

Carl Moyer Grants Management: Online Application and Emissions Calculation Tool

Bay Area Air Quality Management District (BAAQMD) contracted with Trinity Technology Group to build an entirely new end-to-end solution with business rules and workflow management for online application submittal and evaluation. The new grants system accepts applications 24 hours a day and allows users to electronically store and retrieve packaged applications. The system also provides the grants staff with an emissions calculation tool that facilitates funding eligibility determinations, thereby expediting the application funding process for qualified grant proposals.

Key Benefits to the Client

- **Pre-Screening** – Applicants can be pre-screened and informed of Carl Moyer Program funding eligibility.
- **Automated Proposal Process** – Many of the operations needed to submit and review a proposal are present and easy to use.
- **Cost-Effectiveness Calculations** – The system runs cost-effectiveness calculations to assist staff make decisions reflecting Carl Moyer Program guidelines.
- **Generates Documents and Status Updates** – Staff can view, upload, and share various required grant documents. System alerts staff of changes in a status.
- **Facilitates Invoicing and Payment Tracking** – Staff are able to review, update, and attached payments and invoice information.
- **Maintenance of Security Roles and Projects** – Application allows the grants manager to assign projects and share events with selected staff.

Overview

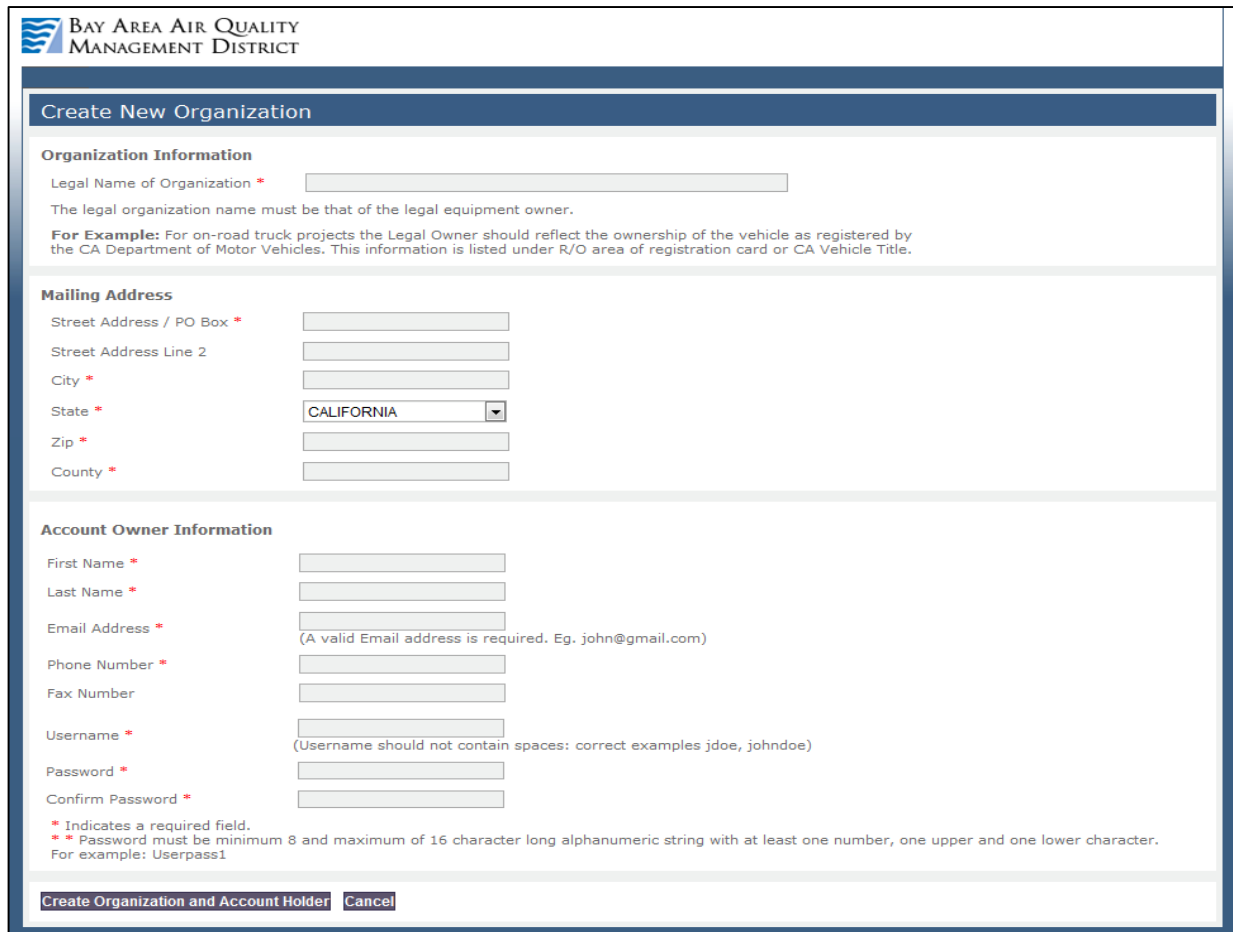
In partnership with the California Air Resources Board (ARB), local air districts throughout the state of California administer the Carl Moyer Program (CMP), a program that offers grants to owners of heavy and medium duty vehicles in the state. In San Francisco, the Bay Area Air Quality Management District (BAAQMD) manages the Carl Moyer Grants to help reduce air pollution emissions in the Bay Area.

