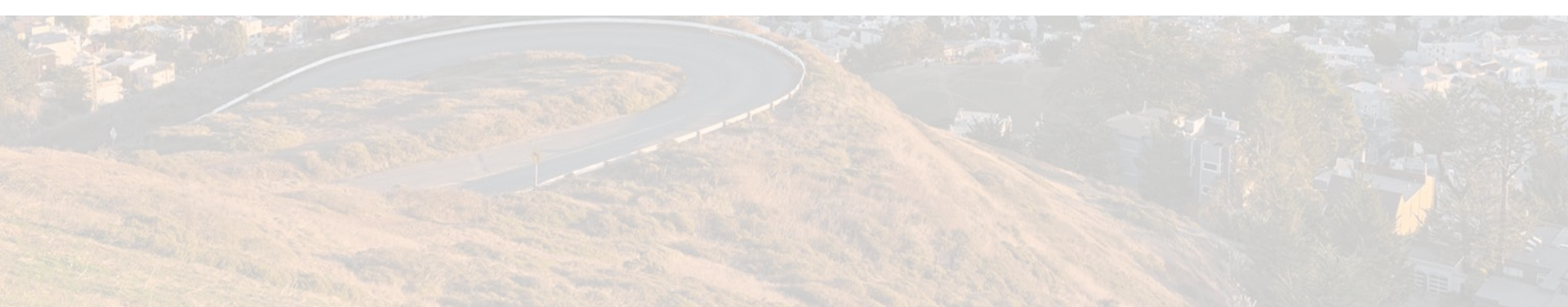


Bay Area Regional Collaborative (BARC) Work Plan Update

Lucian Go
BARC Program Coordinator
July 29, 2020



BARC Work Plan Updates

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

Climate Resiliency: State Legislative Engagement (continued)

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

An aerial photograph of San Francisco, California, showing the city's dense urban landscape, the Golden Gate Bridge, and the surrounding hills and water. The image is slightly faded to serve as a background for the text.

Thank You!

Lucian Go
Program Coordinator, BARC
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BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 6

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



**SPARE THE AIR
CUT THE COMMUTE PLEDGE**

The shelter-in-place orders issued to protect the public from the spread of COVID-19 necessitated a major shift in how Bay Area employers operate, and many employees quickly made the adjustment to remote work.

As shelter-in-place orders are eased or lifted, let's rethink how we conduct business and consider the substantial benefits remote work can bring to us all:

- Cleaner air and reduced climate impacts
- Reduces traffic congestion
- Saves money and time spent in traffic
- Improves employee recruitment, retention and productivity
- Saves money on commercial real estate and parking facilities
- Enhanced employee work-life balance
- Resiliency—Provides a blueprint to continue business during a crisis

The benefits of remote work are numerous. All that is needed now is leadership, vision and commitment. Are you ready to step forward and adopt an innovative remote work policy after the shelter-in-place? By signing this pledge, your company or organization commits to extending remote work options by at least 25% (or 1-2 days a week) for employees whose work requirements allow for that flexibility, though you can pledge more! For those employees that don't have that flexibility, your company or organization will encourage alternatives to driving alone.

Help improve air quality and quality of life for all Bay Area residents!

Name (first/last) _____ Title _____
Company _____
City _____
Signature _____ Date _____

Remote Work Outreach



Bay Area
Commuter Benefits Program
Find a better way to work!

- 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





BAY AREA
AIR QUALITY
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AGENDA : 7

