United States Environmental Protection Agency (US EPA) Climate Pollution Reduction Grant

Stationary Source and Climate Impacts Committee
September 13, 2023

Abby Young
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Outline

• Grant Overview
• Planning Process
• Budget
• Timeline
• Recommended Action
Requested Actions

**Action item** for the Committee to consider recommending to the Board of Directors to:

1. Authorize the Executive Officer/APCO to accept, obligate, and expend up to $1,000,000 from the United States Environmental Protection Agency (US EPA) for a Climate Pollution Reduction Grant; and

2. Authorize the Executive Officer/APCO to enter into all agreements to accept, obligate, and expend this funding for amounts up to $100,000.
USEPA Climate Pollution Reduction Grant Program

Grant Overview

Funding for Climate Planning

• States get $3 million
• Metropolitan Areas get $1 million - Bay Area has 2 designated grant regions:
  – Central: Alameda, Contra Costa, Marin, San Francisco, San Mateo counties
  – South: Santa Clara and San Benito counties

Funding for Project Implementation

• Nationally-competitive pool of $4.6 billion
• To implement measures in the plan
• Must benefit low-income, disadvantaged “frontline” communities

Stationary Source and Climate Impacts Committee
September 13, 2023
The Opportunity Before Us

Grant Overview (cont.)

- Funding
- Regional approach builds on existing work
- Elevate frontline communities’ priorities
- Innovation
Planning Process

Phase 1: Priority Climate Action Plan (due Mar 1, 2024)
- Targeted plan focusing on 1-2 priority sectors
- Short list of high-priority GHG reduction measures

Phase 2: Comprehensive Climate Action Plan (due Sept 2025)
- GHG inventory, projections and targets covering all sectors
- Quantified GHG and co-pollutant reductions

Supportive Analyses
- Benefits and disbenefits to frontline communities
- Funding availability and gaps
- Workforce impacts
Planning Process (cont.)

Advisory Work Group – meets regularly to discuss and make decisions on key aspects of the project

- Bay Area Air Quality Management District
- Bay Area Regional Collaborative
- Bay Area Regional Energy Network
- Metropolitan Transportation Commission/Association of Bay Area Governments
- Alameda County (StopWaste)
- Contra Costa County
- Marin County
- San Mateo County
- City of Berkeley
- City of Oakland
- City and County of San Francisco
Advisory Work Group – Ex Officio members

Sonoma County
Napa County
Solano County

Not included in the EPA’s grant geography but will be included in the planning process and able to compete for the $4.6 billion in implementation funding.
<table>
<thead>
<tr>
<th>Cost</th>
<th>EPA Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air District staff (salary + fringe + admin)</td>
<td>$286,000</td>
</tr>
<tr>
<td>Travel</td>
<td>$7,000</td>
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<tr>
<td>Sub-award (BayREN)</td>
<td>$240,000</td>
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<tr>
<td>Contracts</td>
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<tr>
<td>GHG emissions analysis</td>
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<tr>
<td>Co-pollutant analysis</td>
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<tr>
<td>Workforce analysis</td>
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<td>Funding assessment</td>
<td>$28,000</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$1,000,000</strong></td>
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</table>
Grant deliverables

- Priority Climate Action Plan (due March 1, 2024)
- Comprehensive Climate Action Plan (due September 2025)
- Status Report (due June 2027)
Requested Actions

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Questions/Discussion
Amendments to Regulation 8: Organic Compounds, Rule 8: Wastewater Collection and Separation Systems

Stationary Source and Climate Impacts Meeting
September 13, 2023

Robert Cave
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Presentation Outcome

• Provide information and updates on the development of amendments to Regulation 8: Organic Compounds, Rule 8: Wastewater Collection and Separation Systems (Rule 8-8).
Presentation Outline

- Background
- Recent Rule Development History
- Draft Amendments
- Public Comments
- Next Steps
Presentation Requested Action

- None; informational item only
Background

• Assembly Bill (AB) 617 Expedited Best Available Retrofit Control Technology (BARCT) Implementation Schedule – Identified potential rule development efforts to evaluate and implement BARCT at refinery wastewater treatment systems

• Potential source of substantial reductions of organic compound emissions, as well as methane and toxic air contaminants

• Rule 8-8 last amended over 17 years ago

• Developing amendments to reduce volatile organic compound and methane emissions (total organic compound emissions) from these systems
Simplified Wastewater Treatment System

Source: U.S. EPA
Emissions from Wastewater Collection and Treatment Systems

Two primary sources of emissions — volatilization and air entrainment.

1. **Volatilization**: When wastewater is exposed to the atmosphere it allows compounds to biodegrade and volatilize into the air.

2. **Air Entrainment**: When liquid containing VOCs is transmitted in the presence of air, that air can be entrained in the liquid, which can be emitted later in the process.
Rule Development Process

- **March 2021** – Knowledge assessment phase of the Air District's internal Organic Emission Estimation Project completed
- **Q2 2022** – Refinery data requests to solicit information to ensure consideration of the best available source information and emissions estimates
- **Sept 2022** – Update to Stationary Source and Climate Impacts Committee
- **May 2023** – Draft amendments and Preliminary Staff Report published
- **June 2023** – Comments received on draft amendments
- **Q3 2023** – Stakeholder engagement including meeting with all commenters
Improve Leak Detection and Repair Requirements

• Revise leak standard from wastewater collection and separation systems to include methane along with other organic compounds (total organic compounds)
• Vapor tight emissions standard of 500 parts per million by volume
• Strengthen monitoring protocol for repairing leak excesses
• Expand reporting requirements for major leaks
Draft Amendments (cont.)

Improve Enforceability

• Strengthen identification coding requirements for wastewater collection and separation components

Limit Discharges into System

• Limit discharge of free phase organic liquid streams into collection system
• Prohibit discharge of free phase organic liquid streams into wastewater system
Update Testing and Detection Methods
• Update requirements to reflect most updated technology and methods for detecting total organic compounds

Expand Sampling and Monitoring Requirements
• Require sampling and monitoring to improve characterization of emissions related to secondary treatment system (backend)
Comments Received

- Questions and clarifications on enforcement of requirements
  - Inclusion of methane in leak detection measurements
  - Discharge prohibitions and limitations
  - Compliance timeline upon adoption
  - Inclusion of new test methods and source testing requirements
- Questions regarding how odors will be addressed in rule enforcement and compliance
Next Steps

• 4th Quarter 2023 (Planned)
  • Release of Proposed Amendments to Rule 8-8 and supporting materials for public comment including CEQA documentation and socioeconomic impact analysis as appropriate
  • Public hearing for consideration by Board of Directors
Feedback Requested/Prompt

• Questions and comments?