



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

BOARD OF DIRECTORS
CLIMATE PROTECTION COMMITTEE
COMMITTEE MEMBERS

YORIKO KISHIMOTO – CHAIR
SUSAN GARNER
SCOTT HAGGERTY
MARK ROSS

TOM BATES – VICE CHAIR
JOHN GIOIA
CAROL KLATT
GAYLE B. UILKEMA
JENNIFER HOSTERMAN

**FRIDAY
DECEMBER 11, 2009
9:30 a.m.**

**4th FLOOR CONFERENCE ROOM
939 ELLIS STREET
SAN FRANCISCO, CA 94109**

AGENDA

1. CALL TO ORDER - ROLL CALL

2. PUBLIC COMMENT PERIOD

(Public Comment on Non-Agenda Items Pursuant to Government Code § 54954.3) Members of the public are afforded the opportunity to speak on any agenda item. All agendas for regular meetings are posted at District headquarters, 939 Ellis Street, San Francisco, CA, at least 72 hours in advance of a regular meeting. At the beginning of the regular meeting agenda, an opportunity is also provided for the public to speak on any subject within the Committee's subject matter jurisdiction. Speakers will be limited to three (3) minutes each.

3. APPROVAL OF MINUTES OF OCTOBER 8, 2009

4. OVERVIEW OF CLIMATE BAY AREA

J. Roggenkamp/4646
jroggenkamp@baaqmd.gov

The Committee will receive an overview of this new JPC initiative, including outcomes from its first meeting and activities for 2010.

5. STATUS REPORT ON THE IMPLEMENTATION OF GREENHOUSE GAS REGULATIONS FOR STATIONARY SOURCES

K. Wee/4760
kwee@baaqmd.gov

The Committee will receive a status report on efforts to coordinate and plan for implementation of greenhouse gas reduction measures. In addition, the Committee will receive a report on 3rd party verification training and accreditation for Mandatory Reporting of Greenhouse Gas Emissions.

6. COMMITTEE YEAR END REVIEW

J. Roggenkamp/4646
jroggenkamp@baaqmd.gov

The Committee will receive a review of climate protection activities conducted by the Air District throughout 2009.

7. **COMMITTEE MEMBERS' COMMENTS**

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may; ask a question for clarification, make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda. (Gov't Code § 54954.2)

8. **TIME AND PLACE OF NEXT MEETING – 9:30 A.M. – Thursday, January 14, 2010, 939 Ellis Street, San Francisco, CA 94109**

9. **ADJOURNMENT**

**CONTACT THE EXECUTIVE OFFICE - 939 ELLIS STREET
SAN FRANCISCO, CA 94109**

**(415) 749-5130
FAX: (415) 928-8560
BAAQMD homepage:
www.baaqmd.gov**

- To submit written comments on an agenda item in advance of the meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- To request special accommodations for those persons with disabilities (notification to the Executive Office should be given at least three working days prior to the date of the meeting so that arrangements can be made accordingly).
- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District's offices at 939 Ellis Street, San Francisco, CA 94109, at the time such writing is made available to all, or a majority of all, members of that body. Such writing(s) may also be posted on the District's website (www.baaqmd.gov) at that time.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF DISTRICT MEETINGS

DECEMBER 2009

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Climate Protection Committee <i>(Meets 2nd Thursday each Month)</i> RESCHEDULED TO FRIDAY, DECEMBER 11, 2009	Thursday	10	9:30 a.m.	4th Floor Conf. Room
Board of Directors Climate Protection Committee <i>(Meets 2nd Thursday each Month)</i>	Friday	11	9:30 a.m.	4th Floor Conf. Room
Board of Directors Personnel Committee <i>(At the Call of the Chair)</i>	Wednesday	16	9:00 a.m.	4 th Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	16	9:45 a.m.	Board Room
Board of Directors Mobile Source Committee <i>– (Meets 4th Thursday of each Month)</i> - CANCELLED	Thursday	24	9:30 a.m.	4 th Floor Conf. Room

