL SUBMITTALS

The submittals requested shall be included with the proposal response. Failure to include required submittals may be cause for rejection of your proposal. The following are required for your proposal to be considered and must be labeled with the following:

1. Exhibit "A" Proposal Transmittal Letter
2. Exhibit "B" Proposal Qualification & Experience
3. Exhibit "C" Proposal Cost
4. Exhibit "D" Previous Customer References
5. Exhibit "E" Signature Page
6. Exhibit "F" Non Collusion Non Conflict of Interest Statement
7. Exhibit "G" Non-Lobbing Certification
8. Exhibit "H" Darfur Contracting Act Requirements
9. Exhibit "I" Contractor Certification Clauses
10. Exhibit "J" Exceptions

C. FORMAT PROPOSAL AND CONTENT:

The Proposer(s) shall prepare their written proposals in accordance with the instructions outlined below. Deviations from these instructions may be construed as non-responsive and may be cause for disqualification. Emphasis should be placed on accuracy, completeness, and clarity of content.

The format and content of the Proposal are as follows:

1. If provided, use the forms included in the Exhibits as well as the requirements listed above. All other submitted pages are to be single-spaced typed pages with one-inch margins. There is a 30-page limit on submittals not including previous customer references.
2. Identify the Category of the Proposal, Proposal number and Proposer name on every page submitted.
3. All pages shall be numbered sequentially.

All forms and attachments that require signatures must be signed for inclusion in the original of the Proposal package. Signature stamps are not acceptable.

D. Pricing Requirements

When preparing Proposal Cost, Contractor shall submit pricing as follows:

- 1) Pricing must be recorded on Proposal Form Cost Sheet, included as Exhibit "C" to this RFP, or on an exact duplicate thereof. The Proposal Cost Sheet shall specifically record the exact cost amounts proposed. Said proposed cost shall incorporate all cost for the proposed scope of services for the total contract period. The Cost Proposal Sheet shall record only the proposed cost as required, and shall not record any other rates, amounts, or information. It shall not record any text that could be construed as a qualification of the cost amounts proposed. If the Proposer fails to specify the Cost

Proposal Sheet as required, the County may determine the proposal to be nonresponsive and reject it.

- 2) The Cost Proposal shall be inclusive of all cost associated with the project tasks stated in this RFP including but not limited to personnel costs, administrative overhead, printing costs, attendance at meetings, travel, etc. The cost proposal shall include a complete breakdown of the anticipated overall budget for each of these task. Vendor shall present a specific “not to exceed” fixed fee for this entire project.
- 3) Additionally, the contractor shall submit a fee rate schedule for any optional tasks that may be required in this RFP. The fee rate schedule shall be inclusive of personnel costs, administrative overhead, printing costs, attendance at meetings, travel, etc.

Attachment E – Long Range Calendar

Yolo County Climate Action Commission

Long Range Calendar 2024

UPDATED – May 24, 2024

Month	Topics
January	<p style="text-align: center;">Interdepartmental Green Team Meeting #2 Discuss CAAP Community Conversation Series Outcomes Review DRAFT CAAP Table of Contents Review Memo on Implementation and Monitoring Plan</p>
February	<p style="text-align: center;">Briefing Board of Supervisors Members on CAAP Community Conversation Outcomes Approve Updated Emission Reduction and Adaptation Measure + Action List Review Natural and Working Lands Outreach Summary</p>
March	<p style="text-align: center;">Review Phasing of Approved CAAP Measure + Action List Approve Additional ARP Funding Allocations Update on Early Action Projects</p>
April	<p style="text-align: center;">Interdepartmental Green Team Meeting #3 Presentation to Board of Supervisors on Draft CAAP (<i>Prioritization Criteria, and Reduction and Adaptation Measures</i>) and Proposed Landfill Fee Concept for CAAP Funding April 9th Presentation of Awards for the CAAP Calendar Youth Art Contest Presentation on the 2024-2028 Yolo County Strategic Plan Update on the Greenhouse Gas (GHG) Inventory Update</p>
May	<p style="text-align: center;">Water-Climate Nexus/Groundwater Sustainability in Yolo County (<i>Kristin Sicke, YCFCWCD</i>) Update on UC Davis Fossil Fuel Free Pathway Plan Presentation Review DRAFT CAAP Workshop Materials and Process for Public Comments</p>
June	<p style="text-align: center;">Interdepartmental Green Team Meeting #4 Draft CAAP Public Workshops Weeks of June 17th and 24th Commission Review of DRAFT CAAP Start of CAAP Public Comment Period Friday, June 7th</p>
July	<p style="text-align: center;">End of CAAP Public Comment Period Wednesday, July 10th <i>TENTATIVE: Commission Meeting is Cancelled</i></p>
August	<p style="text-align: center;">Summary of CAAP Public Workshops</p>
September	<p style="text-align: center;">Interdepartmental Green Team Meeting #5 <i>TENTATIVE: Commission Adoption of CAAP</i></p>
October	<p style="text-align: center;"><i>TENTATIVE: Board Adoption of CAAP October 8th or 22nd</i> Discussion on Commission Term Renewals and Leadership</p>
November	
December	

Attachment F – Staff Report for Home Energy Efficiency Programs CBO Solicitation

STAFF REPORT

DATE: May 28th, 2024
TO: Yolo County Climate Action Commission
FROM: Yuridiana Pantoja, CivicSpark Fellow
RE: Receive update on Home Energy Efficiency Programs CBO Solicitation

RECOMMENDED ACTION

1. Receive update on Home Energy Efficiency Programs CBO Solicitation

REASON FOR RECOMMENDED ACTION

Yolo County is set to launch two key Home Energy Efficiency Programs: the Home Energy Score (HES) Pilot Program and the Weatherization Program. To facilitate the successful implementation of these programs, it is necessary to bring local governments and Community-Based Organizations (CBOs). As such, the Sustainability Division is seeking partnerships with three dedicated Community-Based Organizations (CBOs) to support in outreach, education, event coordination, feedback collection.

BACKGROUND

In 2022, County staff in collaboration with the Yolo County Climate Action Commission (Commission) identified Early Action Projects to accelerate progress towards becoming carbon negative. Among these initiatives, the Home Energy Score (HES) Pilot Program and the Weatherization Programs stand out for their potential to strengthen energy efficiency, lower energy expenditures, and enhance quality of life, particularly for rural and low-income residents.

On March 25, 2024, County staff provided built out project descriptions for both of the above programs to the Commission for consideration and approval for the allocation of American Rescue Plan (ARP) Funding for both programs. On April 9, 2024, County staff took these recommendations to the Board of Supervisors and received approval for the use of ARP funds for the HES Pilot Program and the Weatherization Program. For successful implementation of these programs, it is critical that the County partner with local CBOs to assess community buy-in and interest in conducting home energy assessments, particularly for low-income community members.

On Friday, May 24th, the solicitation period opened for applications for CBOs to apply to support the HES and the Weatherization Programs. The Sustainability Division is seeking

three dedicated CBOs to help implement these programs in the rural and unincorporated areas of Yolo County, particularly targeting low-income, elderly, and renter populations. Selected CBOs will receive a compensation of \$8,000 for their participation from Fall 2024 through Winter 2026. Interested organizations must submit a letter of application by Saturday, July 13th, 2024, detailing their organizational capacity, community experience, and event coordination experience. These partners will be instrumental in conducting outreach, coordinating community events, and providing ongoing support to program participants, ensuring the benefits reach the most vulnerable communities. More information can be found at: <https://tinyurl.com/msvvxtbb>.

Program Details

HES Pilot Program

Provide free home energy assessments for up to 50 homes, prioritizing low-income households. This program evolved from community proposals and aims to gauge interest and assess the benefits of energy efficiency upgrades and GHG reductions.

Weatherization Program

Based on insights from the 2023 CAAP workshops, will offer free DIY weatherization kits to up to 300 households over three years. This initiative focuses on helping economically vulnerable residents improve their homes' energy efficiency and indoor air quality.

Key Points:

- Compensation: \$8,000 per selected CBO for participation from Fall 2024 through Winter 2026.
- Application Deadline: Saturday, July 13th, 2024.

NEXT STEPS

Pending recommendations by the Commission, the next steps and estimated timeline for the HES program are as follows:

May 24 th , 2024	Solicitation Period Begins for CBOs/Partners
July 13 th , 2024	Solicitation Period Closes for CBOs/Partners
August 30 th , 2024	CBOs/Partners Selected
Fall 2024	Launch HES + Weatherization Program

Attachment G – 2024 Spring + Summer Outreach Sign-Up

2024 Spring + Summer Outreach Sign-Up

This chart is a working document and will be updated as more information becomes available

Month	Event	Date/Time	Location
April	Earth Day Celebration	04/20 9:00 AM - 3:00 PM	Yolo County Central Landfill 44090 County Road 28H, Woodland, CA 95776
	Dia de los Ninos	04/26 3:00 PM - 6:00 PM	Ferns Park 750 W Southwood Dr, Woodland, CA 95695
	Northern Valley Indian Health Fair	04/29 10:00 AM - 2:00 PM	NVIH Woodland 1280 E. Gibson Road, WoodlandCA 95776
May	Senior Resource Fair	05/17 10:00 AM - 12:30 PM	West Sacramento Community Center 1075 West Capitol Avenue West Sacramento, CA 95691
June	Juneteenth Celebration in West	06/14 5:30 PM - 8:30 PM	Bridgeway Lakes Park 3650 Southport Parkway, West Sacramento, CA 95691

	Sacramento		
	San Pedro Festa!	<p>06/29 3:00 PM - 10:00 PM</p> <p>06/30 11:00 AM - 6:00 PM</p> <p><i>*Staff to confirm times for sign-up slots</i></p>	<p>San Pedro Park 7-8 N. Hobson Ave West Sacramento, CA 95605</p>
July	Woodland Farmer's Market Health and Safety Fair	TBD	TBD

Attachment H – *Presentation to be Shared at a Later Date*

Attachment I – UC Davis Fossil Fuel-Free Pathway Plan Presentation

UC Davis Fossil Fuel Free Pathway Plan

Yolo County Climate Action Commission
May 28, 2024



Carla Fresquez

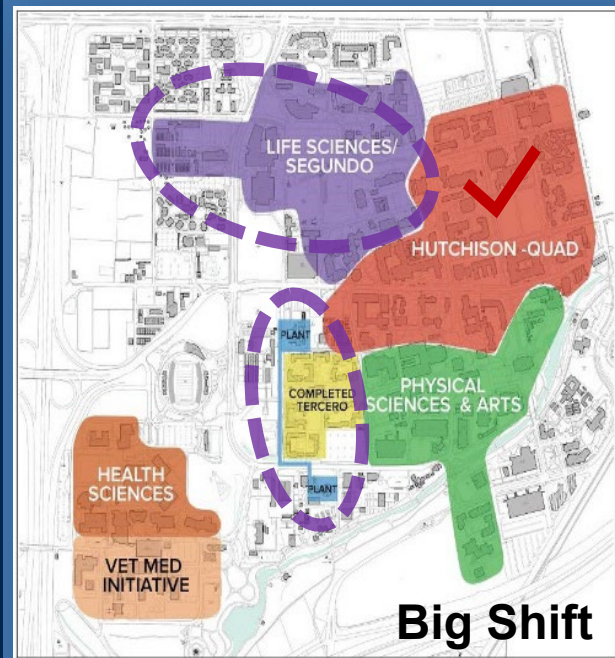
Acting Director & Engagement Program Manager
of UC Davis Sustainability
University of California, Davis

Background & Context

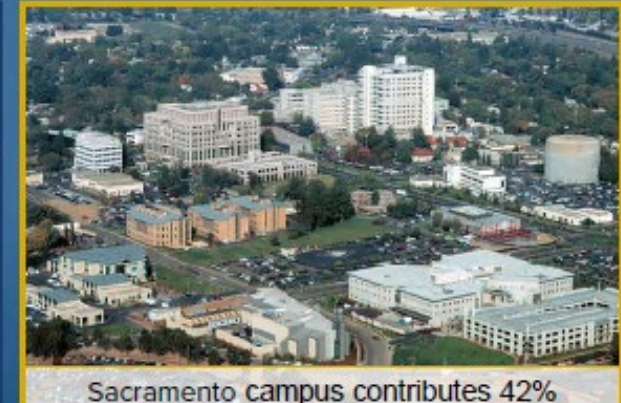
University of California, Davis

2022-23 stats:

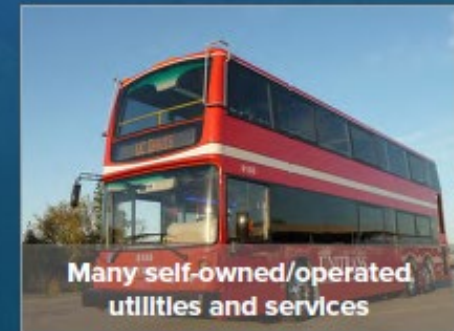
- 38,347 students (headcount)
- 25,402 employees (half are at the Medical Center)
- 2,145 hectares / 5,300 acres
- 1,180+ buildings
- 1,888,501 m² / 20,327,656 sf (in OGSF-100)
- \$6.2 billion revenue budget



