

Proposed AB 32 Voluntary Early Action Measure

Local Government Toolkit Guidance and Resources to Save Money and Reduce GHG Emissions

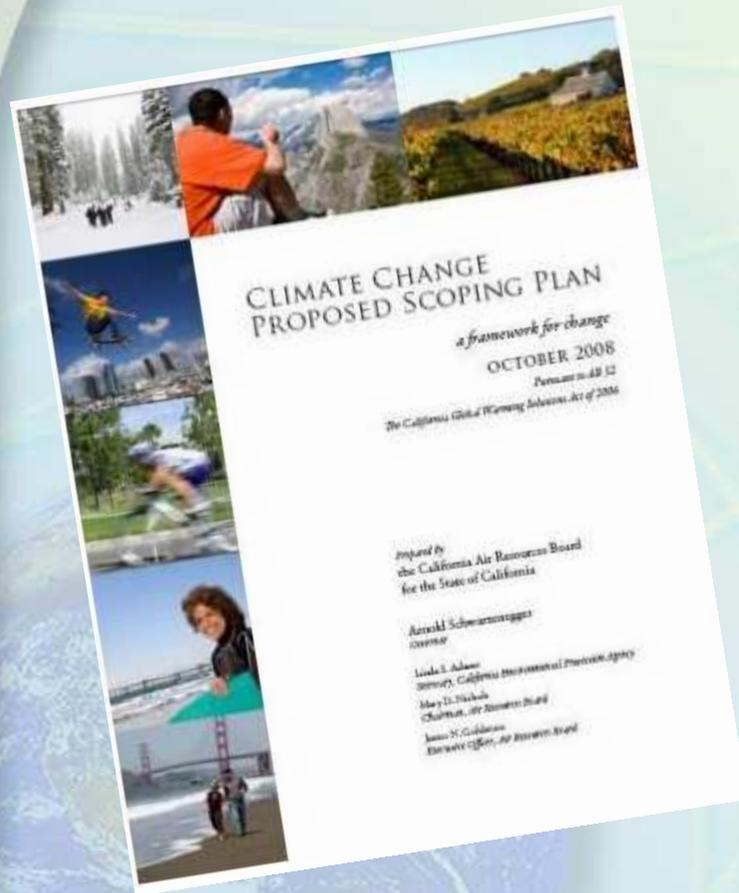
May 28, 2009

California Environmental Protection Agency

 **Air Resources Board**

Role of Local Government

Achieving the Goals of AB 32

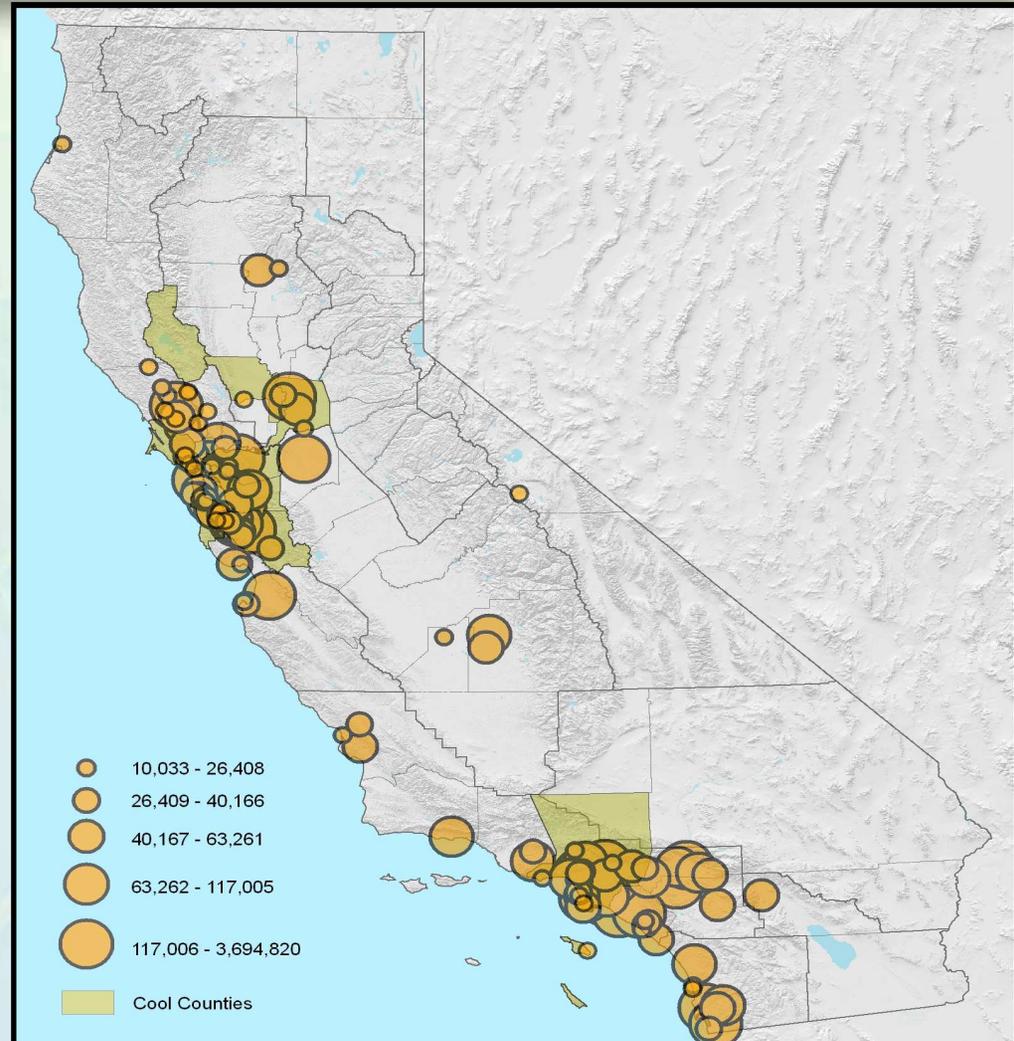


- Local Governments are Essential Partners
- Influence and Exclusive Authority Over Significant Emission Sources
- Reduce GHG Emissions 15% Below Current (2008) Levels by 2020
- Assist with Meeting Regional Targets Mandated by SB 375

California Local Governments Taking Action to Address Climate Change

- 30% of CA Cities Signed US Conference of Mayors
 - Reduce 7% Below 1990 Levels by 2020

- 9 CA Counties Registered as Cool Counties
 - Reduce 80% Below Current Levels by 2050



Local Government Resources

What is Available

- Contacted Organizations Providing Assistance
- Identified Resources Currently Available
 - General Plan Guidance
 - Best Practices
 - Technical Assistance
 - Newsletters & Education
 - Registry for Emissions
- Determined Opportunity Areas and Gaps



Local Government Resources

What is Missing

- A place with all climate action resources at no cost, specifically:
 - Details on how to implement climate friendly actions
 - Case studies
 - Climate action plan templates
 - List of available financial resources

Local Government Guidance Process to Develop the Toolkit

- Coordinated initial ideas with the Land Use Climate Action Team (LUSCAT)
- Summarized resources needed in Climate Change Scoping Plan
- Conducted research and drafted content
- Formed an ARB Team, State Agency Experts, and Toolkit Advisory Group
