



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Climate Protection Program Update

Climate Protection Committee
January 15, 2015

Henry Hilken,
Director of Planning, Rules & Research

Abby Young
Principal Environmental Planner



Climate Protection Work Program

Represents the focus and direction of the Air District's Climate Protection Program in 2014/2015, and includes:

Technical Program

- Inventory and Forecasting
- GHG Emissions Monitoring
- GHG Rule Enforcement

Assist Local Governments

- Support & Enhance Local Action
- Report Progress to the Public

Policy Approaches

- GHG Reduction Goals
- Regional Climate Strategy
- Rule Development
- Climate Change & Public Health
- Bay Area's Energy Future



Regional Climate Protection Strategy

Regional Climate Protection Strategy (RCPS) will focus on Scoping Plan Sectors

Energy

Transportation

Green Buildings

Water

Waste

Agriculture

Natural & Working Lands

Cap & Trade

Short-lived Climate Pollutants

Through a sector-by-sector analysis of:

- Quantitative gap in reducing GHGs
- Policy gaps in addressing GHGs
- Best role and value-added for Air District



Regional Climate Protection Strategy

Sector-based Gap Analysis

Step 1: Determine 1990 – 2030 GHG emissions for sector

Step 2: Assess federal, state, regional and local policies impacting sector GHGs in the Bay Area

Step 3: Draft “Gap Analysis” memo, send to sector experts

Step 4: Convene meeting with sector experts from public agencies, private sector, and advocacy groups to review and provide feedback

Step 5: Incorporate feedback into text of RCPS and Clean Air Plan control measures



Regional Climate Protection Strategy

Sector expert meetings convened

Transportation

Natural & Working Lands

Short-lived Climate Pollutants

Agriculture

- A total of 33 outside experts attended meetings
- Clarifications on inventory, projections and overlap with other sectors
- Discussion focus on needed policies and role of Air District

**Input will be incorporated into text of RCPS
and 2015 Clean Air Plan GHG reduction measures**



Regional Climate Protection Strategy

Next steps for RCPS:

- ✓ Convene expert meetings on remaining sectors (January):

Energy

Cap & Trade

Water

Waste

Green Buildings

- ✓ Draft text of RCPS:

- Discussion of climate planning at federal, state, regional and local levels
- Discussion of climate change impacts and adaptation in the Bay Area
- Nine Sector analyses
- GHG reduction strategies

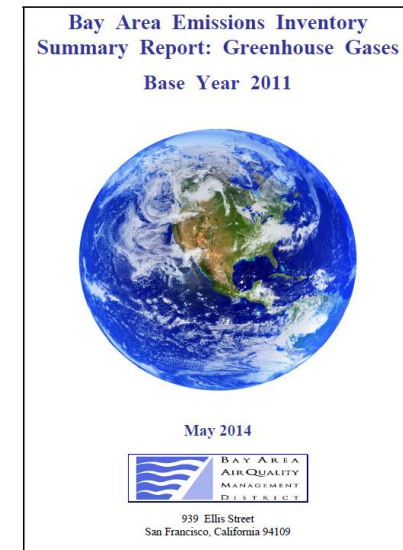
Technical Program

Update Inventorying & Forecasting:

- ✓ Updated *Bay Area Emissions Inventory Summary Report*
 - Base year 2011
 - Emissions trends from 1990 through 2030

In the Works:

- ✓ Forecasts for 2035 and 2050
- ✓ Adding new elements to inventory and forecast
 - Additional pollutant: black carbon
 - Consider natural GHG “sinks”: regional and urban forests
 - Methane assessments/concentration measurements
 - Impacts from local climate action plans
 - Impacts from local cap & trade offsets
- ✓ Forecast scenarios incorporating federal, state, regional & local GHG policy impacts
- ✓ Consumption-based inventory



Technical Program

Implement GHG Emissions Monitoring:

- ✓ Continuing collaboration with UC Berkeley Atmospheric CO₂ Observing Network (BEACON) on CO₂ and air pollutant measurements
- ✓ Preparing for regional methane monitoring
- ✓ Planning local, source-based methane measurements





Assist Local Governments

Support & Enhance Local Action:

- ✓ Continue providing continuous support to local government staff:
 - Review and comment on climate action plans (CAPs)
 - Respond to daily requests for information and guidance
 - Facilitate the sharing of best practices
 - Facilitate networking between local government and state agency staff
 - Provide and help interpret data for GHG inventories
 - Ongoing support and guidance for 58 Bay Area CAPs
- ✓ Actively monitor and participate in state and federal initiatives that forward local climate planning

Assist Local Governments

Report Progress to the Public:

- ✓ With JPC, convened webinar for 20+ local governments on GHG indicators
 - Need for standardized methods for measuring and analyzing data
 - Focus on fewer, but meaningful, indicators
 - Co-benefit indicators on health, economy help climate story resonate with broader audience

41.3

7.4

17.5



Policy Approaches

Climate Change & Public Health:

- ✓ Developing climate change impacts and public health content for Regional Climate Protection Strategy



Explore the Bay Area's Energy Future:

- ✓ Advisory Council studied this issue in 2014 and is developing recommendations for the Board





Rule Development

- ✓ Potential measures to reduce GHGs in the 2015 Clean Air Plan:
 - Control Measures
 - Black carbon from back-up generators*
 - Methane leaks from oil and gas wells, including capped wells*
 - Methane from leaking equipment at refineries and marine loading operations
 - Methane from solid waste disposal sites
 - Methane from composting operations
 - Study Measures
 - Incorporate GHG emissions reduction into permitting program (consulting with CARB)
 - Increase deployment of heat mitigating strategies (Advisory Council)
 - Reducing GHGs from combustion devices

*Rule development underway



Staffing Resources

Staff resources assigned to Climate Protection

- ✓ 7.3 FTE in preliminary budget for FYE 2016

Hiring of new staff for Climate Protection

- ✓ Senior Environmental Planner hired in 12/2014
- ✓ Senior AQ Engineer hired 12/2014 (Rule Development)
- ✓ Senior AQ Engineer recruitment underway (Emission Inventory)
- ✓ 2 additional staff positions to be hired in FYE 2016 (Technical Services, Compliance & Enforcement)



Next Steps

Continue developing staff resources

- ✓ 1 climate staff position to be filled in FYE 2015
- ✓ 2 climate staff positions to be filled in FYE 2016

Develop the Regional Climate Protection Strategy

- ✓ Complete sector-based gap analysis
- ✓ Continue developing consumption-based inventory
- ✓ Continue developing control measures/rule development
- ✓ Public workshops in March/April