

City of Vallejo

Climate Action Plan

Workshop on Reduction and Adaptation Measures

January 31,
2011



Meeting Purpose



- Provide an update on the project
- Introduce Climate Action Plan reduction and adaptation measures
- Receive feedback on proposed measures

What is a Climate Action Plan?



What is a Climate Action Plan (CAP)?



- A plan to reduce GHG emissions
- A numeric analysis of the GHG impact of reduction policies
- A programmatic policy document linked to the General Plan
- A way to streamline permitting for future projects consistent with the CAP

Why is it necessary?



- Avoiding piecemeal efforts
- Compliance with State goals
- Coordinate with regional efforts
- Funded through EECBG
- Save money and conserve limited resources

What's Included in a CAP?



- Overview of GHG sources
- GHG reduction targets
- Sector specific measures
 - Land Use & Transportation
 - Waste and Water
 - Energy
- Quantification of reduction measures
- Adaptation measures



How does the CAP achieve its goals?



- Baseline GHG Inventory for 2008
- Business-as-usual emissions forecast for 2020 and 2035
- Reduction measures to accomplish by 2020 and 2035

Introduction to Climate Action Plan Targets and Measures

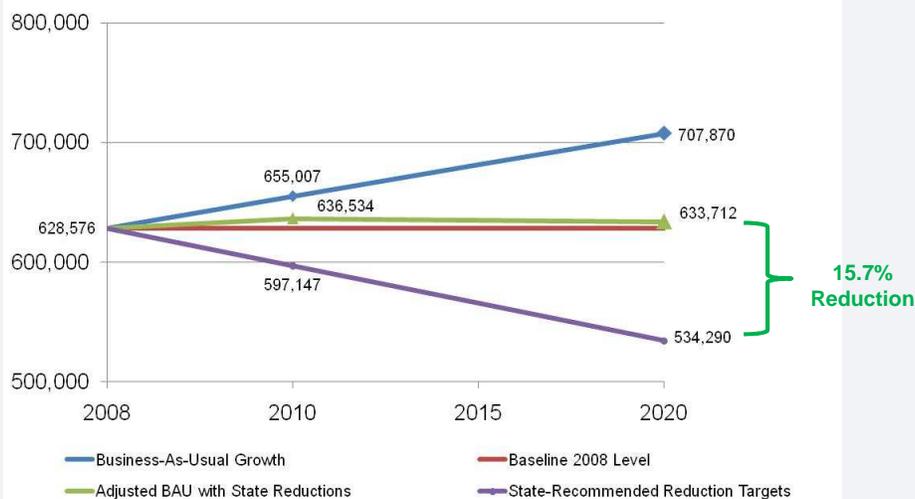


Reduction Targets



- Based on the California Global Warming Solutions Act of 2006 (AB 32)
- Mandates reducing statewide GHG emissions to 1990 levels by 2020
- Reduces Vallejo's GHG emission 16% by 2020 & 50% by 2050 - below business as usual (BAU)

Vallejo Emissions Forecast and State-Recommended Reductions



Reduction Measures

- How are reduction measures developed?
 - Based on Vallejo's Greenhouse Gas (GHG) Inventory
 - Designed to meet state, regional & local targets
 - Quantified to verify emission reductions
 - Separated into City government and community-wide measures

Tonight's Activities

- Turning Point Polling
- Large Group Discussion
- Informal Comment Period

Polling Exercise:

Do you support these
Reduction and Adaptation
Measures?

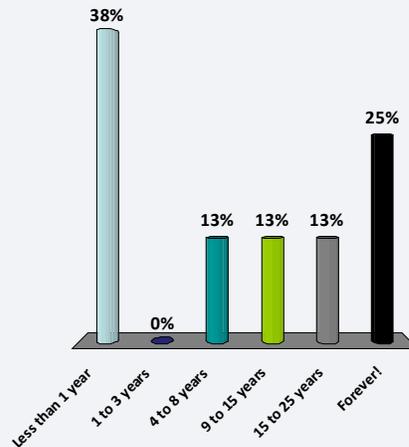


Please remember...

- Electronic polling takes a “snapshot” of the opinions in the room now
- It is not a statistically valid survey technique
- The results are anonymous
- There are more reduction measures than what you see include in this polling presentation

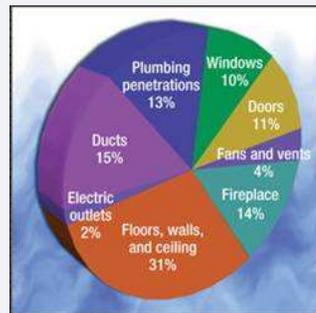
How long have you lived in Vallejo?