Davis campus contributes 56% of GHG emissions



Sacramento campus contributes 42%



Regulatory Context

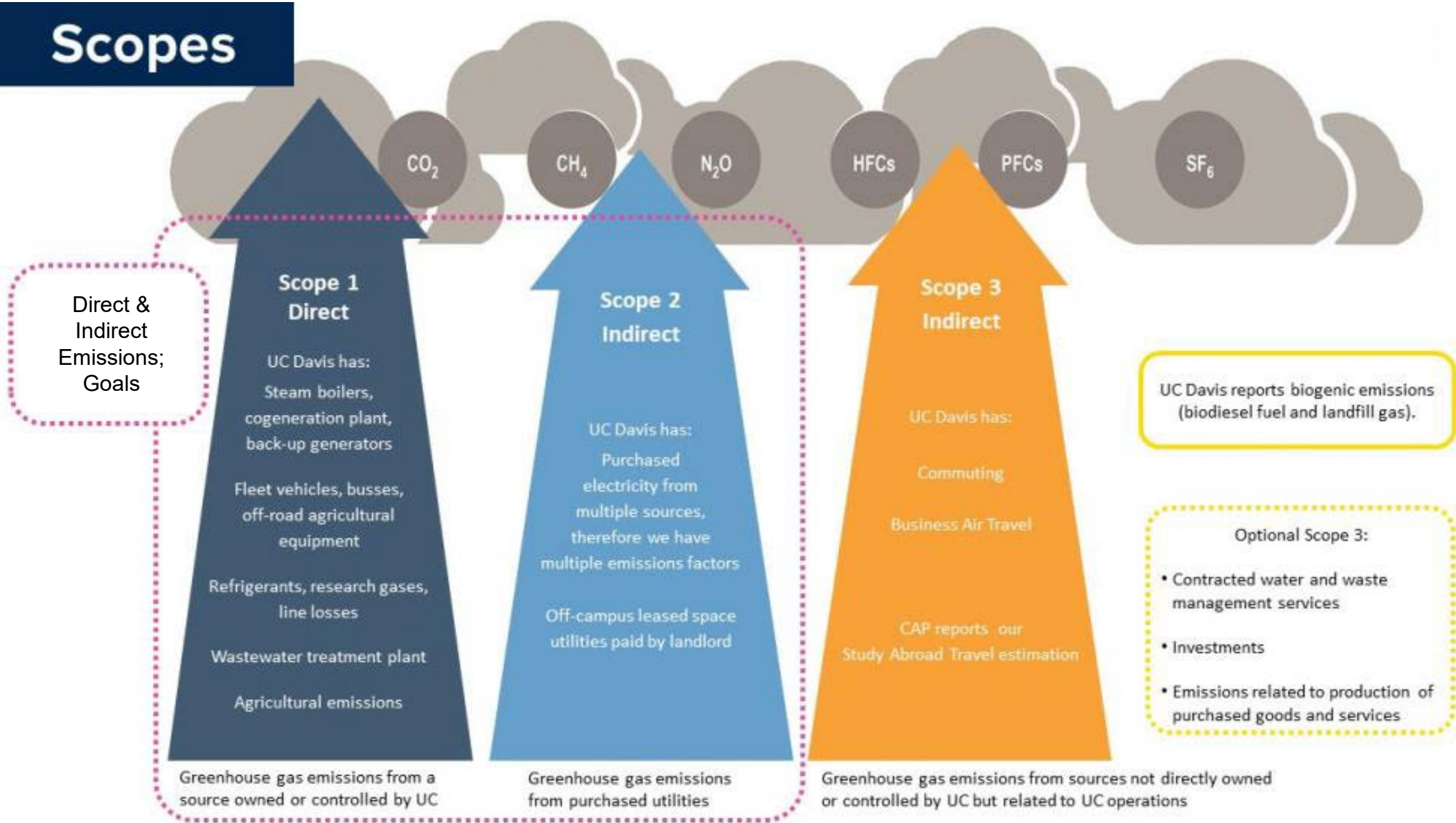
Regulations	Year	Summary
California Renewables Portfolio Standard (RPS)	2002	The RPS sets a minimum level of carbon-free renewable energy the state's electric utilities must procure each year. The California Energy Commission enforces RPS requirements for POUs and refers any violations to CARB for penalty assessment.
California Assembly Bill 32 (Health & Safety Code § 38500 et seq.)	2006	The 2006 California Global Warming Solutions Act tasks California Air Resources Board (CARB) with adopting rules to achieve technologically feasible and cost-effective statewide greenhouse gas emission reductions of 1990 levels by 2020.
California's Green Building Standards (CALGreen) Code	2009	The Green Building Standards require commercial and residential buildings to meet minimum energy efficiency standards. CALGreen Code includes mandatory measures to support the goals of the State's greenhouse gas reduction program.
Low-Carbon Fuel Standard (LCFS)	2009	The LCFS requires suppliers of vehicle fuels to reduce the lifecycle carbon intensity of their products. The LCFS is designed to decrease the carbon intensity of California's transportation fuel pool and provide an increasing range of low-carbon and renewable alternatives.
CARB Mandatory GHG Reporting	2010	In 2010, CARB enforces mandatory reporting of GHG emissions by electricity generators, fossil fuel refineries, large industrial sources, vehicle fuel suppliers, and other major sources of greenhouse gas emissions.
California's cap-and-trade program	2012	CARB introduced California's cap-and-trade program in 2012 as a core means to achieve state emission reduction goals. Under the program, CARB sets a declining cap on statewide emissions in accordance with emission reduction targets and generates a number of emission credits equal to the cap.

Advanced Clean Cars Program	2012	The regulatory suite of Advanced Clean Cars Program supports the introduction of low-emitting and zero-emitting cars such as hybrids and electric vehicles.
California Senate Bill (SB) 32 (Health & Safety Code § 38566)	2016	SB 32 increases and extends the emission reduction mandate to 40 percent below 1990 levels by 2030. SB 32 set into law the mandated reduction target in GHG emissions as written into Executive Order B-30-15. SB 32 provides another intermediate target between the 2020 and 2050 targets set in Executive Order S-3-05.
California Governor Executive Order N-79-20 – Zero Emission Vehicle Sales	2020	In 2020, the Governor set the goal that by 2035, 100 percent of passenger vehicles and truck sold in California be zero-emission vehicles (BEV, HFC, etc.). In 2022, the Governor instituted additional intermediary deadlines ⁵⁶ for achieving 100 percent ZEV sales: 35 percent by 2026 and 68 percent by 2030.
AB 1279 (The California Climate Crisis Act)	2022	The California Climate Crisis Act, would declare the policy of the state both to achieve net zero greenhouse gas emissions as soon as possible, but no later than 2045, and achieve and maintain net negative greenhouse gas emissions thereafter, and to ensure that by 2045, statewide anthropogenic greenhouse gas emissions are reduced to at least 85 percent below the 1990 levels.
SB 905 and SB 1314	2022	SB 905 (Carbon sequestration: Carbon Capture, Removal, Utilization, and Storage Program) and SB 1314 (Oil and gas: Class II injection wells: enhanced oil recovery). These bills establish a regulatory framework for the safe deployment of carbon removal and carbon capture, utilization and sequestration, while banning its use for the continued production of fossil fuels.
SB 1020 (Clean Energy, Jobs, and Affordability Act)	2022	SB 1020 enhances the state's commitment to switching to zero-emission sources of electricity by specifying timelines and milestones.
AB 1757 (California Global Warming Solutions Act: climate goal for natural and working lands)	2022	AB 1757 requires the state to develop an achievable carbon removal target for natural and working lands.



Greenhouse Gas Emissions: Scopes 1, 2, & 3

Scopes



University of California Sustainable Practices Policy

20th Anniversary UC Sustainable Practices Policy

- Background:
 - **2003:** The **Regents** of the University of California approved sustainability policy **principles**, after students across the UC campuses **lobbied** for a sustainability policy.
 - **2004:** The **University of California President** formally **issued** the “Presidential Policy on Green Building Design and Energy Standards”; subsequently renamed the Sustainable Practice Policy.
 - **Today:** The UC system-wide **Sustainability Steering Committee** **oversees** the policy. **Working groups** meet regularly to discuss **implementation** and **policy updates**.

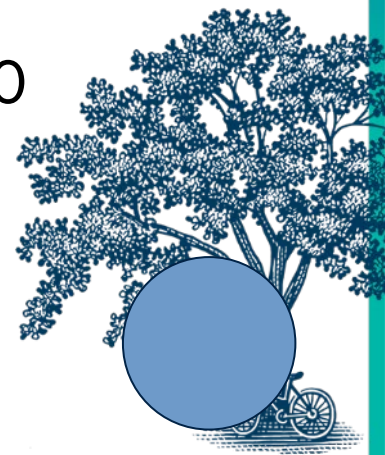
UC Sustainable Practices Policy

UC Sustainable Practices Policy Section	Added	Years Revised
Green Building Design	2004	2007, 2011, 2015, 2016, 2018, 2021, 2022, 2023, 2023, 2024
Clean Energy	2004	2017, 2020, 2023, 2024
Climate Protection Action	2006	2007, 2011, 2015, 2017, 2021, 2022, 2023
Sustainable Transportation	2006	2016, 2021
Sustainable Building and Laboratory Operations	2007	2011, 2015, 2017, 2020
Zero Waste	2007	2017, 2020, 2023
Sustainable Procurement	2007	2011, 2018
Sustainable Foodservices	2009	2011, 2015, 2020, 2022, 2023
Sustainable Water Systems	2013	2016, 2021, 2023
Sustainability at UC Health	2019	2021, 2022, 2023
General Sustainability Performance Assessment	2020	2023
Health and Wellbeing	2021	2022, 2023
Anti-Racism, Diversity, Equity	2023	

Climate Action Section of Policy: UC Davis GHG Emissions

Policy Goals – major revision in 2023

- Achieve **90% reduction** in total emissions (Scopes 1, 2, & 3) by **no later than 2045** relative to a 2019 baseline year
- Prioritize Scope 1 – **controlled or owned by UC Davis** – over purchased utilities
- **Establish benchmark goals** - Submit to UC Office of the President Scope 1 GHG reduction targets for calendar years 2030, 2035, and 2040
- **No more purchased offsets** - Prioritize direct reductions, carbon offsets can only be used to meet California Air Resource Board (CARB) regulatory requirements



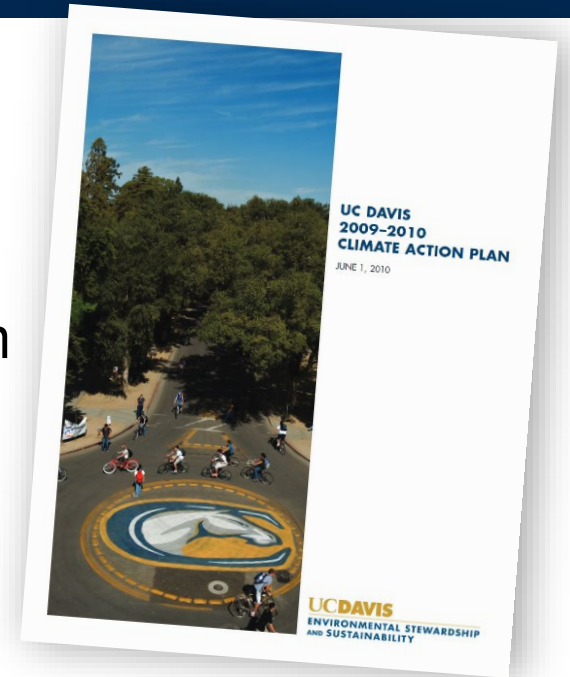
Where we're at ... and where we need to go

■ Previously

- UC Davis Climate Action Plan emphasized conservation & efficiency as well as sequestration, & mitigation, including offsets & CEQA
- UC system-wide Carbon Neutrality Initiative, 2020/2025 goal

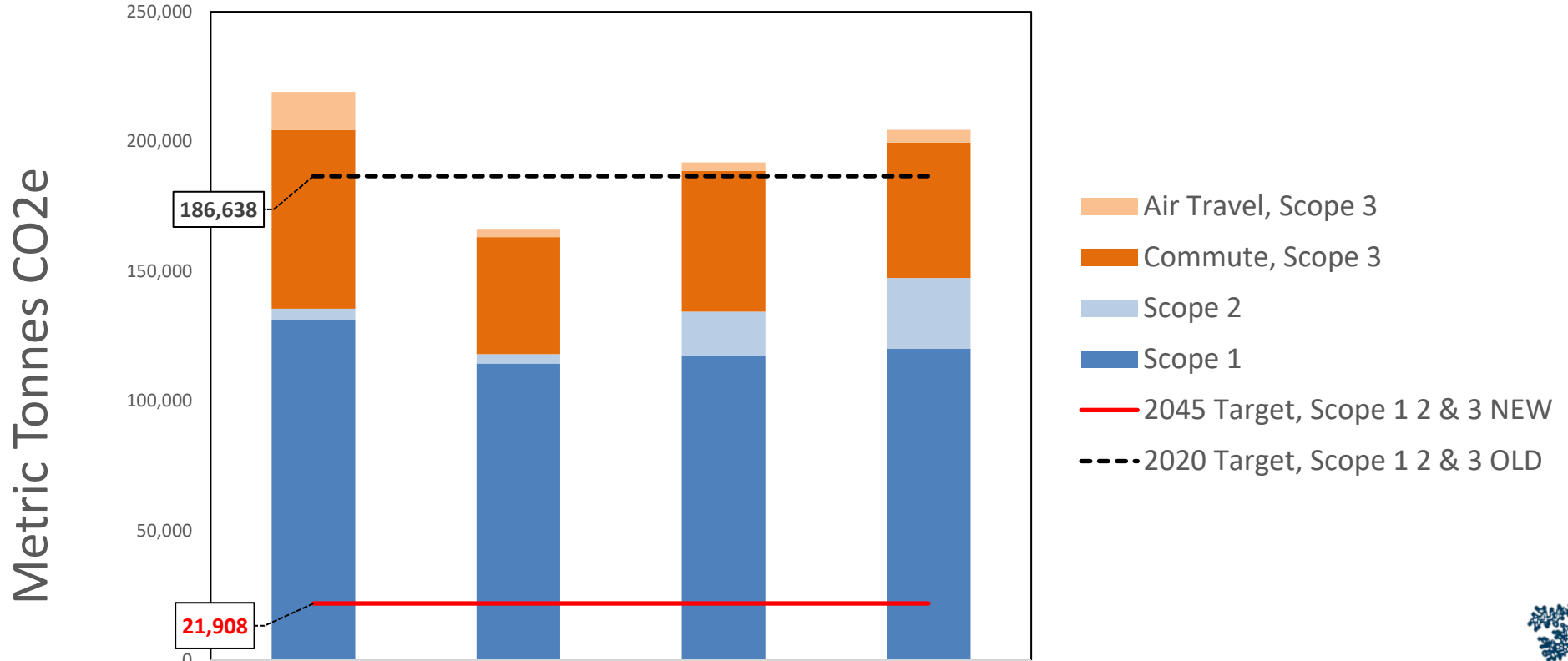
■ Looking forward

- Cutting emissions, electrification, infrastructure overhauls; Little to no reliance on offsets
- UC Davis Climate Action Plan revision



Where we're at ... and where we need to go

UC Davis Greenhouse Gas Emissions by Scope



	2019	2020	2021	2022
Air Travel, Scope 3	14,675	3,140	3,238	5,012
Commute, Scope 3	68,919	45,112	54,254	52,151
Scope 2	4,414	3,563	17,150	27,224
Scope 1	131,073	114,449	117,287	120,166
2045 Target, Scope 1 2 & 3 NEW	21,908	21,908	21,908	21,908
2020 Target, Scope 1 2 & 3 OLD	186,638	186,638	186,638	186,638



Planning for a Plan

Meet the CACS

- The Campus Advisory Committee on Sustainability (CACS) has several advisory charges:
 - Advance our campus engagement with the UN SDGs
 - Communicate and outreach to the UC Davis community
 - Improve our campus sustainability performance overall, across sectors (as measured in STARS)
 - Identify and recommend D/E/I strategies and principles in all aspects of our sustainability programs
- + ***Identify 95% fossil-fuel free pathway(s) and move UC Davis toward carbon neutrality***

Read more: <https://sustainability.ucdavis.edu/about/cacs>



Introduction to Fossil Fuel Free Planning

January 4, 2022

Dear Camille and Jim,

*I write in your capacity as co-chairs of the Campus Advisory Committee on Sustainability (CACs), to ask that you **prepare a plan to end use of fossil fuels at UC Davis**. This plan should identify specific actions that we can take on each campus to end our use of fossil fuels using current or emerging technologies and leveraging strategies and projects that have already been identified and are underway. The plan should also include information about budget implications to the extent possible. The plan should be completed by December 31, 2022.*

Please actively engage campus subject matter experts, the Campus Advisory Committee on Sustainability, and the UC Davis Health advisory sustainability committee. Vice Chancellor Ratliff will work with you, as needed, to establish budget authority to engage an external consultant as needed.

I appreciate your leadership of this critical planning effort.

*Best regards,
Gary S. May
Chancellor
University of California, Davis*



Advisory Committee (CACCS) Definition

■ Fossil Fuel-Free Definition

Fossil Fuel-Free for UC Davis for the 2022 planning phase means 95% no fossil fuel use as measured annually for all UC Davis operations (Scope 1) and all UC Davis purchased utilities (Scope 2), against a baseline of 2019 fossil fuel use. The plan will include

public input on fossil fuel-free definitions for our commuting and air travel emissions. The plan will acknowledge the need to track emissions for other Scope 3 sources and begin to set goals for these emissions sources, and devise policy recommendations that can already be implemented now while we improve on our ability to track Scope 3 emissions.

