Contract for Support of Grants Data Management Systems

Board of Directors Meeting
September 21, 2022

Alona Davis, Air Quality Manager
Strategic Incentives Division
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Action item for the Board of Directors to consider:

Authorizing the Interim Executive Officer/APCO to execute a contract with Trinity Technology Group, Inc. for a total cost not to exceed $360,000 and a term of up to four years at the Air District’s discretion.
Outline

• Moyer Grants System

• Woodsmoke Reduction Grants System

• Actions Requested
Moyer Grants System

- Launched in 2008
- Carl Moyer and Goods Movement Data
- Supports Online Application Submittal
- Work needed for ongoing updates and maintenance
Woodsmoke Reduction Grants System

- Launched in 2016
- Woodsmoke Reduction Program data
- Supports Online Application Submittal
- Work needed to update for upcoming EPA Targeted Airshed Grant Program, and ongoing updates and maintenance
## Cost Proposal

**Grants Data Management System** | **Total estimated cost over 4-year term**
---|---
Woodsmoke Reduction | $204,000
Moyer | $156,000
**TOTAL** | **$360,000**
**Action item** for the Board of Directors to consider:

Authorizing the Interim Executive Officer/APCO to execute a contract with Trinity Technology Group, Inc. for a total cost not to exceed $360,000 and a term of up to four years at the Air District’s discretion.
Authorization to Execute Contract Amendments for Production System Office

Board of Directors
September 21, 2022

Blair L Adams
Information System Officer
badams@baaqmd.gov

Anja Page
Assistant Manager
apage@baaqmd.gov

Joy Chen
Assistant Manager
joychen@baaqmd.gov
A 10-minute status update and recommendation to approve contract amendments presented by:

Blair L Adams, Information Systems Officer
Joy Chen, Software Development Assistant Manager
Anja Page, Online Services Assistant Manager
Outline

Software Development Status
• Completed and remaining modules

Key Results
• Software development status
• Website traffic

Forecasts
• Schedule and budget
Requested Action

Request Board of Directors authorize the Interim Executive Officer/APCO to execute contract amendments, in an amount not to exceed $2,323,935.
Objective:
Legacy System Deprecation

- Legacy Systems (Databank & IRIS)
  - 2,500 of ~10,000 Regulated Facilities

Facility Migration

- New Permitting and Compliance System
  - 7,500 of ~10,000 Regulated Facilities
Permitting and Compliance System: Modules in Production

- Gas Stations
- Dry Cleaners
- Autobody Shops
- Charbroilers
- Mobile Refinishing
- Graphic Arts
- Small Boilers
- Agricultural Diesel Engines
- Internal Combustion Engines
- Public Complaints
- Wood Smoke
- Grants
- Asbestos
- Facility Inspections
- General Investigations
- Financial System Integration
- Payment Reconciliation
- Stipulated Abatement Orders
- Online Payments (Version 1)
- Renewal Fee Update (FYE 2023)
Permitting and Compliance System: Recent Accomplishments

- Application Programming Interface
- Decoupled Legacy Systems
- No Net Increase (Reports)
- Notice of Violation (Issuance)
- Notice to Comply
- Renewal Fee Calculations
- Factor-Based Emission Calculations
- Emission Train Topology
- Compliance Verification
- Online Payments (Phase 2)
- Enhanced Virus Scanning
- Refinery Invoice Enhancements (12-15)
- Compliance Verification
- Federal Emission Statements (Refineries)
- Unified Invoices and Permits*
- Source Modifications
- Transfer of Ownership
- Radio Telephone Operator (Dispatch)
- Area Assignment Enhancements
- Facilities Migrated 23% (73% Complete)
Remaining Permitting Modules

Databank

- **Device Input Form Logic**
- **Application Fee Automation**
- **Emissions Calculations (Material Balance)**
- **No Net Increase (Administrative Interface)**
- **Condition Editor**
- **Application Interface Enhancements**
Facility Migration Status

