



BOARD OF DIRECTORS  
CLIMATE PROTECTION COMMITTEE  
COMMITTEE MEMBERS

BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

JAN PEPPER - CHAIR  
TERESA BARRETT  
JOHN GIOIA  
KATIE RICE  
SHIRLEE ZANE

JOHN AVALOS - VICE CHAIR  
DAVID CANEPA  
SCOTT HAGGERTY  
MARK ROSS

THURSDAY  
SEPTEMBER 17, 2015  
9:30 A.M.

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

**AGENDA**

1. **CALL TO ORDER - ROLL CALL**

*The Committee Chair shall call the meeting to order and the Clerk of the Boards shall take roll of the Committee members.*

2. **PUBLIC COMMENT ON NON-AGENDA MATTERS**

*(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 Air 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 THE MINUTES OF MAY 21, 2015** **Clerk of the Boards/5073**

*The Committee will consider approving the attached draft minutes of the Climate Protection Committee meeting of May 21, 2015.*

4. **COMMUNITY CHOICE AGGREGATION**

**J. Roggenkamp/4646**  
[jroggenkamp@baaqmd.gov](mailto:jroggenkamp@baaqmd.gov)

*Staff from Local Energy Aggregation Network (LEAN Energy) will brief the Committee on Community Choice Aggregation (CCA), a system that promotes use of renewable energy by allowing local jurisdictions to aggregate individual energy customers into community-wide entities that may contract to purchase energy produced from renewable sources.*

5. **AIR DISTRICT ACTIVITIES TO MONITOR, ANALYZE AND REDUCE METHANE EMISSIONS**  
**J. Roggenkamp/4646**  
[jroggenkamp@baaqmd.gov](mailto:jroggenkamp@baaqmd.gov)

*Staff will brief the Committee on the Air District's methane emissions inventory and current and future activities to measure and analyze methane in order to track trends and better understand important sources of methane to support emission reduction programs.*

6. **SUMMARY OF KEY CALIFORNIA CLIMATE LEGISLATION IN 2015**  
**J. Roggenkamp/4646**  
[jroggenkamp@baaqmd.gov](mailto:jroggenkamp@baaqmd.gov)

*Staff will brief the Committee on key California climate legislation in 2015.*

7. **COMMITTEE MEMBER COMMENTS / OTHER BUSINESS**

*Any member of the Board, 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**

*Monday, November 16, 2015, Bay Area Air Quality Management District Office, 939 Ellis Street, San Francisco, California 94109 at 9:30 a.m.*

9. **ADJOURNMENT**

*The Committee meeting shall be adjourned by the Committee Chair.*

**CONTACT:**

**MANAGER, EXECUTIVE OPERATIONS**  
**939 ELLIS STREET, SAN FRANCISCO, CA 94109**  
**mmartinez@baaqmd.gov**

**(415) 749-5016**  
**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. Please note that all correspondence must be addressed to the “Members of the Climate Protection Committee” and received at least 24 hours prior, excluding weekends and holidays, in order to be presented at that Committee meeting. Any correspondence received after that time will be presented to the Committee at the following 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.

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**  
**939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109**  
**FOR QUESTIONS PLEASE CALL (415) 749-5016 or (415) 749-4941**