JANUARY 2010

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	6	9:45 a.m.	Board Room
Board of Directors Public Outreach Committee <i>(Meets 1st Thursday each Month)</i>	Thursday	7	9:30 a.m.	4 th Floor Conf. Room
Advisory Council Regular Meeting	Wednesday	13	9:00 a.m.	Board Room
Board of Directors Climate Protection Committee <i>(Meets 2nd Thursday each Month)</i>	Thursday	14	9:30 a.m.	4th Floor Conf. Room
Board of Directors Legislative Committee <i>(Meets 2nd Thursday each Month)</i>	Thursday	14	Following Board Climate Protection Cme. Mtg.	4 th Floor Conf. Room
Joint Policy Committee <i>(Meets 3rd Friday Every Other Month)</i>	Friday	15	10:00 a.m.	MTC Auditorium 101 8 th Street Oakland, CA 94607
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	20	9:45 a.m.	Board Room
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday each Month)</i>	Thursday	28	9:30 a.m.	4 th Floor Conf. Room

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Kishimoto and Members
of the Climate Protection Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: December 7, 2009

Re: Climate Protection Committee Draft Meeting Minutes

RECOMMENDED ACTION:

Approve attached draft minutes of the Climate Protection Committee meeting of October 8, 2009.

DISCUSSION

Attached for your review and approval are the draft minutes of the October 8, 2009 Climate Protection Committee meeting.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109
(415) 771-6000

DRAFT MINUTES

Summary of Board of Directors
Climate Protection Committee
4th Floor Conference Room
Thursday, October 8, 2009, 9:30 a.m.

Call to Order - Roll Call: Chairperson Yoriko Kishimoto called the meeting to order at 9:30 a.m.

Present: Chairperson Yoriko Kishimoto, Vice Chairperson Tom Bates; Susan Garner, Scott Haggerty, Carol Klatt, and Gayle B. Uilkema

Absent: John Gioia, Jennifer Hosterman and Mark Ross

Also Present: Chairperson Pamela Torliatt

Public Comment Period: None

Approval of Minutes of September 10, 2009: Director Uilkema made a motion to approve the minutes of September 10, 2009; seconded by Director Klatt; carried unanimously without objection.

Overview of Electric Vehicle Technologies

Acting Director of Strategic Incentives, Karen Schkolnick, provided an overview of electric vehicle technologies. She noted that the transportation sector accounts for 40% of GHG in the Bay Area, and electric vehicle technology is a promising solution to meeting reductions required to achieve climate goals and mandates.

Ms. Schkolnick presented a breakdown of 2007 transportation sector emissions, stating that since 1955 there has been a doubling of population, a tripling of vehicles, five times more vehicle miles traveled, and significant improvements in the internal combustion engines of vehicles. She described various electric vehicle types and their applications, with future additional types soon to be introduced, which include: Neighborhood Electric Vehicles (NEV), Hybrid Electric Vehicles (HEV), Plug-In Hybrids (PHEV), and Electric Vehicles (EV).

Directors questioned the functionality of electric, plug-in and hybrid vehicles currently on the road. Ms. Schkolnick presented examples, described charging stations, San Francisco's demonstration project which the Air District partially funded and described EV charging levels 1-3 (120V, 240V and 480V) and battery exchange/"switch stations" which she said are currently being tested.

Ms. Schkolnick said some reasons to focus on EVs include urgency to change, mass support from Air District partners, investments by Silicon Valley businesses, and recent technological

changes/improvements. Funding opportunities are important in EV technology; approximately \$7 million in TFCA funds has been reserved for alternative fuel vehicle infrastructure, vehicle projects and advanced demonstration projects. The Air District will work closely with the California Energy Commission (CEC), the California Air Resources Board (CARB), Department of Energy (DOE) and the Metropolitan Transportation Commission (MTC) to financially support projects in the near future and will work to streamline the grant application process to make it easier for applicants to apply.