- Held a public workshop and presented draft content at numerous external conferences
- Recruited Cities and Counties to Test Drive Toolkit

Local Government Toolkit

Project Partners and Advisory Group Members

- California State Association of Counties
- League of California Cities
- Institute for Local Government
- Local Government Commission
- California Air Pollution Control Officers Association
- State Agencies (OPR, CEC, CPUC, DOC, IWMB, DWR, DGS, CalTrans)
- City and County Representatives
- Special District Representatives
- ICLEI, Local Governments for Sustainability
- The Climate Registry
- Private Consultants

Local Government Toolkit

www.CoolCalifornia.org

CoolCalifornia.org

Small Business Toolkit

Local Government Toolkit

Individual Tools

The screenshot shows the homepage of CoolCalifornia.org. At the top, the logo 'CoolCalifornia.org' is displayed with the tagline 'GOVERNMENT • UNIVERSITY • NGO PARTNERSHIP'. Navigation links include HOME, INDIVIDUALS, SMALL BUSINESS, LOCAL GOVERNMENT, YOUTH, COMMUNITY ORGANIZATIONS, SCHOOLS, and ABOUT US. A search bar is located in the top right corner. The main content area features a large banner with the text 'TAKE ACTION TO KEEP THE PLANET COOL' and an image of a person working on solar panels. Below the banner, there is a section titled 'Join millions of Californians already working to solve Global Warming and keep California Cool.' and an 'About CoolCalifornia.org' section. On the left side, there is a 'Most Popular' section with links to 'Join a Network', 'Reduce Your Climate Impact', 'Save Money & the Planet', 'Money to Get You Started', 'California Success Stories', and 'Climate Awards'. At the bottom left, there is a 'Cool Tip' section about 'Eco-Driving' and a 'Join our mailing list:' section.