**EXECUTIVE OFFICE:**  
**MONTHLY CALENDAR OF AIR DISTRICT MEETINGS**

**SEPTEMBER 2015**

<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 on the 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month) -</i> <b>CANCELLED</b>	Wednesday	16	9:45 a.m.	Board Room
<b>Board of Directors Climate Protection Committee</b> <i>(Meets 3<sup>rd</sup> Thursday of every other Month)</i>	Thursday	17	9:30 a.m.	Board Room
<b>Board of Directors Executive Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i> <b>CANCELLED</b>	Monday	21	9:30 a.m.	Board Room
<b>Board of Directors Stationary Source Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Monday	21	10:30 a.m.	Board Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets on the 4<sup>th</sup> Wednesday of each Month)</i> <b>CANCELLED</b>	Wednesday	23	9:30 a.m.	Board Room
<b>Board of Directors Ad Hoc Building Oversight Committee Meeting</b> <i>(Meets at the Call of the Chair)</i>	Wednesday	23	9:30 a.m.	Board Room
<b>Board of Directors Executive Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Wednesday	23	10:30 a.m.	Board Room
<b>Board of Directors Mobile Source Committee</b> <i>(Meets on the 4<sup>th</sup> Thursday of each Month)</i>	Thursday	24	9:30 a.m.	Board Room

**OCTOBER 2015**

<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 on the 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	7	9:45 a.m.	Board Room
<b>Board of Directors Executive Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Monday	19	9:30 a.m.	Board Room
<b>Board of Directors Stationary Source Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Monday	19	10:30 a.m.	Board Room
<b>Board of Directors Regular Meeting</b> <i>(Meets on the 1<sup>st</sup> &amp; 3<sup>rd</sup> Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Board Room

## OCTOBER 2015

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
<b>Board of Directors Mobile Source Committee</b> <i>(Meets on the 4<sup>th</sup> Thursday of each Month)</i>	Thursday	22	9:30 a.m.	Board Room
<b>Board of Directors Public Engagement Committee</b> <i>(Meets at the Call of the Chair)</i>	Monday	26	9:30 a.m.	Board Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets on the 4<sup>th</sup> Wednesday of each Month)</i>	Wednesday	28	9:30 a.m.	Board Room

## NOVEMBER 2015

<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 on the 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 Executive Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Monday	16	9:30 a.m.	Board Room
<b>Board of Directors Stationary Source Committee</b> <i>(Meets on the 3<sup>rd</sup> Monday of each Month)</i>	Monday	16	10:30 a.m.	Board Room
<b>Board of Directors Regular Meeting</b> <i>(Meets on the 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 Climate Protection Committee</b> <i>(Meets 3<sup>rd</sup> Thursday of every other Month)</i>	Thursday	19	9:30 a.m.	Board Room
<b>Board of Directors Budget &amp; Finance Committee</b> <i>(Meets on the 4<sup>th</sup> Wednesday of each Month)</i>	Wednesday	25	9:30 a.m.	Board Room
<b>Board of Directors Mobile Source Committee</b> <i>(Meets on the 4<sup>th</sup> Thursday of each Month)</i>	Thursday	26	9:30 a.m.	Board Room

VJ – 9/3/15 (12:10 p.m.)

P/Library/Forms/Calendars/Moncal

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Memorandum

To: Chairperson Jan Pepper and Members  
of the Climate Protection Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: September 3, 2015

Re: Approval of the Minutes of May 21, 2015

RECOMMENDED ACTION

Approve attached draft minutes of the Climate Protection Committee (Committee) meeting of May 21, 2015.

DISCUSSION

Attached for your review and approval are the draft minutes of the Committee meeting of May 21, 2015.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Sean Gallagher  
Reviewed by: Maricela Martinez

Attachment: Draft Minutes of the Committee Meeting of May 21, 2015

Draft Minutes – Climate Protection Committee Meeting of May 21, 2015

Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109  
(415) 749-5073

**DRAFT MINUTES**

Summary of Board of Directors  
Climate Protection Committee Meeting  
Thursday, May 21, 2015

**1. CALL TO ORDER – ROLL CALL**

Chairperson John Avalos called the meeting to order at 9:40 a.m.

Present: Chairperson John Avalos; Vice-Chairperson Jan Pepper; and Directors Teresa Barrett, David J. Canepa, Katie Rice and Mark Ross.

Absent: Directors John Gioia, Scott Haggerty and Shirlee Zane.

Also Present: None.

**2. PUBLIC COMMENT ON NON-AGENDA MATTERS:**

NOTED PRESENT: Director Ross was noted present at 9:42 a.m.