1. Less than 1 year
2. 1 to 3 years
3. 4 to 8 years
4. 9 to 15 years
5. 15 to 25 years
6. Forever!



E-1. Building Stock: Existing

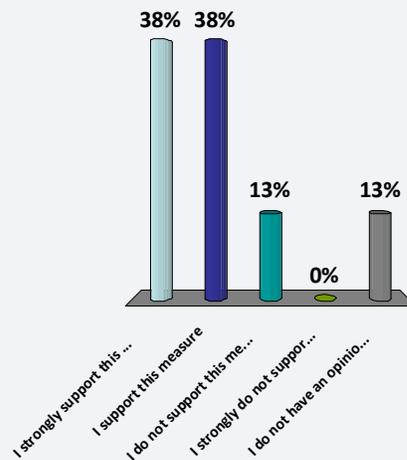
- Connect residents & business with technical & financial assistance for:
 - Energy efficiency audits
 - Retrofit installations
 - Low Income weatherization
 - Low interest energy efficiency & renewable energy financing such as PACE or equivalent



E-1. Building Stock: Existing

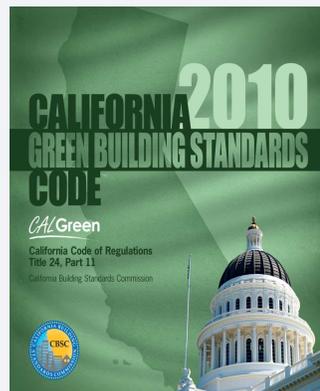
Facilitate energy efficiency upgrades and retrofits in existing commercial, residential, and industrial buildings by connecting residents and businesses with technical and financial assistance.

1. I strongly support this measure
2. I support this measure
3. I do not support this measure
4. I strongly do not support this measure
5. I do not have an opinion on this measure



CALGreen Building Standards Code 2010

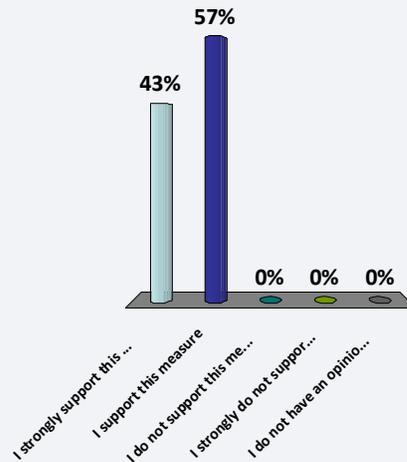
- Now in effect
- Adopt energy efficiency standards 15% above CALGreen Code for
 - New Construction
 - Remodels over 50%
 - Tenant improvements
- Enforce thru Title 24 review & green building checklist



E-2. Building Standards

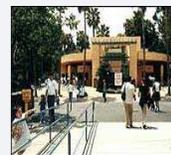
Require all new development to exceed minimum energy efficiency and green building requirements by 15% (CALGreen Tier 1).

1. I strongly support this measure
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E-4. Urban Heat Island Mitigation

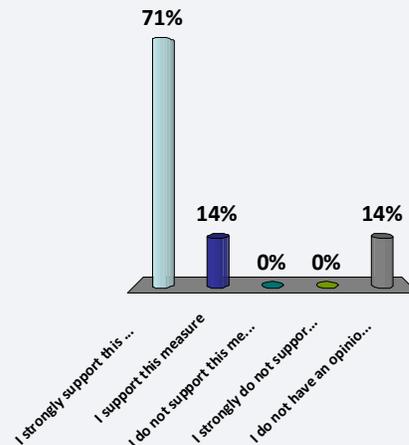
- Enforce Cool Roof requirements
- Achieve 50% surface pavement shading on large projects
- Use appropriate paving materials



E-2. Building Standards

Increase tree planting and the use of cool roofs and cool pavement materials to reduce the urban heat island effect and corresponding energy consumption. Implement tree replacement policy for projects where tree removal is necessary.