Wildfire Program Update

Executive Committee Meeting
July 29, 2020

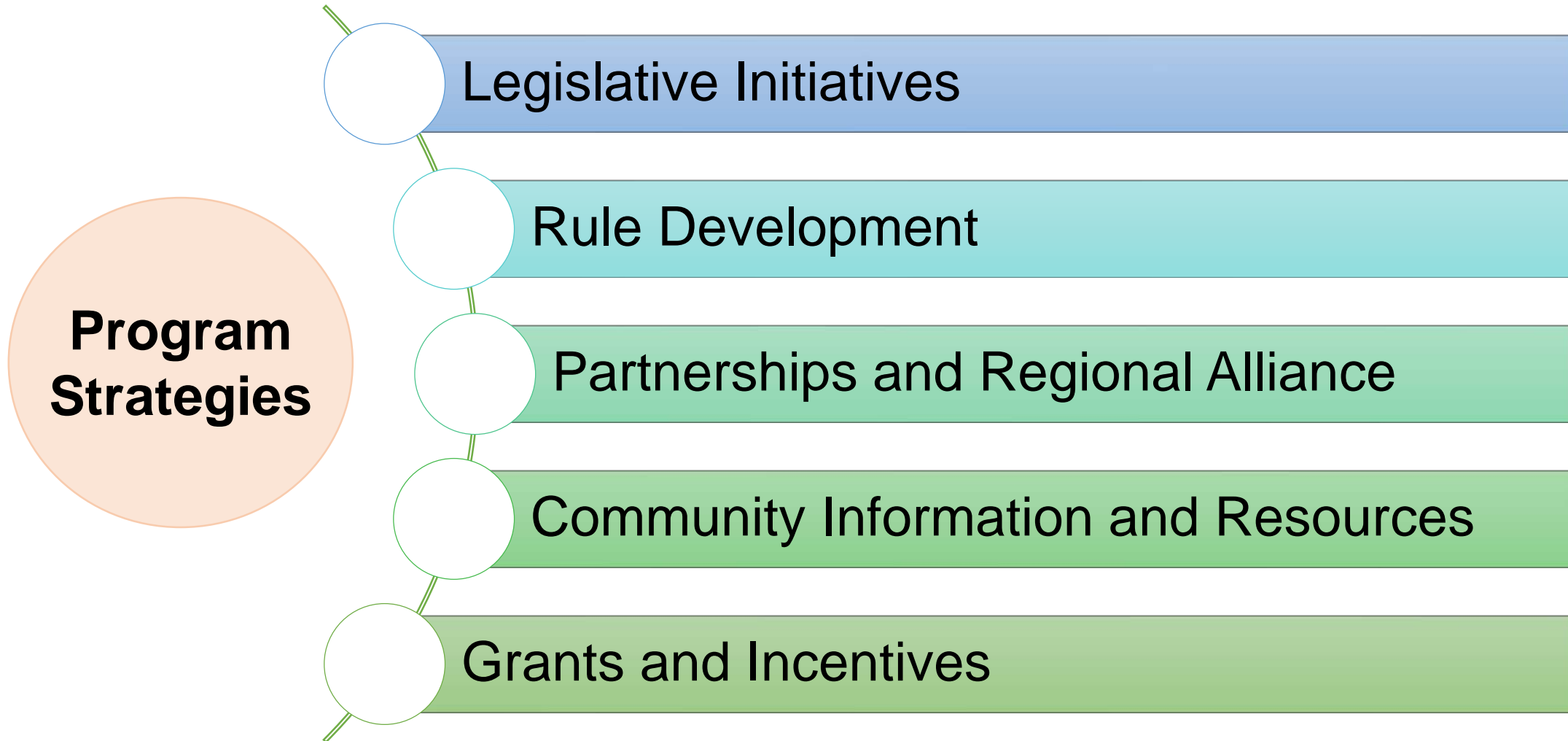
Tracy Lee
Manager, Compliance & Enforcement Division

Northern CA Wildfire Forecast



- *Maps from Northern California Geographic Coordination Center*
- https://gacc.nifc.gov/oncc/predictive/outlooks/Outlook_NOps.pdf

Wildfire Air Quality Response Program (WAQRP)

