



## AGENDA

### SPECIAL MEETING

Thursday, February 23, 2017, 3:00 p.m.

2751 Napa Valley Corporate Drive, South Campus, Building A  
First Floor, Conference Room, Napa CA 94558

--- New Meeting Location ---

#### Board of Directors

Susan Boswell  
Emma Chow  
Tosha Comendant  
Diane Dillon  
Marita Dorenbecher  
Jeri Gill  
David Graves  
Gary Kraus  
Jason Lauritsen  
Kenneth Leary  
Gretchen Stranzl  
McCann  
Alfredo Pedroza  
Brent Randol  
Kimberly Richard  
Scott Sedgley  
Pamela Smithers  
Peter White

#### Alternates

Barry Christian  
Paul Dohring  
Jeffrey Durham\*  
Doris Gentry\*  
Ryan Gregory  
Irais Lopez-Ortega

\*Pending Appointment

#### Staff

Patrick Lowe,  
Secretary  
Natural Resources  
Conservation Mgr.,  
Public Works

Jeff Sharp,  
Principal Planner,  
Public Works

Robert C. Martin,  
Legal Counsel  
Deputy Counsel,  
County Counsel's  
Office

804 First Street,  
Napa, CA  
94559-2623

Tel: 707-259-8600

[info@napawatersheds.org](mailto:info@napawatersheds.org)

1. **CALL TO ORDER AND ROLL CALL** (Chair)

2. **PUBLIC COMMENT** – In this time period, anyone may comment to the Council regarding any subject over which the Council has jurisdiction, or request consideration to place an item on a future Agenda. No comments will be allowed involving any subject matter that is scheduled for discussion as part of this Agenda. Individuals will be limited to a **three-minute presentation**. No action will be taken by the Council as a result of any item presented at this time. (Chair)

3. **PUBLIC WORKSHOP: PRESENTATION, DISCUSSION AND PUBLIC COMMENT ON THE: DRAFT CLIMATE ACTION PLAN TO ADDRESS GREENHOUSE GAS EMISSIONS AND REDUCTION STRATEGIES THROUGH 2030 FOR UNINCORPORATED NAPA COUNTY (APPROX. 2 HRS)**

The Planning, Building and Environmental Services Department (PBES) has completed a Public Review Draft Climate Action Plan (CAP). Components of the CAP include:

- A baseline greenhouse gas (GHG) emissions inventory for 2014;
- GHG emissions forecasts and reduction targets for 2020, 2030, and 2050;
- GHG emissions reduction strategies and measures to meet targets;
- A climate change vulnerability assessment;
- Climate adaptation measures to build community resilience; and
- Implementation and monitoring mechanisms to ensure measures and targets are achieved.

PBES staff will provide an overview of the Draft CAP followed by comments and questions from the WICC and public. The completed Draft CAP is available under "Project Documents" at: <http://www.countyofnapa.org/CAP>. A 30-day public review period for the draft CAP began on January 26, 2017. All comments must be received before **4:45 p.m. on Friday, February 24, 2017**. Contact Jason Hade at (707) 259-8757 or [jason.hade@countyofnapa.org](mailto:jason.hade@countyofnapa.org) with any questions.

The WICC is providing this workshop to update the community on the CAP and provide an opportunity for community input.

(cont.)

4. **INFORMATIONAL ANNOUNCEMENTS:**  
Exchange of informational announcements and events (Staff/Council/Public) *(5-10 mins)*
5. **FUTURE AGENDA ITEMS:**  
Discussion of possible items for future agendas (Staff/Council) *(5 mins)*
6. **NEXT MEETING:**  
**March 23, 2017 – 3:00 p.m.**  
2751 Napa Valley Corporate Drive, South Campus, Building A  
First Floor Conference Room, Napa CA 94558
7. **ADJOURNMENT** (Chair)

**Note: If requested, the agenda and documents in the agenda packet shall be made available in appropriate alternative formats to persons with a disability. Please contact Jeff Sharp at 707-259-5936, 804 First St., Napa CA 94559-2623.**



# Meeting Location Map

## Watershed Information and Conservation Council (WICC)

The meeting room is located on the first floor in the northwest corner of Building A (see arrow)