1. I strongly support this measure
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RE-1. Renewable Energy Installation

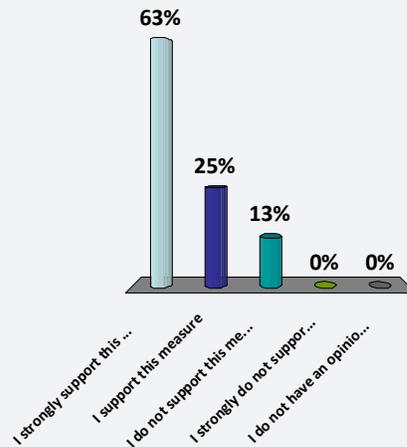
- Support small – scale renewable energy systems (less than 5 MW)
 - Solar photovoltaic and thermal
 - Wind, river current, and tides
 - Electrical conversion
- Remove barriers to small scale solar systems
 - Review current processing and fees
 - Provide staff training and
 - Pre-wire & pre-plumb new homes



RE-1. Renewable Energy Installation

Support the installation of small-scale renewable energy systems including solar photovoltaic, solar thermal, and wind, river current, and tidal energy conversion systems.

1. I strongly support this measure
2. I support this measure
3. I do not support this measure
4. I strongly do not support this measure
5. I do not have an opinion on this measure



TDM-2. Mixed Use, Higher Density Transit Oriented Development

- Provide a high density multifamily residences
- Add incentives to increase density
- Orient projects to transit, bicycle, pedestrian routes
- Encourage pedestrian oriented plazas and trails
- Mixed use to include neighborhood services

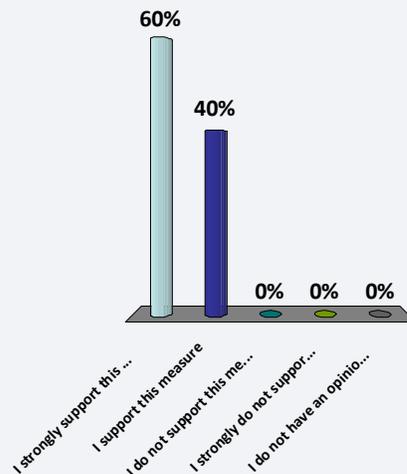


TDM-2. Mixed-Use, Higher Density Transit Oriented

Development

Promote mixed-use, higher-density development near transit nodes.

1. I strongly support this measure
2. I support this measure
3. I do not support this measure
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TDM-7. Commute Behavior

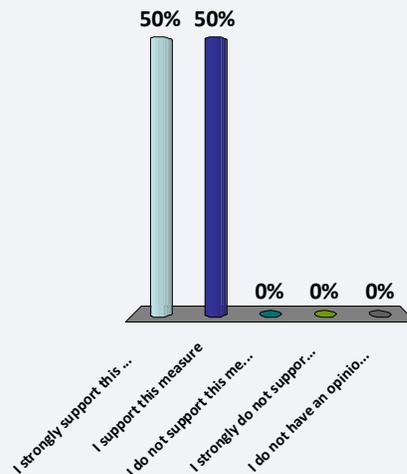
- Use transportation system demand management techniques for new development
- Participate in Safe Routes to Schools Program
- Collaborate with Solano Transportation Authority & Solano County to expand rideshare and regional commute alternatives
- Support use of HOV lanes for fuel efficient vehicles
- Provide parking Incentives



TDM-7. Commute Behavior

Reduce emissions from commute travel to and from schools and workplaces.

1. I strongly support this measure
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5. I do not have an opinion on this measure



W-1. Water Conservation Efforts

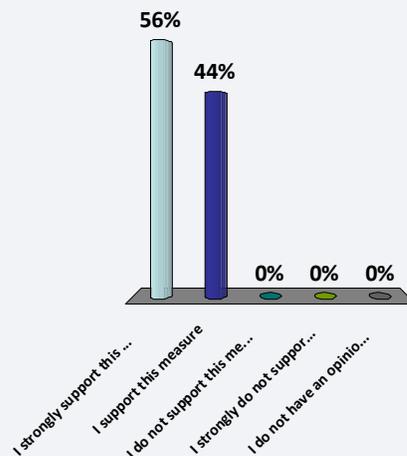
- Include conservation measures with water bills & incentivize water conservation
- Enforce City's Wasteful Water Prohibition Ordinance
- Require new buildings to install water meters for each tenant space consuming 10 gallons per day & provide separate meters for landscaping
- Require measures in new development to reduce water use & retain run-off on site



W-1. Water Conservation Efforts

Promote and require water conservation through outreach and pricing.