NOTE: The CACS definition does not articulate a performance date; that is part of the planning process.

May 2022: UC Academic Senate petitions the Regents to reduce on-campus fossil fuel combustion **by at least 60% of current levels by 2030 and by 95% of current levels by 2035.**

CAL AB1279: **Requires 85% reduction, against 1990 benchmark, of GHG emission levels by 2045.**

May 2023: UC Office of President mandates direct campus decarbonization replacing carbon neutrality goals **by at least 90% of 2019 Scope 1 GHG emission levels by 2045.**

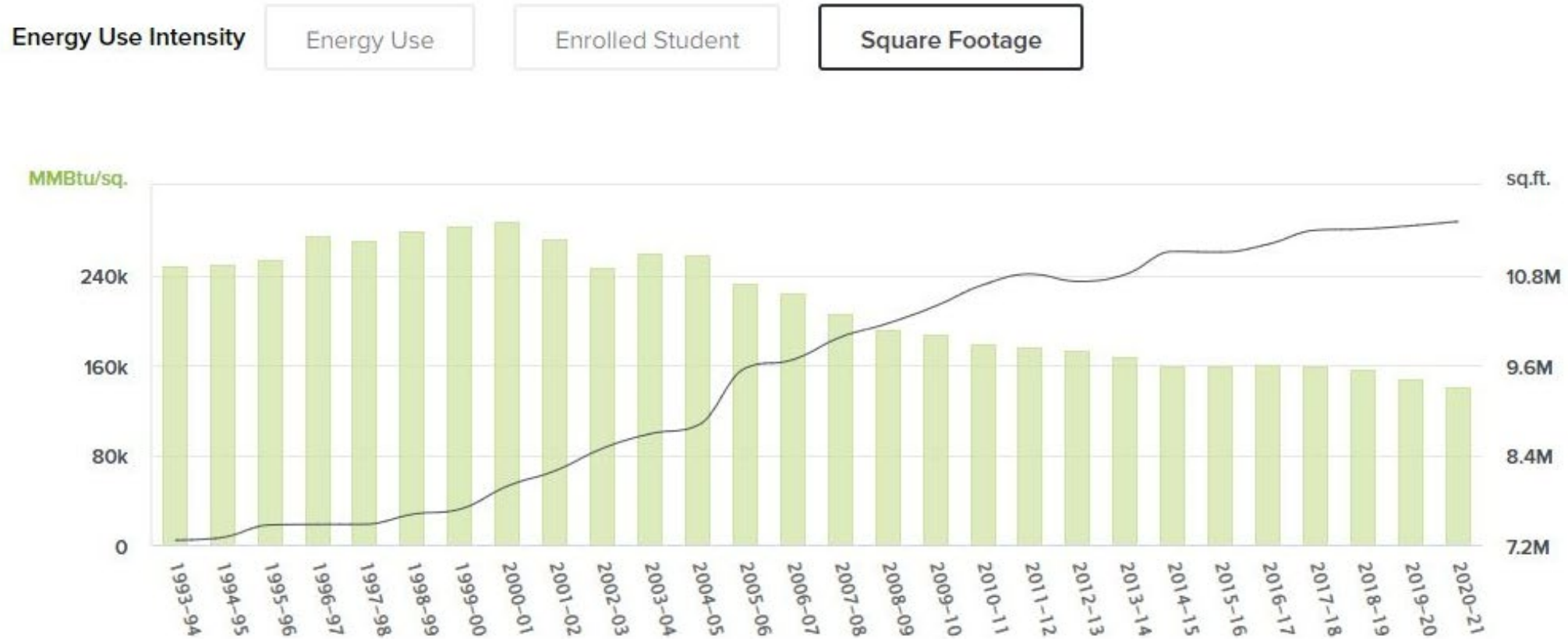
UC Davis Research – prior and on-going

CNPRC Energy Study	2011	Davis
Campus Heating & Cooling Systems Energy Planning (Burns & McDonnell and FVB study)	2014	Davis
Campus Heating Study (Steam to Hot Water Conversion) - AEI	2018	Davis
CNPRC Steam System Assessment & Energy Master Planning	2018	Davis
Hot Water Quad Loop and Hutchison Conversion – Campus Heat Exchanger and Distribution Piping	2019	Davis
Hot Water Quad Loop and Hutchison Conversion – Building Conversion	2020	Davis
Pre-Preliminary Design Phase Study for LTHW at Sprocket District	2020	Davis
Large Solar Power Plant studies: Energy Projection and PV Cost Analysis (11/2001); Campus Solar Power Farm (5/2013); UC Solar Procurement (8/2014); Large Campus Solar Power PV Project (1/2013)	2014	Davis
Unitrans Bus Electrification & Site Improvements	2019	Davis
Campus Electrical Reliability and Improvements Study and Electric Vehicle Study	2021	Davis

On-going Actions

Campus square footage growth (black line) and energy use intensity (green bars) since 1993. More data and graphs are publicly available on the Campus Energy Dashboard: <https://ceed.ucdavis.edu/energystory/>

Campus Energy Use Intensity



Operational Shareholders

- University of California – Office of the President
- Campus Planning and Environmental Stewardship
- Design and Construction Management
- Utilities - Energy and Engineering
- Facilities Maintenance
- Supply Chain Management
- Environmental Health and Safety
- Associated Students of UC Davis
- Athletics – ICA Facilities
- Campus Recreation
- Transportation Services
- UC Davis Health – Facilities Design & Construction
- UC Davis Health – Plant Operations and Maintenance
- UC Davis Health – Sustainability
- Student Housing and Dining Services
- California National Primate Research Center
- College of Agricultural and Environmental Sciences
- Global Affairs
- City of Davis
- Yocha Dehe Wintun Nation
- Yolo County

FFFPP - Management

- **Staff lead authors** on chapters; asked to consult subject matter experts on and/or off campus
- **Faculty peer review** of chapters
- Using a modified version of an Agile/sprint project management method
- Managing potential or perceived **conflicts of interest** with a **disclosure** form
- **December deliverable:** a plan document for shifting from 95% of fossil fuel use for our business operations
 - Offer **decision-support scenarios** for operational investments that include dates and rough order of magnitude costs
 - As well as offer suggested policies and best practices for evaluation across campus stakeholders

Timeline



Finalizing Scope

Public Dissemination

- Campus Outreach
 - Town Halls
 - Film Screenings
 - Tabling
 - Town Halls
 - Workshops
 - Website
 - Campus Communications

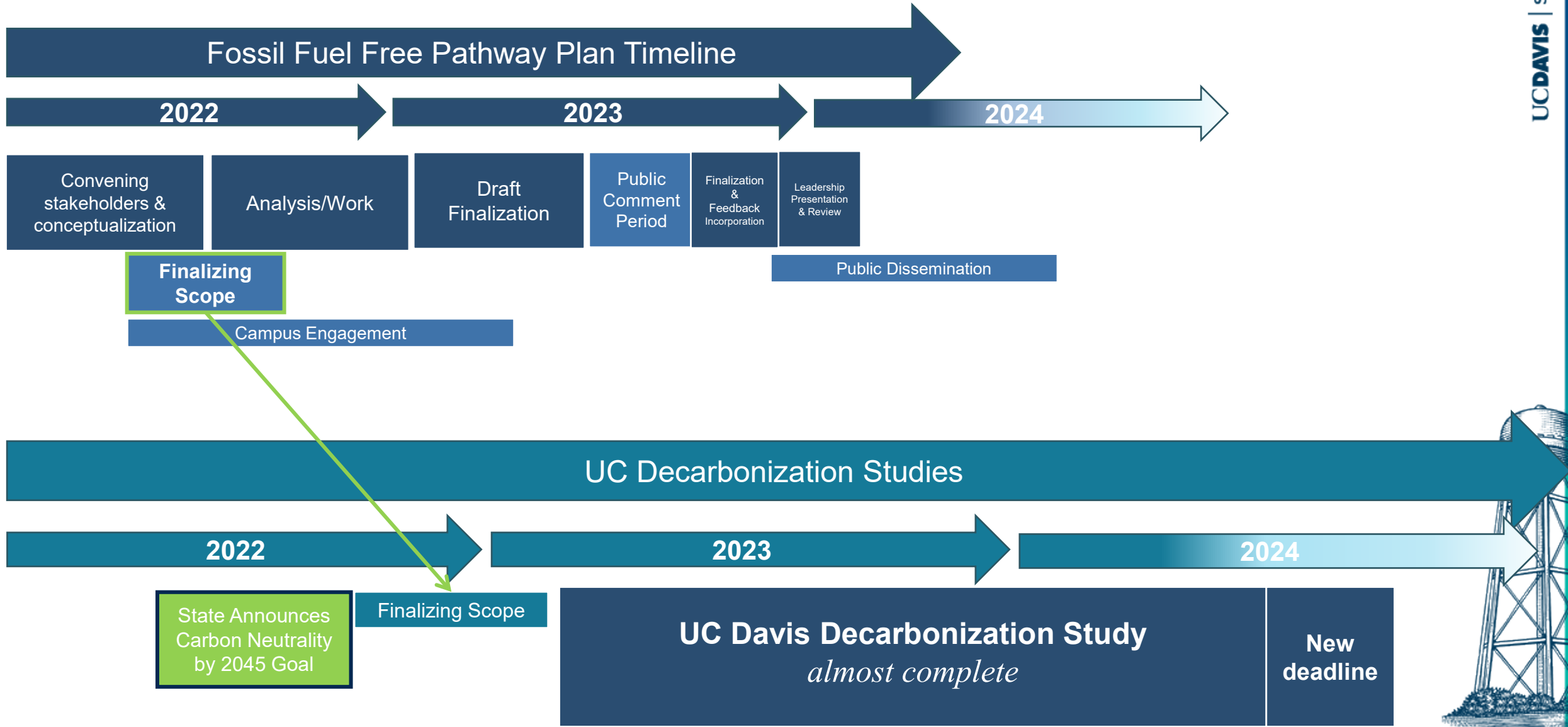


Document Status & Length

- Issued draft FFFPP in **June 2023**
- Open for public comment through **October 27, 2023**
- Received 200+ comments
- **150**-page Plan
- **1**-page Introduction | **12**-page Plan Summary
- Posted: <https://sustainability.ucdavis.edu/news/uc-davis-fossil-fuel-free-pathway-plan-posted>



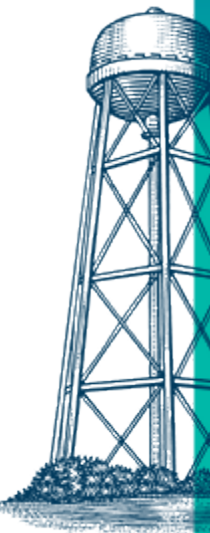
FFFPP & UC Decarbonization Study Alignment

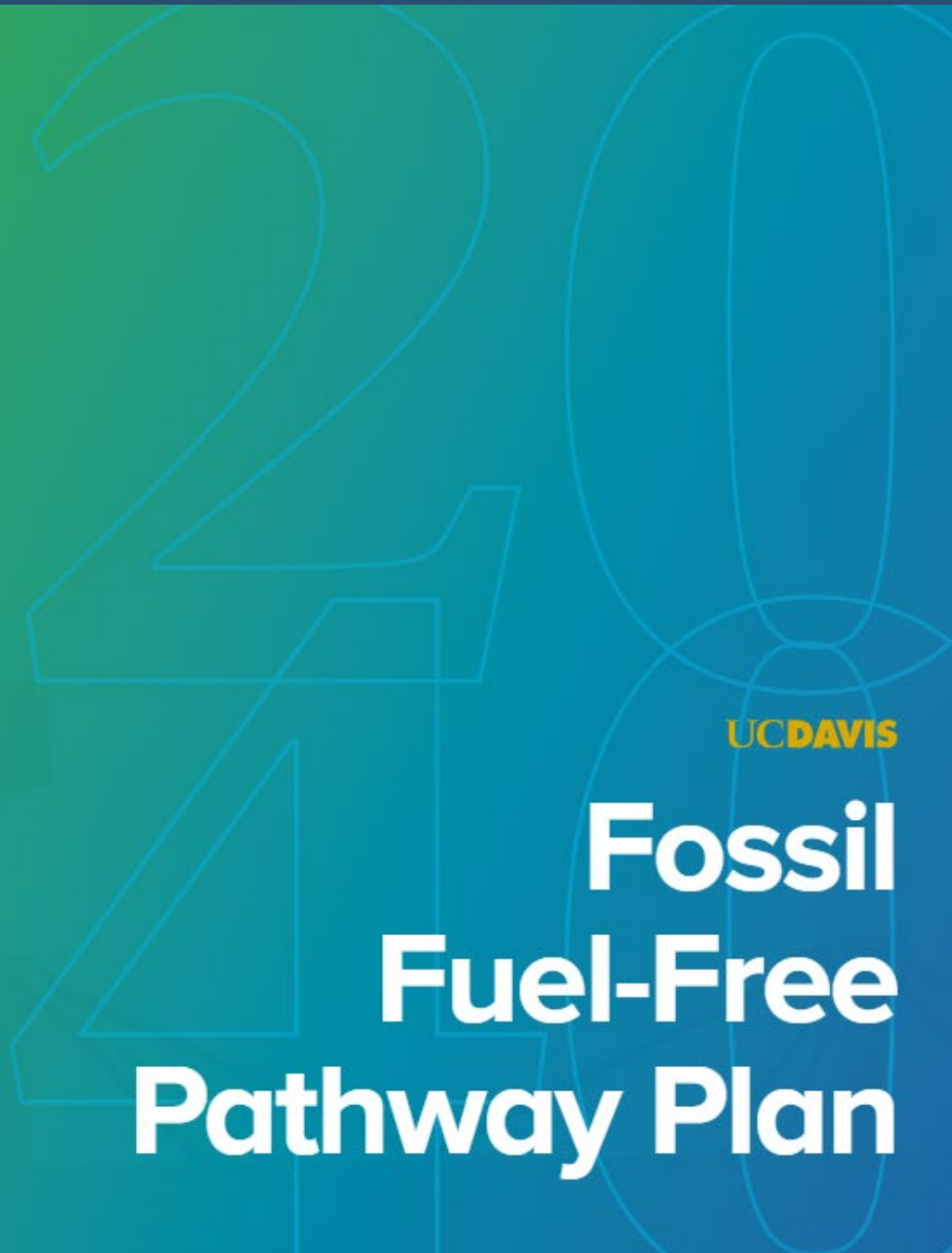


UC Davis Decarbonization Studies

- System-wide mandate; All 10 schools.
- Five Deliverables
 1. Strategy for >90% reduction in Scope 1 from fossil fuels
 2. Estimates of total capital & operational costs/savings
 3. Identify just transition of impacted workforce & equity considerations
 4. Document gaps/studies needed & Establish net-zero benchmark goals
 5. Identify opportunities for aligning academic mission and operational goals

Accomplished
by FFFPP





UC DAVIS

Fossil Fuel-Free Pathway Plan

FFFPP Summary of Goals

- Outlines a pathway for UC Davis (all six locations)
- To eliminate **95%** (more realistic than 100%)
- Of **2019** levels of fossil-fuel use (2020 – 2023, COVID interrupted)
- By **2040** (5 years ahead of the State’s 2045 renewable energy goal)
- From “**university operations**”



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33	<u>Chapter 3: Plan Background, Setting and Regulatory Context</u>
45	<u>Chapter 4: District Energy Generation and Distribution System Solutions</u>
59	<u>Chapter 5: Stand-Alone Building Solutions</u>
85	<u>Chapter 6: Fleet and Small Equipment Solutions</u>
101	<u>Chapter 7: Energy Infrastructure and Sourcing Solutions</u>
113	<u>Chapter 8: Space Management Policy and Capital Planning Solutions</u>
Appendices	
125	<u>Appendix A: Commuting Suggestions</u>
135	<u>Appendix B: Air Travel Suggestions</u>
143	<u>Appendix C: Glossary of Key Abbreviations, Acronyms, and Definitions</u>
147	<u>Appendix D: List of Planning Studies</u>







The graphic features a dark blue background with large, faint, light blue numbers '2' and '4' overlaid. The UC Davis logo is positioned above the main title. The title 'Fossil Fuel-Free Pathway Plan' is written in a large, bold, white sans-serif font.

