

BARC Report to BAAQMD Executive Committee

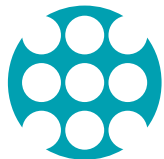
Allison Brooks, Executive Director
March 2, 2016



Bay Area
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Collaborative**

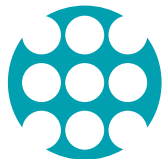
Items to Discuss:

1. Administrative Actions
2. Plan Bay Area
3. Climate Technical Assistance
4. ARCCA
5. Next Steps



Administrative Actions

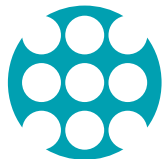
- **New Program Assistant**
- **BARC MTC Memorandum of Understanding (MOU)**
- **BARC Executive Director Performance Review**



Plan Bay Area

Incorporating BAAQMD Research:

- **Planning Healthy Places**
- **Sector Based Analysis**
- **Consumption Based GHG Inventory**
- **More...**



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4756

BARC Member Agencies Climate Technical Assistance



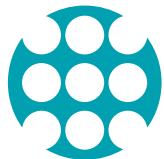
Existing Resources

- Current resources being deployed by BARC member agencies – *definition of technical assistance*
- What does current research and the facts on the ground tell us about the needs
- State legislation and guidance



Stakeholder Group

- Review and vet available resources
- Discuss challenges, barriers, opportunities at the local level
- Identify best practices for supporting local action
- Identify key role for region in providing technical assistance



Roles & Responsibilities

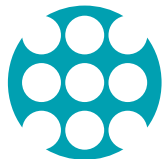
Based on Existing Resources and Stakeholder Input:

- **Who is best suited to do what?**
- **Do current priorities match need?**
- **Updated or new approaches?**
- **Focused, Strategic, Hands-on**



Integrated Program

- **Develop proactive program across agencies that:**
 - **designed to flexibly address priority needs**
 - **partners to support local needs and help overcome capacity barriers**
 - **brings best practices to scale across region**
 - **Helps get data, research, tools, resources in the hands of those who need it**

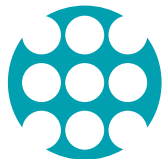


- BARC lead for Bay Area Region
- BAAQMD participation & support



BARC Engagement at State Level

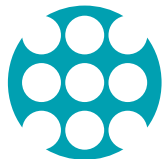
- BARC Executive Director invited to join the California Climate Adaptation and Resilience Action Plan Technical Advisory Group
 - Implementation of Executive Order B-30-15
 - Develop action plan for State agencies to incorporate climate change in planning and investment.



THANK YOU!

Allison Brooks

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AGENDA: 6

2016 Clean Air Plan Regional Climate Protection Strategy

Christy Riviere
Principal Planner

Executive Committee Meeting • Wednesday, March 2, 2016



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The Clean Air Plan

Purpose:

- Reduce emissions and ambient concentrations of pollutants
- Reduce exposure to air pollutants that pose the greatest health risk
- Reduce greenhouse gas emissions and protect the climate

Core Components:

- State mandated ozone plan
- All feasible control measures
- Multi-pollutant approach



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New for 2016

Climate Strategy:

Comprehensive strategy that responds to the Air District's 2013 Climate Resolution to reduce GHGs to 80% below 1990 levels by 2050 and to prepare a regional climate strategy via Clean Air Plan.

Sector Approach:

Aligns all control measures into nine economic sectors, consistent with ARB's AB 32 Scoping Plan.



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Overall Approach





Transportation

Support Transit, Biking and Walking

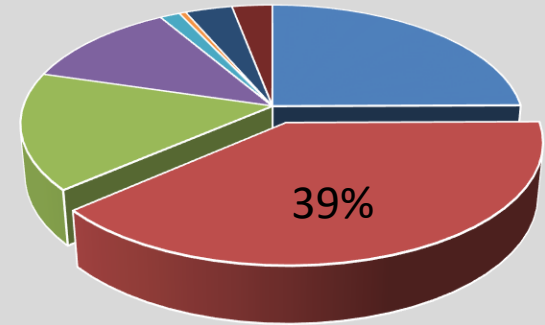
- New bus rapid transit
- Additional buses, vans and electric trolleys
- BART/eBART extensions
- Transbay Terminal, Caltrain electrification
- Bicycle and pedestrian facilities
- Safe routes to schools and transit

Make Cars and Highways Efficient

- Funding EVs, PEVs, charging stations, and HOV Lanes
- Campaigns to promote EVs and PEVs

Move Goods Efficiently and Cleanly

- Fund upgrades to the Bay Area's trade corridors
- Fund new, cleaner, heavy-duty diesel engines
- Fund electric engines for construction, freight, and farming equipment
- Fund hybrid drive trains and battery electric for trucks





Stationary Sources

Reduce GHGs and Risks via Permitting (*New Source Review*)

- Limit GHGs in permits
- Require more health protective health risk assessments in permits

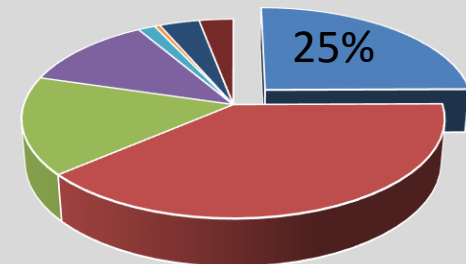
Reduce Health Risks from Existing Sources

Reduce Emissions from Oil Refineries

- Enhance air quality monitoring
- Require energy audits to identify best practices
- Investigate options to achieve GHG reductions from refineries
- Adopt source specific rules: process units, coke calcining, turbines, etc.