1. I strongly support this measure
2. I support this measure
3. I do not support this measure
4. I strongly do not support this measure
5. I do not have an opinion on this measure



City Government Operations (CG) – Green by Example

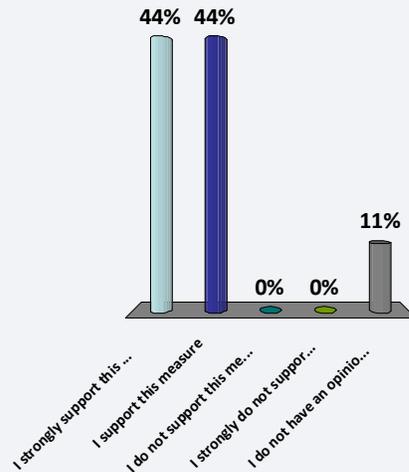
- Create a Green Team to implement the CAP
- Pursue funding
- Prioritize and implement cost-effective efficiency projects for City government facilities and operations
- Educate and inform the community



City Government Operations (CG)

Establish the City of Vallejo as a leader in greenhouse gas management through efficiency improvements to City buildings, vehicles, operations, and water and waste facilities.

1. I strongly support this measure
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Adaptation (A)

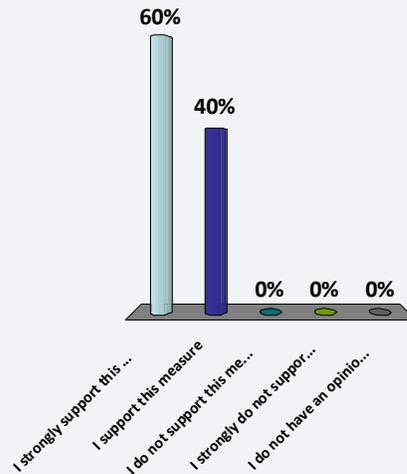
- Obtain training & provide public information
- Evaluate long-range climate impacts such as sea level rise to Vallejo
- Link adaptation strategies to hazard mitigation
- Monitor, measure, & inform



Adaptation (A)

Improve Vallejo's Resiliency to possible climate change effects through adaptation and preparation.

1. I strongly support this measure
2. I support this measure
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4. I strongly do not support this measure
5. I do not have an opinion on this measure



Next Steps

- Refine measures based on feedback tonight
- Quantify measures
- Develop Draft Climate Action Plan

Thank you for participating!

For additional information about this project,
please contact:

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City of Vallejo

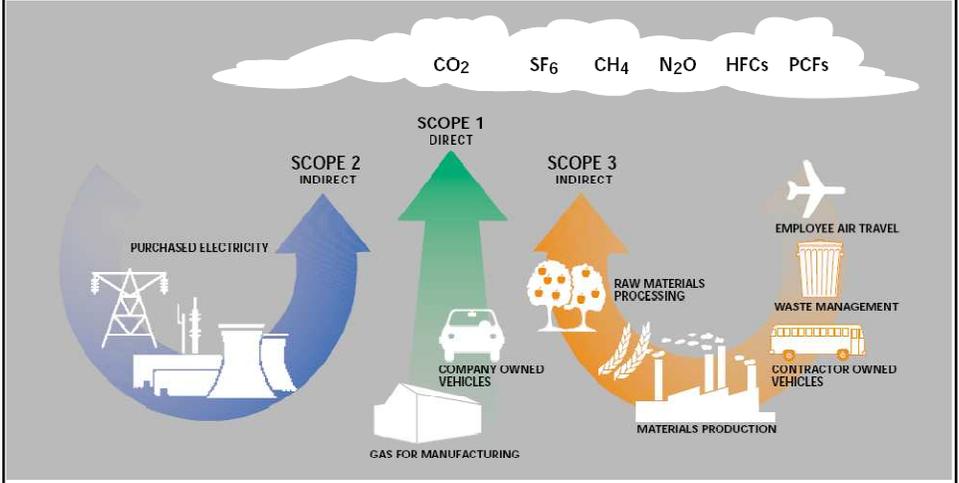
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What are Greenhouse Gases?



