



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## ADVISORY COUNCIL MEETING

WEDNESDAY  
JUNE 9, 2010  
9:00 A.M.

7<sup>TH</sup> FLOOR BOARD ROOM  
939 ELLIS STREET  
SAN FRANCISCO, CA 94109

### AGENDA

#### CALL TO ORDER

Opening Comments  
Roll Call

Jeffrey Bramlett, Chairperson  
Clerk

#### PUBLIC COMMENT PERIOD

*Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. The public has the opportunity to speak on any agenda item. All agendas for Advisory Council meetings are posted at the District, 939 Ellis Street, San Francisco, at least 72 hours before a meeting. At the beginning of the meeting, an opportunity is also provided for the public to speak on any subject within the Council's purview. Speakers are limited to three minutes each.*

#### CONSENT CALENDAR

1. Approval of Minutes of the May 12, 2010 Advisory Council Meeting.

#### PRESENTATION: CALIFORNIA'S 2050 GHG EMISSION REDUCTION TARGET – CONTROL TECHNOLOGIES & STRATEGIES FOR INDUSTRIAL & ELECTRIC POWER SECTORS

2. California's 2050 GHG Emission Reduction Target of 80% Below 1990 Levels – Control Technologies and Strategies for the Industrial and Electric Power Sectors

*Speakers from Calera Corporation, Membrane Technology & Research, Lawrence Berkeley National Laboratory and the California Air Resources Board will present materials on GHG emission reduction control technologies and strategies for the industrial and electric power sectors:*

##### **A. Mineralization via Aqueous Precipitation (MAP) for Carbon Capture & Sequestration**

Tom Carter  
Vice President, Government Affairs  
Calera Corporation

**B. Membrane Technology for Carbon Capture**

Tim Merkel, PhD.  
Director of Research and Development  
Membrane Technology & Research

**C. Geologic Carbon Sequestration**

Dr. John Beyer  
Staff Scientist, Geophysics Department, Earth Sciences Division  
Lawrence Berkeley National Laboratory

**D. California Air Resources Board Draft Regulation for a Cap-and-Trade Program**

Jan Mazurek  
Advisor for Science and Technology Policy  
Air Resources Board

**PANEL DISCUSSION**

3. Industrial and Electric Power Sectors GHG Emission Reduction Technologies and Strategies for California and the Bay Area

*The speakers will convene as a panel for a discussion with the Advisory Council and Air District staff on GHG emission reduction control technologies and strategies for the industrial and electric power sectors and the implications for the Air District's regulatory agenda, legislative agenda, and programs.*

**OTHER BUSINESS**

4. Council Member Comments/Other Business

*Council Members may make a brief announcement, provide a reference to staff about factual information, or ask questions about subsequent meetings.*

5. Time and Place of Next Meeting

*9:00 a.m., Wednesday, July 14, 2010, 939 Ellis Street, San Francisco, CA 94109.*

6. Adjournment

**CONTACT EXECUTIVE OFFICE - 939 ELLIS STREET SF, CA 94109**

**(415) 749-5130**  
**FAX: (415) 928-8560**  
**BAAQMD homepage:**  
**[www.baaqmd.gov](http://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 Clerk's Office should be given in a timely manner, 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](http://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**

**JUNE 2010**

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Advisory Council Regular Meeting	Wednesday	9	9:00 a.m.	Board Room
Board of Directors Public Outreach Committee <i>(At the Call of the Chair)</i>	Wednesday	9	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	16	9:45 a.m.	Board Room
Board of Directors Budget Hearing <i>(At the Call of the Chair)</i>	Wednesday	16	Following Board Meeting	Board Room
Board of Directors Mobile Source Committee <i>(Meets 4<sup>th</sup> Thursday each Month)</i> - RESCHEDULE TO WEDNESDAY, JUNE 30, 2010	Thursday	24	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
Board of Directors Mobile Source Committee <i>(Meets 4<sup>th</sup> Thursday each Month)</i>	Wednesday	30	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room