Local Government Toolkit

“One-Stop Shop” to save money & facilitate **voluntary** GHG reductions

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Local Government Toolkit

A “one-stop-shop” of guidance and resources to help local governments reduce greenhouse gas emissions and save money.

Cities and counties are essential partners contributing significantly to California’s efforts to reduce greenhouse gas (GHG) emissions. Many cities and counties are already taking action to be part of the solution to address climate change.

The purpose of this Local Government Toolkit is to identify cost saving actions, financial resources, and case studies to assist local governments with achieving GHG emission

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Highlights

- What is the Local Government Toolkit?
- Why are Local Governments Essential Partners?
- How Can Local Governments Contribute to the Solution?
- What is AB32 or the Global

Toolkit Components

Local Government Toolkit

- ***Climate Action Planning***
 - Tips, Templates, & Sample Measures
- **How to Save Money**
 - Save Energy
 - Drive Less & Drive Clean
 - Use Renewable Energy
 - Save Water
 - Recycle and Cut Waste
 - Buy Green
 - Build Green
- ***Financial Resources***
- **Climate Calculators**
- ***California Success Stories***



Climate Action Planning

GHG Emission Reductions

- Lead By Example in Municipal Operations
 - GHG Emissions Inventory:
Local Government Operations Protocol
 - Take Climate Action to Reduce GHG Emissions
- Set Policy for Community Action
- Challenge Residents and Businesses



Toolkit Component

Tips for Climate Action Planning

- Climate Action Plan Template
- Rules of Thumb to Estimate Reductions
- Sample Measures to Reduce GHG Emissions
 - Based on Statewide Emission Inventory



Avoided Energy Consumption	CO ₂ E (pounds)	CO ₂ E (metric tons)
1 MMBtu of Natural Gas	117	0.053
1 Gallon of Gasoline	20	0.009
1 kWh of CA-Grid Average Electricity	1	0.0004

Sample Measures to Reduce GHG Emissions

- Retrofit Municipal and Commercial Buildings
- Establish a Home Retrofit Program
- Green Fleet Vehicles



Climate Action Planning

Building Retrofit Programs

Climate Action Plan <i>Sample Measures</i>		Annual GHG Reductions (metric tons CO ₂ E)	
		Retrofit Municipal Buildings ₁ (10,000 ft ²)	Home Retrofit Program (25 Homes)
Existing Building Retrofits	Retrofit Buildings to Use 25% Less Energy	17	30
	Install On-Site Solar PV Generation	15	18
	Install Solar Hot Water Panels	1	10
	Total Estimated GHG Reductions	33	58

Local Government Implementation

Retrofits to Existing Buildings

- Examples of Local Government Implementing Sample Measures

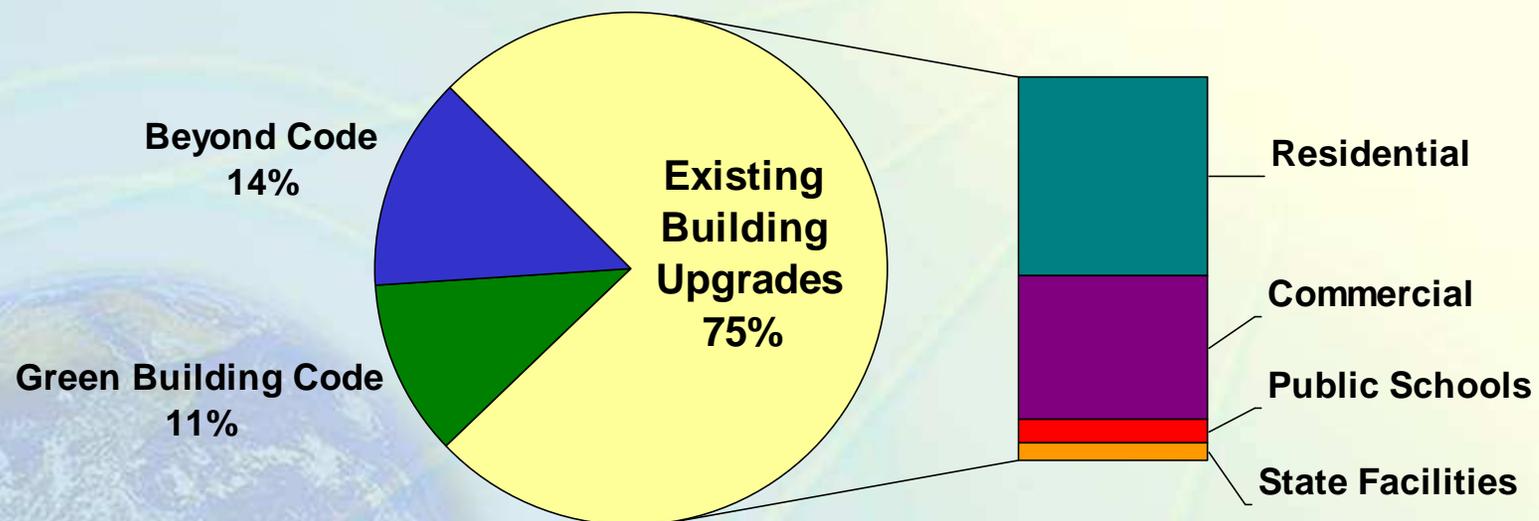
Local Government		GHG Emission Reductions (metric tons of CO ₂ E)	
		Retrofit Existing Buildings	Install On-Site Solar PV
Actual* and Projected Reductions	Berkeley	2,200-2,700*	11,600
	Redding	7,516*	83
	Los Angeles	91,000	5,800
	San Francisco	800,000	550,000