- Databank: 20%
- Eligible: 5%
- New Production System: 75%
Web Usage Metrics

Date Range:
6/29/2021 8/29/2022

3.54M Pageviews
1.45M Sessions
1.23M Users

District Website Usage

- Pageviews
- Sessions
- Users

Count

Date

## Legacy Transition Roadmap Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
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<tbody>
<tr>
<td>Digital Twin (Gap Analysis)</td>
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<tr>
<td>Parallel Operations (Alpha Release)</td>
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<tr>
<td>Production Operations (Beta Release)</td>
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<tr>
<td>Operations, Maintenance &amp; Productivity Enhancements (Version 2.0 Release)</td>
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</table>
Budget: Recent Actuals and Future Estimated

[Graph showing budget data from 2021 to 2027]
Staff recommends the Board of Directors authorize the Interim Executive Officer/APCO to execute contract amendments, in an amount not to exceed $2,323,935.
Draft 2022 Scoping Plan

RAJINDER SAHOTA
DEPUTY EXECUTIVE OFFICER
AB 32 Climate Change Scoping Plan Statutory Requirements

- Scoping Plan(s) are action plans for CA to meet statewide GHG reduction targets
  - Scoping Plan(s) outline a suite of climate policies to address emissions across all sectors
  - Required to be updated at least every 5 years
  - 2017 SP (most recent) – cost-effective and technologically feasible path to achieve the 2030 target
- Provide direct GHG emissions reductions and air quality benefits
- Minimize emissions “leakage” – increase to non-CA GHG emissions
  - Ensure high-road jobs remain
- Facilitate sub-national and national collaboration
  - Develop exportable programs for partners to adopt
- Support cost-effective and flexible compliance
July 22\textsuperscript{nd} Letter from Governor Newsom

- Increase ambition and action called for in the draft Scoping Plan
- Directed CARB to include the following:
  - 20 GW of offshore wind by 2045
  - Avoid need for new gas plants
  - 3 million climate-ready and climate-friendly homes by 2030/ 7M by 2035
  - 6 million heat pumps statewide by 2030
  - Increase LCFS stringency, accelerate refinery transitions to clean fuels
  - Increase a clean fuels target for aviation
  - Address oil and gas methane leaks near communities
  - Carbon dioxide removal and capture target of 20 MMT in 2030/ 100 MMT in 2045
Overview of the Draft 2022 Scoping Plan

Unprecedented Deployment of Clean Technology

- 30x total on-road ZEVs
- 6x electric appliances in residences
- 60x hydrogen supply
- 4x installed wind/solar generation capacity

Significant GHG Reductions

- 91% decrease in petroleum demand
- 91% decrease in fossil natural gas used in buildings
- 66% decrease in methane emissions from agriculture

In 2045 relative to 2022
Health and Economic Metrics

Social cost of carbon (avoided economic damages) of $9.9 billion in 2045

Health benefits (avoided incidence of health effects) over $10 billion
2045 episodic modeling

9x less impact on state economy than most aggressive alternative in 2045
7x less impact on household income than most aggressive alternative in 2045
2x less direct costs than most aggressive alternative in 2045

1.5x less impact on jobs than most aggressive alternative in 2045

*Reference economy and jobs indicate continued growth from now through 2045
Metrics for Natural and Working Lands

10x increase in forest management

5x increase in climate smart agricultural practices

50% reduction in conversion of sparsely vegetated lands to another land use

10% decrease in annual wildfire emissions

20% increase in urban forest investment
Uplifting Equity

- Drastic reductions in fossil fuel combustion will provide health benefits to overly burdened communities located adjacent to freeways and stationary sources.

- Community Vulnerability Metric (CVM)
  - Not all communities face the same impacts from climate change.
  - Not all communities are equal in resiliency.
  - CVM will identify additional social carbon costs at census tract level experienced due to disparate climate impacts (heat, drought, etc.).
  - Assist in identifying where and how to build community resiliency.
  - Will be incorporated into the final plan.
California’s Climate Policy Framework

- Legislation and Executive Orders: total GHGs (AB 32/SB 32) or sector targets (SB 1383/SB 100), etc.

- AB 32 Scoping Plan
  - Actionable plan across all sectors

- Regulations & Incentives: Advanced Clean Cars, Climate change investments, etc.

