South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

REVISED

HYBRID TECHNOLOGY COMMITTEE MEETING

Committee Members

Mayor Pro Tem Carlos Rodriguez, Committee Chair
Supervisor Curt Hagman
Mayor Patricia Lock Dawson
Mayor Pro Tem Larry McCallon
Supervisor Janet Nguyen
Board Member Veronica Padilla-Campos

April 18, 2025 ♦ 12:00 p.m.

TELECONFERENCE LOCATIONS

Yorba Linda Public Library
Study Room 2
4852 Lakeview Avenue
Yorba Linda, CA 92886

Riverside City Hall
3900 Main Street
7th Floor Conference Room
Riverside, CA 92522

Orange County Board of Supervisors, District 1
400 W. Civic Center Drive, Sixth Floor
CAN Floor 6, Room 601A
Santa Ana, CA 92701

A meeting of the South Coast Air Quality Management District Technology Committee will be held at 12:00 p.m. on Friday, April 18, 2025 through a hybrid format of in-person attendance in the Dr. William A. Burke Auditorium at the South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, and remote attendance via videoconferencing and by telephone. Please follow the instructions below to join the meeting remotely.

Please refer to South Coast AQMD's website for information regarding the format of the meeting, updates if the meeting is changed to a full remote via webcast format, and details on how to participate:

http://www.aqmd.gov/home/news-events/meeting-agendas-minutes

ELECTRONIC PARTICIPATION INFORMATION
(Instructions provided at bottom of the agenda)

Join Zoom Meeting - from PC or Laptop
https://scaqmd.zoom.us/j/96669409722
Zoom Webinar ID: 966 6940 9722 (applies to all)
Teleconference Dial In
+1 669 900 6833
One-Tap Mobile
+16699006833, 96669409722#

Audience will be allowed to provide public comment in person or through Zoom connection or telephone.

PUBLIC COMMENT WILL STILL BE TAKEN

Cleaning the air we breathe…

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54954.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes total for all items on the agenda.

CALL TO ORDER

ROLL CALL

ACTION ITEMS: (1-3)

1. **Execute Contract to Evaluate Performance and Emissions of a Linear Generator** ***(Motion Requested)***
   Sam Cao, Ph.D.
   Program Supervisor

   Linear generators have emerged as an alternative power generation technology that can support and accelerate charging infrastructure deployments. Due to their unique operating characteristics and fuel agnostic capabilities, additional studies are needed to assess the long-term performance, applications, efficiencies, and emission profile of this technology. Institute of Gas Technology (GTI Energy) has proposed to demonstrate a commercially ready linear generator fueled with renewable fuels. The linear generator will be installed at California State University, Long Beach's central plant and supply electrical and thermal load to the university campus. This action is to execute a contract with GTI Energy to assess the performance and efficiency and evaluate emissions from a Mainspring linear generator using renewable fuels in an amount not to exceed $660,000 using the Clean Fuels Program Fund (31).

2. **Transfer Funds for the Development of the Carl Moyer Program Grant Management System** ***(Motion Requested)***
   Yuh Jiun Tan
   Program Supervisor

   In February 2024, the Board appropriated up to $200,000 for the development of the Carl Moyer Program Grant Management System. The final phase in the development of the Grant Management System requires the integration of an invoicing module and annual report tracker. This action is to transfer and appropriate up to $135,000 from the administrative portion of the Carl Moyer Program Fund (32) into Information Management's FY 2024-25 and/or 2025-26 Budget, Professional and Special Services and Supplies and/or Capital Outlays Major Objects for the further development and maintenance of the Carl Moyer Grant Management System.

3. Appropriate Funds, Execute Agreement for EV Hardware at South Coast AQMD Headquarters and Authorize Removal of Fixed Assets Inventory *(Motion Requested)*

Vasileios Papapostolou, Sc.D.
Planning & Rules Manager

In August 2024, the Board approved the release of an RFP to replace the EV charging infrastructure at South Coast AQMD headquarters. In January 2025, the Board approved the execution of a contract with GreenWealth Energy Solutions, Inc. (GreenWealth) to install and maintain a new EV charger network at South Coast AQMD headquarters in an amount not to exceed $723,248 from the Technology Advancement Office's FY 2024-25 Budget. Additionally, GreenWealth proposed to source a carbon offsetting charger donation program with ChargePoint, Inc. that would allow South Coast AQMD to donate South Coast AQMD's existing EV hardware for 55 new charging stations at no additional cost. These actions are to: 1) authorize the appropriation of funds and execute the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024–2025 or FY 2025–2026 Budget; 2) execute an agreement with ChargePoint, Inc. to donate South Coast AQMD's existing old EV chargers in exchange for new EV chargers and release them to GreenWealth for installation; and 3) declare South Coast AQMD's existing old chargers nonoperational and approve the removal and donation of the chargers.