UC DAVIS

Fossil Fuel-Free Pathway Plan

Scope: Six (6) UC Davis Locations

- Largest UC campus in terms of geographical area
- Davis: 5,300 acres
- Sacramento / Aggie Square: 160 acres
- Outlying campuses: 15 acres

-  **Bodega Marine Laboratory**
Bodega Bay, California
-  **UC Davis**
Davis, California
-  **UC Davis Health**
Sacramento, California
-  **Aggie Square**
Sacramento, California
-  **Tahoe Environmental Research Center**
Incline Village, Nevada
-  **California Animal Health & Food Safety Lab**
Tulare, California

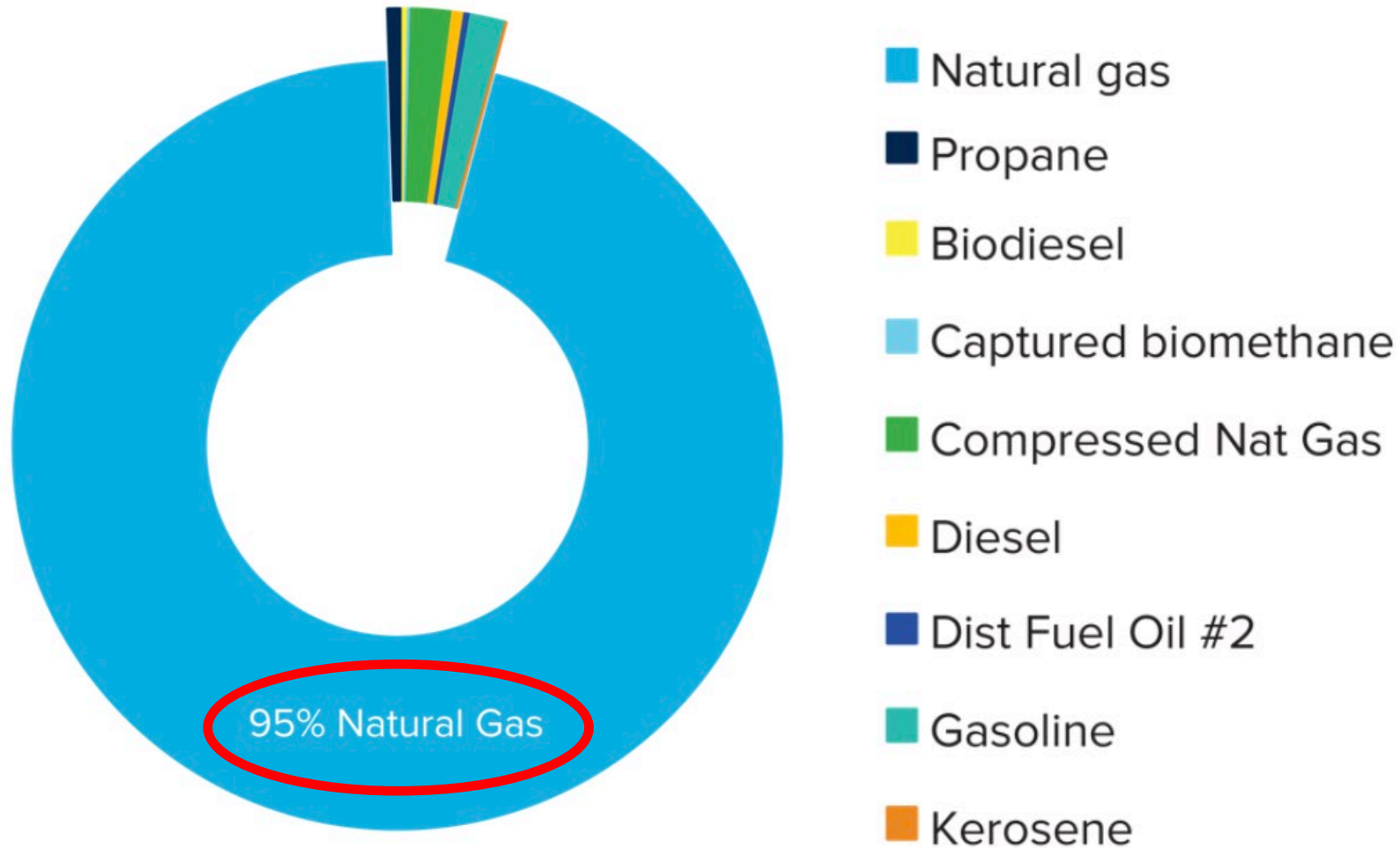


FFFPP Focuses on Natural Gas Hogs:

- Three (3) district energy plants at UC Davis
- Represent over 70% natural gas combustion
 1. Davis:
Central Campus heating & cooling plant
 2. Davis:
Heating & cooling plant at Primate Center
 3. Sacramento:
Cogeneration plant (electricity and heating)



Fossil Fuel Types by Percentage (2019)



Big Shift Business Case

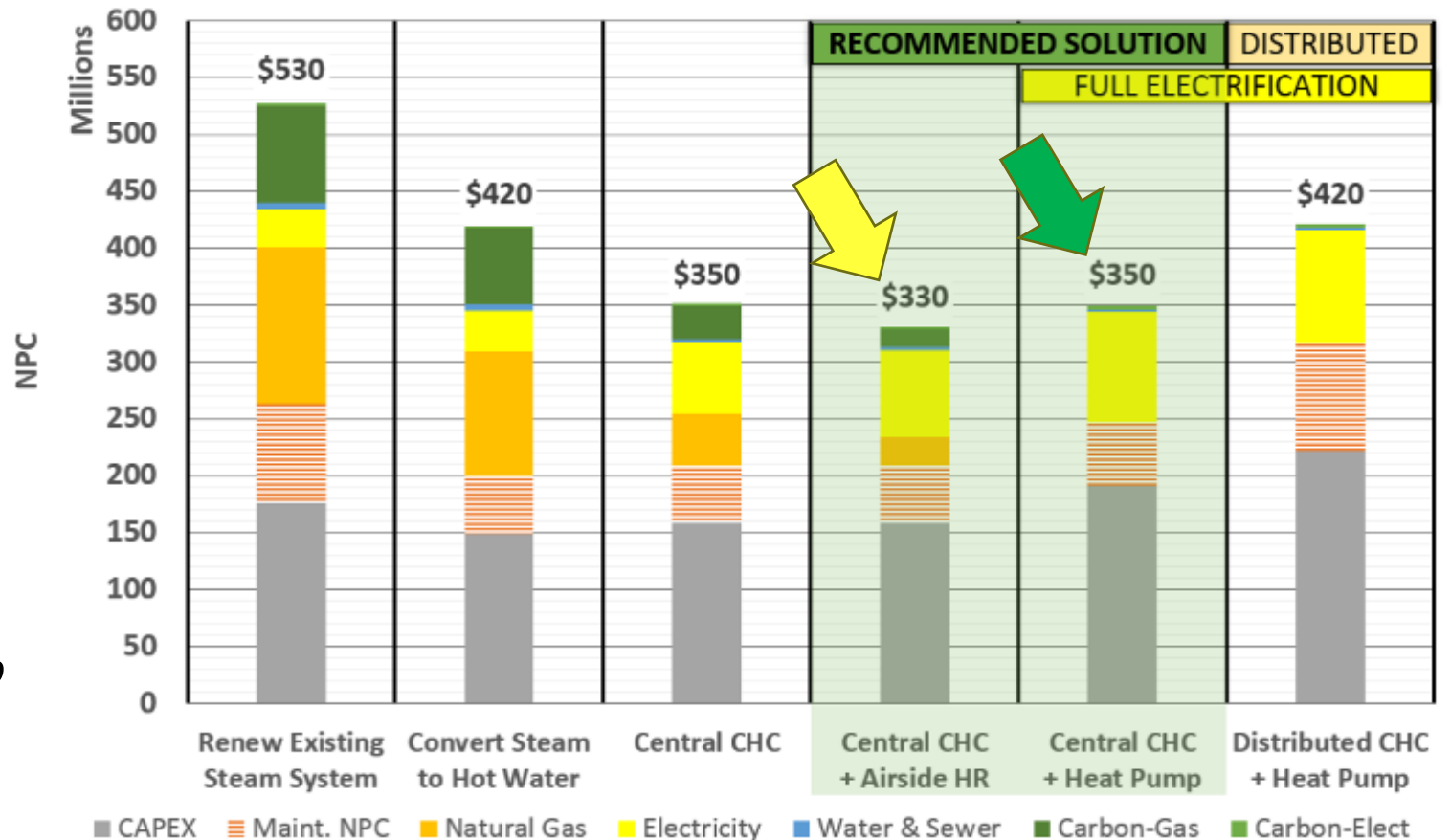
- 75 year old steam heating/cooling system
- Old, inefficient, reliant on fossil fuels, approaching end of life

bigshift

Because "shift" happens.

It's going to be messy, but it's going to be worth it.

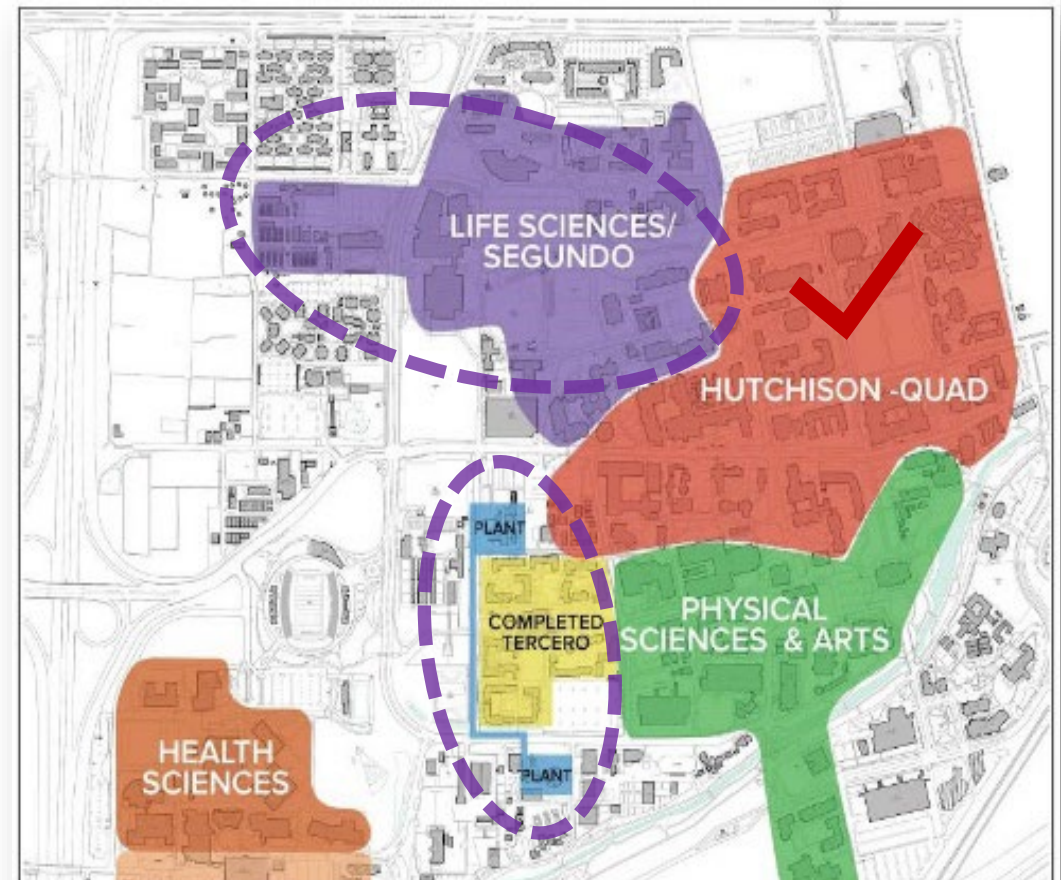
UCD Campus Heating Options - 60 Year Net Present Cost



Big Shift Business Case

- Shift from fossil fuels (natural gas) to clean energy sources (electricity)
- Phase 1 (Hutchison – Quad) complete, \$56M
- Phase 2 – Regents approval; \$55M Chancellor endorsement
- Future Phases dependent on funding and ability to execute
- Possibly 9 phases for full campus conversion
- For more, go to <https://bigshift.ucdavis.edu/about>

bigshift



Structure of the FFFPP

- Eight Primary Sections
 - Plan Summary
 - Call to Action
 - Background, Setting & Context
 - **District Energy**
 - **Stand-Alone Systems**
 - Fleet and Equipment
 - Energy Infrastructure and Sourcing
 - Space and Capital Planning

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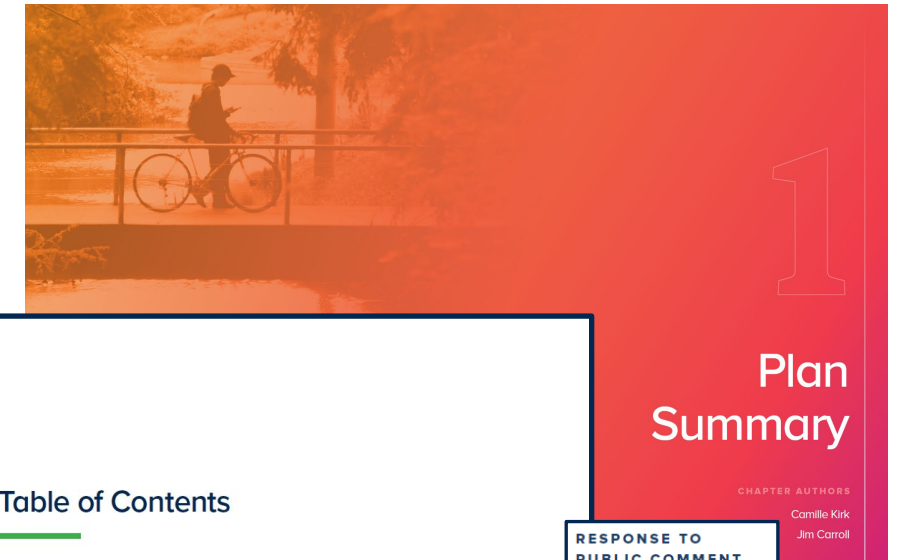


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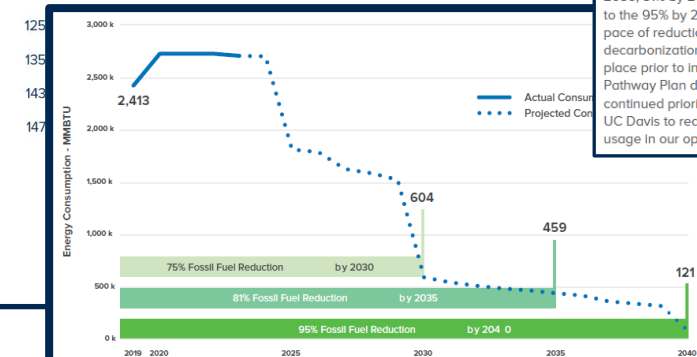
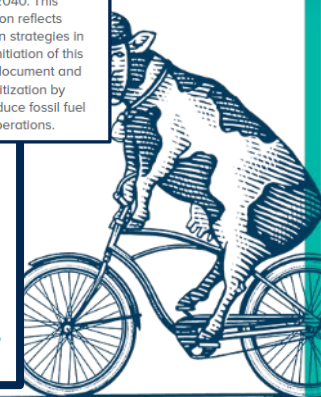


Figure 11 Fossil Fuel Use Reduction Projection - Projection reflects stacked implementation of FFFPP solutions; further described in Figure 1.2

RESPONSE TO PUBLIC COMMENT

By far the most common public commentary received during the open comment period was urgent encouragement to "move faster"; accelerate the pace for achieving the stated 95% by 2040 fossil fuel reduction goal "the climate cannot wait".