2751 Napa Valley Corporate Drive, South Campus, Building A, First Floor, Conference Rooms, Napa CA 94558





A Tradition of Stewardship  
A Commitment to Service

**Planning, Building & Environmental Services**

1195 Third Street, Suite 210  
Napa, CA 94559  
[www.countyofnapa.org](http://www.countyofnapa.org)

**David Morrison**  
Director

MEMORANDUM

To: WICC Board of Directors	From: David Morrison, Director of PBES Jason R. Hade, AICP, Planner III
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Date: February 23, 2017	Re: Public Review Draft Climate Action Plan
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The Planning, Building and Environmental Services Department has completed a Public Review Draft Climate Action Plan (CAP). The draft plan addresses greenhouse gas (GHG) emissions and reduction strategies through 2030 for unincorporated Napa County. As shown in the attached summary, components of the CAP include:

- A baseline GHG emissions inventory for 2014;
- GHG emissions forecasts and reduction targets for 2020, 2030, and 2050;
- GHG emissions reduction strategies and measures to meet targets;
- A climate change vulnerability assessment;
- Climate adaptation measures to build community resilience; and
- Implementation and monitoring mechanisms to ensure measures and targets are achieved.

The complete draft CAP and associated appendices are now available for public review at the project's website under "Project Documents" at <http://www.countyofnapa.org/CAP>

Staff will provide an overview of the draft CAP to the WICC as a part of the meeting on February 23, 2017. Following our presentation, we would appreciate any comments, questions, and/or concerns you would like to provide.

The 30-day public review period for the draft CAP began on January 26, 2017. Comments should be directed to Jason R. Hade, AICP, Planner III, Napa County Planning, Building & Environmental Services Department, 1195 Third Street, Suite 210, Napa, California; (707) 259-8757 or [jason.hade@countyofnapa.org](mailto:jason.hade@countyofnapa.org). All comments must be received before 4:45 p.m. on **February 24, 2017**.

The public will also have the opportunity to comment on the draft CAP during future hearings to be scheduled before the County Planning Commission and Board of Supervisors.

Please contact us at (707) 259-8757 or [jason.hade@countyofnapa.org](mailto:jason.hade@countyofnapa.org) with any questions.





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# DRAFT Napa County Climate Action Plan

## Purpose

The Climate Action Plan (CAP) sets a course of action for the County of Napa (County) to address global climate change. The CAP, consistent with and complimentary to Statewide legislation and actions, provides a feasible roadmap for the County to both reduce greenhouse gas (GHG) emissions from many sources in the unincorporated county and address the challenges of a changing climate by helping to adapt to climate change and improve its resilience over the long term.

Climate change is a global problem and can lead to significant fluctuations in regional climates. The CAP represents an important step in acknowledging global climate change effects on the County.

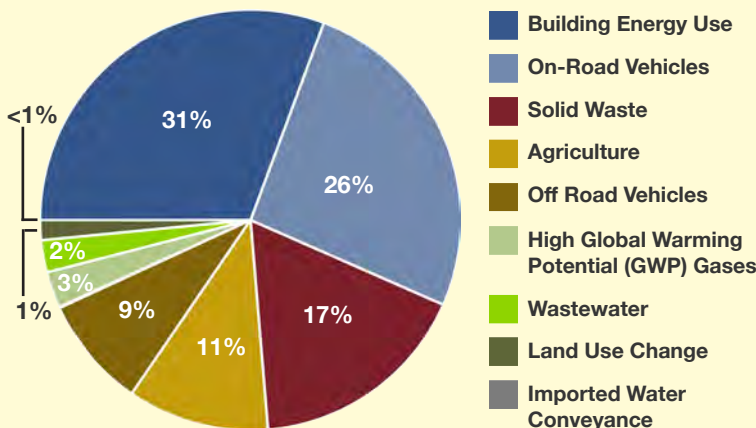
As directed by Assembly Bill (AB) 32, Senate Bill (SB) 32 and Executive Orders B-30-15 and S-3-05, the State aims to reduce annual GHG emissions to:

- 1990 levels by 2020
- 40 percent below 1990 levels by 2030
- 80 percent below 1990 levels by 2050