INFORMATIONAL ITEM:

4. Capture and Control System for Ocean-Going Vessel

Randall Pasek
STAX Engineering, Inc.

In January 2021, the Board approved a project to design, develop, and deploy a capture and control system for ocean-going vessel emissions, specifically tankers. Partnering with STAX Engineering, Inc., the $13 million project received a $10 million award from the CARB and $1 million cost-share from the South Coast AQMD. The project consists of a self-propelled spud barge powered by the first-of-its-kind methanol fuel cell and diesel genset using renewable fuels. The exhaust capture system and purification units on the barge reduce NOx, PM2.5, and Reactive Organic Gases by 90 percent. STAX is conducting tests to obtain a CARB Executive Order to be used as an emission control option for ocean-going vessels.

5. Other Business

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

6. Public Comment Period

At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

7. Next Meeting Date

Friday, May 16, 2025 at 12:00 p.m.

ADJOURNMENT

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Penny Shaw Cedillo at 909.396.3179, or send the request to pcedillo@aqmd.gov.

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Technology Committee meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to South Coast AQMD. Please contact Penny Shaw Cedillo at 909.396.3179 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to pcedillo@aqmd.gov.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee
As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on Mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

Speakers may be limited to a total of 3 minutes for the entirety of the consent calendar plus board calendar, and three minutes or less for each of the other agenda items.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the **"Raise Hand"** button on the bottom of the screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the **"Raise Hand"** button on the bottom of your screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please **dial *9** on your keypad to signal that you would like to comment.

BOARD MEETING DATE: May 2, 2025 AGENDA NO.

PROPOSAL: Execute Contract to Evaluate Performance and Emissions of a Linear Generator

SYNOPSIS: Linear generators have emerged as an alternative power generation technology that can support and accelerate charging infrastructure deployments. Due to their unique operating characteristics and fuel agnostic capabilities, additional studies are needed to assess the long-term performance, applications, efficiencies, and emission profile of this technology. Institute of Gas Technology (GTI Energy) has proposed to demonstrate a commercially ready linear generator fueled with renewable fuels. The linear generator will be installed at California State University, Long Beach's central plant and supply electrical and thermal load to the university campus. This action is to execute a contract with GTI Energy to assess the performance and efficiency and evaluate emissions from a Mainspring linear generator using renewable fuels in an amount not to exceed $660,000 using the Clean Fuels Program Fund (31).

COMMITTEE: Technology, April 18, 2025; Recommended for Approval

RECOMMENDED ACTION:
Authorize the Executive Officer to execute a contract with GTI Energy to assess the performance and evaluate emissions from a Mainspring linear generator using renewable fuels at California State University, Long Beach, in an amount not to exceed $660,000 from the Clean Fuels Program Fund (31).

Wayne Nastri
Executive Officer

AK:MW:VP:SC:HL

Background

In 2019, linear generators were introduced to South Coast AQMD as an alternative power generation technology to diesel generators that may achieve low emissions without an aftertreatment system. Initially, linear generators were regulated under

South Coast AQMD Rule 1110.2 – Emissions from Gaseous- and Liquid-Fueled Engines. However, due to the unique operating capabilities of linear generators, and to allow for specific considerations for this technology, Rule 1110.3 – Emissions from Linear Generators was developed and adopted by the Board in November 2023.

Linear generators are increasingly being used for power generation solutions for medium and heavy-duty charging depots where sufficient grid support is not available in the near term. This alternative power generation technology produces electricity by driving magnets through copper coils in a linear motion. This unique operation creates the potential for ultra-low emissions with high electricity generation efficiency and the ability to operate on a wide variety of fuel types, such as renewable natural gas, biogas, and hydrogen. Additional studies are needed to assess linear generator performance and the full emissions profile.

On December 4, 2024, the Institute of Gas Technology (GTI Energy) was awarded a $3,999,896 CEC grant to demonstrate a Mainspring linear generator at California State University, Long Beach (CSULB). Under this project, a Mainspring linear generator will be evaluated on its performance, efficiency, and emission profiles, using different fuels and under various operating conditions.