Steven Nadel, Sunflower Alliance (SA), addressed the Climate Protection Committee (Committee) in support of a modification to proposed rule 12-16 to include toxic air contaminants and greenhouse gases (GHGs).

Robert Gould, M.D., Physicians for Social Responsibility addressed the Committee in support of establishing strong GHG targets and caps, decreased wood burning with no exemptions and establishing a wood smoke incentives program for the installation of electrical systems with priority given to low-income families.

NOTED PRESENT: Director Pepper was noted present at 9:46 a.m.

Jane Vosburg, 350 Sonoma County, addressed the Committee in support of transitioning Bay Area power plants to renewable fuel sources.

Bill Vosburg, 350 Sonoma County, addressed the Committee in support of accelerated action to mitigate GHG emissions through the establishment of emissions caps on stationary sources.

Julie Winiarski, Stop Syar Expansion, addressed the Committee in opposition to continued operations at the Syar Industries, Inc., facility in Napa and the inclusion of GHG exemptions in proposed rules and in support of imposing GHG caps and transitioning to renewable energy sources.

Chairperson Avalos asked staff to meet with Ms. Winiarski relative to the quarry comments and report back on the outcome.

Roger Lin, Communities for a Better Environment (CBE), addressed the Committee in support of GHG emissions caps; to ask why the Air District does not seem to want lower emissions; and to request CBE's proposed resolution be agendaized for consideration by the Stationary Source Committee (SSC) on May 27, 2015 and the Board of Directors (Board) on June 3, 2015.

Jed Holtzman, 350 Bay Area, submitted written material *Proposed Amendments to Regulation 6, Rule 3: Wood-Burning Devices* and addressed the Committee to suggest that the Air District's climate protection program has achieved very little; to summarize his interaction with Air District staff during the last eighteen months; to demand the imposition of enforceable GHG limits in the proposed rules currently in development, the establishment of a wood smoke incentives program that encourages only non-combustion heat sources, and the amendment of Air District permitting rules this year to prevent further GHG increases; and in support of integrating GHG limits in all present and future rulemaking, enhanced permitting of clean and sustainable energy uses, and directing staff to agendaize CBE's proposed resolution before the SSC on May 27, 2015.

Marie Walcheck, California Nurses Association, addressed the Committee to suggest that inaction by political leaders is harming public health and in support of the proposed resolution from CBE.

Tom Griffith, Bay Area Refinery Corridor Coalition (BARCC) / Martinez Environmental Group, addressed the Committee regarding the local and global impacts of emissions from the refinery corridor and in support of enforceable caps on GHGs and other pollutants, the imposition of requirements to reduce emissions, a moratorium on the approval of GHG-emitting projects, and to rescind or commit to not renewing Kinder Morgan's permits.

Greg Karras, CBE, submitted written material *A Resolution Recommending District Board Action to Prevent Increased Air and Climate Pollution Emissions from Bay Area Petroleum Refineries and Uncontrolled GHG Co-pollutants (49 examples)* and addressed the Committee to suggest that Air District inaction on lowering emissions is allowing an increase in air pollution; to summarize the recent presentation by California Air Resources Board staff to the Board; and in support of adopting regulations for the currently uncontrolled GHG co-pollutants at the Board meeting on June 3, 2015.

Director Pepper and Mr. Karras discussed whether other air districts currently regulate the pollutants he characterized as uncontrolled GHG co-pollutants.

Sandra Booth, Stop Syar Expansion, addressed the Committee to report a fugitive dust complaint relative to the Syar Industries, Inc., facility in Napa and to request assistance with asphalt plant regulations.

Taylor Hawke, Bay Climate Action Plan (BayCAP), addressed the Committee regarding the lack of recognition of the urgency of the climate change situation and to request action.