- Expansion of Local Level Programs Can Lead to Achieving Statewide GHG Targets

Green Building Strategy

Solution for Cross-Sector GHG Reductions

GHG Emission Reduction Potential of the Green Building Strategy



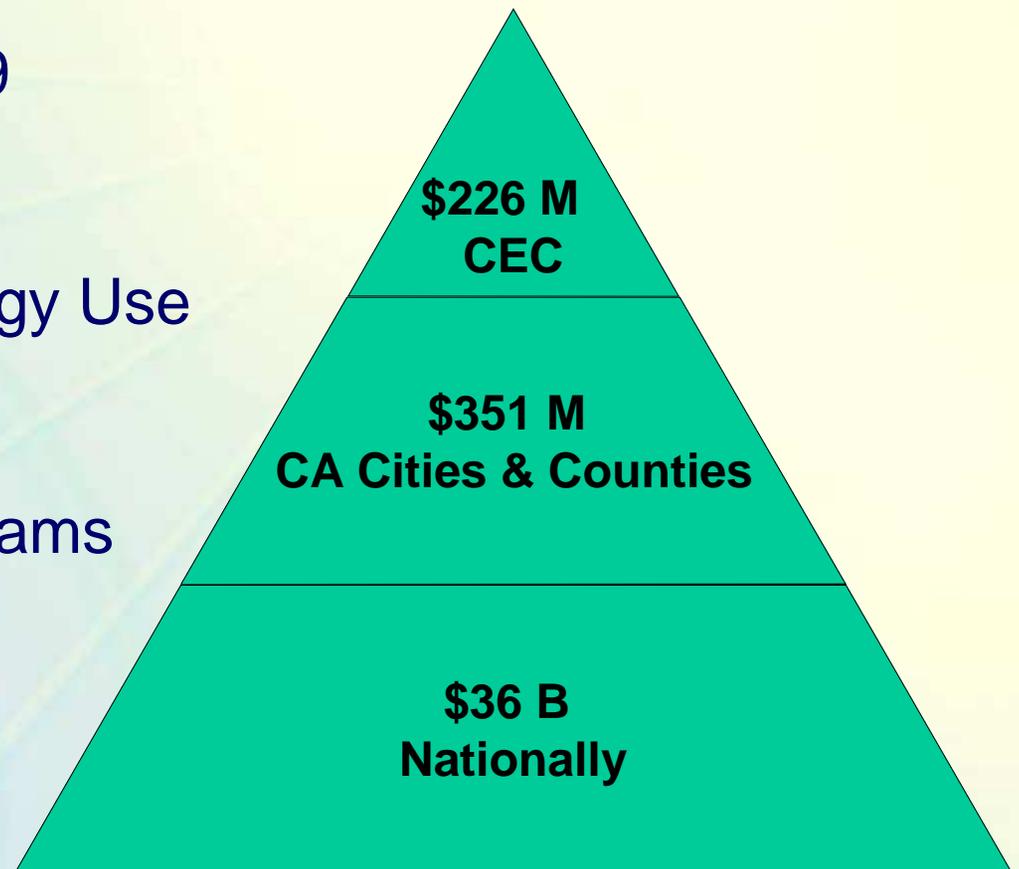
26 MMT CO₂E

Buildings Represent 15% of 2020 Target

Local Government Stimulus Funds

Unique Position to Fund Climate Action

- American Recovery and Reinvestment Act of 2009
- Funding to CA Cities & Counties to Reduce Energy Use
- Energy Efficiency and Renewable Energy Programs
- Other Recovery Funding
 - Clean Cities
 - Weatherization Assistance
 - DOE Competitive Financing, e.g. Cool Roofs