Proposal

GTI Energy's study will demonstrate a fuel-flexible Mainspring linear generator producing 250kW of peak power utilizing renewable fuels such as a blend of dimethyl ether and liquid propane gas along with blends of hydrogen and renewable natural gas. The generated electricity will be integrated into the CSULB's central plant electrical distribution system. The project team plans to implement onsite modifications to capture waste heat for the university's year-round re-heat needs for their ventilation systems. This may potentially enhance the system's overall energy efficiency to at least 80 percent. The project team will also measure the criteria and toxic air pollutants emissions which will include particulate matter and polycyclic aromatic hydrocarbons. The Propane Education & Research Council will provide the propane needed for this project and support the emissions measurement effort. The Utilization Technology Development will provide the technical assistance needed for energy efficient improvement through waste heat recovery.

Sole Source Justification

Section VIII.B.2 of the Procurement Policy and Procedure identifies four major provisions under which a sole source award may be justified. This request for sole source award is made under provision B.2.d.: Other circumstances exist which, in the determination of the Executive Officer require such a waiver in the best interests of South Coast AQMD. Specifically, these circumstances are B.2.d.(8): Research and development efforts with educational institutions or nonprofit organizations. GTI

Energy is a nonprofit organization that develops innovative solutions for low-carbon, low-cost energy systems.

Benefits to South Coast AQMD
Projects supporting EV charging infrastructure are included in the Technology Advancement Office Clean Fuels Program 2024 Plan Update under "Health Impacts, Fuel and Emissions Studies." The research and support for infrastructure is a key component to electrifying the transportation sector. The deployment of heavy duty EVs within the South Coast Air Basin (Basin) region has created a need for large amounts of grid power to support charging infrastructure and linear generators have been used to provide interim power solutions until grid power is available. Understanding the toxic and criteria pollutant emissions from in-use linear generators on multiple fuel sources and fuel blends is of particular interest to South Coast AQMD as more linear generators are deployed in the Basin to provide power generation to buildings and to supplement the grid electricity in heavy duty battery EV charging applications.

Resource Impacts
South Coast AQMD's funding for the evaluation, emissions and performance of the Mainspring linear generator with GTI Energy shall not exceed $660,000 from the Clean Fuels Program Fund (31).

Funding Source	Funding Amount	Percent
CEC	$3,999,896	79
Propane Education & Research Council	$127,008	2.5
Utilization Technology Development	$190,500	3.5
CSULB (in-kind)	$61,308	1
Mainspring Energy, Inc.	$30,000	1
South Coast AQMD *(requested)*	$660,000	13
Total	**$5,068,712**	**100%**

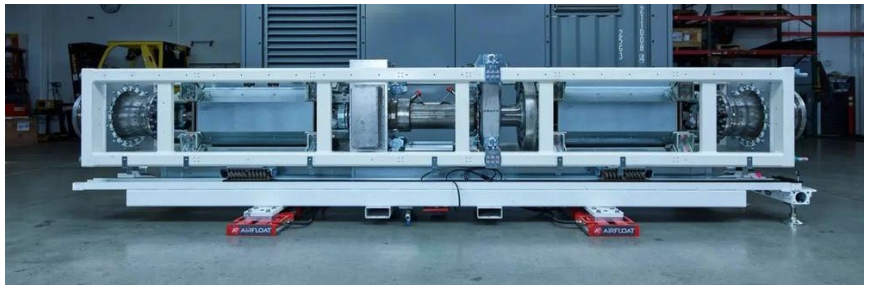
Sufficient funds are available from the Clean Fuels Program Fund (31), established as a special revenue fund resulting from the state-mandated Clean Fuels Program. The Clean Fuels Program, under Health and Safety Code Sections 40448.5 and 40512 and Vehicle Code Section 9250.11, establishes mechanisms to collect revenues from mobile sources to support projects to increase the utilization of clean fuels, including the development of the necessary advanced enabling technologies. Funds collected from motor vehicles are restricted, by statute, to be used for projects and program activities related to mobile sources that support the objectives of the Clean Fuels Program.

Back to Agenda

AGENDA ITEM 1: Execute Contract to Evaluate Performance and Emissions of a Linear Generator

Sam Cao

Background



- Linear generators is alternative power generation technology:
  - Potential for higher efficiency with low emissions than internal combustion engines without aftertreatment
  - Chemical/thermal energy is used to drive magnets through copper coils in a linear motion to create electricity
  - Fuel-flexible to run on natural gas, hydrogen, propane, etc.
- Has been used for temporary power for heavy-duty electric vehicle charging
- Additional studies needed to assess performance and full emissions profile

GTI Energy Proposal

- GTI Energy will assess the performance and evaluate emissions from a Mainspring linear generator using renewable fuels
- CEC grant awarded in Dec 2024
- Criteria and toxic air contaminants emissions on multiple renewable fuels blends will be measured
- Mainspring linear generator to be integrated into California State University – Long Beach's central plant
- Heat recovery from the generator will help provide hot water to buildings and improve thermal efficiency