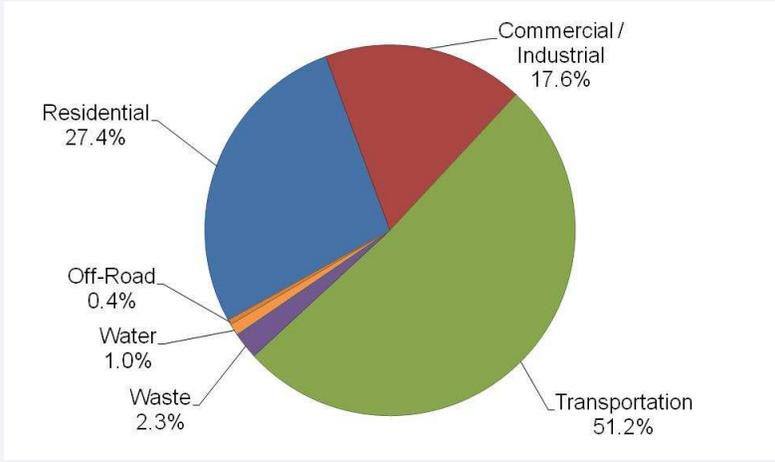
Source: NZBCSD (2002), *The Challenge of GHG Emissions: the "why" and "how" of accounting and reporting for GHG emissions: An Industry Guide*, New Zealand Business Council for Sustainable Development, Auckland

Visualizing One Metric Ton 2,205 pounds of Carbon Dioxide

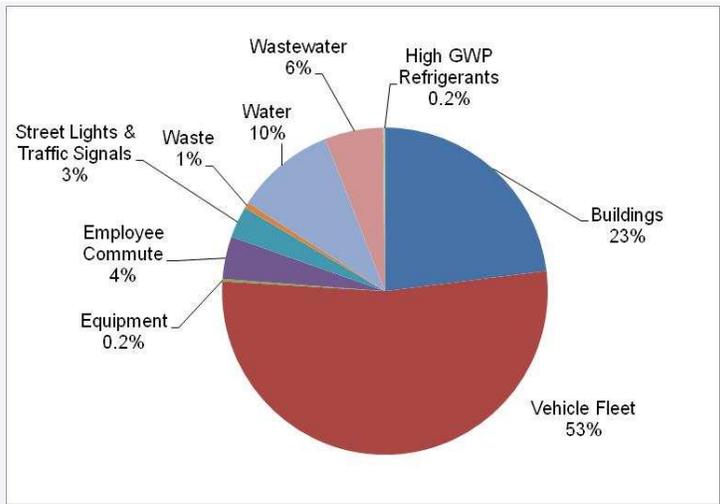


Dave Ames, Cohasset, MA - Photo via <http://www.sustainablemilton.org>

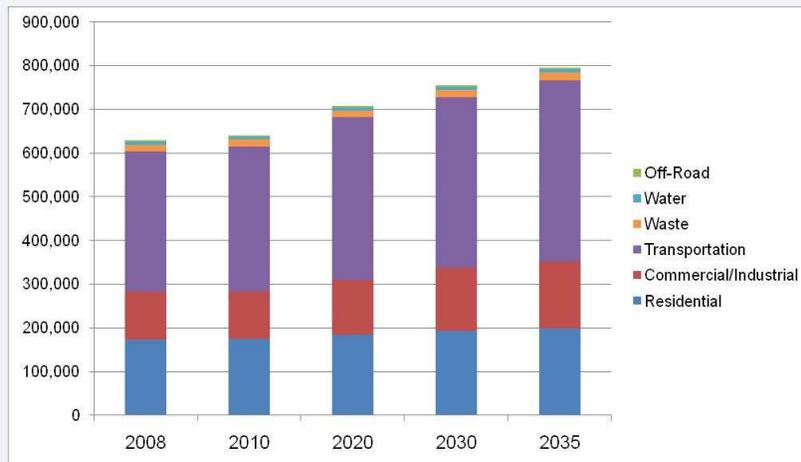
2008 Community-Wide GHG Emissions



2008 City Government Operations GHG Emissions



2020 and 2035 Community-Wide GHG Emissions Forecast



Discussion Ground Rules

- **Listen:** simply listen carefully to the other speakers and to your own reactions.
- **Respect:** accept the validity of another point of view, even if you disagree. Lively conversation is encouraged, but respect is the foundation of our discussion.
- **Suspend judgment:** consider the possibility that others may be right or have an approach that you had not considered.
- **Speak up, and share the time:** share your views fully and honestly with everyone, but be mindful of the time available for everyone to have an opportunity to speak.
- **Take responsibility for the success of this meeting.**