The University wants to move as fast as possible to realize a fossil fuel-free future and will continue to evaluate ways for an accelerated path to this goal. As described in this plan, currently identified solutions can allow us to achieve 75% reduction by 2030, 81% by 2035, en route to the 95% by 2040. This pace of reduction reflects decarbonization strategies in place prior to initiation of this Pathway Plan document and continued prioritization by UC Davis to reduce fossil fuel usage in our operations.



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NOTE FROM THE AUTHORS OF THIS CHAPTER

Financial challenge is real and so are the climate and financial co-benefits of upfront investment. We dedicated two paragraphs to delaying the Big Shift as an example. The separation between technical and financial here was very deliberate.

Call to Action

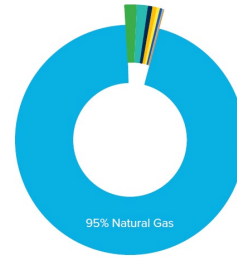
The climate emergency is the defining challenge of our generation, with cross-cutting impacts that will require significant mitigation and adaptation on the part of every aspect of society, including the educational sector. Human-caused climate change is considered a “threat multiplier” in that it exacerbates many of the significant threats facing society today, including global peace and security, terrorism, gender and racial equity, food and water shortages, public health and the spread of disease.¹ A recent survey among 10,000 youth, divided equally between countries from the Global North and South indicated that 86% of all youth polled expressed at least moderate concern about climate change, with 45% of respondents indicating that climate change affected their daily functioning.²



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How to Read This Plan

The FFFPP is organized around chapters building on each other through the various sources of fossil fuel use at UC Davis.

The chapters follow a general organization of:

- ◆ Identification of challenges and opportunities
- ◆ An accounting of previous studies and actions
- ◆ A methodology section outlining the approach the chapter team took for their analysis
- ◆ A solutions section detailing options for eliminating fossil fuel use in the chapter's sector of emissions, and
- ◆ A section for further considerations and outstanding questions that will need to be analyzed as follow-on work, or that are more appropriately related to a Climate Action Plan update.

Suggestions, rather than solutions, are offered for commuting and air travel, which are both areas of fossil fuel use that are not under direct control by UC Davis and will require consultation with and input from the UC Davis campus community in order to create solutions that fit community needs, acknowledge and address equity issues, and present viable policies and programs.

Plan Assumptions

The recommendations and analysis in the FFFPP were created with the assumption that:

- ◆ UC Davis will follow applicable state and federal regulations.
- ◆ UC Davis will adhere to the current UC Policy on Sustainable Practices¹ (UC Policy):
- ◆ UC Policy targets for energy efficiency efforts and renewable energy procurement are baseline assumptions in the plan.
- ◆ Fleet replacement is shown in three different scenarios that evaluate differences between state regulation and UC Policy targets.
- ◆ Utility costs follow the trends provided in the Energy Infrastructure chapter.
- ◆ For some of the actions and efforts proposed, a calculation is offered using the UC equity-weighted social cost of carbon, at \$246/metric tonne of carbon dioxide equivalent (MTCO₂e). A social cost of carbon is a value used to express the future costs and risks of current greenhouse gas emissions pollution.

3 Plan Background, Setting and Regulatory Context

CHAPTER AUTHORS

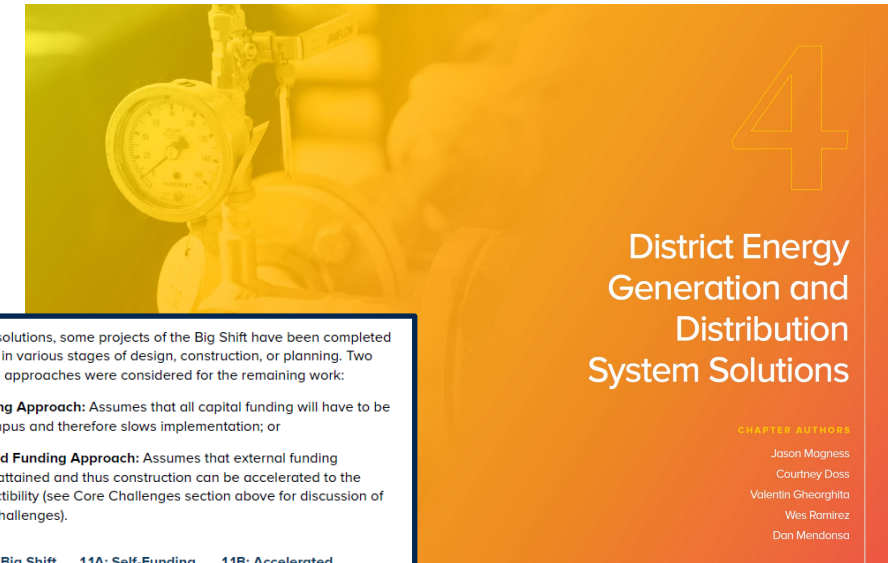
Camille Kirk
Aimee Pfohl



Structure of the FFFPP

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- Energy Infrastructure and Sourcing
- Space and Capital Planning



As noted in the solutions, some projects of the Big Shift have been completed while others are in various stages of design, construction, or planning. Two different funding approaches were considered for the remaining work:

1.1.a: Self-Funding Approach: Assumes that all capital funding will have to be provided by campus and therefore slows implementation; or

1.1.b: Accelerated Funding Approach: Assumes that external funding sources can be attained and thus construction can be accelerated to the pace of constructibility (see Core Challenges section above for discussion of constructibility challenges).

Davis Campus Big Shift Completion	1.1A: Self-Funding Approach	1.1B: Accelerated Funding Approach
Capital Expenditure, in 2020 \$	\$ 360,642,000	\$ 360,642,000
Fully Implemented year (FY)	2040	2035
Fossil natural gas in MMBtu, cumulative use from 2022 to FY	7,773,000	6,613,000
Biogas in MMBtu, cumulative use from 2022 to FY	2,246,000	1,766,000
Electricity in kWh, cumulative use from 2022 to 2040	660,574,552	860,547,312
Net O&M costs/(savings) (does not include commodity costs)	(\$ 1,419,412)	(\$ 1,419,412)

Table 4.2: Big Shift Projected Costs and Energy Demands for Various Funding Approaches

Solution 1.2: Sacramento Campus Cogeneration Conversion

To implement Option M3 as discussed earlier in the Methodology section, the projects would occur over the next 18 years in 4 primary phases:

- ◆ Phase 1: Site Infrastructure (est. 2025)
- ◆ Phase 2: Expanded CUP Building, CUP Annex, and 1st Electrical Upgrade (est. 2030)
- ◆ Phase 3: Heat Recovery Plant, Thermal Energy Storage, and 2nd Electrical Upgrade (est. 2035)
- ◆ Phase 4: Electrification (est. 2040)

RESPONSE TO PUBLIC COMMENT

During the public comment period, reviewers requested that more specific information on the projected cost for evaluated alternatives to the Big Shift, including business as usual (i.e., replacement of the aged steam system). The life cycle cost analysis completed demonstrated that the Big Shift is 1.5 times more cost effective than the business as usual scenario, when including capital, operation and maintenance, and carbon costs.



Structure of the FFFPP

- Eight Primary Sections
 - Plan Summary
 - Call to Action
 - Background, Setting & Context
 - District Energy
 - **Stand-Alone Systems**
 - Fleet and Equipment
 - Energy Infrastructure and Sourcing
 - Space and Capital Planning

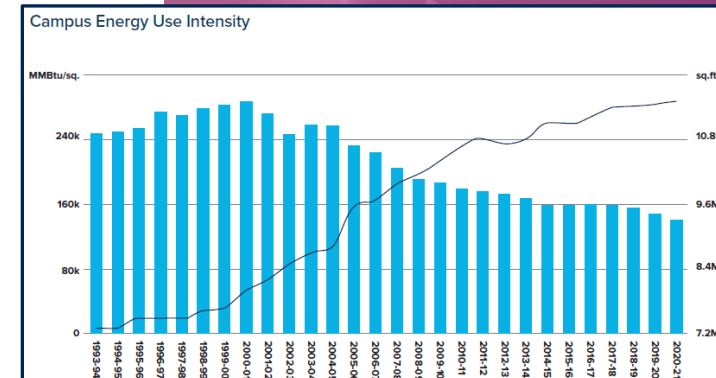


Figure 5.3: Campus square footage growth (black line) and energy use intensity (blue bars) since 1993. More data are publicly available on the Campus Energy Dashboard: <https://ceed.ucdavis.edu/energystory/>

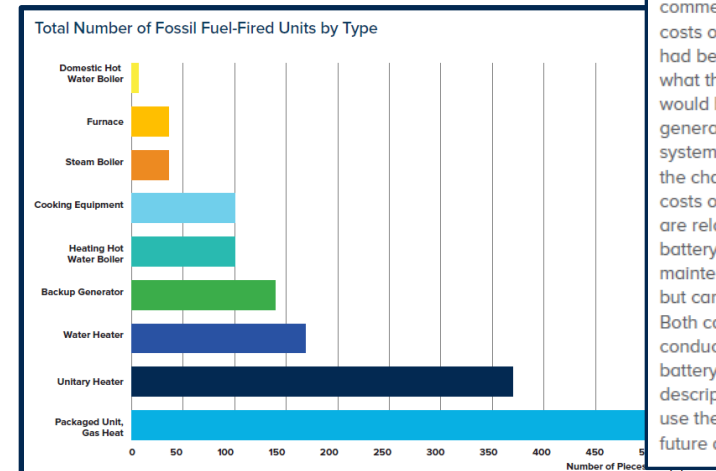


Figure 5.1: Davis-Campus Fossil Fuel-Fired Equipment by Type. This chart includes all buildings owned by UC Davis on both Davis and Sacramento campuses.

5 Stand-Alone Building Solutions

CHAPTER AUTHORS
Debra Smith
Nico Fauchier-Magnan
Wes Ramirez

RESPONSE TO PUBLIC COMMENT

During the review process, a commenter asked if the O&M costs of diesel generators had been considered, and what the breakeven point would be for replacing diesel generators with battery systems. The authors of the chapter note that O&M costs of diesel generators are relatively low and battery systems incur some maintenance costs as well - but can bring other benefits. Both campuses are currently conducting pilots with battery systems (see added description below) and will use these pilots to inform future decisions.



Structure of the FFFPP

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Maintenance Cost Comparison by Fuel Type (Sedan)

	Total Maintenance Costs (A)	Total Vehicle Miles (B)	Average Cost Per Mile (A/B)	Average Maintenance Cost
Compressed Fossil Natural Gas	30,086	93,252	\$0.32	\$15,043
Diesel	373,332	879,905	\$0.42	\$46,666
Electric	84,880	118,388	\$0.72	\$7716
Electric Plugin/Unleaded	1,118,775	2,987,606	\$0.37	\$19,628
Electric/Unleaded	246,731	766,162	\$0.32	\$18,979
Unleaded	27,401	124,141	\$0.22	\$13,700
Unleaded/Ethanol	367,758	1,186,799	\$0.31	\$24,517

Table 6.3: Table of Maintenance Cost Comparison

Fleet and Small Equipment Solutions

CHAPTER AUTHORS
Amy Burns

Solutions

Three sets of solutions are proposed for Fleet vehicles:

- ◆ Solution 3.1: Install Charging Infrastructure
 - This strategy is closely aligned with strategies identified in Appendix A: Commuting Suggestions
- ◆ Solution 3.2: Clean Vehicle Adoption
- ◆ Solution 3.3: Electrify Small Equipment

Solution 3.1: Install Charging Infrastructure

Installation of various charging stations: Design and Construction Management, Fleet, Facilities Management, Campus Planning, and departments to identify current parking locations that will require charging stations for fleet vehicles. Work with Fleet to determine the current replacement schedule of vehicles and the cost to align the installation of charging stations with attrition timelines.

- ◆ Timing (year or years of implementation)
- ◆ Installation should be staggered to meet incoming replacement vehicles using the matrices outlined in the Electric Vehicle Study conducted by Affiliated Engineers and DKS study.
- ◆ Fossil fuel type reduced: e.g., fossil natural gas/diesel/unleaded
- ◆ Amount of fossil fuel use reduced: TBD.
- ◆ Rough order of magnitude costs compared to costs of BAU: TBD

Solution 3.2 Clean vehicle adoption

Several scenarios for adopting ZEVs were considered for the UC Davis Fleet. UCOP and state of California goals outline different timelines for clean vehicle adoption, so several scenarios were considered. In addition, clean vehicles are defined differently by each entity. For example, to comply with the UC Policy on Sustainable Practices, vehicles may be ZEV, PHEV or clean-fueled, which do not match the definition of fossil fuel-free chosen for this document.



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Core Challenges and Opportunities

Achieving a nearly fossil fuel-free campus will require energy used on campus to be supplied from fossil fuel-free sources located on and off campus as well various forms of energy storage (i.e., batteries and thermal energy storage tanks). The Davis campus currently uses about 9.5 million MMBtu (950k MMBTU) of gas and 210 million kWh of electricity annually at a cost of about \$9.7M annual for gas (not including mobile sources) and about \$20.3M for electricity. The Sacramento campus uses about 11 million MMBtu (1,100k MMBTU) of gas and 13 million kWh of electricity annually. Other off-site locations also use energy. This chapter will lay out how this energy can be provided as renewable natural gas and renewable electricity, or if infrastructure changes are made to use primarily electricity, how the additional electricity needed can be supplied.

Both the Davis and Sacramento campuses own and control significant electrical and gas infrastructure, which allows for the opportunity to modify infrastructure to allow for more electricity usage on campus. Electrical grids feeding both campuses (from PG&E and SMUD) are reliable. The Davis campus also has significant land that can be used to produce renewable electricity.

7 Energy Infrastructure and Sourcing Solutions

CHAPTER AUTHORS

David Trombly
Dan Mendonsa

Solutions

4.1 Upgrade Davis Campus Electrical Infrastructure

Many of the electrification actions described in the central plant and building solutions chapters would require significant expansion of electricity infrastructure. Local requirements are discussed in each chapter, but the larger infrastructure requirements are discussed in this section.