Ms. Schkolnick said the Air District is positioned to meet challenges and is working with manufacturers of equipment and end users to test vehicle deployment in the Bay Area. Staff will work with state and private funding sources to install high speed charging stations and switch stations along major transportation corridors, and look at testing and charging and challenging environments such as multi-family dwellings and on-street parking situations, helping employers and areas where people congregate, and clean-fleet organizations to provide public education.

She said next steps include supporting EV regional efforts and partnerships, coordinating with CEC and ARB on funding and policies, continuing to ensure TFCA policies and programs support EVs, and leading large scale demonstration projects to accelerate EV deployment.

Public Comments: None

Committee Comments/Discussion:

Director Garner questioned the downside of electric vehicles. Ms. Schkolnick said more work on infrastructure and vehicles needs to be done to drive costs down and make EVs more efficient. Should EVs broadly proliferate, they will have a demand on stationary power sources. As technology is developed in the next few years, sustainable and renewable power sources should also be deployed so as not to incur a negative impact.

Chairperson Kishimoto questioned disposal of batteries. Ms. Schkolnick said manufacturers are switching over to lithium which is less toxic or non-toxic as compared to lead acid batteries of the 1990's. The cost of providing a larger powered battery is reduced, as well.

Director Garner suggested the Air District put significant effort towards mitigating any downsides of EVs. Director Bates discussed barriers of charging at home, voiced the need to develop infrastructure for fast charging, storage and sale back of electricity. Director Haggerty referred to the shelf life for batteries, obstacles for people purchasing EVs, and suggested the Air District pursue a battery buy-back program and partner with utilities.

Chairperson Torliatt acknowledged the diversity of charging stations, and suggested investing in infrastructure as opposed to the actual electric vehicles. Ms. Schkolnick said all jurisdictions are extremely involved in discussions and workshops. There are over 100 first generation Level 2 charging stations in the Bay Area alone which she said is different than what is being rolled out today, but still very much used. The Air District has been reviewing the network of charging sites and whether or not it makes sense to upgrade the most utilized locations. If sites are well-used, consideration can be given to installation of a Level 3 station. However, in moving forward to Level 2 and 3, there are still a variety of vehicles that can only take Level 1 or Level 2 charging from the early 1990's and this should remain while those vehicles still exist.

Director Bates confirmed with Ms. Roggenkamp that one of the JPC's six climate protection strategies is EVs, and work and coordination currently underway amongst agencies.

Chairperson Torliatt questioned development and availability of additional CNG vehicles. Ms. Schkolnick said CNG has been for many years a readily available technology. In recent years, the hybrid technology is competing strongly with CNG, where many high mileage vehicles had gone toward CNG and have switched to hybrid due to price. In certain applications, CNG continues to expand; however, there will be an entire portfolio of alternative fuels options.

Directors continued discussion of station installations and requirements for building and fire codes, and questioned best technology, building retrofits, comparisons and trade-offs of EV technology. Ms. Schkolnick agreed these could be covered in future presentations. She noted that charging systems are hard-wired at homes and an electrician would often be required. A regional-to-regional government working group is reviewing permitting requirements and sharing information so as to assist local jurisdictions. Auto manufacturers are also working hard to ensure the process is seamless to the consumer, such that those purchasing new automobiles would receive a home charging system with referral to an area electrician. Any time new or remodeled construction is proposed, it could be built for the potential of electrical vehicles, and she said most of it involves electrical wiring of homes or facilities. Chairperson Torliatt suggested the availability of funding for such upgrades to homeowners and commercial operators.

Chairperson Kishimoto acknowledged the significant interest in EV, suggested staff clarify roles of the JPC in terms of a master plan for EV infrastructure, coordinate with the smart grid, forward a link to the web portal on EV or consider hosting a web portal, information on electrical use by freight, rail, ships, and other forms of transportation, points of ensuring zero waste, information on tradeoffs when using electric vehicles, consideration for the next climate summit to focus on EV, and an assessment of what science is showing.

