

Revised Approach: Climate Action Plan for Napa County (“CAP II”)

Basic Outline

- Intro & policy framework (what are we doing and why?)
- The numbers:
 - baseline 2005 inventory of GHG emissions
 - updated 2012 inventory of GHG emissions
 - 2020 GHG reduction target & revised “Business as Usual” forecast
 - State GHG reduction goal for 2050
- Emission reduction strategies already underway
 - Agriculture & Natural Resources
 - Buildings & Energy
 - Transportation & Land Use
 - Water & Waste
- Additional emission reduction strategies for 2020
- Vision for 2050: new science, protocols, and technologies; possible strategies for post-2020
- Climate Adaptation

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DATA & PROJECTIONS USED TO CALCULATE GHG EMISSIONS

	Baseline (2005)	Present Day	2020 BAU	2020 BAU-R
DEVELOPMENT ASSUMPTIONS				
Population	28,600	23,729	33,290	24,894
Households ♦	10,090	9,583	10,810	10,015
Housing Units	11,492	12,260 ♠	13,393	12,812 ♣
Employment (Jobs)	23,050	24,627	26,765	27,819
Approved New Vineyard (Ac/Yr)	229	235	301	301
Other Approved Development (Ac/Yr)	285	255	285	255

Values in Red are new since the December 2012 version of the CAP

Present day = annual data for 2010-2013 from the 2010 US Census, ABAG, and other sources

BAU = "Business as Usual" from the December 2012 version of the CAP

BAU-R = Business as Usual-Revised

♦ 2005 & 2020 BAU from ABAG Projections 2009; 2010-13 & 2020 BAU-R from ABAG 2013 projections in the adopted plan

♠ Bay Area Economics, 2013 (based on 2010 Census and data from Claritas, Inc.)

♣ Projection of dwelling units is the ABAG household projection adjusted using the ratio of households to dwelling units in 2013

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Agriculture & Natural Resources (1 of 3)

Agricultural Emissions

- Agricultural vehicles and equipment
- Use of nitrogen fertilizers
- Use of lime
- Livestock & manure management

(Note: emissions associated with annual pruning and fermentation are considered biogenic, and are not included in the emissions inventory)

Emissions Associated w/Land Cover Changes

- One time emissions from the loss of vegetation & site preparation
- Annual (ongoing) loss of sequestration

(Note: projections have been validated using recent data and new sequestration factors for vineyards can be applied)

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Agriculture & Natural Resources (2 of 3)

Emission Reduction Measures Already Underway

- Ag Preserve & urban centered growth pattern
- “Napa Green” & other third party certification programs
- Use of cover crops & reduced tilling
- Avoided deforestation via voluntary easements
- Napa River restoration projects (increased vegetation)
- Oak Woodlands Management Plan
- State low carbon fuel standard for farm vehicles & equipment
- Composting & limited use of nitrogen fertilizers for vineyards
- Reductions in livestock over time
- Water conservation strategies
- County requirements for replanting & riparian/other habitat restoration per General Plan & CEQA practice
- Local food advisory council & related efforts

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Agriculture & Natural Resources (3 of 3)

Additional Emission Reduction Strategies for 2020

- County standard for new discretionary vineyard projects (CEQA threshold)
- Begin “Re-oaking” the Valley initiative (plant trees!)

Vision for 2050: possible strategies for post-2020

- Create financial incentives (e.g. a system of “credits”?) for additional, voluntary emission reductions in the Ag & Natural Resources sector
- Capture CO₂ emissions from fermentation
- Additional voluntary BMPs to increase sequestration based on scientific studies

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Transportation & Land Use (1 of 3)

Transportation & Land Use Emissions

- On-road vehicles
- Off-road (non-Ag) vehicles
- Rural environment w/o many alternatives to the automobile

(Note: transportation emissions have not been recalculated since the CAP presented in December 2012; vehicle trips starting or ending in the County are counted in the emissions inventory)

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Transportation & Land Use (2 of 3)

Emission Reduction Measures Already Underway

- State low carbon fuel standards
- Pavley I and II (vehicle efficiency standards)
- Other vehicle efficiency measures adopted at the State level
- County applied mitigation requiring transportation demand management where appropriate & feasible
- NCTPA's transit network improvements (increases in ridership!)
- Traffic signal optimization/Hwy 29 corridor study
- Voluntary BMPs for projects reviewed by the Planning Commission
- “Car Free Napa Valley” initiatives
- bicycle network improvements incl. Vinetrail segments
- County fleet purchases of hybrid vehicles
- Streamline permitting for EV charging stations & make alternative fuels more available
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Transportation & Land Use (3 of 3)

Additional Strategies for 2020

- Good planning (density/mixed-use, integrated affordable housing, traffic calming, trip reduction, & parking maximums where rezoning occurs)
- Employer-based trip reduction programs, vanpool/shuttle programs, and other short-term strategies based on the ongoing travel behavior survey
- Vinetrail & priority connections

Vision for 2050: possible strategies for post-2020

- Comprehensive bike & trail network
- Expanded transit and paratransit (long term strategies based on the travel behavior survey)
- Electric car share
- Additional Park & Ride locations and casual carpool programs

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Buildings & Energy

Emission Reduction Measures Already Underway

- State renewable portfolio standard
- Napa Green certified green business program
- Local alternative (clean) energy generation
- CalGreen Building Code (new version effective January 1, 2014)
- Renewable Energy & Energy Efficiency Financing District (PACE Program)
- Permit streamlining for solar and small wind generation
- County facilities: solar energy generation & energy efficiency
- Voluntary BMPs for projects reviewed by the Planning Commission

Additional Strategies for 2020

- Weatherization of low income homes
- Increased energy efficiency requirements for new homes >2,500 sf
- Require passive design & shade trees to reduce energy use for discretionary projects
- Investigate joining Marin or Sonoma's Community Choice Aggregation

Vision for 2050: possible strategies for post-2020

- Community Choice Aggregation
- Other?

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Water & Waste

Emission Reduction Measures Already Underway

- State requirements regarding landfill methane recapture
- Water efficiency ordinance
- On-site wastewater treatment
- Expanded use of recycled water
- Voluntary water conservation in the agricultural sector
- Expanded kitchen waste composting program
- C&D waste program
- Commercial recycling
- Waste minimization & public outreach

Additional Strategies for 2020

- Upper Valley Waste Management project?

Vision for 2050: possible strategies for post-2020

- How can we get to zero waste??

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Climate Adaptation

Climate Adaptation Initiatives Already Underway

- Napa River Flood Project
- Updated Hazard Mitigation Plan
- Update Safety Element to address SRA & wildland fire
- Storm water pollution prevention & hazardous materials programs
- FEMA Flood Program implementation/compliance
- Groundwater monitoring program & advisory council
- Recycled water program
- Community Health Improvement Plan
- Local food advisory council & related actions
- Firewise/chipping program, etc.

Additional Strategies for 2020

- Countywide strategic planning session 2013
- Recovery ordinance

Vision for 2050: possible strategies for post-2020

- Risk reduction & resilience plan, integrating the Hazard Mitigation Plans, Safety Elements, and disaster recovery planning into a comprehensive Countywide strategy

Next Steps

- Additional stakeholder interviews/meetings upon request
- Quantification & draft plan preparation
- Additional roundtable discussion & public meeting (Sept?)
- CEQA compliance
- Planning Commission (Oct?)
- Board of Supervisors (Nov/Dec?)

Questions?

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