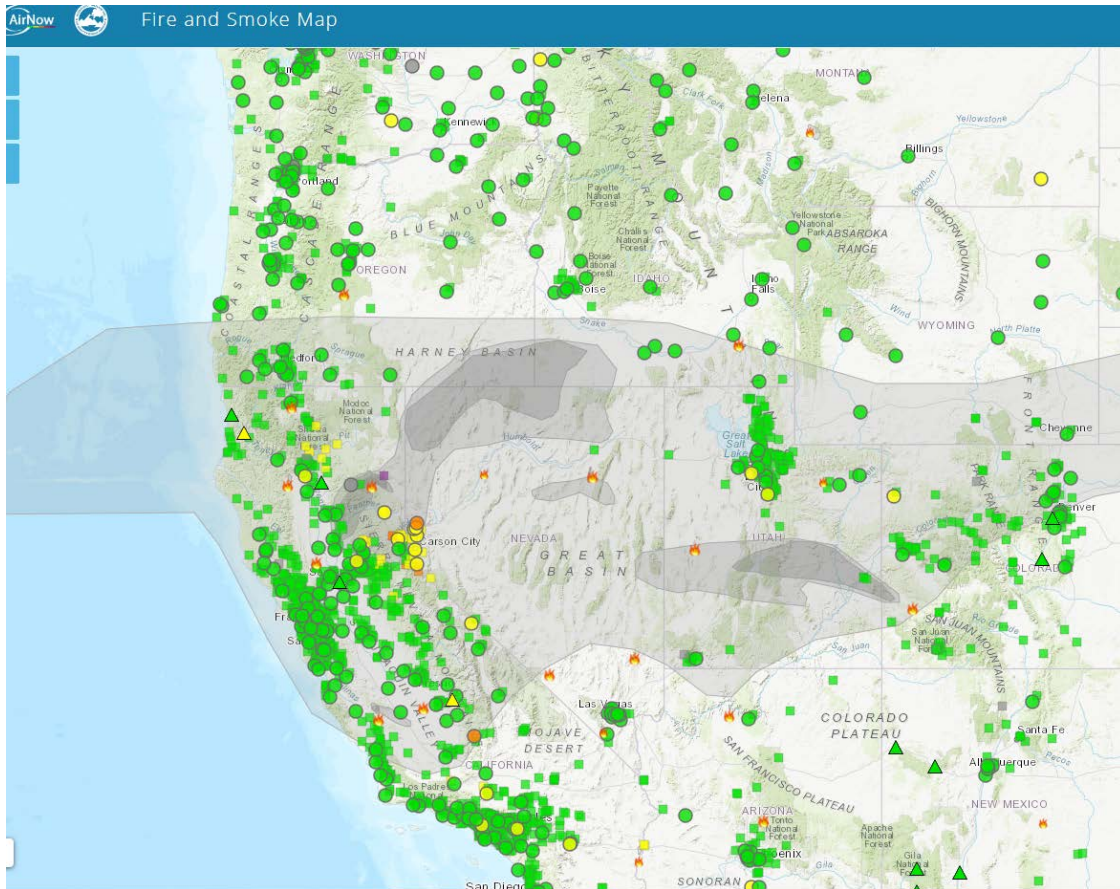


Wildfire Prevention Chipping Pilot Program



- 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

Environmental Protection Agency (EPA) AirNow Sensor Pilot Project Fire and Smoke Map



- 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



**American
Red Cross**

- **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



**American
Red Cross**

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



BAY AREA
AIR QUALITY
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AGENDA: 8

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



Executed loans or loan guarantees



Loan guarantees approved by BAAQMD

Currently under review by banks



Relevant climate projects identified

From targeted outreach to 450 Bay Area organizations

Air District's First Loan Guarantee



Air District Encumbrance	\$250,000
Total Loan Amount Supported	\$5,000,000 over 5 years

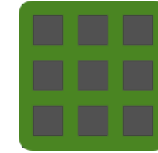
SWITCH Maritime Loan Guarantee

- **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**

Pre-Funded Projects



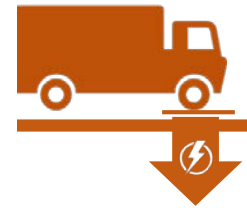
Residential Battery Systems
with Integrated Demand-Response