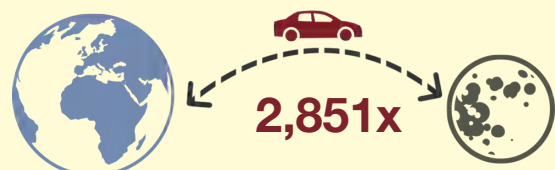
## Components of the CAP

- A baseline GHG emissions inventory for 2014
- GHG emissions forecasts and reduction targets for 2020, 2030, and 2050.
- GHG emissions reduction strategies and measures to meet targets
- A climate change vulnerability assessment
- Climate adaptation measures to build community resilience
- Implementation and monitoring mechanisms to ensure measures and targets are achieved.



## 2014 GHG Emissions in Napa County

484,283 metric tons of carbon dioxide equivalent (MT CO<sub>2</sub>e) of GHGs were emitted in 2014. This is equivalent to a car driving 1.4 billion miles, or driving to the moon and back 2,851 times.



# Strategies to Reduce GHG Emissions

Below are some of the strategies and measures the County will take to achieve the GHG reduction goals outlined in the CAP. GHG reduction strategies in the CAP are aligned with each of the GHG inventory sectors, and contain a total of 42 specific local GHG reduction measures that will achieve GHG reductions.

## Building Energy

- Require new or replacement residential water heating systems to be electrically-powered and/or alternatively-fueled. *Annual Reduction of 11,575 MT CO<sub>2</sub>e by 2030.*
- Require compliance with CALGreen Tier 1 standards and phase in ZNE requirements for new residential construction starting in 2020. *Annual Reduction of 1,361 CO<sub>2</sub>e by 2020.*

## On-Road Transportation

- Update the County's Transportation System Management Ordinance. *Annual Reduction of 3,582 MT CO<sub>2</sub>e by 2030.*
- Support efforts to allow commuter service to operate on the Napa Wine Train right-of-way. *Annual Reduction of 389 MT CO<sub>2</sub>e by 2020.*

## Solid Waste

- Meet an 80% Waste Diversion Goal by 2020 and a 90% Waste Diversion Goal by 2030. *Annual Reduction of 1,179 MT CO<sub>2</sub>e by 2020 and 2,625 MT CO<sub>2</sub>e by 2030.*
- Encourage expansion of composting program for both residential and commercial land uses. *Annual Reduction of 1,106 MT CO<sub>2</sub>e by 2030.*

## Agriculture

- Replace diesel or gasoline-powered equipment with electric or alternatively-fueled agricultural equipment and pumps. *Annual Reduction of 8,540 MT CO<sub>2</sub>e by 2030.*
- Convert all stationary diesel or gas-powered irrigation pumps to electric pumps. *Annual Reduction of 1,696 MT CO<sub>2</sub>e by 2020.*

## NAPA COUNTY GHG REDUCTION TARGETS

**2%** below 2014 levels by 2020

**40%** below 2014 levels by 2030

**77%** below 2014 levels by 2050

## Off-Road Vehicles and Equipment

- Replace diesel or gasoline with alternative fuels in recreational watercraft throughout the County. *Annual Reduction 7,512 MT CO<sub>2</sub>e by 2030.*
- Require Tier 4 equipment for all construction activity and mining operations as a condition of approval by 2030. *Annual Reduction of 354 MT CO<sub>2</sub>e by 2030.*

## Water Supply and Wastewater

- Expedite and/or reduce permit fees associated with water conservation installations in existing facility.
- Adopt a new water conservation ordinance for commercial and residential land uses limiting outdoor watering

## Land Use Change

- Establish targets and enhanced programs for oak woodland and coniferous forest preservation and mandatory replanting. *Annual Reduction of 4,544 MT CO<sub>2</sub>e by 2030.*
- Repurpose or otherwise prevent burning of removed trees and other woody material from land use conversions of oak woodlands and coniferous forests. *Annual Reduction of 10,839 MT CO<sub>2</sub>e by 2020.*

## Multi-Sector Strategy

- Support efforts to increase Napa Green Certified wineries and vineyards in the County, with a goal of 100% certified by 2030. *Annual Reduction of 5,743 MT CO<sub>2</sub>e by 2030.*

**While many of the emission reductions of the measures can be quantified, others are more difficult to quantify. However, the combination of all measures contribute towards achieving 2020 and 2030 targets.**

# Strategies to Adapt and Build Community Resilience



Climate change is already adversely affecting the County, and these effects will increase in severity over time. Below are some of the measures that define the programs, policies, and regulations the County will implement to remain responsive to the challenges created by climate change.