Pennie Opal Plant, Idle No More Bay Area California, addressed the Committee by reading an environmental statement by President Barack Obama and to urge the Committee and staff to protect the local and global communities from industrial pollution.

Rachel Hinds addressed the Committee to suggest the topics being discussed should not be decided by political motivations and in support of immediate action to limit GHGs and transition to 100% renewable energy.

Ratha Lai, Sierra Club, addressed the Committee in support of expanding Spare the Air to refinery operations; to request leadership on climate change; and to echo the comments of Mr. Karras relative to CBE's proposed resolution.

Ken Jones, 350 Marin, addressed the Committee to encourage research of the economic leakage concept; to suggest a number of forms of leakage are occurring relative to this issue; and in support of strong action on climate change.

Patti Wesselberg, Families for Clean Air, addressed the Committee in opposition to wood smoke incentives for retrofits to any wood- or gas-burning systems instead of electric.

Jim Wilson, Defenders of East Napa Watersheds, addressed the Committee to report the lack of, and request assistance with implementing, a climate action plan in Napa; to express continued support for the avoidance of deforestation in light of trees being an effective mitigation tool; to suggest California land use policies have been found to contribute to GHG emissions rather than offset or decrease them; and to encourage Board action on climate change.

Mark Roest, 350 Bay Area / BayCAP / Seawave Battery, addressed the Committee to request support for green industry so as to enable the region's transition to renewable energy and to provide information regarding the growth of alternative energy.

Janet Johnson, Richmond Progressive Alliance, addressed the Committee in support of the comments made before her, the inclusion of firm limits on GHGs and toxic criteria pollutants in proposed rule 12-16, a moratorium on permits for refinery projects during the rulemaking process and leadership.

Henry Norr addressed the Committee to note the Committee's 10-year existence and a lack of any GHG limit and to inquire why that is the case, what is being done and what is preventing action.

Charles Davidson, SA, addressed the Committee to opine that the available details on current refinery projects suggest an increase in emissions.

Nancy Reiser, Crockett-Rodeo United to Defend the Environment / BARCC, addressed the Committee to opine that Air District staff is approving permit applications that will result in emissions increases so significant that the Air District will be unable to measure the levels and in support of establishing emissions limits.

Paul Kangas submitted written material *BAAQMD* and addressed the Committee to read the same in support of requiring residential rooftop solar panels and the passage of a solar payment policy like that implemented in Germany.

Brian Foster addressed the Committee in opposition to tar sands oil and gas fracking operations; to suggest the current drought in California was caused by methane emissions; to opine that solar and wind are the only viable energy alternatives; and to echo the comments of Mr. Kangas.

Quanah Parker Brightman, United Native Americans, addressed the Committee to provide background on his organization; to cite Governor Jerry Brown’s executive action on GHG emissions by 2030; and in support of limits on GHGs, refinery emissions and fracking wells.

Chairperson Avalos reported that real action on climate change has occurred during the last three years and while he shares the public’s frustration relative to the pace, real action is happening, and requested a staff update on the same.

Jack Broadbent, Executive Officer/Air Pollution Control Officer, announced the successful appointment of the manager and the initiation of a staff recruitment for the newly created climate action team. Mr. Broadbent then gave a staff presentation, *GHG Included in Permit Review*.

Chairperson Avalos and Mr. Broadbent discussed the nature of the proposed resolution from CBE and the agendaing of a revised version for the SSC on May 27, 2015 and the change in pace that is expected relative to the climate action plan once the climate action team is fully staffed.

Chairperson Avalos asked for an update and a revised resolution at the next meeting of the Committee.

Committee Comments:

The Committee members discussed the appreciation for public involvement and the environmental commitment of the committee members; support for the continued growth of the climate action team; and recognition of the existence of limited resources in the face of a huge issue.

**3. APPROVAL OF THE MINUTES OF MARCH 19, 2015**

Committee Comments: None.

Public Comments: No requests received.

