

Bay Area Air Quality Management District

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**APPROVED MINUTES**

Summary of Board of Directors  
Technology Implementation Office Steering Committee Meeting  
Friday, March 2, 2018

**1. CALL TO ORDER – ROLL CALL**

Technology Implementation Office (TIO) Steering Committee (Committee) Chairperson Cindy Chavez called the meeting to order at 10:04 a.m.

Present: Committee Chairperson, Cindy Chavez; Board of Directors Chairperson, David Hudson; and Members Bud Beebe, Mark Gupta, and Ahmad Ganji.

Absent: Member Janea Scott.

Also Present: None.

**2. PUBLIC COMMENT ON AGENDA MATTERS**

No requests received.

**3. WELCOME**

Jack Broadbent, Air District Executive Officer/Air Pollution Control Officer, welcomed the Committee members and Air District staff to the first meeting of the TIO Steering Committee, and presented key areas for Steering Committee input, the District's objectives, and the development of the TIO.

**4. INTRODUCTIONS**

Damian Breen, Deputy Air Pollution Control Officer of Technology, and Brian Bunker, District Counsel, explained elements and requirements of the Ralph M. Brown Act (Government Code sections 54950-54963), which is intended to provide public access to meetings of local government agencies in California. Chair Chavez asked everyone in attendance to introduce themselves, including all District staff.

**5. OVERVIEW OF AIR DISTRICT AND TECHNOLOGY IMPLEMENTATION OFFICE**

Mr. Breen introduced Dr. Ranyee Chiang, Technology Implementation Officer, who gave the staff presentation *Overview of Air District and TIO*, including: TIO Steering Committee members and their roles; Air District overview and roles; TIO team and its mission; currently commercialized

technologies are not enough to address all greenhouse gas (GHG) emissions; how we also need to mainstream technologies beyond the Bay Area; Bay Area facilities and GHG emissions sources; which technology categories are relevant across multiple industries; and Steering Committee input on emissions sources.

Public Comments:

No requests received.

Committee Comments:

The Committee and staff discussed funding sources for the TIO's various programs; protection of California industry and leakage prevention; the suggestion of utilizing ranges of temperatures that the public needs for various activities when prioritizing emissions sources; the suggestion of prioritizing wastewater treatment facilities as an industry that generates air emissions; the suggestion of creating criteria to prioritize emission sources around things that have the most impact; the suggestion that the District should take advantage of the opportunity to leverage both public and private investments and research to attract fragmented industries.

Committee Action:

None; receive and file.

## **6. TECHNOLOGY OPPORTUNITIES AND ASSESSMENT**

Dr. Chiang gave the staff presentation *Technology Opportunities and Assessment*, including: technology options; technology assessment to identify technologies poised for impact and scale; and steering committee input on technologies.

Public Comments:

No requests received.

Committee Comments:

The Committee and staff discussed the pros and cons of various technologies that are poised to have significant greenhouse gas (GHG) reduction impacts, including: replacement of diesel generation with renewable energy sources, battery/fuel cell/hydrogen vehicles, and cogeneration synergies; the request that TIO Steering Committee members be given the opportunity to attend as many technology conferences as possible; the suggestion that the District engages with the Association of Bay Area Governments, the California Building Standards Commission, the U.S. Green Building Council, and fire safety leads regarding investment opportunities; the request that the Steering Committee members be sent the District's 2017 Clean Air Plan, as the Plan demonstrates initiatives prior to the creation of the TIO; and the opinion that the District could stand to improve communication with the business community and better structure its incentives.

Committee Action:

None; receive and file.

**7. OVERVIEW OF AIR DISTRICT INCENTIVE PROGRAMS**

Dr. Chiang gave the staff presentation *Overview of Air District Incentive Programs*, including: stationary incentive programs; results of stakeholder input – three isolated communities; benefits to partners with TIO; examples of existing finance programs for renewable energy and energy efficiency; example of TIO finance plan; considerations and criteria; steering committee input on financing program; mobile incentive programs; three TIO pillars and next steps; Air District electric vehicle (EV) incentive programs; California Air Resources Board (CARB) Enhanced Fleet Modernization Program Plus Up (\$5m over 2 years); Congestion Mitigation and Air Quality EV partnerships, outreach, evaluation (\$5m over 5 years); Steering Committee input on mobile programs and partnerships; next TIO Steering Committee meeting; and examples of Requests for Information.

Public Comments:

No requests received.

Committee Comments:

The Committee and staff discussed how the District anticipates finalizing its co-lending partnership negotiations with the California Infrastructure and Economic Development Bank, how the District perceives the potential technological and financial risk, and whether venture capitalists would be able to bridge any financial gap; sharing the public risk of failure, and which partner would assume the responsibility for equipment that becomes obsolete; the importance making decisions and progress in a timely manner so that opportunities are not wasted, as technology changes significantly and frequently; the request that finance and banking reports are submitted to the Committee members prior to the June 21, 2018 meeting; the request that District staff prepares focus groups/informational sessions to which Committee members can be assigned to discuss investment strategies; and the request that the Committee members are sent a copy of the Ralph M. Brown Act.

Committee Action:

None; receive and file.

**8. COMMITTEE MEMBER COMMENTS**

Member Ganji suggested that the District streamline its permit application process to make it more user-friendly for applicants.

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

None.

**10. TIME AND PLACE OF NEXT MEETING**

Thursday, June 21, 2018, Bay Area Air Quality Management District Office, 375 Beale Street, San Francisco, California 94105 at 1:00 p.m.

**11. ADJOURNMENT**

The meeting adjourned at 12:01 p.m.

*/s/ Marcy Hiratzka*

Marcy Hiratzka  
Clerk of the Boards