**JULY 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 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	7	9:45 a.m.	Board Room
Joint Policy Committee Special Meeting	Friday	9	10:00 a.m.	MTC Auditorium 101 – 8 <sup>th</sup> Street Oakland, CA 94607
Advisory Council Regular Meeting	Wednesday	14	9:00 a.m.	Board Room
Joint Policy Committee - RESCHEDULE TO FRIDAY, JULY 9, 2010	Friday	16	10:00 a.m.	MTC Auditorium 101 – 8 <sup>th</sup> Street Oakland, CA 94607
Board of Directors Regular Meeting <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Board Room
Board of Directors Mobile Source Committee <i>(Meets 4<sup>th</sup> Thursday each Month)</i>	Thursday	22	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
Board of Directors Stationary Source Committee <i>(At the Call of the Chair)</i>	Friday	23	9:30 a.m.	Board Room

## AUGUST 2010

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
<b>Board of Directors Regular Meeting</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	4	9:45 a.m.	Board Room
<b>Board of Directors Regular Meeting</b> <i>(Meets 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	18	9:45 a.m.	Board Room
<b>Board of Directors Mobile Source Committee</b> <i>(Meets 4<sup>th</sup> Thursday each Month)</i>	Thursday	26	9:30 a.m.	4 <sup>th</sup> Floor Conf. Room
HL – 6/3/10 (11:30 a.m.) P/Library/Forms/Calendar/Calendar/Moncal				

BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
Memorandum

To: Chairperson Bramlett and  
Members of the Advisory Council

From: Jack P. Broadbent  
Executive Officer/APCO

Date: May 26, 2010

Re: Advisory Council's Draft Meeting Minutes of May 12, 2010

RECOMMENDED ACTION

Approve attached draft minutes of the Regular Advisory Council's meeting of May 12, 2010.

DISCUSSION

Attached for your review and approval are the draft minutes of the May 12, 2010 Advisory Council meeting.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
(415) 749-5000

**DRAFT MINUTES**

Advisory Council Regular Meeting  
9:00 a.m., Wednesday, May 12, 2010

**CALL TO ORDER**

**Opening Comment:** Chairperson Bramlett called the meeting to order at 9:00 a.m.

**Roll Call:** Chairperson Jeffrey Bramlett, M.S., Vice Chairperson Ken Blonski, M.S.; Secretary Stan Hayes; Council Members Jennifer Bard, Louise Bedsworth, Ph.D., Benjamin Bolles, Robert Bornstein, Ph.D., Harold Brazil, Alexandra Desautels, John Holtzclaw, Ph.D., Gary Lucks, JD, CPEA, REA I, Debbie Mytels, Michael Sandler, and Jonathan Ruel

**Absent:** Council Members Robert Huang, Ph.D., Kraig Kurucz, M.S., Jennifer Rosanna Lerma, P.E., Jane Martin, Dr.Ph.D., Kendall Oku, and Dorothy Vura-Weis, M.D., M.P.H.

**Public Comment Period:** There were no public comments.

**Consent Calendar:**

**1. Approval of Minutes of the April 14, 2010 Advisory Council Meeting**

Dr. Holtzclaw requested amendment to page 6 of the minutes, Recommendation number 6, to read, "...on carbon capture."

**Advisory Council Action:** Member Holtzclaw made a motion to approve the minutes of April 14, 2010, as amended; Member Hayes seconded the motion; unanimously carried without objection.

**DISCUSSION:**

**2. Continued discussion of draft report on the Advisory Council's March 10, 2010 Meeting on California's 2050 GHG emission reduction target of 80% below 1990 levels – Industrial Sector**

Chairperson Bramlett thanked Advisory Council Members and members of the working group for their efforts in refining the Draft Report.

Mr. Hayes echoed Chairperson Bramlett, and suggested the Council address the Draft Report section by section to determine further revisions and/or corrections.

Council Members discussed and considered revision to areas in the Draft Report regarding public health, regulatory policy, industrial sector impacts, impacts in low income and communities of color, cap and trade, carbon pricing, current and proposed legislation, incentivizing sustainability and performance.