As Davis campus electrical demands increase due to growth or further electrification, an additional transformer, switchgear, switch station, and dedicated feeder will likely be required. Depending on the rate of campus growth and electrification, the need for this electrical system expansion may coincide with the addition of the 3rd and 4th heat recovery chillers at TES. The electrical upgrades are estimated to have a cost of \$22,860,000 based on the Campus Electrical System Reliability Improvements Study (Affiliated Engineers, 2021). The recommended scenario for heating plant full electrification also includes geothermal exchange. This option will require construction of local electricity infrastructure but is not expected to require significant expansion of the campus electrical distribution system.

Transferring building load from gas to electricity at the Davis campus will cause an increase in electrical demand on campus. This will likely require upgrades in some parts of the Davis campus electrical distribution system and potentially at the Davis campus substation. This scenario will be evaluated as part of a planned future update to the electrical infrastructure planning study.

As equipment is electrified, the reliability of more equipment on the Davis campus would depend on the reliability of the campus electrical grid as well as the PG&E grid that feeds it. Recent work with PG&E to evaluate the reliability of the electrical feed to the Davis campus resulted in the conclusion that the Davis campus grid is very reliable and would only experience outages in more extreme large regional emergencies. Davis campus is connected at the transmission level and thus events like rolling outages and other curtailments even in the event of statewide generation shortfalls are unlikely. As discussed below, the price to provide full backup to campus is expensive with a fossil fuel-free solution. The campus also has significant building and load-specific backup generator capacity installed to provide power to critical loads in the event of an outage. Instead of providing central backup, campus should continue to work on identifying and providing local backup for critical buildings or critical loads within buildings.

Solution	Years to Complete	Estimated Start Year	Estimated Completion Year	Capital Cost Estimate (in 2022\$)
41 Upgrade Davis electrical infrastructure	2	2025*	2027	\$22,860,000

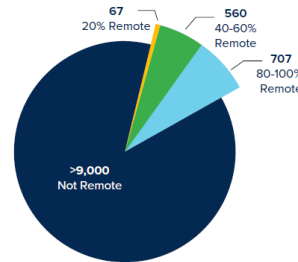
Figure 75: Solution 41 Upgrade Davis Campus Electrical Infrastructure Estimation. *Note that this solution would only be needed once the third and fourth heat recovery chillers are installed, so this infrastructure upgrade may not take place until a considerably later date.



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“The greenest building is the one that already exists.”

Carl Elefante

Former President of the American Institute of Architects, 2019

Space Management
Policy and Capital
Planning Solutions



Space Management

In the fall of 2022, UC Davis occupied approximately 19.5 million assignable square feet on campus in Davis, on campus in Sacramento, and in leased properties. Office space (23% when adjusted for non-assignable space) is the leading category of space followed closely by laboratories (21% when adjusted for non-assignable space). The changes in operations during the COVID-19 pandemic have decreased the demand for office space due to flexible work arrangements. After this operational paradigm shift, the UC Davis PPM was amended to specify that faculty, academics, and staff who spend less than 3 consecutive days (or the equivalent) working on-site should not be assigned individual workspace, but rather accommodated in shared workstations, shared offices, or hoteling spaces when on-site.

CHAPTER AUTHORS
Lorin Torbett
Debra Smith

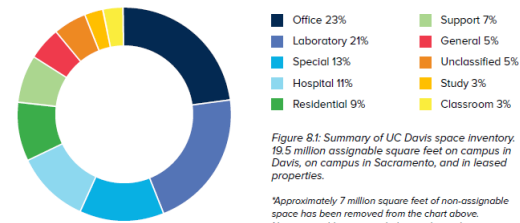


Figure 8.1: Summary of UC Davis space inventory: 19.5 million assignable square feet on campus in Davis, on campus in Sacramento, and in leased properties.

*Approximately 7 million square feet of non-assignable space has been removed from the chart above. Non-assignable space includes mechanical rooms, restrooms, circulation, custodial spaces.

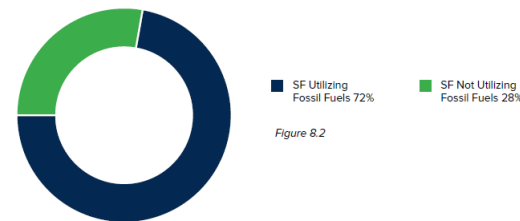
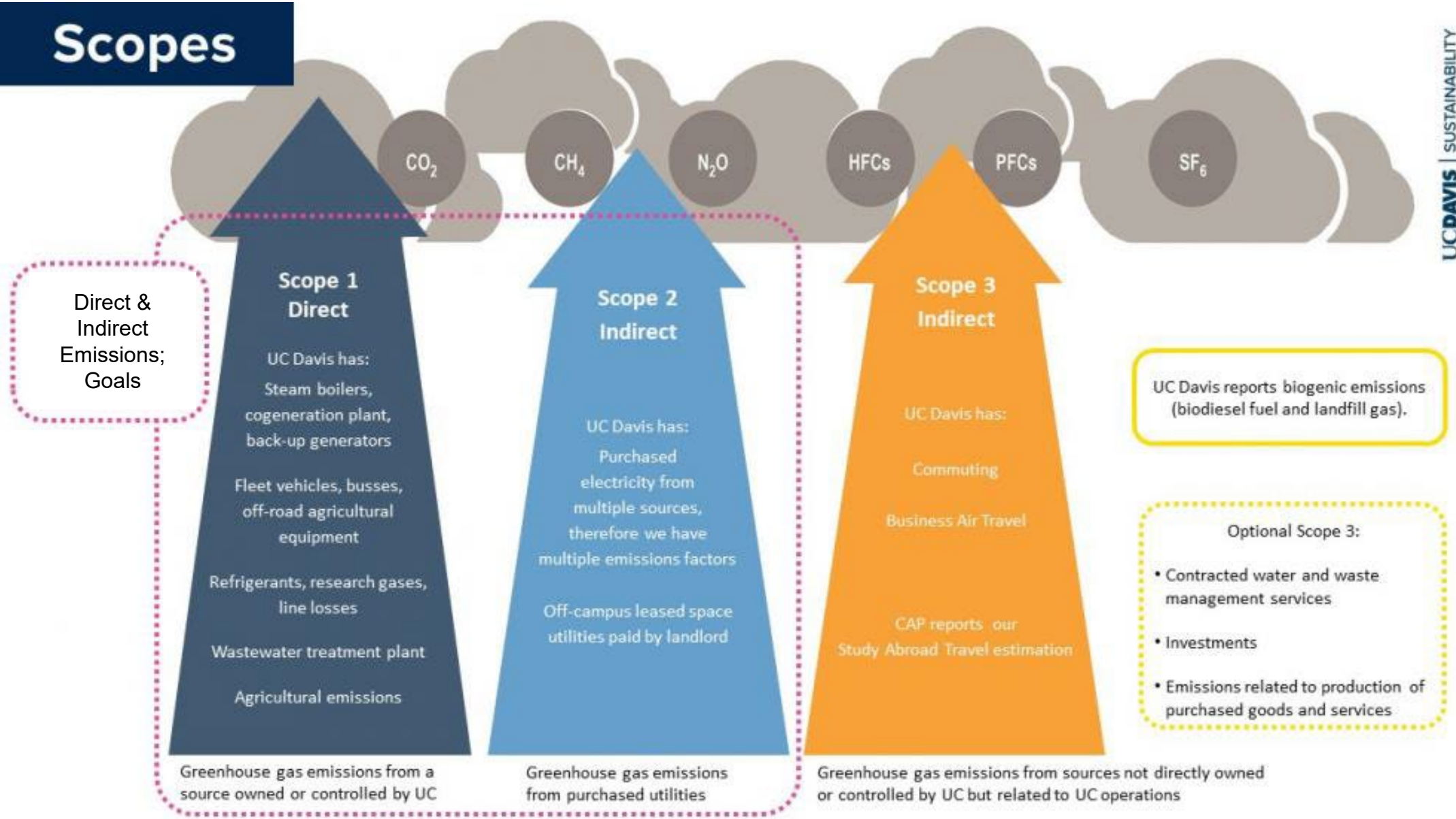


Figure 8.2



Appendices: Scope 3 Strategies

Scopes



Appendices: Scope 3 Strategies

Appendix A: Commuting Suggestions

- By far the most engagement with this section during public comment
- **Transit subsidies**
- **Fund EV Charger Installation**
- **Vehicle trip reduction efforts** Remote work has made the most significant reduction since the bicycle. UCD = 50% remote staff at least 1 day/week. UCDHealth = 8% remote staff at least one day/week.
- **Proximate Commuting**
- **Provide more on campus housing for UC Davis staff.**

One UC Davis, two very different campuses: UCD vs UCDH

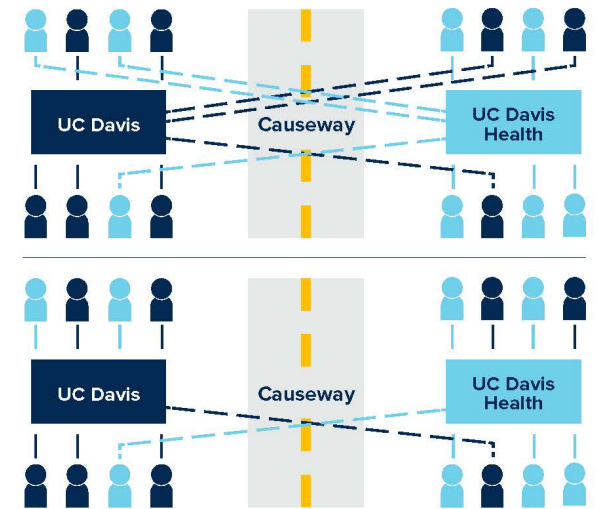
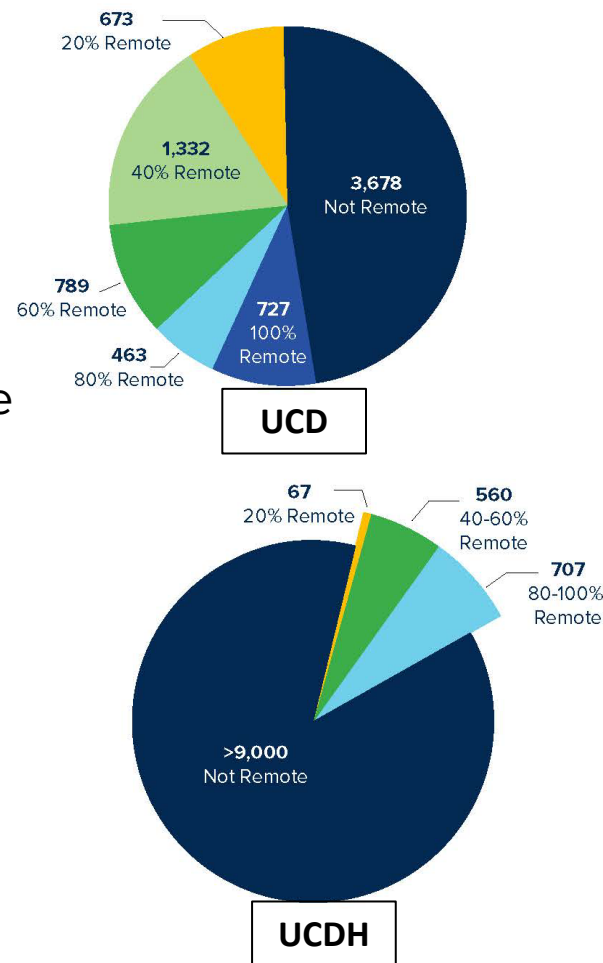


Figure A.4 Proximate Commuting.

Appendices: Scope 3 Strategies

■ Appendix B: Air Travel Suggestions

- Challenging to quantify & limited direct solutions
- Business, Research, & Study Abroad Air Travel

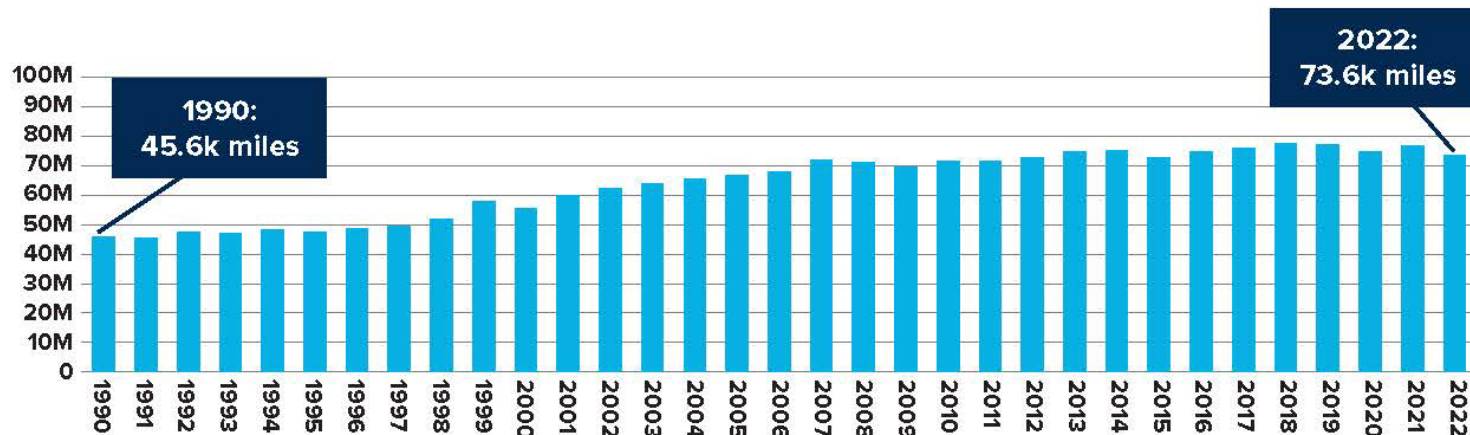
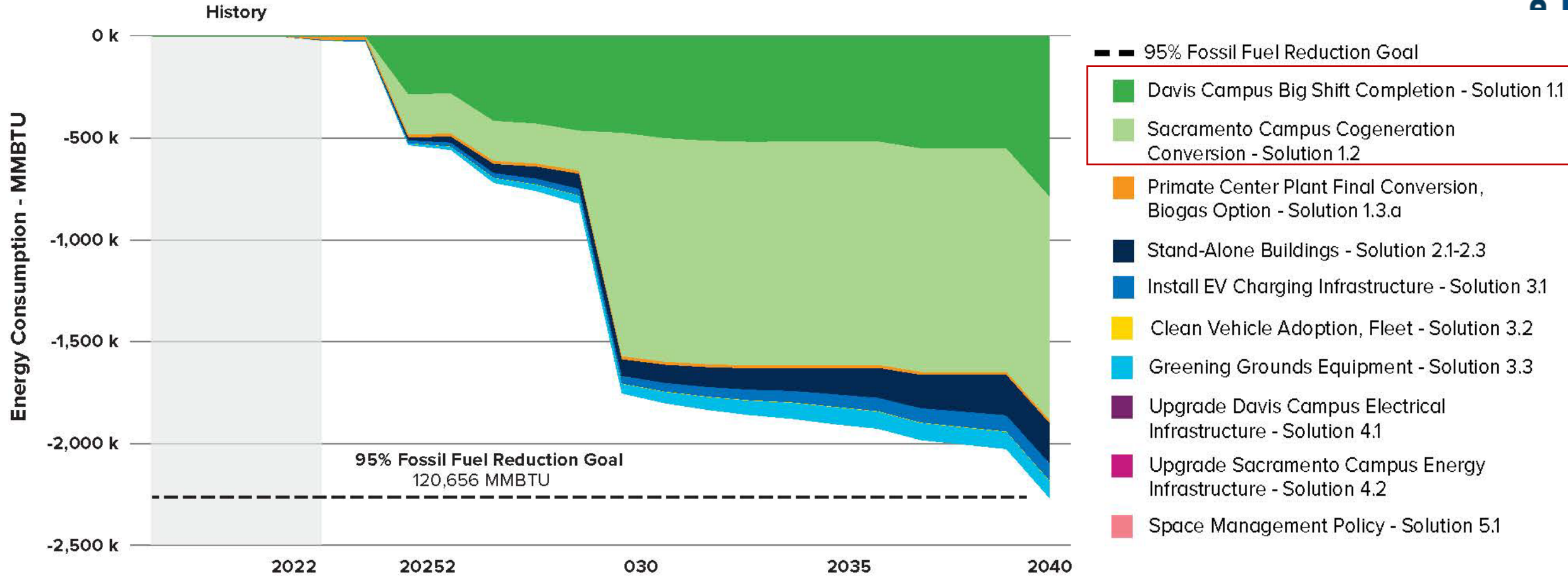


