Bay Area Regional Collaborative (BARC) Work Plan Update

Lucian Go
BARC Program Coordinator
July 29, 2020
1. Climate Resiliency: State Legislative Engagement

2. AB 617 Implementation in West Oakland

3. Building Electrification: Community Climate Compass
Climate Resiliency: State Legislative Engagement

- BARC Governing Board recently approved Regional Climate Resiliency Legislative Recommendations (July 17th)
- Lays out regional needs and recommendations for any new climate change resiliency/adaptation legislation
Summary of recommendations:

- Designate the nine-county region as the basis for regional climate adaptation work
- Suggests establishing a regional grant program to support local governments in adaptation planning; establish a pipeline of adaptation projects
- Bond or stimulus funds should be used to both respond to COVID-19 and build much-needed resilient infrastructure projects
AB617 Implementation: West Oakland Community Action Plan

BARC Activities:

• Continuing to convene Goods Movement Collaborative Working Group (BAAQMD, MTC, Port of Oakland, Alameda CTC, CalTrans District 4, Solano Transportation Authority) to identify port/freight funding opportunities.

• Helping facilitate a working group to facilitate funding for transit/bike/walk projects in West Oakland (with staff from BAAQMD, MTC, Alameda CTC, Oakland Department of Transportation)
Building Electrification: Community Climate Compass

• Collaboration between BAAQMD, Building Decarbonization Coalition, and BARC
• A comprehensive, web-based building decarbonization policy clearinghouse to support local governments in development, adoption and implementation of different building-focused strategies
• Examples of content:
  • Model ordinances (e.g., electric-ready buildings, natural gas moratorium)
  • Studies on health benefits of electric appliances
  • Policy and legal pathways to electrification
• buildingdecarb.org/compass
Thank You!

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Bay Area Air Quality Management District

Air District Efforts to Encourage Remote Work Update

Executive Committee Meeting
July 29, 2020

Kristine Roselius
Acting Communications Officer
Cut the Commute

- Cut the Commute Pledge
- Commuter Benefits Program
- Spare the Air
- Spare the Employer Program
- Active Transportation
Remote Work Outreach

- Spare the Air Campaign
- Encourage alternative commutes for others
  - Support for Active Transportation
- Commuter Benefits Program
  - Highlight Remote Work
  - Changes to Regulation
- Remote Work Outreach to Employers
  - Employer Toolkit
  - Remote Work Clearinghouse
Next Steps

• Community Focus Groups
• Working with Regional & Local Partners
  • Remote Work Outreach
  • Video Series Focused on Health Benefits
• Air District Remote Work Policy
  • Survey
  • Remote Work Task Force
  • Remote Work Resolution
  • Ongoing Negotiations With Employees’ Association
Wildfire Program Update

Executive Committee Meeting
July 29, 2020

Tracy Lee
Manager, Compliance & Enforcement Division
Northern CA Wildfire Forecast

- Maps from Northern California Geographic Coordination Center
Wildfire Air Quality Response Program (WAQRP)

Program Strategies

- Legislative Initiatives
- Rule Development
- Partnerships and Regional Alliance
- Community Information and Resources
- Grants and Incentives
Wildfire Prevention
Chipping Pilot Program

- Provide chipping services as an alternative to open burning

- $150,000 directed toward the program
  - Hazardous Materials, Forest Management, and Wildland Vegetation Management

- Request for Proposals ended June 30, 2020

- Open program Fall 2020
Pilot project is a partnership between US EPA and US Forest Service

Adds a new layer of sensor data to the existing Wildfire and Smoke Map on AirNow.gov

Goal to provide sensor data to inform the public of current wildfire and smoke conditions

The new map layer will integrate publicly available PM$_{2.5}$ data from PurpleAir sensors

Target release date: July 31, 2020

Website: https://maps.airfire.org/pilot/
Air District
Emergency Operations Plan - Wildfires

- Establishes internal protocols between Measurements & Meteorology, Communications, and My Air Online teams when wildfire smoke impacts the Bay Area
- Enhances fire incident forecasting and communications for:
  - Issuing or extending an Air Quality Advisory or Spare the Air Alert
  - Providing external updates to County Public Health Officers, Universities, and other Public Officials
  - Requesting additional monitoring from the California Air Resources Board (CARB) when significant impacts are expected across the Bay Area
Regulation 15: Emergency Episode Plan

- Plan and prepare for future emergencies and disasters
- Review lessons learned and explore regulatory concepts that anticipate and address compliance concerns that may arise
- Encourage facilities to develop voluntary, emergency action plans
  - Conduct assessment of facility operations, abatement and controls
  - Review permit requirements and applicable regulations
  - Develop and implement proactive measures to minimize air emissions
- Affirm Air District’s authority and discretion over air quality permitting and enforcement in an emergency situation
Cleaner Air Centers

- Assembly Bill (AB) 836 - Wildfire Smoke Clean Air Center Incentive Program for Vulnerable Populations
  - $5 million funding statewide towards ventilation retrofits
  - CARB to develop guidelines for awarding incentive funds

- Partnership with the American Red Cross to pilot a program in Bay Area
  - Red Cross to store and deploy portable air filtration units to evacuation centers and sheltering facilities during wildfire disasters
Cleaner Air Centers (cont.)