Committee Action:

Director Ross made a motion, seconded by Director Rice, to approve the minutes of March 19, 2015; and the motion carried by the following vote of the Committee:

AYES: Avalos, Barrett, Canepa, Pepper, Rice and Ross.  
NOES: None.

ABSTAIN: None.  
ABSENT: Gioia, Haggerty and Zane.

**4. AIR DISTRICT ACTIVITIES TO ASSESS AND REDUCE METHANE EMISSIONS**

Chairperson Avalos postponed the staff presentation for this agenda item in the interest of time.

Public Comments:

Mr. Karras addressed the Committee to report that methane is an ozone precursor and to ask for clarification regarding the staff plan and recommendation regarding the proposed resolution.

**5. PROPERTY ASSESSED CLEAN ENERGY (PACE) PROGRAMS**

Henry Hilken, Director of the Planning and Climate Protection Division, introduced Cisco DeVries, Chief Executive Officer, Renewable Funding, who gave the presentation *PACE Programs*, including an overview of how PACE programs work; the status of participation in PACE programs in the Bay Area and results to date; potential for PACE programs to reduce greenhouse gas emissions from the buildings sector in the Bay Area; and potential role for the Air District in facilitating participation.

Committee Comments:

The Committee, staff and Mr. DeVries discussed the possibility of financing energy storage and retrofits of energy storage through PACE; the status of Santa Clara County and its cities relative to their participation in PACE; the list of approved PACE projects; qualifying water project types; the Home Energy Renovation Opportunity (HERO) program and its relationship to PACE and CaliforniaFIRST; the status of Marin Clean Energy; if data on how much GHG could be cut by energy efficiency measures is available for the Bay Area; other barriers for those who may be interested in the program; the status of the program in San Francisco and its proposed community choice aggregation program; the amount in State reserve guaranteeing the PACE program; and the City of Daly City's participation in the HERO program.

Public Comments: No requests received.

Committee Action: None; receive and file.

**6. Committee Members' Comments/Other Business:** None.

**7. Time and Place of Next Meeting**

On a date to be determined in June 2015 at the request of Chairperson Avalos, Bay Area Air Quality Management District Headquarters, 939 Ellis Street, San Francisco, California 94109 at 9:30 a.m.

8. **Adjournment:** The meeting adjourned at 11:44 a.m.

Sean Gallagher  
Clerk of the Boards

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Memorandum

To: Chairperson Jan Pepper and Members  
of the Climate Protection Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: September 2, 2015

Re: Community Choice Aggregation

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In 2002, the California State Legislature passed Assembly Bill 117, which enabled Community Choice Aggregation (CCA) in California. CCA is a system that allows local governments to aggregate the buying power of electricity customers in their jurisdiction, and directly purchase and/or generate power for their communities. The CCA model works in partnership with existing utilities, which continue to deliver power over their transmission and distribution systems, maintain the grid, provide consolidated billing and other customer services. By providing greater local control over energy sourcing in the production of electricity, CCAs can result in a reduction in the carbon content of the electricity used in communities.

In 2007, the Air District awarded a Climate Protection Grant to Marin County to assess and consider implementation of a CCA program in Marin, including developing business and implementation plans, forming a joint power authority, and providing outreach and briefings to Marin County local governments. The Air District also awarded a Climate Protection Grant to the Sonoma-based Climate Protection Campaign to conduct preliminary research for establishing a CCA program in Sonoma County. Today, the Marin CCA program, Marin Clean Energy, serves over 100,000 customers with over 50% renewable energy. The cities of Richmond, Benicia, El Cerrito and San Pablo, as well as unincorporated Napa County, have all joined Marin Clean Energy. Sonoma County's program, Sonoma Clean Power, serves nearly 47,000 customers with 36% renewable power.