Reduce Emissions from Other Sources

- Natural gas and crude oil wells
- Natural gas transmission and distribution
- Cement manufacturing
- Residential space and water heating
- Emergency backup generators



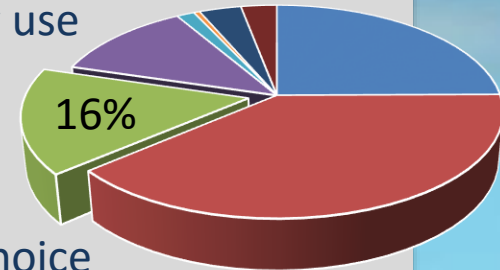


Decrease Electricity Demand

- Increase consumer awareness about energy efficiency through education and outreach
- Collaborate with public utilities to track electricity use

Decarbonize Electricity Production

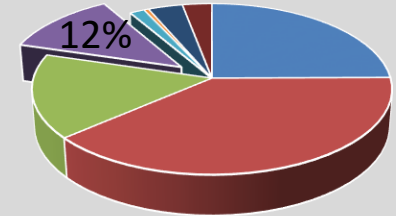
- Collaborate with public utilities and community choice aggregators to grow renewable energy portfolio
- Collaborate with energy providers to increase use of low carbon alternatives and combined heat and power
- Identify funding opportunities for new technologies and applications





Increase Building Energy Efficiency

- Develop model ordinances requiring energy assessments, building benchmarking and/or upgrades at time of sale
- Assist local governments with obtaining funding for energy efficiency programs
- Assist property owners with identifying funding for efficiency upgrades



Decarbonize Building Energy Use

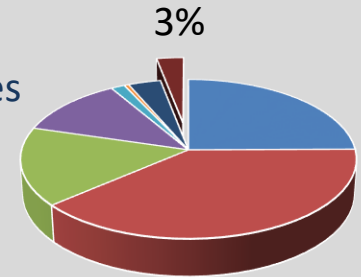
- Develop best practices on solar roofs, electric heat pumps and solar water heating
- Assist local governments through incentives for low carbon strategies
- Identify funding for schools for on-site renewable energy



Waste & Water

Decrease Emissions from Landfills/Composting

- Develop rule to reduce methane from composting facilities
- Revise existing rule to increase standards for gas collection control devices and fugitive leaks



Divert Waste and Recycle

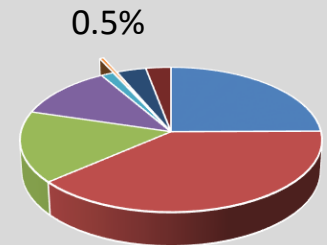
- Develop model ordinances/best practices on zero waste and diversion

Reduce Water Use

- Develop best practices for water recycling in new and existing buildings
- Work with local governments to develop water conservation ordinances

Reduce Emissions from Water Treatment Plants

- Consider new Air District rules to reduce GHG emissions from water treatment plants





Agriculture & Natural/Working Lands

Increase Carbon Sequestration

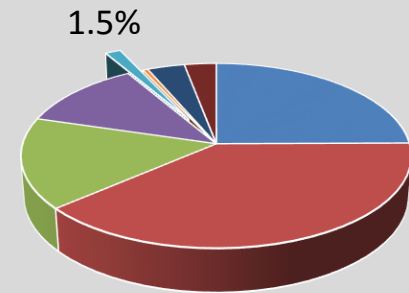
- Develop best practices on low carbon soil management
- Work with local farms, resource conservation districts and others to apply compost on rangelands

Reduce Emissions from Agriculture Waste

- Explore the feasibility of biogas recovery/anaerobic digester systems
- Develop best practices for dairy digesters and animal dietary changes

Plant Trees

- Encourage model tree planting ordinances
- Support local government efforts to secure funding for increasing tree canopy





Short-Lived Climate Pollutants

Reduce Methane

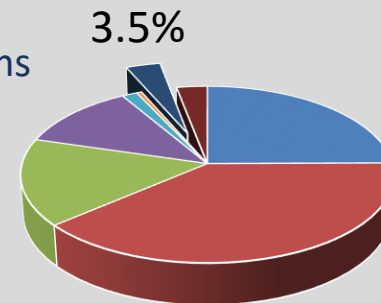
- Measures in the waste, agriculture and stationary source sectors address methane, e.g. equipment leaks at oil refineries, landfill gas collection control requirements, waste diversion, biogas recovery

Reduce Black Carbon

- Measures in the stationary source and transportation sectors address black carbon, e.g. residential wood burning, back up generators, cleaner trucks

Reduce HFCs

- Enforce regulations on leaks from refrigerants systems
- Enforce regulations on the servicing of auto air conditioning units
- Support more stringent HFC standards





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Open Houses

Six Open Houses Held Throughout the Region

- Redwood City
- San Jose
- Santa Rosa
- Richmond
- Pleasanton
- Oakland





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What We Heard

- *Reduce and/or set caps on emissions from refineries*
- *Encourage energy efficiency and reducing consumer demand*
- *Stop crude oil and coal by rail in the Bay Area*
- *Improve safety and increase funding for bike and pedestrian facilities*
- *Encourage electrification of fossil fuel end uses*
- *Promote solar installations in buildings*





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Next Steps

Draft Plan/EIR,
Socio-Economic
Analysis, Spring
2016

2nd Round Open
Houses,
Summer 2016

Final Plan to
Board, Fall
2016