GTI ENERGY

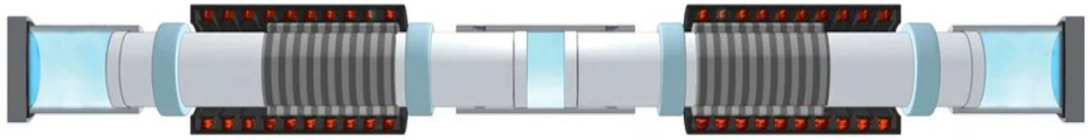
CALIFORNIA STATE UNIVERSITY LONG BEACH

Mainspring

UTD Utilization Technology Development

PROPANE education & research COUNCIL

STATE OF CALIFORNIA ENERGY COMMISSION



Resource Impacts - GTI Energy Proposal

Proposed Funding Source	Funding Amount	Project %
CEC	$3,999,896	79%
Propane Education & Research Council	$127,008	2.5%
Utilization Technology Development	$190,500	3.5%
CSULB (in-kind)	$61,308	1%
Mainspring Energy, Inc.	$30,000	1%
South Coast AQMD (requested)	***$660,000***	***13%***
Total Project Cost	**$5,068,712**	**100%**

Recommended Action

Authorize the Executive Officer to execute a contract with GTI Energy to assess the performance and evaluate emissions from a Mainspring linear generator using renewable fuels at California State University – Long Beach in an amount not to exceed $660,000 from the Clean Fuels Program Fund (31)

BOARD MEETING DATE: May 2, 2025 AGENDA NO.

PROPOSAL: Transfer Funds for Development of Carl Moyer Program Grant Management System

SYNOPSIS: In February 2024, the Board appropriated up to $200,000 for the development of the Carl Moyer Program Grant Management System. The final phase in the development of the Grant Management System requires the integration of an invoicing module and annual report tracker. This action is to transfer and appropriate up to $135,000 from the administrative portion of the Carl Moyer Program Fund (32) into Information Management's FY 2024-25 and/or 2025-26 Budget, Professional and Special Services and Supplies and/or Capital Outlays Major Objects for the further development and maintenance of the Carl Moyer Grant Management System.

COMMITTEE: Technology, April 18, 2025; Recommended for Approval

RECOMMENDED ACTION:
Transfer and appropriate up to $135,000 from the administrative portion of the Carl Moyer Program (Grant # G22-MO-27) Fund (32) into Information Management's FY 2024-25 and/or 2025-26 Budget, Professional and Special Services and Supplies and/or Capital Outlays Major Objects for the further development and maintenance of the Carl Moyer Program Grant Management System (GMS).

Wayne Nastri
Executive Officer

AK:MW:YJT

Background

The South Coast AQMD currently manages over 1,900 active projects under the Carl Moyer Program. Given the volume of projects, including complex multi-year projects with various milestones and reporting requirements stipulated by program guidelines, a robust in-house grant management system is needed. In February 2024, the Board

authorized $200,000 for the development of the Carl Moyer Program Grant Management System to establish the online application and evaluation platform streamlining the evaluation and approval process.

The online application in the Grant Management System has been successfully implemented and is actively utilized by applicants and staff. However, additional functionalities are required to further enhance the system's capabilities, including the integration of an invoicing module and annual reporting tracker that would allow applicants to submit invoices and annual usage reports to the Grant Management System. Additional funds are needed to support South Coast AQMD's Information Management for the costs associated with developing and maintaining the Carl Moyer Program Grant Management System.

Proposal

Staff recommends the development of the final phase of the Carl Moyer Program Grant Management System. This will support enhancements to the Grant Management System that include the following:

- Invoicing module for staff to directly review and process invoices in OnBase, the online platform for managing documents and processes, and
- Annual Report Tracker for end users to upload and staff to review annual usage reports required by Carl Moyer Program guidelines.

Benefits to South Coast AQMD

The Development of a Grant Management System to manage Carl Moyer Program projects will provide seamless integration with the existing OnBase system, streamlining the contracting and invoicing process and enabling efficient tracking of project milestones and reporting requirements. Additionally, the system will enhance project transparency, providing greater visibility for program participants.

Resource Impacts

Sufficient funding is available from the administrative portion of the Carl Moyer Program Fund (32) in the amount of up to $135,000 for further development of the Carl Moyer Program GMS.