- Projects
  - Examples: building compost facilities, digesters, renewables, energy infrastructure, etc.
Multi-State Agency Effort

List is not exhaustive
Incorporation of EJ Advisory Committee Recommendations

- Over a dozen EJAC meetings since summer 2021
- EJAC provided feedback on modeling inputs
- Over 200 draft EJAC recommendations to inform Draft 2022 Scoping Plan
- 5 dozen references to EJAC recommendations in Draft 2022 Scoping Plan
What Carbon Neutrality Means

Continue to reduce emissions from sources in the AB 32 GHG Inventory

Emissions and sequestration from natural and working lands

Technological Carbon Dioxide Removal

= Carbon Neutral
Proposed Scenario: Significant GHG Reductions at Sources

Successful implementation of the Proposed Scenario would exceed the SB 32 GHG Target of 40% below 1990 levels by 2030.
Proposed Scenario: Fossil Fuel Combustion Declines Significantly Across all Sectors

Excludes fuel combustion from CA biomass and imported electricity.
Affordable, Reliable, and Clean Electricity Grid

- Electricity demand 68% higher by 2045 as power sector plays bigger role
- More intermittent renewables will require more dispatchable resources for reliability
- Opportunities to increase storage and increase energy efficiency can reduce need for new gas capacity builds
Carbon Removal and Sequestration

- Carbon Capture and Storage (CCS) (from a facility)
- Carbon Dioxide Removal (CDR) (from ambient air)
- Nature Based
  - Mechanical
  - Nature Based
- Direct Air Capture with Sequestration (DACS)
- Bioenergy with CCS (BECCS)
- Natural and Working Lands
Healthy trees, plants, and soils can support our greenhouse gas reduction goals in two primary ways:

1. Serving as carbon sinks through sequestration.
2. Avoiding releases of emissions from their substantial existing carbon stocks.

We are not focusing on maximizing carbon across all landscape types.

We are focusing on supporting carbon management that fosters ecosystem health, resilience and many other ecosystem services.
Landscapes Included in the Draft

- Forests, shrublands, and grasslands
- Annual and perennial croplands
- Sacramento-San Joaquin Delta
- Urban forests and wildland urban interface
- Deserts
NWL Carbon Stock Loss Over Time

Carbon stocks include:
- Above and below ground biomass
- Soil carbon in annual croplands and wetlands
- Harvested wood products

Carbon on lands in constant flux
- Decreasing trend through 2045
- Photosynthesis results in CO₂ removals
- Wildfire, decay, and soil oxidation result in CO₂ and CH₄ emissions
- N₂O emissions calculated as well
Role and Scaling of Carbon Removal

\[
\text{GHG} \pm \text{CO}_2^- = \text{Carbon Neutral}
\]

AB 32 Inventory Sectors: Significantly reduced, but some emissions remain

NWL a source

Need carbon removal to compensate for AB 32 and NWL sectors

- Role of CDR is reduced if:
  - We reduce the emissions from the AB 32 Sectors faster
  - NWL is able to become a sink
Additional Topics in Draft Scoping Plan

- Convening of multiagency group with communities to discuss options to ensure safe, reliable deployment of CCS

- Cap-and-Trade role in achieving 2030 target is likely reduced due to following:
  - New legislation: SB 350, SB 596
  - More stringent programs: LCFS, proposed ACC 2
  - Reductions in emissions due to pandemic related impacts

- $20.3 billion in Cap-and-Trade auction proceeds generated since 2014
  - 50% of implemented projects benefitting the State’s disadvantaged and low-income communities
Key Recent Climate Legislation

AB 1279: Codifies carbon neutrality target by 2045, requires anthropogenic emissions to be reduced by 85% by 2045 (carbon capture and sequestration counts)

SB 905: Directs CARB to establish engineered carbon removal and carbon capture utilization and sequestration program to support carbon neutrality

AB 1757: Requires the establishment of natural and working lands sequestration targets

SB 1020: Establishes interim clean electricity targets and interim targets

SB 846: Extends Diablo power plant

AB 1322: Aviation fuels targets of 20% reduction by 2030

SB 1137: Oil and gas setbacks of 3200 feet
2022 Scoping Plan Update Schedule

- **Release Draft Scoping Plan**: May 2022
- **Summer Workshop / Revise Modeling**: Q2 Q3
- **Board Meeting (1 of 2)**: June 2022
- **CARB Listening Sessions**: Q4
- **Release Final Scoping Plan**: Fall 2022
- **Board Meeting (2 of 2)**: Late Fall 2022
- **EJAC Meetings and Community Meetings (ongoing)**
- **Scoping Plan Workshops (ongoing)**
Consideration of Proposition 30 (2022)