Toolkit Component

Financial Resources

- Toolkit provides financial resources in 8 action areas
- Also offers guidance to spend stimulus funds
- Use Energy Efficiency Conservation Block Grant funds to develop Climate Action Plans
- Apply for CEC State Energy Program funds to Support Existing Building Retrofit Programs
- Leverage Grant Funding through Establishing Innovative Financial Incentives
 - AB 811 Tax-Bill Financing Program
 - City-FIRST: Berkeley, Sonoma, and Palm Desert
 - Coordinate at the Regional Level

Toolkit Component

California Success Stories

- Many cities and counties with innovative ideas
- Summarize comprehensive strategies
- Provide examples of GHG reductions & cost savings
- ILG to develop more detailed case stories



Toolkit Component

California Success Stories

Riverside: An Emerald City Pilot Project

Climate Commitment

- Reduce 7% Below 1990 Levels by 2012

Green Actions

- Green Riverside Action Plan
- Green Building Policy
- 50% Renewable Energy by 2013
- Solar Rebate Program
- Riverside Recycle Water Project



Toolkit Component

California Success Stories

Sonoma County: No City Left Behind

Climate Commitment

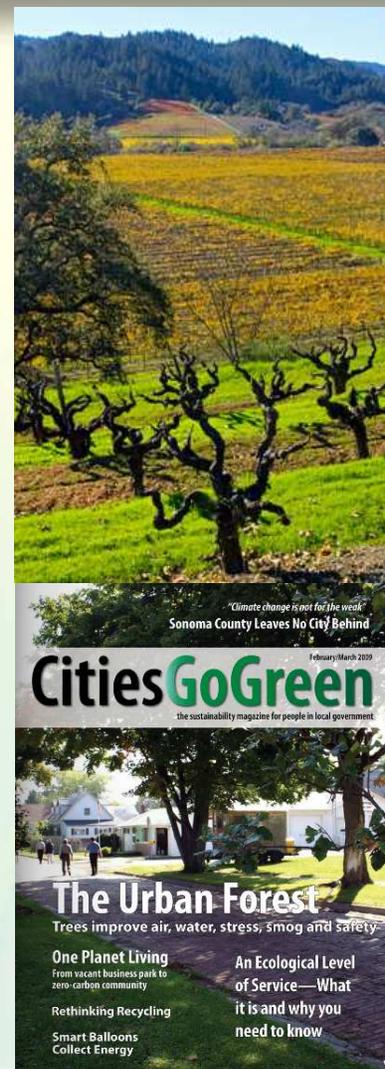
- Reduce 25% Below 1990 Levels by 2015

CO₂E Reduced Annually

- Energy Efficiency FIRST– 168,000 tons
- Smart Transit & Land Use – 588,000 tons
- Renewable Grid Energy – 630,000 tons

Financing Tools

- AB 811
- Community Choice Aggregation
- Pay-As-You-Save®



Local Government Toolkit

Distribution Strategy

- **Partnerships with Project Partners**
 - League of California Cities
 - California State Association of Counties
 - Air Districts
 - CA.gov
- **Community Forums**
 - Multiple forums across the State to introduce the Toolkit and facilitate connections to local resources
- **Presentations**
 - Conferences, trade fairs, individual
- **Marketing Strategy**

Local Government Toolkit

Future Components

- Decision Support Tool
- Financial Wizard
- Videos of Success Stories
- Peer Networking Online Forum
- Climate Leadership Recognition Program
- Carbon Footprint Challenge



Local Government Toolkit

Milestones and Measures of Success

Over the next 5 years encourage cities to:

- ❖ Adopt reduction targets
- ❖ Conduct baseline GHG inventories
- ❖ Establish and implement Climate Action Plans
- ❖ Measure and track reductions

Conclusion

- With the proper resources and tools, local governments can help ARB to achieve the goals of AB 32
- ARB staff will conduct research to evaluate actual GHG reductions from municipal buildings & green building retrofit programs
- Continue to work with Local Governments to refine, improve and distribute the Toolkit