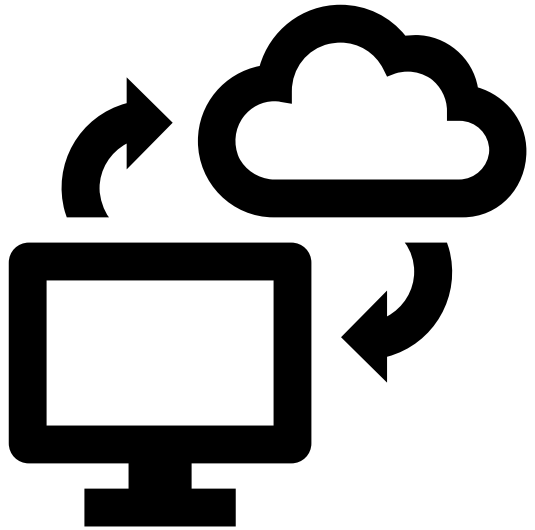
Agenda #2

Transfer Funds for the Development of the Carl Moyer Program Grant Management System

Yuh Jiun Tan

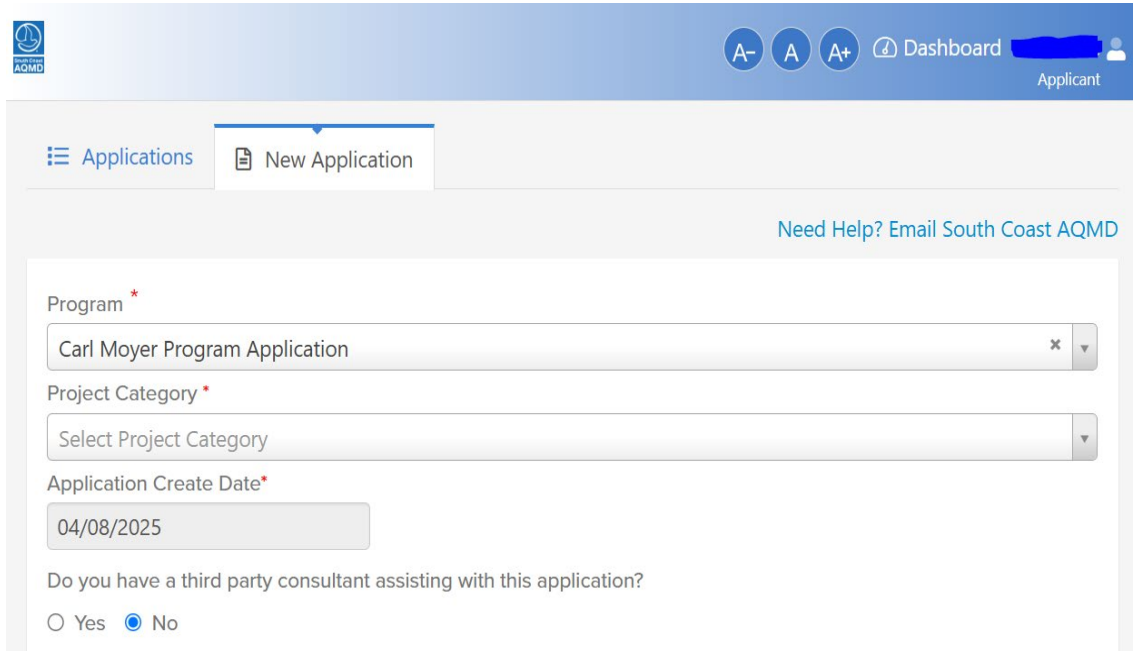
Background

- South Coast AQMD manages over 1,900 active projects under the Carl Moyer Program
- Consists of complex multi-year projects that requires tracking of various milestones and reporting as required by the Carl Moyer Program Guidelines
- In February 2024, the Board authorized $200,000 for the development of the Carl Moyer Program Grant Management System



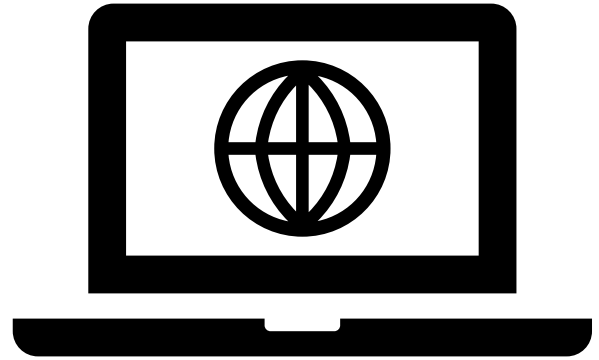
Background

- Completed Development
  - Application Submittal
  - Evaluation Platform
  - Inspection Module
- Additional software developments are needed to enhance the capabilities of the GMS



Proposal

- Additional modules are needed to integrate procurement and project reporting
- Staff recommends next phase development of the Carl Moyer Program Grant Management System with enhancements to include:
    - Contracting Module
    - Invoice Module
    - Annual Report Tracker



Benefits

Carl Moyer Program Grant Management System will improve transparency for program applicants/participants

Streamlines contracting and invoicing process to improve efficiency

Enables efficient tracking of key milestones and reporting requirements under the program.