Board of Directors Meeting
September 21, 2022

Alan Abbs
Legislative Officer
aabbs@baaqmd.gov
Presentation Outcome

Staff will provide an overview of Proposition 30 – the “Clean Cars and Clean Air Act” – appearing on the November 8, 2022, Statewide General Election Ballot.
Presentation Outline

- Summary
- Ballot Initiative Timeline
- Program Allocation
- Support/Opposition
- Discussion
Recommend the Board of Directors (Board) discuss and consider taking a position on Proposition 30 (2022).
Summary

• A **YES** vote on this measure means: Taxpayers would pay an additional tax of 1.75 percent on personal income above $2 million annually. The revenue collected from this additional tax would support zero-emission vehicle programs and wildfire response and prevention activities.

• A **NO** vote on this measure means: No change would be made to taxes on personal income above $2 million annually.
Ballot Initiative Timeline

• November 5, 2021 – Ballot Initiative #21-0037 filed.

• January 10, 2022 – Signature drive allowed to begin with signatures due on July 11, 2022.
  • Signatures Needed: 623,212
  • Final random sample count concluded that 720,238 of the 990,608 submitted signatures were valid.

• June 28, 2022 – the Secretary of State reported that the initiative had qualified for the November 8, 2022, Statewide General Election Ballot.
Both accounts can be spent on suppression and prevention programs defined in the measure. The CalFire General Account prioritizes suppression for the first six years (with up to 25% of funds spent on prevention), after which the relative allocation is discretionary.

<table>
<thead>
<tr>
<th>Program (Fund)</th>
<th>Focus Areas</th>
<th>Program Allocation</th>
<th>Focus Area Minimum Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZEV Infrastructure Program (ZEV investment plan)</td>
<td>Multifamily Charging</td>
<td>35% of total revenue</td>
<td>20%</td>
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<tr>
<td></td>
<td>Single-Family Charging</td>
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<td>10%</td>
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<tr>
<td></td>
<td>Fast-Fueling ZEVs</td>
<td></td>
<td>10%</td>
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<tr>
<td></td>
<td>M/HD ZEV Fueling</td>
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<td>10%</td>
</tr>
<tr>
<td>ZEV Affordability Program (ZEV &amp; Clean Mobility Fund)</td>
<td>Passenger ZEVs</td>
<td>45% of total revenue</td>
<td>67%</td>
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<tr>
<td></td>
<td>M/HD ZEV &amp; Non-Vehicle Mobility</td>
<td></td>
<td>33%</td>
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<tr>
<td>Reducing Wildfire GHG Program (RWGP) (RWGP Fund)</td>
<td>Fire Marshal P&amp;S Account*</td>
<td>20% of total revenue</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>CAL FIRE General Account*</td>
<td></td>
<td>75%</td>
</tr>
</tbody>
</table>

*Both accounts can be spent on suppression and prevention programs defined in the measure. The CalFire General Account prioritizes suppression for the first six years (with up to 25% of funds spent on prevention), after which the relative allocation is discretionary.*
Officials: 50+ Elected Local, State, and Federal Officials, including Congress Members Khanna and Lee; State Senators Wieckowski and Wiener; State Assembly Members Haney, Mullin, R. Rivas, Stone, Wicks, and Wilson; and Mayors Arreguin, Breed, Ezzy Ashcraft, Liccardo, and Schaaf.

Corporations: 20+ Corporations, including Lyft, Rivian, and ChargeNet.

Unions: California State Association of Electrical Workers, State Building and Construction Trades Council of California, California State Pipe Trades Council, among others.

Organizations: California Environmental Voters, Coalition for Clean Air, Natural Resources Defense Council, Brightline Defense, SPUR, American Lung Association, among others.

*This is a non-exhaustive list.*
Opposition

Officials
  • Governor Gavin Newsom

Unions
  • California Teachers Association

Organizations
  • Howard Jarvis Taxpayers Association
  • California Chamber of Commerce

*This is a non-exhaustive list.
Questions / Discussion