Solar
Microgrids



Battery-Boosted
EV Fast Charger



In-Road Energy
Recovery at Toll Gates



Cooling Technology
for Data Centers



Low-Carbon Aggregate
for Concrete

Total Air District Commitment

\$1 million

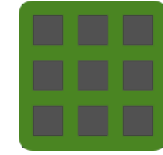
Total Loan Amount Supported

\$17 million

Pre-Funded Projects: Five-Year Impact



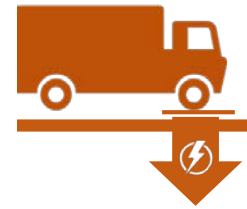
4,000 residential battery systems



150 renewable microgrids on municipal buildings



100 battery-boosted EV fast chargers



60 road plates generating electricity



90 cooling systems deployed at data centers



2,600,000 tons of aggregate in concrete

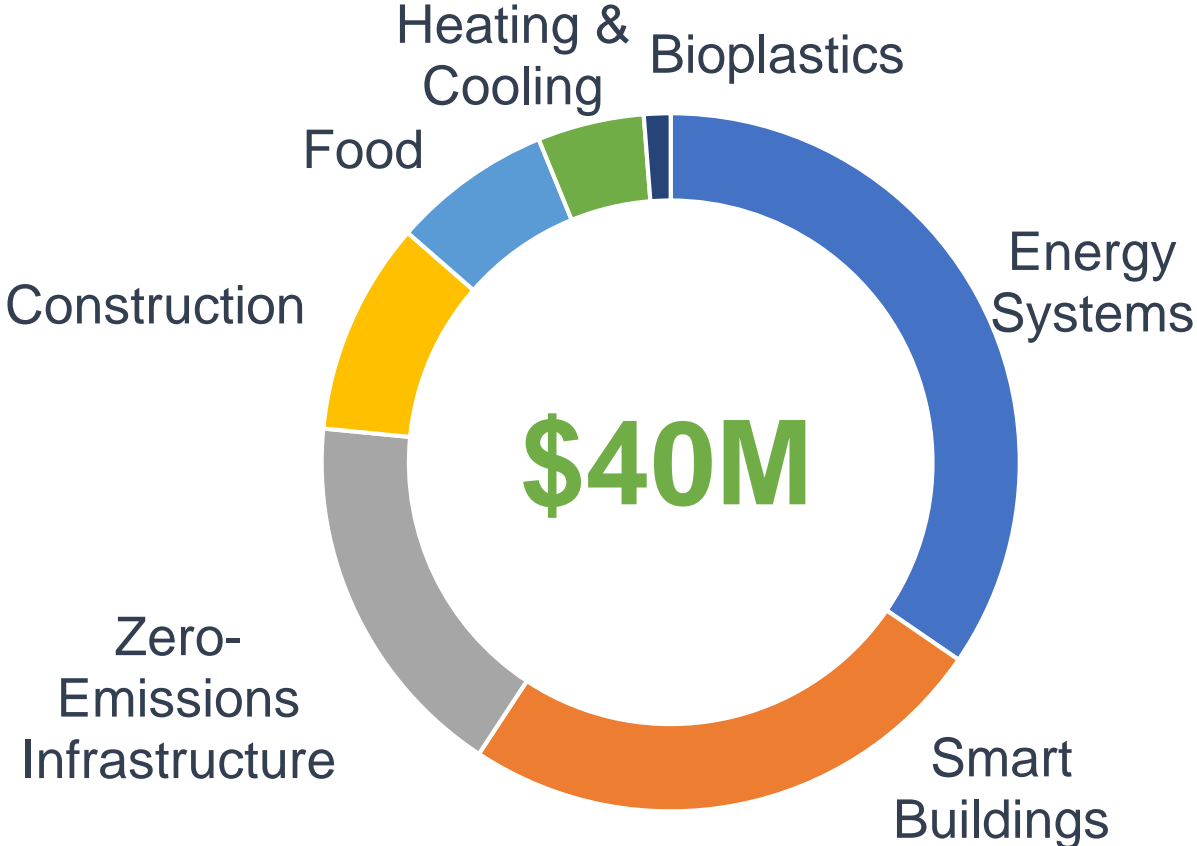
Total Greenhouse Gas Reductions

520,000 MTCO₂

Climate Project Pipeline



Projects Currently Under Review



Total Demand for Climate Loans Identified This Year

>\$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

**CLIMATE TECH
MARKETPLACE**

Questions?



Thank You