Summary of Recommended Actions

Transfer and appropriate up to $135,000 from the administrative portion of the Carl Moyer Program Fund (32) into IM's FY 2024-25 and/or 2025-26 budget for the development and maintenance of the Carl Moyer Grant Management System

BOARD MEETING DATE: May 2, 2025 AGENDA NO.

PROPOSAL: Appropriate Funds, Execute Agreement for EV Hardware at South Coast AQMD Headquarters and Authorize Removal of Fixed Assets Inventory

SYNOPSIS: In August 2024, the Board approved the release of an RFP to replace the EV charging infrastructure at South Coast AQMD headquarters. In January 2025, the Board approved the execution of a contract with GreenWealth Energy Solutions, Inc. (GreenWealth) to install and maintain a new EV charger network at South Coast AQMD headquarters in an amount not to exceed $723,248 from the Technology Advancement Office's FY 2024-25 Budget. Additionally, GreenWealth proposed to source a carbon offsetting charger donation program with ChargePoint, Inc. that would allow South Coast AQMD to donate South Coast AQMD's existing EV hardware for 55 new charging stations at no additional cost. These actions are to: 1) authorize the appropriation of funds and execute the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024–2025 or FY 2025–2026 Budget; 2) execute an agreement with ChargePoint, Inc. to donate South Coast AQMD's existing old EV chargers in exchange for new EV chargers and release them to GreenWealth for installation; and 3) declare South Coast AQMD's existing old chargers nonoperational and approve the removal and donation of the chargers.

COMMITTEE: Technology, April 18, 2025; Recommended for Approval

RECOMMENDED ACTIONS:

1. Authorize the appropriation of funds and execute the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024–2025 or FY 2025–2026 Budget;
2. Authorize the Executive Officer to execute an agreement with ChargePoint, Inc. to donate South Coast AQMD's existing old EV chargers in exchange for new EV chargers and release the new EV chargers to GreenWealth for installation; and

3. Declare Asset IDs 4791 and 4922 as non-operational and authorize the removal of these items from the fixed assets inventory through donation.

Wayne Nastri
Executive Officer

AK:MW:VP:NS:BD

Background

South Coast AQMD headquarters' existing Level 2 charging stations were installed between 2011 and 2017 using DOE and CEC grants and the Clean Fuels Fund. These chargers are no longer covered by warranty, and many are nonfunctional and impractical to repair. In August 2024, South Coast AQMD released an RFP to replace the charging stations at South Coast AQMD headquarters. Consequently, in order to meet current and future EV charging needs for staff and the public, it is necessary to replace all 55 charging stations in this network. Replacing these stations will also enable the charging network to be monitored remotely and improve energy management capabilities.

In January 2025, the Governing Board approved GreenWealth Energy Solutions, Inc. (GreenWealth) for the EV hardware and software installation and maintenance at South Coast AQMD headquarters for up to $723,248 from the Technology Advancement Office's FY 2024–2025 Budget. As part of their cost proposal, they sourced a carbon-offsetting charger donation program, the FivePoint EV Charging Station Donation Program, which included ChargePoint Inc. as the hardware and software manufacturer. Newhall Land and Farming Company, LLC (dba FivePoint) administers the donation program. GreenWealth's original proposal includes a discount of $361,350 from the total project cost. This discount has been increased to $370,110, and will therefore slightly reduce the overall project cost by $8,760. The discount will only apply if South Coast AQMD donates its existing EV chargers.

Since 2017, the FivePoint EV Charging Station Donation Program has supported providing second life to charging stations for more than 35 projects in Los Angeles County. All entities selected to participate in this donation program are required to enter an agreement with ChargePoint to donate the entity's older charging stations in exchange for new ChargePoint charging stations. ChargePoint is currently the sole hardware and software manufacturer for this donation program.

Proposal

This action is to execute an agreement with ChargePoint to donate South Coast AQMD's existing old EV chargers in exchange for the new replacement EV chargers GreenWealth will install at South Coast AQMD headquarters. In addition, action is needed to allow execution of the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024–2025 or Y 2025–2026 Budget.