Director Uilkema suggested treating EV like an investment, asked staff to provide information on what infrastructure the Air District should be supporting and to identify the various types of applications, suggesting that the technology could be used by the Air District to address mitigations.

Mr. Broadbent said given current resources, the Air District will start to think about the best technology to invest in and development of infrastructure needs to support electric vehicles, which could return at the end of this year or early next year.

Chairperson Torliatt agreed there are challenges and also suggested measuring EV miles versus gasoline miles. Director Garner also asked staff to present information on how the oil companies are aligning themselves with the issue. Director Uilkema and Bates requested staff include an energy return/exchange presentation.

Committee Action: None; for information only.

Greenhouse Gas Measures in the 2009 Clean Air Plan

Director of Planning and Research, Henry Hilken, presented an update on the 2009 Clean Air Plan, stating that the multi-pollutant plan updates the 2005 Ozone Strategy and is an integrated plan to reduce ozone precursors, particulate matter, air toxics and GHGs.

He reviewed benefits of multi-pollutant planning, stating that the Air District optimizes co-benefits and minimizes trade-off's as staff defines control measures, and has developed a multi-pollutant evaluation methodology (MPEM) using best available tools and data to help analyze control measures. The methodology looks at the health impacts and economic benefits of reduced health

impacts from reducing pollutants and the MPEM has shown that reducing particulate matter achieves the greatest public health benefit.

Mr. Hilken reviewed and provided examples of the five different categories in the Control Strategy; stationary sources measures, mobile sources measures, transportation control measures, land use and local impacts measures and energy and climate measures.

Committee Comments/Discussion:

Chairperson Torliatt confirmed that composting would look at controls on green waste composting to control VOC and methane emissions and livestock may include controls or best management practices that look at ways to handle storage of the feedstock and how facilities are maintained.

Mr. Hilken noted that thresholds are being reviewed through the rule development process for smaller dairy and livestock facilities. He reported on new categories of energy and climate measures that would be handled not by District regulation but through incentive programs, partnerships with cities and counties and other entities to encourage energy efficiency, promote renewables, taking measures to encourage lighter colored and reflective roofs and tree planting. He added that land use and local impacts looks at promoting smart growth, infill, and transit-oriented development while being careful not to locate residents in hazardous locations.

Mr. Hilken said next steps include staff responding to comments and making adjustments where necessary, with the draft plan out for review later this month. A CEQA and socio-economic analysis will be done and staff expects to bring something to the Board early 2010.

Committee Action: None; for information only.

Committee Members' Comments: None

Time and Place of Next Meeting: 9:30 a.m. – Thursday, November 12, 2009
939 Ellis Street, San Francisco, CA 94109

Adjournment: The meeting was adjourned at 10:59 a.m.

Lisa Harper
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Kishimoto and Members
of the Climate Protection Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: December 7, 2009

Re: Overview of Climate Bay Area

RECOMMENDED ACTION

None. For information only.

BACKGROUND

The Joint Policy Committee has launched a new initiative called Climate Bay Area, to serve a coordinating and convening function for regional agencies, local governments, non-profit organizations and business groups actively working on climate protection. Climate Bay Area held its first meeting on November 17th, with approximately 70 people in attendance.

DISCUSSION

JPC staff will provide an update on the activities of the Climate Bay Area initiative, including outcomes from its November kick-off meeting.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Abby Young
Reviewed by: Henry Hilken

BAY AREA AIR QUALITY MANGEMENT DISTRICT
Memorandum

To: Chairperson Kishimoto and Members of the Climate Protection Committee

From: Jack Broadbent, Executive Officer/APCO

Date: December 2, 2009

Re: Status Report on the Implementation of Greenhouse Gas Regulations for Stationary Sources

RECOMMENDED ACTION:

Informational Report. Receive and file.