## Climate Change Vulnerability Assessment

According to the vulnerability assessment, the County is vulnerable to several adverse climate change effects, including:

- Increases in average temperature and the frequency of heat waves and extreme heat events
- Changes to precipitation patterns
- Increased risk of wildfire
- Increased likelihood of flooding

### Temperature

- Map critical infrastructure locations vulnerable to extreme heat events
- Understand the tolerance of current wine grape varieties to withstand increased temperatures.

### Wildfire Risk

- Map critical infrastructure locations vulnerable to wildfires.
- Coordinate emergency preparedness systems.

### Water Supply and Quality

- Evaluate vulnerabilities of water supply systems and networks.

### Flood Risk

- Increase use of pervious surfaces and landscaping in developed areas.
- Identify streamside restoration areas.

### Sea-Level Rise

- Update Napa County's Operational Area Hazard Mitigation Plan to incorporate sea-level rise.
- Incorporate sea-level rise effects into capital improvement plans

## Co-Benefits

GHG reduction and adaptation measures will provide other important environmental and economic benefits to the community, or co-benefits. Co-benefits are the unintended positive side effects that result from strategies and measures identified in the CAP. The County has identified the following 10 co-benefits.



Improved Air Quality



Improved Water Supply and Quality



Protection of Natural Ecosystems and Habitats



Improved Public Health



Improved Quality of Life



Reduced Fossil Fuel Reliance



Protection of Structures and Assets



Increased Public Awareness of Climate Change



Lowered Energy, Water, and Sewer Bills



Lowered Energy Demand



## Implementing the CAP

Upon adoption, the County will begin implementing the CAP. To track progress, County staff will coordinate updates to the inventory every five years beginning in 2020. County staff will also evaluate the capacity, cost, effectiveness, and benefits of each individual measure. Evaluating CAP measure performance requires monitoring the level of community participation, costs, barriers to implementation, and actual reductions in fuel consumption, vehicle miles traveled, energy usage, water usage, landfilled waste, or other activities that result in GHG emissions reductions. By evaluating whether the implementation of a measure is on track to achieve its reduction potential, the County can identify successful measures and reevaluate or replace underperforming ones.

## Monitoring and Reporting

The County will prepare a report on CAP progress every five years, beginning in 2022, by doing the following:

- Estimated annual GHG reductions
- Participation rates (where applicable)
- Implementation costs and funding needs
- Community benefits realized
- Remaining barriers to implementation
- Recommendations for changes to the CAP

## Public Involvement

The CAP was prepared with the involvement and engagement of key internal and external stakeholder groups of various public, private, and nonprofit sectors. A total of four outreach meetings occurred at key milestones in the process, engaging community and interested stakeholders.

Meeting #1	Meeting #2	Meeting #3	Meeting #4
Nov 2015	Feb 2016	Jun 2016	Feb 2017



## CAP Monitoring Schedule

2017	<b>CAP Adopted</b> Board of Supervisors adopts plan and staff begins to implement CAP measures.
2022	<b>Inventory Update / Measure Status Review / CAP Report</b> County staff conducts update to inventory, reviews measure performance, provides an initial review of the status of implementation, summarizes achievements to date (i.e., meeting 2020 targets), and makes recommended changes to the CAP if measures prove infeasible, and prepares report to Board. The report will identify ways to adapt the plan to maintain the desired reduction path.
2027	<b>Inventory Update/ Measure Status Review / Target Year Report</b> County staff prepares inventory update and measure status review and develops Target Year Report for presentation to Board that summarizes achievements to date and provides recommendations for meeting 2030 targets.
2030+	Repeat above process and develop appropriate actions to meet 2050 GHG reduction goals.

## We Want to Hear From You!

Public comments on the Draft CAP will be accepted from January 26th through February 24th, 2017. The Public Review Draft CAP and related materials are available for review or download at <http://www.countyofnapa.org/CAP>