As included in GreenWealth's proposal approved by the Governing Board in January 2025, South Coast AQMD's existing EV hardware at headquarters will be replaced by 55 Level 2 charging stations.

Staff recommends that South Coast AQMD's old EV chargers below be surplused and removed from the fixed assets inventory.

Asset ID	Description	Cost	Date Purchased	Net Book Value
4791	EV Hardware and Control Sys	$ 304,617	02/24/2017	$ -
4922	EV Hardware Software	13,248	06/29/2018	3,533
Total Obsolete or Non-repairable Equipment		**$ 317,865**		**$ 3,533**

Benefits to South Coast AQMD

The headquarters charger network upgrade will provide a new, updated, reliable charging network to support the adoption of electric vehicles, showcase electric vehicle charging technologies, and improve the EV charging network accessibility, convenience, and affordability for EV drivers working at or visiting South Coast AQMD's headquarters.

Resource Impacts

In January 2025, the Board approved the execution of a contract with GreenWealth to install and maintain a new EV charger network at South Coast AQMD headquarters in an amount not to exceed $723,248 from the Technology Advancement Office's FY 2024–2025 Budget. Authorization is requested to allow the appropriation of funds and execution of the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024–2025 or FY 2025–2026 Budget. The agreement with ChargePoint will result in no additional resource impacts from the GreenWealth contract approved by the Governing Board in January 2025.

The total original cost of Asset IDs 4791 and 4922 in the amount of $317,865 will be accounted for, depreciated, and reported in the annual audited financial statements.

Agenda #3

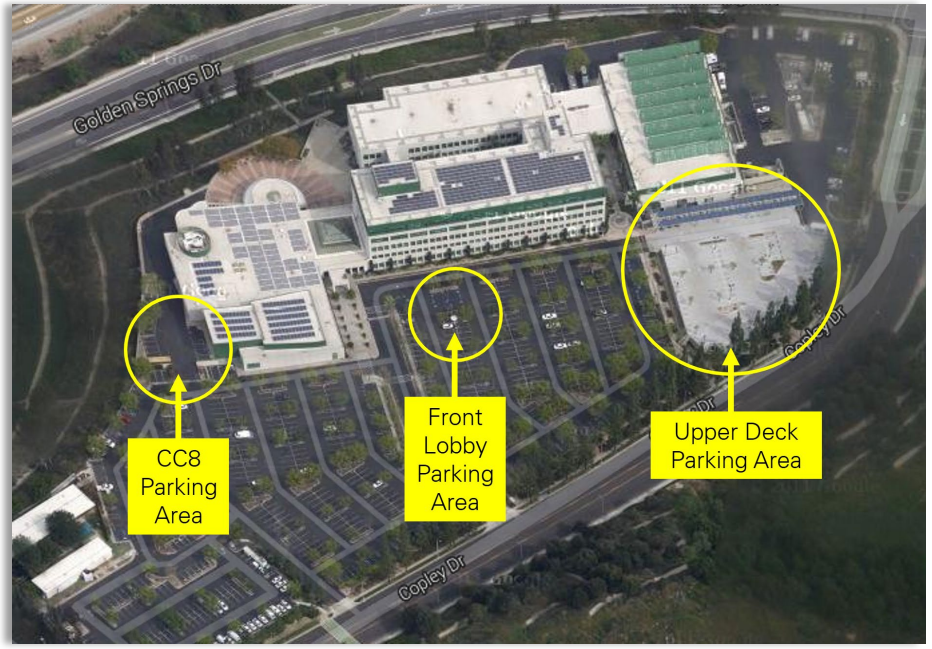
Back to Agenda

Appropriate Funds, Execute Agreement for EV Hardware at South Coast AQMD Headquarters and Authorize Removal of Fixed Assets Inventory

Vasileios Papapostolou

Background

- In January 2025, the Board approved working with GreenWealth Energy Solutions, Inc. to install EV chargers at South Coast AQMD Headquarters
- Existing EV chargers at HQ are no longer covered by warranty, many faulty and nonfunctional chargers are non-repairable



Proposal

FIVEPOINT
CONNECTING CALIFORNIA

chargepoint+

- GreenWealth sourced a charger donation program, called FivePoint EV Charging Station Donation Program:
  - Administered by Newhall Land and Farming Company, LLC (dba FivePoint)
  - Includes ChargePoint, Inc. as the hardware and software manufacturer
  - Agreement between site/equipment owner and hardware provider
- Enter into donation agreement with ChargePoint to donate existing old EV chargers and release new chargers to GreenWealth for installation

