Toolkit for Local Governments to Facilitate GHG Emission Reductions

Dana Papke
Air Pollution Specialist
Research Division
California Air Resources Board
dpapke@arb.ca.gov
(916) 324-9615

Local Government Action

- Many Local Governments Already Taking Action to Reduce GHG Emissions

- Significant Role in Statewide Efforts

- Establishing Local GHG Targets

- Leading by Example with Municipal Operations

- Developing Climate Protection Plans

- Implementing Local Programs

- ARB is Building a "Local Government Toolkit"
  - Assist local governments with GHG emission reductions

Local Government Toolkit

- GHG Emission Reporting Protocols

- Best Practices

- Case Studies

- Decision Support Tools

- Climate Calculators

- Financing Strategies

- Peer-Networking Online Discussion Forum

- Award Programs

GHG Emission Reporting Protocols

- Local Government Operations Protocol
  - GHG emissions reporting for municipal operations
  - Approved by ARB, CCAR, and ICLEI Boards
- Program Neutral Guidance
- Methodologies to Calculate GHG Emission Inventory
- Does Not Quantify Emission Reductions from Projects
- Available Online:
  - **www.arb.ca.gov/cc/protocols/localgov/localgov.htm**
- Community-scale GHG Emissions Inventory Protocol
  - Will begin in late 2008

Local Government Operations Protocol

- Direct and Indirect Emissions from:
  - Buildings and other facilities
  - Streetlights and traffic signals
  - Water delivery and wastewater treatment facilities
  - Port and airport facilities
  - Vehicle and transit fleets
  - Power generation facilities
  - Solid waste facilities
  - Other process and fugitive emissions

- Emission Inventory Can Assist In:
  - Tracking annual performance
  - Identification of reduction opportunities
  - Creating a strategy to further reduce emissions

- Does Not Cover GHG Reduction Projects

Best Practices: Climate Action Areas

- Energy Efficiency and Conservation
- Green Building
- Waste Reduction and Recycling
- Water and Wastewater Systems
- Climate-Friendly Purchasing
- Alternative Energy
- Cool Communities (cool roofs, shade trees, cool pavement)
- Land Use and Community Design
- Promoting Individual and Community Action

Toolkit Component
Case Studies

- Video, Short Description and Picture
- Highlight GHG Reductions Achieved
- Costs/Savings/Payback
- Incentives
- Resource Links

Climate Calculators

- California Registry Reporting Online Tool (CARROT)
  - ❑ California Registry's online GHG reporting tool
  - ❑ No longer accepting members after end of October 08
- Clean Air and Climate Protection Software
  - ❑ ICLEI (Local Governments for Sustainability) software for estimating municipal operations and community scale GHG emissions inventory.
  - ❑ Being updated by end of 2008

Climate Calculators

- Project 2 Degrees − ICLEI (Local Governments for Sustainability)

- Climate Registry Information System (CRIS) − The Climate Registry

- ARB Evaluating Applicability of Tools

- Assist Local Governments with Calculating GHG Emissions Inventory

- Consistent with Local Government Operations Protocol Calculation Methods

Toolkit Component
Decision Support Tool

- Climate and Air Pollution Planning Assistant (CAPPA)
- Under Development by ICLEI
- Assistance to Develop Customized Plans for Reducing GHG Emissions and Local Air Pollution
- Scheduled for Release in Winter/Spring 2009
- ARB Anticipates Initiating a Contract with ICLEI to Develop California Content
- Primary Decision Support Tool for Local Governments
- Comprehensive, Customizable and Expandable Library of Emission Reduction Strategies

Toolkit Component
Funding Resources

- Up-to-date Summary of Available Resources
  - Rebate Programs
  - Loans
  - Third Party Financing
- Links to More Information
- Organized by Best Practices Topic Area

Climate Leadership Recognition Program

- Measurable GHG Reductions

- Baseline Inventory

- Climate Action Plan

- Implement Programs

- Inventory to Compare with Baseline

- 3 Levels of Recognition

Toolkit Available at CoolCalifornia.org

Local Government Toolkit
Next Steps and Timeline

- Website Development   − Underway
- Post Toolkit Material on CoolCalifornia.org   − Dec 08
- Release Toolkit for Public Comment   – Jan 09
- Workshop in Northern CA   – Feb 08
- Workshop in Southern CA   – Feb 08
- Board Hearing   – April 09