Figure B.1: Air Miles Traveled – Population-Based

Cumulative Impact

Cumulative Fossil Fuel Energy (MMBTu) Reductions



Target Benchmarks

Possible Benchmarks

2030 → 75%

2035 → 81%

2040 → 95%

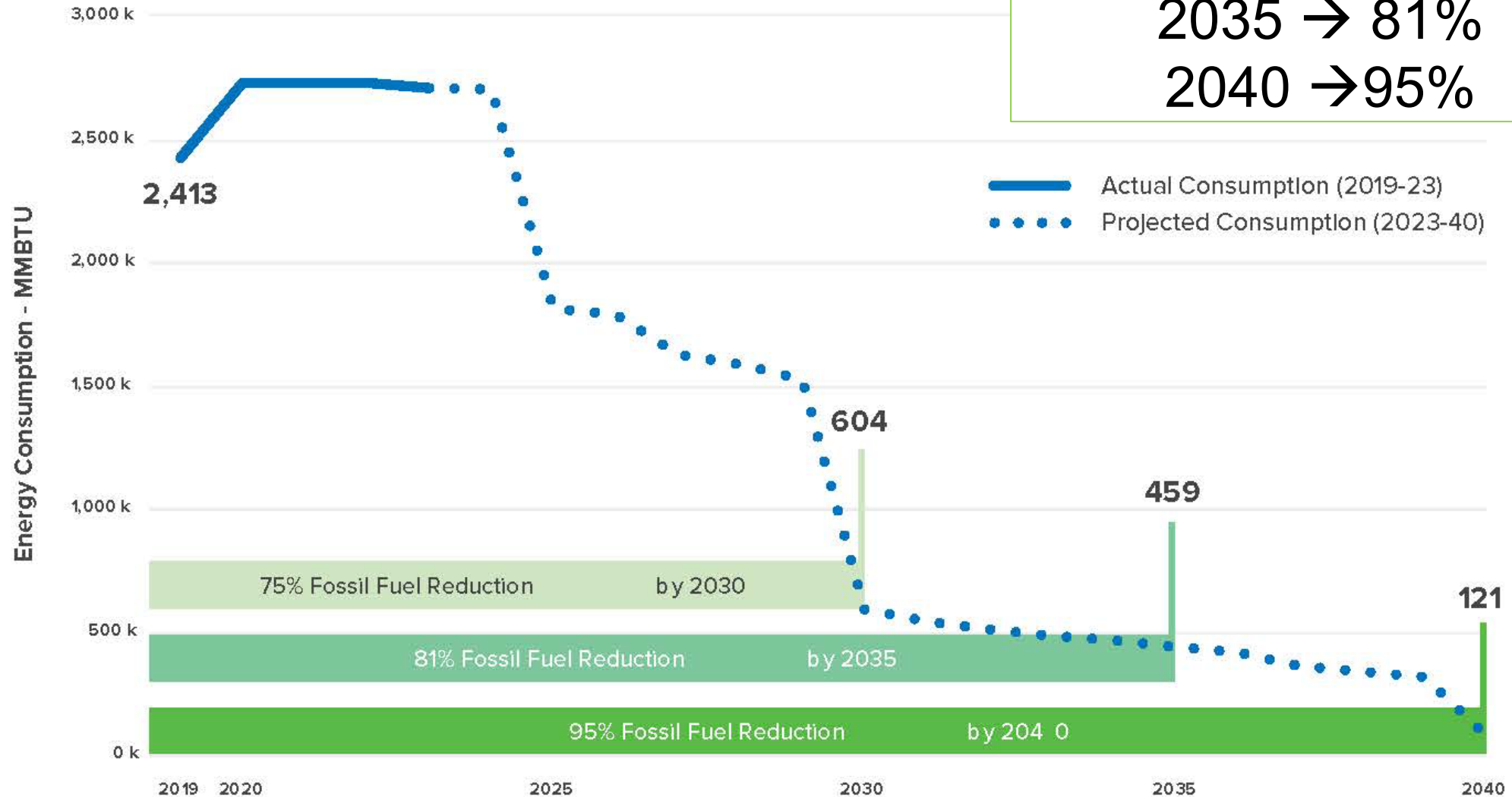


Figure 1.1 Fossil Fuel Use Reduction Projection - Projection reflects stacked implementation of FFFPP solutions; further described in Figure 1.2

Next Steps & Moving Forward

- Continued progress with implementation e.g. Big Shift
- Approx \$1 Billion in today's dollars
- Amounts to ~\$58 M every year for next 17 years
 - Capital planning solutions
 - IRA, state/federal grants
 - Operational savings
- Early successes with implementation and associated cost savings
 - Encouraging; Advancing business case for continued investment.

The logo for 'bigshift' features the word 'big' in a bold, dark blue sans-serif font, followed by 'shift' in a bold, light green sans-serif font. The 'i' in 'shift' has a small square dot.

Questions?

The screenshot shows the Sustainable UC Davis website. At the top, there is a navigation bar with links for 'Our Goals', 'Academia', 'Get Involved', 'How do I?', 'Resources', and 'About'. A search icon and 'Quick Links' are also present. Below the navigation bar is a large image of a UC Davis water tower. The main heading is 'Sustainability is Hiring' followed by 'Fossil Fuel-Free Pathway Plan'. A breadcrumb trail reads 'Sustainable UC Davis > Resources > Fossil Fuel-Free Pathway Plan'. The main content area includes a section titled 'Fossil Fuel-Free Pathway Plan' with a five-star rating. The text states that Chancellor Gary S. May directed the preparation of a plan for all of UC Davis to 'move away from fossil fuel use in our operations'. It mentions that the page will chart the process and list feedback opportunities. There are three sub-sections: 'Background', 'Process', and 'Feedback and Education Opportunities'. The 'Background' section explains that UC Davis has taken action to reduce greenhouse gas emissions and source renewable energy. The 'Process' section describes how Chancellor May asked the co-chairs of the Campus Advisory Committee on Sustainability (CACoS) to ensure the plan is prepared and has time for feedback. The 'Feedback and Education Opportunities' section mentions upcoming Town Halls and events. On the right side, there is a 'Spread the word!' section with a 'Read more and share the news' button. Below that is an 'Additional Resources' section with links to 'Campus Advisory Committee on Sustainability', 'Campus Climate Goals', 'Big Shift', 'Resources and Reports', and 'Sign Green Pledge'. At the bottom right, there is an 'Upcoming Events' section.

Sustainable UC Davis

Our Goals > Academia > Get Involved > How do I? > Resources > About > Quick Links <

Sustainability is Hiring

Fossil Fuel-Free Pathway Plan

Sustainable UC Davis > Resources > Fossil Fuel-Free Pathway Plan

Fossil Fuel-Free Pathway Plan

★★★★★

Chancellor Gary S. May directed the preparation of a plan for all of UC Davis to [move away from fossil fuel use in our operations](#). This page will chart the process and list feedback opportunities for the campus community.

Background

UC Davis has taken action to [reduce our greenhouse gas emissions](#) and [source renewable energy](#), and we have more work to do. We are now studying how to eliminate most fossil fuel use from our operations with a Fossil Fuel-Free Pathway Plan. The UC Davis Fossil Fuel-Free Pathway Plan, or FFFPP, is the first of its kind undertaken by a University of California campus and one of the earliest comprehensive plans in the U.S. higher education sector.

Process

Chancellor May asked the co-chairs of the [Campus Advisory Committee on Sustainability](#) (CACoS) to ensure the plan is prepared and has time for feedback from the campus community. The Chancellor specifically did not set a date for achieving fossil fuel-free operations; he wants the planning to document opportunities and resources needs and those findings will enable campus leadership to make data-driven decisions about implementation timing. To inform the planning process, the CACoS has created a consensus-based definition of fossil fuel-free for UC Davis, and articulated a consensus-based vision statement for the plan.

Feedback and Education Opportunities

To learn about upcoming Town Halls and other events related to UC Davis' greenhouse gas emissions, [sign up for the UC Davis Sustainability e-newsletter](#).

The draft Fossil Fuel-Free Pathway Plan was available for review to the UC Davis community for three months, from July 28 to Oct. 30, 2023. This feedback was reviewed by the CACoS before being submitted to Chancellor May for review in Dec. 2023.

[Expand All](#) | [Collapse All](#)

[Definition of Fossil Fuel-Free](#)

[Fossil Fuel-Free Pathway Plan Vision Statement](#)

[Spread the word!](#)

Our campus's Fossil Fuel-Free Pathway Plan was posted Dec. 2023. [Read more about the release of the roadmap that will enable university leadership to make informed decisions our move away from fossil fuel use in our operations.](#)

[Read more and share the news](#)

UC Davis' Fossil Fuel Free Pathway Plan

[Download Now](#)

Additional Resources

Learn more about our campus efforts to become fossil free.

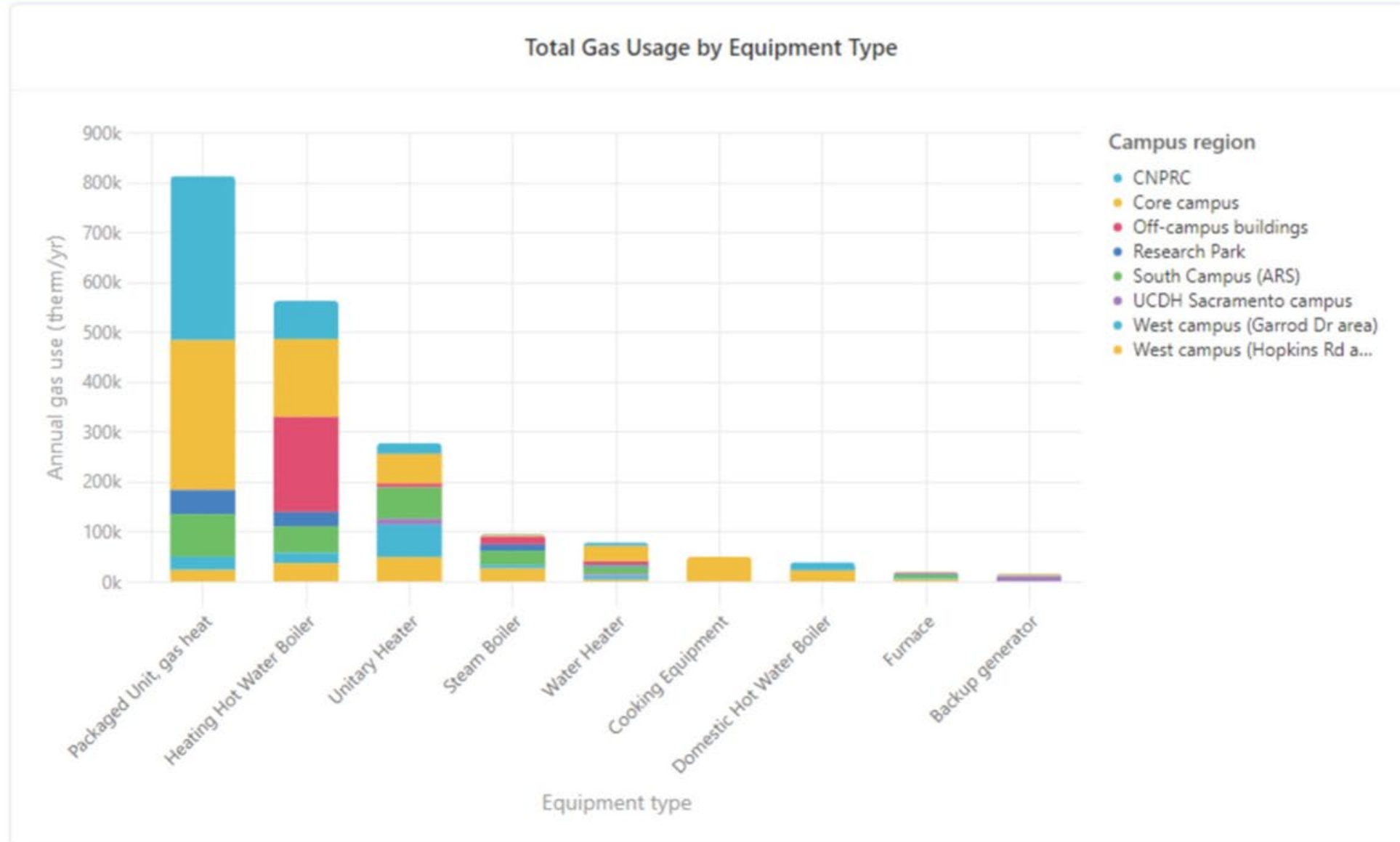
- [Campus Advisory Committee on Sustainability](#)
- [Campus Climate Goals](#)
- [Big Shift](#)
- [Resources and Reports](#)
- [Sign Green Pledge](#)

[Expand All](#) | [Collapse All](#)