After lengthy discussion and revisions made to the Draft Report during the meeting, support was received from those present to finalize the Draft Report. Direction was provided to forward the Final Report with attached Minutes from the Advisory Council meetings of April 14, 2010 and May 12, 2010 to the Board of Directors.

**Council Action:** Dr. Holtclaw made a motion to approve the Final Report from the March 10, 2010 Advisory Council Meeting on California's 2050 GHG Emission Reduction Target – Industrial Sector; Dr. Bedsworth seconded the motion; which carried unanimously without objection.

### **OTHER BUSINESS**

#### **3. Council Member Comments/Other Business**

Ms. Bard referred to the current initiative to roll back AB32 and requested the Advisory Council consider adoption of a resolution to support the Clean Cars regulation, AB32 and SB 375. She spoke on the American Lung Association's efforts to visit all Bay Area cities and counties to request support of the resolution.

Deputy APCO Jean Roggenkamp responded that the Board of Directors' Legislative Committee considers and takes position on a number of bills, for recommendation to the Board of Directors. The Board of Directors has taken positions on a number of efforts to date focusing on GHG reductions and climate protection goals. She suggested the Advisory Council defer the matter to a time after the Initiative has secured the required number of signatures for qualification.

Board Chairperson, Brad Wagenknecht, thanked the Advisory Council for their significant efforts and advice in addressing the GHG emission reduction target. He stated that he has attended a number of Advisory Council presentations and believes a large portion of the Board of Directors' work plan will involve such topics. He agreed the Board's Legislative Committee receives staff briefs and considers support for, and opposition to, legislative bills, and again commended the Advisory Council for their efforts.

Chairperson Bramlett and Gary Kendall updated the Advisory Council on tentative speakers for the June 9, 2010 meeting, which will focus on geologic sequestration, safety, leakage seismicity, new technology for carbon capture using membranes, and CARB's cap and trade regulation. Staff is also attempting to secure a fourth speaker on Mineralization via Aqueous Precipitation (MAP) technology, which absorbs CO2 from power plants and turns it into construction material. Council Members reiterated the need for speakers to address questions posed of them ahead of the meeting.

**4. Time and Place of Next Meeting** - 9:00 a.m. – 12:00 noon, Wednesday, June 9, 2010, 939 Ellis Street, San Francisco, CA 94109.

**5. Adjournment:** The meeting adjourned at 11:37 a.m.

Lisa Harper  
Clerk of the Boards

Bay Area Air Quality Management District

# Advisory Council Meeting



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

**California's 2050 GHG emission reduction target of 80% below 1990 levels: Control Technologies & Strategies for Industrial & Electric Power Sectors**

**Date:** Wednesday, June 9, 2010

**Place:** BAAQMD  
939 Ellis Street  
San Francisco, CA 94109

**Time:** 9:00am – 12:00pm

**Presentations include:**

**Mineralization via Aqueous Precipitation (MAP) for Carbon Capture & Sequestration**

Tom Carter  
Vice President, Government Affairs  
Calera Corporation

**Membrane Technology for Carbon Capture**

Tim Merkel, PhD.  
Director of Research and Development  
Membrane Technology & Research

**Geologic Carbon Sequestration**

Dr. John Beyer  
Staff Scientist, Geophysics Department, Earth Sciences Division  
Lawrence Berkeley National Laboratory

**California Air Resources Board Draft Regulation for a Cap-and-Trade Program**

Jan Mazurek  
Advisor for Science and Technology Policy  
Air Resources Board

A central element of the Air District's climate protection program is the integration of climate protection activities into existing District programs.

In addition, the Air District's climate protection program emphasizes collaboration with ongoing climate protection efforts at the local and State level, public education and outreach and technical assistance to cities and counties.

To learn more, visit <http://www.baaqmd.gov/Divisions/Planning-and-Research/Climate-Protection-Program.aspx>. For directions, transit, and parking information visit <http://www.baaqmd.gov/The-Air-District/Hours-and-Directions.aspx>

For more information, please contact Gary Kendall, Director of Technical Services at (415) 760-1504 or [gkendall@baaqmd.gov](mailto:gkendall@baaqmd.gov).