BACKGROUND

To ensure effective implementation of the AB32 Greenhouse Gas (GHG) Scoping Plan, the California Air Resources Board (CARB) has worked with local Air Districts and the California Air Pollution Control Officers Association (CAPCOA) to outline enforcement roles and responsibilities and develop the detailed implementation timeline. A draft joint workplan was developed with input from work groups which included air district representatives with significant sources subject to the GHG reduction measures. This process is a key step for CARB to meet their obligations to adopt and implement all GHG Reduction Measures by 2012.

On December 6, 2007, CARB approved the *Mandatory Reporting of Greenhouse Gas Emissions* regulation. This regulation requires the mandatory reporting and verification of GHG emissions for key sectors and facilities with significant combustion sources. Facilities subject to mandatory reporting will be required to have their GHG emissions report verified beginning in 2010 for their 2009 reported emissions. Only CARB-accredited “verification bodies” and “verifiers” may provide verification services for the purposes of mandatory reporting. Accreditation is available to independent firms and local Air Districts that have met the requirements specified in the regulation (Subchapter 10, Article 2, sections 95131 through 95133). The Bay Area Air Quality Management District (BAAQMD) has met the criteria to seek Verification Body accreditation.

DISCUSSION

Pursuant to CARB’s Resolution 08-47, CARB was directed to develop a joint workplan with CAPCOA to outline the efficient and effective implementation/administration of the Scoping Plan. There are numerous reduction measures that require coordinated efforts between CARB and the local air districts to implement, track, and identify opportunities for emission reductions. Recent work has included measures with focus on the removal of the methane exemption from, among others, existing refinery regulations, semiconductor operations, landfills, natural gas transmission, oil and gas extraction

operations, refrigerant management, and regional transportation. BAAQMD is an active participant in several of the workgroups that have been formed and has a long history with facilities identified in the GHG Reduction Measures.

Regarding GHG verification requirements, CARB has developed a rigorous training program and certification process for those parties seeking to become verifiers. During the first two weeks in October 2009, CARB conducted the training for local Air Districts. The final test date is set for December 2, 2009; a final list will be posted on CARB's website in January 2010.

Accreditation requirements for local Air Districts differ slightly from those of private firms; the primary differences are less staffing and exemptions from liability insurance. To receive Verification Body accreditation a local Air District must:

- have two lead verifiers,
- demonstrate that the District has procedures or policies to support technical training as it relates to verification, and
- demonstrate that the District has policies and mechanisms in place to prevent conflicts of interest situations if they arise.

As of this date, BAAQMD has fulfilled the above criteria.

NEXT STEPS

BAAQMD is committed to working with CARB to avoid unnecessary administrative burdens with the GHG reduction measures. District staff will continue to perform gap analysis for the measures currently under development and provide appropriate input to CAPCOA and CARB.

Once the District receives notice regarding all staff who have been approved as verifiers, it could potentially participate in verification services with other entities that have received Verification Body Accreditation. Alternatively, the District may seek Verification Body Accreditation.

BAAQMD's role in development of the GHG reduction measures and the verification accreditation program contributes to the District's climate protection portfolio of accomplishments, positions the District to have a lead role in verifications services and provides new avenues for recognition of local GHG reductions achieved through the District's actions.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Alex Ezersky
Reviewed by: Kelly Wee

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Kishimoto and Members
of the Climate Protection Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: December 7, 2009

Re: Committee Year End Review

RECOMMENDED ACTION

None. For information only.

BACKGROUND

During 2009 the Air District has conducted a number of important activities through its Climate Protection Program. These activities include the 2009 Climate Action Leadership Summit, the launching of the Bay Area Climate Planning website, the inclusion of GHG thresholds in the CEQA Guidelines update, and inclusion of GHGs in the multi-pollutant Clean Air Plan.

DISCUSSION

Staff will provide a review of the 2009 activities and accomplishments of the Air District's Climate Protection Program.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Abby Young
Reviewed by: Henry Hilken