Summary of Recommended Actions

- Authorize the appropriation of funds and execute the previously approved contract with GreenWealth from the Technology Advancement Office's FY 2024-2025 or FY 2025-2026 Budget
- Authorize the Executive Officer to execute an agreement with ChargePoint, Inc. to donate South Coast AQMD's existing old EV chargers in exchange for new EV chargers and release the new EV chargers to GreenWealth for installation
- Declare Asset IDs 4791 and 4922 as non-operational and authorize the removal of these items from the fixed assets inventory through donation

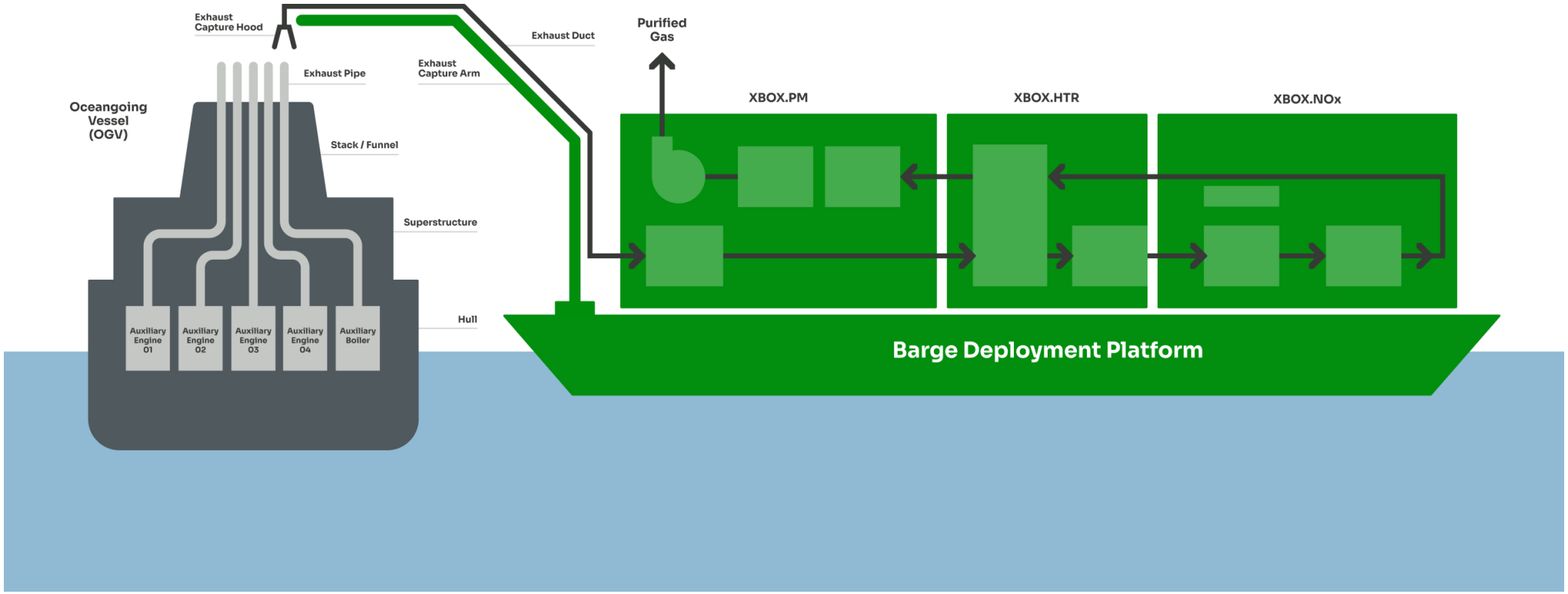
Back to Agenda

Agenda Item #4

STAX ENGINEERING

- In 2021 South Coast AQMD awarded STAX Engineering over $10 million to develop and demonstrate a capture and control system for tankers

HOW IT WORKS



- Spuds for anchoring the barge into position
- Selective Catalytic Reduction System (SCR)
- Diesel Particulate Filter (DPF)
- Reactive Organic Gas (ROG) elimination system

- 3 X 20-foot containers
- Over 90% control of NOX, PM2.5, DPM and ROG

STAX TODAY

- Five barges in operation in Ports of LA, LB, Hueneme, Richmond, and Oakland
- CARB Executive Orders (EO) applicable to container and auto carrier vessels
- Tanker EO is under consideration by CARB
- More than 100 employees on staff
- Serving over a dozen fleets and ports
- Treated more than 12,000 hours of vessel at-berth emissions

- Expand the technology
  - Methanol Fuel cell
  - Carbon Capture
- 11 barges by end of year - barges 6 through 8 nearing completion.
- Expanding to more ports in US and internationally

Thank You

STAX ENGINEERING

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