Upcoming Events

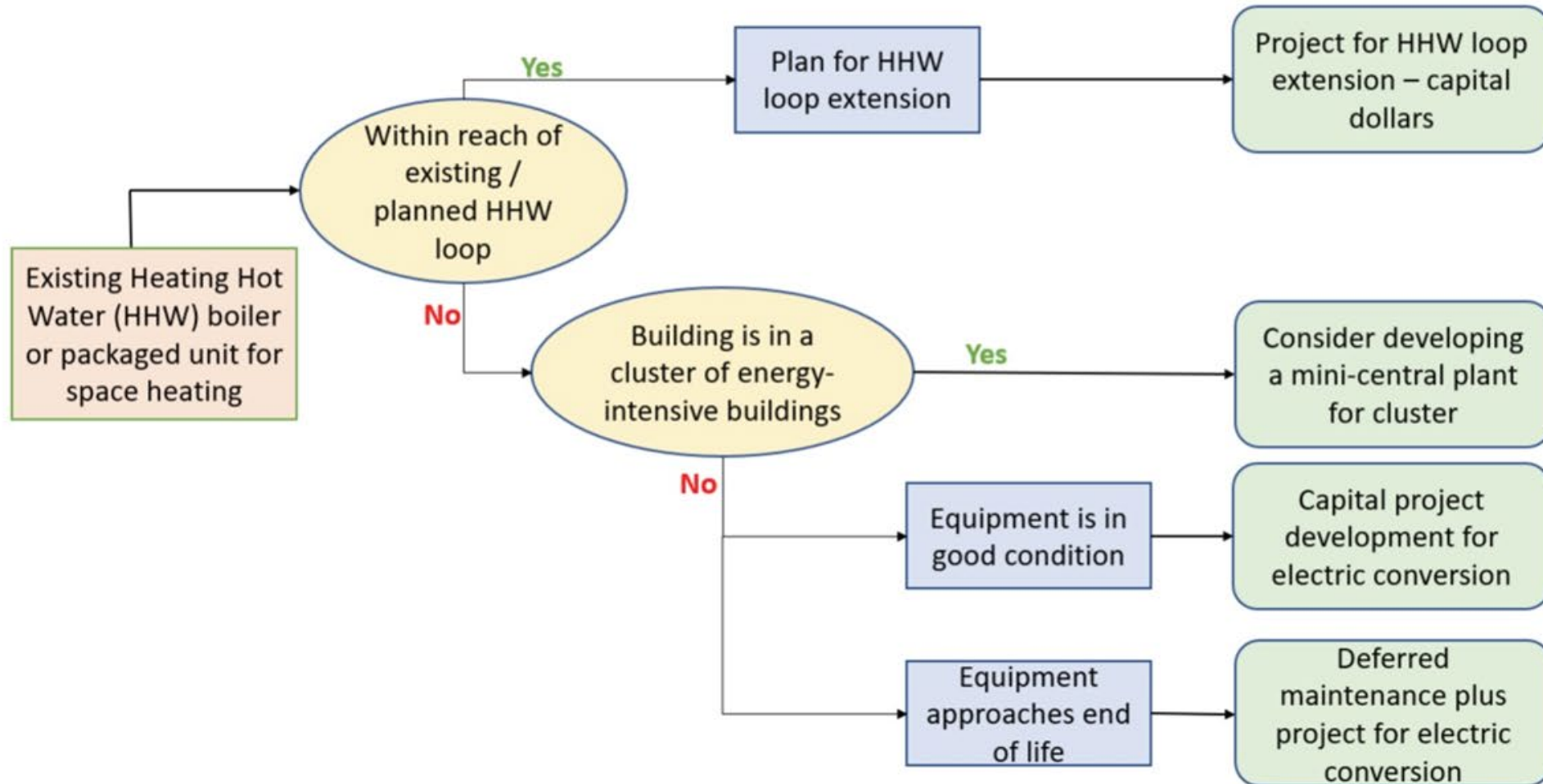
Available at: sustainability.ucdavis.edu/FFFPP

Building Solutions – Fossil fuel by type and region



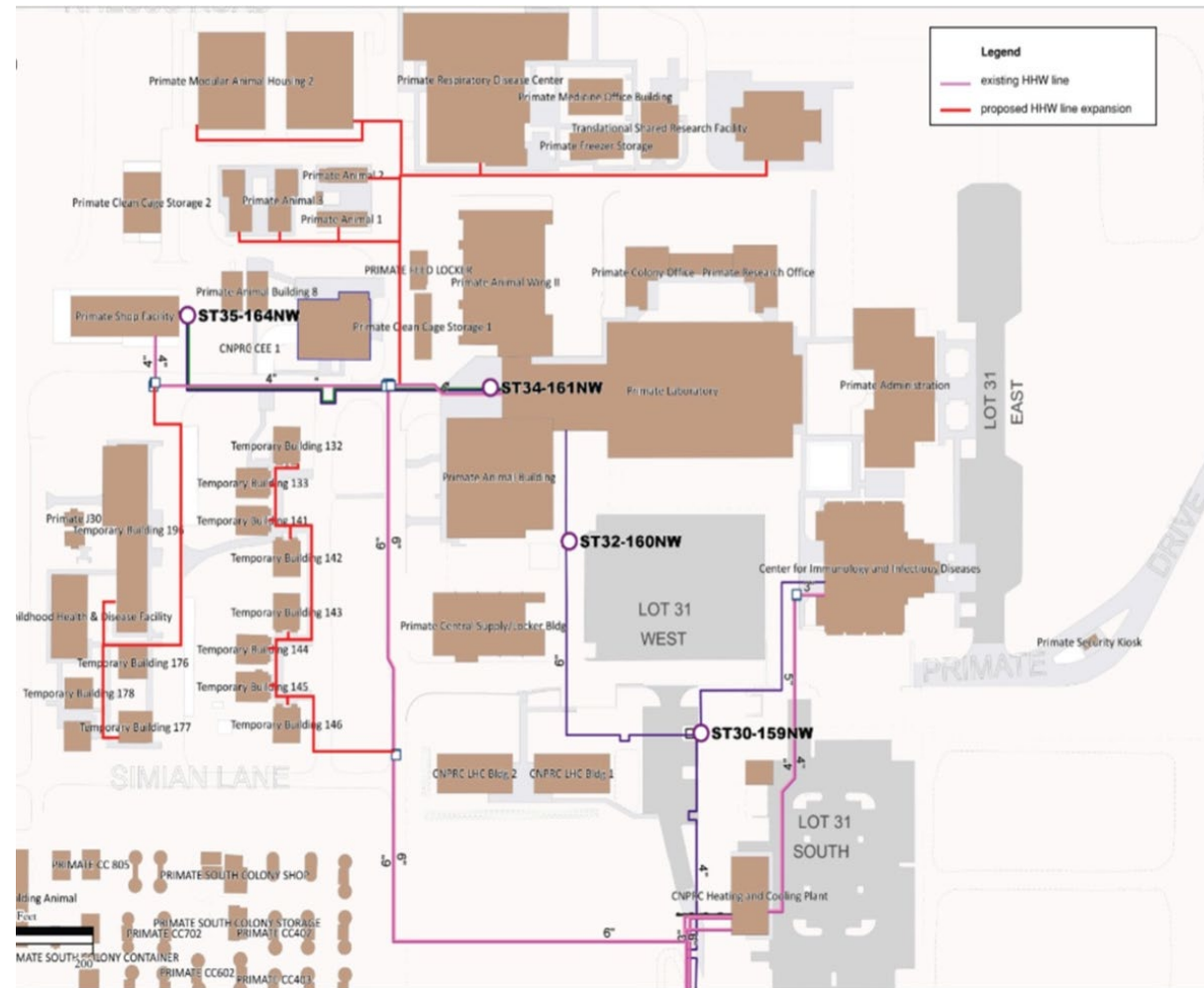
Building Solutions – Decision flow chart

Decision Tree for Space Heating systems (HHW Boilers, Packaged Units)



Groups of Buildings

Extend HHW and CHW loops



Mini Central Plants

UC Davis Gas Equipment Map
Map of the location of gas-consuming equipment (boilers, hot water heaters, etc.)
8 views
Last edit was 21 minutes ago

Buildings that currently have large, non-Hydronic heating/cooling systems:

- replace with new hydronic equipment (4 pipe FCU)
- DDC controls, something simple like Pelican may be acceptable
- buildings with small systems (~<5T) would be skipped and provided with mini splits.

Central Plant:

- 200-300T
- Heat pumps / Heat recovery chillers
- Cooling Towers if needed
- Primary & distribution pumping
- Generator
- Simple structure (3 or 4 wall metal structure)
- Size for future expansion of plant

Buildings with (E) Hydronic heating and cooling:

- connect to (E) boiler / chiller piping
- use (E) pumps for tertiary pumping
- if DDC is present, very simple controls scope (temperature sensors, a control valve on the connection to the district system to shut off flow when not needed)

Timeline	Proposed action	NG reduction (therms/yr)	GHG reduction (metric ton CO2/yr)	Social cost (\$/yr)	Estimated cost range (2022\$)	Suggested Implementer
2025-2030	Electrify all process steam equipment (10 buildings)	100,000 therms/yr	530 tons CO2/yr	\$130,000 / yr	\$5-10M	Facilities Mgt - Steam & elec shops
	Extend CNPRC HHW distribution loop to 18 additional buildings	350,000 therms/yr	1,860 tons CO2/yr	\$460,000 / yr	\$10-15M	DCM E&C project
	Replace 20 gas-fired standalone boilers with air-source heat pumps	130,000 therms/yr	690 tons CO2/yr	\$170,000 / yr	\$3.5-6M	Facilities Mgt - Steam & elec shops
	Replace 100 gas-fired packaged units with all-electric heat pump packaged unit	125,000 therms/yr	660 tons CO2/yr	\$160,000 / yr	\$3-5M	Facilities Mgt -Refrigeration shops
	Replace 75 of 150 water heaters with heat pump waters	35,000 therms/yr	190 tons CO2/yr	\$50,000 / yr	\$0.7-1.2M	Facilities Mgt -Plumbing & elec shops
	Sub-total for 2025-2030	740,000 therms/vr	3,920 tons CO2/vr	\$970,000 / vr	\$22-\$37M	
2030-2035	Connect buildings in Gateway Quad to HHW loop	60,000 therms/yr	320 tons CO2/yr	\$80,000 / yr	\$8-12M	DCM E&C project
	Develop mini-central plants in ARS area	170,000 therms/yr	900 tons CO2/yr	\$220,000 / yr	\$22-30M	DCM E&C project
	Expand Big Shift distribution loop to Rec Pool & Core Greenhouses	110,000 therms/yr	580 tons CO2/yr	\$140,000 / yr	\$9-12M	DCM E&C project
	Replace 20 more gas-fired standalone boilers with air-source heat pumps	130,000 therms/yr	690 tons CO2/yr	\$170,000 / yr	\$3.5-6M	Facilities Mgt - Steam & elec shops
	Replace 200 more gas-fired packaged units with all-electric heat pump packaged unit	250,000 therms/yr	1,330 tons CO2/yr	\$330,000 / yr	\$6-10M	Facilities Mgt -Refrigeration shops

	Replace 100 greenhouse unit heaters with heat pump packaged units	80,000 therms/yr	420 tons CO2/yr	\$100,000 / yr	\$4-6M	Facilities Mgt -Refrigeration shops
	Replace remaining 75 of 150 water heaters with heat pump waters	35,000 therms/yr	190 tons CO2/yr	\$50,000 / yr	\$0.7-1.2M	Facilities Mgt -Plumbing & elec shops
	Electrify first "pilot" dining common commercial kitchen	25,000 therms/yr	130 tons CO2/yr	\$30,000 / yr	\$2-6M	DCM SPG Project
	Sub-total for 2030-2035	860,000 therms/yr	4,560 tons CO2/yr	\$1,120,000 / yr	\$55-\$83M	
2035-2040	Replace 100 last gas-fired packaged units with all-electric heat pump packaged units	125,000 therms/yr	660 tons CO2/yr	\$160,000 / yr	\$3-5M	Facilities Mgt -Refrigeration shops
	Replace last 100 greenhouse unit heaters with heat pump packaged units	80,000 therms/yr	420 tons CO2/yr	\$100,000 / yr	\$4-6M	Facilities Mgt -Refrigeration shops
	Electrify remaining dining common commercial kitchens	75,000 therms/yr	400 tons CO2/yr	\$100,000 / yr	\$6-18M	DCM SPG Project
	Conversion of all gas-fired equipment at Bodega Marine Laboratory with air-source heat pumps	47,000 therms/yr	250 tons CO2/yr	\$60,000 / yr	\$3-5M	DCM Major Capital Project
	Conversion of gas-fired boilers at Tulare with air-source heat pumps (except crematorium)	60,000 therms/yr	420 tons CO2/yr	\$100,000 / yr	\$3-5M	DCM Major Capital Project
	Sub-total for 2035-2040	387,000 therms/yr	2,050 tons CO2/yr	\$500,000 / yr	\$19-\$39M	
	Total for 2025-2040	1,987,000 therms/yr	10,530 tons CO2/yr	\$2,590,000 / yr	\$96-\$159M	

Additional Chapters: *Implementation already underway*

Internal authors has allowed for expedited implementation.

■ Energy Infrastructure & Sourcing Solutions

- Investigation of expansion of our solar farm; Piloting battery storage for campus.

■ Space Management

- **SMASH the Stash** program has led to \$1.77/sf of reclaimed space = 11% of the space was reclaimed in the first 2 buildings.
- **Office Refresh Program**, Material recycling program. 3,285 lbs/year carpet and ceiling tile.

■ Fleet & Small Equipment

- Immediate progress towards fleet conversion & application of replacement and upgrade strategies



Attachment J – DRAFT CAAP Workshop Materials and Process for Public Comment



CLIMATE ACTION & ADAPTATION PLAN

JOIN THE CONVERSATION: DRAFT 2030 CLIMATE ACTION & ADAPTATION PLAN!

The Yolo County Sustainability Division wants your feedback on the DRAFT Climate Action & Adaptation Plan (CAAP).

Join us at one of our DRAFT CAAP Workshops below or use the Public Comment Portal below to share your comments!



IN-PERSON

06/19

Knights Landing – English + Spanish
Knights Landing Community Center
42114 7th Street, Knights Landing, CA 95645
5:00 PM – 6:00 PM

06/20

Esparto – Spanish ONLY
RISE Inc. Esparto
17340 Yolo Ave, Esparto, CA 95627
5:00 PM – 6:00 PM

06/20

Esparto – English + Spanish
RISE Inc. Esparto
17340 Yolo Ave, Esparto, CA 95627
7:30 PM – 8:30 PM

06/22

Virtual (ZOOM) – English + Spanish
<https://tinyurl.com/3uyrmpb4>
12:00 PM – 1:00 PM

06/27

Virtual (ZOOM) – English + Spanish
<https://tinyurl.com/yc87me6d>
5:00 PM – 6:00 PM

06/28

Virtual (ZOOM) – English + Spanish
<https://tinyurl.com/mtkvjtex>
12:00 PM – 1:00 PM



Scan the QR Code to sign-up for CAAP Workshop updates and reminders!

<https://tinyurl.com/4ms44hxe>



FREE food and childcare will be provided to guests!

The Public Comment Period will be open from June 7th, 2024 at 12:00 AM to July 10th, 2024 at 11:59 PM.

Access the online Public Comment Portal here:
<https://tinyurl.com/6bdh4usb>

CONTACT US



sustainability@yolocounty.org



<https://www.yolocaap.org/>



[@yolosustainability](https://www.instagram.com/yolosustainability)





DRAFT CAAP Public Comment Portal

Timeline:

This public comment form is open 24/7 from June 7th , 2024 at 12:00 AM until July 10th , 2024 at 11:59 PM. All comments must be made by 11:59 PM on July 10th, 2024 for consideration.

Disclaimers:

This public comment form is anonymous – commenters will not be identified. However, comments will be shared with other County staff, organizations, and affiliated consultants and partnering agencies.

Instructions:

If you have multiple comments, please submit one comment per form. After submitting your first comment, reload the page and continue to share your comments until you are content.

Questions/Assistance:

If you have any questions throughout this process, please email sustainability@yolocounty.org and a staff member will be in contact with you shortly.

Stay in Touch:

You can now find us on social media! Be sure to follow us on Instagram and Facebook (@yolosustainability) for more updates on the CAAP process.

Thank you for your support and contributions!

1. Select one of the following to describe the nature of your comment:

- Question/Clarification
- Criticism/Complaint
- Concern/Caution
- Recognition/Appreciation

2. What chapter is your comment in reference to?

- Chapter 1
- Chapter 2
- Chapter 3
- Chapter 4
- Chapter 5
- Chapter 6
- Chapter 7
- Chapter 8
- Entire CAAP

3. Type your comment below:

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