## DISCUSSION

Staff from the Local Energy Aggregation Network (LEAN Energy) will provide the Committee with an overview of how CCA programs work, the status of development and participation in CCA programs in the Bay Area and results to date. The presentation will also address the potential for CCA programs to reduce GHG emissions in the Bay Area and potential role(s) for the Air District in facilitating participation.

## 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 MANAGEMENT DISTRICT**

## Memorandum

To: Chairperson Jan Pepper and Members  
of the Climate Protection Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: September 3, 2015

Re: Air District Activities to Monitor, Analyze and Reduce Methane Emissions

**RECOMMENDED ACTION**

None; receive and file.

**BACKGROUND**

Methane is an important greenhouse gas (GHG) that contributes to the Bay Area's regional GHG emissions inventory. In the Bay Area, major sources of methane include leakage from the decomposition of waste from landfills and wastewater treatment facilities, livestock, natural gas distribution systems, and oil and gas wells. Methane has a Global Warming Potential (GWP) more than 30 times that of carbon dioxide, which means that methane is much more effective at trapping heat than carbon dioxide. Because of this high GWP and its short atmospheric lifespan (about 12 years), reducing methane emissions today can have an immediate beneficial impact on global warming.

Since 2006, the Air District has maintained a regional GHG emissions inventory, which includes methane. The Air District's emissions inventory, consistent with state and federal inventories, calculates emissions based on analysis of specific source categories (e.g., "fugitive" leaks at landfills or natural gas lines). A growing number of recent studies have indicated that there may be a disparity between such source-based estimates of methane and levels of methane detected in the ambient air. The results of these studies indicate that the Air District's inventory may significantly underestimate methane emissions. This disparity is consistent with findings at the state and national level, and work is underway to resolve this disparity and better understand which methane sources should be the focus of reduction efforts.

The Air District began measuring ambient methane levels in 1980 as part of a measurement network focused primarily on ozone precursors, or non-methane hydrocarbons. An enhanced measurement network with greater precision instruments, focused on tracking methane trends and sources, is currently under development and will begin collecting data this fall. This enhanced monitoring network, the first of its kind in the nation, will provide much needed information on methane and will also provide precise measurements of carbon dioxide to help the Air District track regional progress toward meeting GHG goals. In addition, Air District staff is currently collaborating with researchers at the Lawrence Berkeley National Laboratory to

refine and improve methane estimates in the regional emissions inventory. Outcomes of these efforts will inform Air District climate policies and programs, and also may be useful to emissions inventory work and policy development being done at other air districts, and at the state and national levels.

### DISCUSSION

Several elements of the Air District's 10-Point Climate Action Work Program address methane emissions and are reflected in current work efforts. Staff will provide the Committee with an overview of the Air District's efforts to date and future plans to monitor methane levels, enhance the Air District's methane emissions inventory, and identify the major sources of methane in the Bay Area. The presentation will review rule-making efforts and other activities underway to control methane emissions.

### BUDGET CONSIDERATION / FINANCIAL IMPACT

Enhanced methane monitoring activities required resources that were included in the Fiscal Year Ending (FYE) 2015 budget, with additional resources allocated in the current FYE 2016 budget.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Phil Martien  
Reviewed by: Henry Hilken



**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Memorandum

To: Chairperson Jan Pepper and Members  
of the Climate Protection Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: September 8, 2015

Re: Summary of Key California Climate Legislation in 2015

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In 2015, the California State Legislature debated a number of significant climate change issues. These have included what mandates after 2020 are appropriate for reductions in greenhouse gas emissions and petroleum use, and increases to renewable power and buildings' energy efficiency. The expenditure of cap-and-trade revenues has also been the focus of much discussion at the Capitol.

At the time this memorandum is being drafted, these topics remain unresolved, and are arguably the most hotly debated issues the Legislature is grappling with prior to its adjournment on September 11, 2015. Air District staff will brief the Committee on the fate of the most important climate change bills, including Senate Bill (SB) 32 and SB 350.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Tom Addison  
Reviewed by: Jean Roggenkamp