Portable Air Filtration Units

- Equipped with 2-stage prefilters, High-efficiency particulate air (HEPA), and carbon filters
- Approximately 800 cfm
- Stackable
- Plastic housing
- 19"W x 20"H x 32"L
- 110v outlet
- 42 lbs

- Equipped with 2-stage prefilters, HEPA, and carbon filters
- Approximately 1800 cfm
- Metal housing with castors
- 19"W x 34.1"H x 31.1"L
- 110v outlet
- 110 lbs
Cleaner Air Centers (cont.)

American Red Cross Partnership and Two-Year Pilot Program
- 27 portable air filtration units
- Prioritize deployment within the Bay Area for the first two years
- Partnership Agreement
  - Develop tracking system and deployment plan
  - Train staff
  - Maintain portable air filtration units
  - Provide semi-annual report and updates to Air District
  - Enhance *National Shelter System* database and coordination with local agencies
Public Health
Wildfires During a Pandemic

- **Challenge:** How to create safe clean air shelters and evacuation sites during a pandemic – prevent the spread of COVID-19

- California Department of Public Health (CDPH) working to update Wildfire Smoke Guidance document

- Lawrence Berkeley Lab working with CDPH to update indoor air recommendations

- Air District continuing to work with Association of Bay Area Health Officials and California Air Pollution Control Officers Association (CAPCOA) on consistent messaging for health protection from wildfire smoke
Wildfire Preparedness Tips and Messaging

- **PREPARE NOW FOR WILDFIRE SEASON:**
  - New filter for Heating Ventilation Air Conditioning (HVAC)
  - Purchase portable air filtration device
  - Caulk windows and doors
- Fill asthma and other respiratory prescriptions
- Create a “clean room” in the home
- Identify list of clean air/cooling locations near you

- **WHEN WE HAVE SMOKE:**
  - Remain indoors, windows, and doors closed
  - If you have HVAC system, set to recirculate
  - Plan to go to a clean air/cooling location if necessary
Communications and Outreach

- Deliver clear and consistent wildfire messaging
  - Concurrent challenges - wildfires and COVID-19
  - Work with partners

- Expand wildfire outreach
  - Use infographics, videos, and wildfire toolkit
  - Media, social media, and community outreach
  - Health messaging to non-English speakers
  - Emergency notification alerts
Climate Tech Finance Program Update

Executive Committee Meeting
July 29, 2020

Derrick Tang
Manager, Technology Implementation Office
Program Overview

Working Capital for Business Growth
Loan guarantees of up to $2.5M or 90%

Loans for Buying Climate Tech
Low-interest loans of up to $30M over 30 years
Program Status

1. Funded
   - Executed loans or loan guarantees

6. Pre-Funded
   - Loan guarantees approved by BAAQMD
   - Currently under review by banks

35. Technical Discovery
   - Relevant climate projects identified
   - From targeted outreach to 450 Bay Area organizations
Air District’s First Loan Guarantee

SWITCH Maritime Loan Guarantee

- Hydrogen fuel cell ferry for passengers between San Francisco and Oakland
- Prevents 2,000 tons/year of GHG and reduces diesel particulates for seaport communities
- Creates 63 jobs for construction and operation
- Creates flagship for fleet with 10x impact potential

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Pre-Funded Projects

- Residential Battery Systems with Integrated Demand-Response
- Battery-Boosted EV Fast Charger
- Cooling Technology for Data Centers
- Solar Microgrids
- In-Road Energy Recovery at Toll Gates
- Low-Carbon Aggregate for Concrete

Total Air District Commitment: $1 million
Total Loan Amount Supported: $17 million
Pre-Funded Projects: Five-Year Impact

- **4,000** residential battery systems
- **100** battery-boosted EV fast chargers
- **90** cooling systems deployed at data centers
- **150** renewable microgrids on municipal buildings
- **60** road plates generating electricity
- **2,600,000** tons of aggregate in concrete

**Total Greenhouse Gas Reductions**: 520,000 MTCO₂
Climate Project Pipeline

Projects Currently Under Review

- Energy Systems
- Smart Buildings
- Zero-Emissions Infrastructure
- Construction
- Food
- Heating & Cooling
- Bioplastics

Total Demand for Climate Loans Identified This Year

$40M

>$400M
Climate Tech Marketplace 2020

- First Marketplace event in 2018 featured over 30 technologies and attracted nearly 300 attendees

- Air District will host a virtual Climate Tech Marketplace on October 22, 2020

- Online event will feature a technology showcase, keynote, panel discussions, and matchmaking
Questions?

Thank You