Carl Moyer Program funds are offered on a first-come, first-served basis based on a grant staff's application completion determination. In 2010-2011, the Carl Moyer Program provided around 19 million dollars to Bay Area businesses, and BAAQMD implemented an Incentive Information System (IIS) to improve grant program administration for CMP in this, and upcoming, program years. BAAQMD's Strategic Incentives staff and grants applicants will use IIS in lieu of the paper application process.

TrinityTG worked closely with Bay Area Air Quality Management District to ascertain their requirements and create a sustainable solution. The resulting solution enhances user experiences in many ways, including:

Enhanced Application Process:

- The new system allows interested parties to create proposals. Organization users and authorized third parties can create a Carl Moyer Program application.
- Users can select project type, and can enter applicant and proposal information including equipment, engine, retrofit and/or cost information depending on proposal type.
- The system allows users to attach any documentation to be evaluated with the proposal application.



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Create New Organization

Organization Information

Legal Name of Organization *

The legal organization name must be that of the legal equipment owner.
For Example: For on-road truck projects the Legal Owner should reflect the ownership of the vehicle as registered by the CA Department of Motor Vehicles. This information is listed under R/O area of registration card or CA Vehicle Title.

Mailing Address

Street Address / PO Box *

Street Address Line 2

City *

State *

Zip *

County *

Account Owner Information

First Name *

Last Name *

Email Address *
(A valid Email address is required. Eg. john@gmail.com)

Phone Number *

Fax Number

Username *
(Username should not contain spaces: correct examples jdoe, johndoe)

Password *

Confirm Password *

* Indicates a required field.
 ** Password must be minimum 8 and maximum of 16 character long alphanumeric string with at least one number, one upper and one lower character.
 For example: Userpass1

Create Organization and Account Holder

Figure A. Screenshot captures the new user page for those organizations interested in creating proposals.

Proposal Validation and Submittal:

- The system validates the proposal in reflection of business rules.
- Applicants can locate and fill application gaps prior to submittal of application.
- Users can electronically sign and submit applications.
- Grants staff can review proposals for completeness, cost-effectiveness, guideline eligibility, surplus evaluation, and environmental justice criteria.

Calculates Cost-Effectiveness:

- Calculations can be reviewed, accepted and/or recalculated.
- The systems cost-effectiveness calculations and CMP guidelines inform staff decisions regarding cost.
- The system will track allocated funding, remaining funding, and actual current funds against current CMP year budget.

Home	Account Management	Accounting	Proposal
Proposal Number:	<u>15MOY26</u>	Proposal Status:	Denied
Proposal Type:	On Road	Proposal Sub Type:	New Vehicle
Organization:	Banwart & Son Trucking, Inc.	Organization Contact:	Mark Banwart (5982truck)
Email:	5982truck@comcast.net	Phone:	(510) 414-8663
Address Line 1:	3153 Keats St.	Address Line 2:	
City:	Fremont	County:	Alameda
Zip:	94536	State:	CALIFORNIA

Calculation	Engine Approval	Proposal Approval	Contract Approval	Invoice	Attachment	Notes	Inspection	Annual Reporting
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Cost Effectiveness

Equipments Summary					
Equipment	Project Cost	Regulation Subject To	Compliance Date	District Operation %	No of Engines
5982	\$ 0.00		06/23/1986	100	1

Engines Summary						
Equipment	Engine	Max Grant %	Grant Award	CE at DGA	Project Life	Status
5982	Main/Existing Engine		0.00	0		Submitted

Select Engine ID

Equipment Info	
Description	Value
Equipment Type	

Figure B. Calculations can be reviewed, accepted, and recalculated.

Facilitates Inspection and Audit Workflow and Air Resources Board (ARB) Reporting:

- Grants staff can download pre-populated inspection forms, upload completed inspection forms, and update inspection results.
- Grants staff selects Carl Moyer Project data to be exported and formatted into excel spreadsheets for ARB reporting purposes.

The solution incorporates more functions for ease of system management:

- The grants staff can designate when the system will and will not accept new applications for a program year.
- Account information can be accessed and modified by grants staff.

Input Parameters

Project Life (Years)	<input type="text"/>	Baseline ECF	<input type="text" value="0"/>
District Grant Amount (\$)	<input type="text"/>	Retrofit ECF	<input type="text" value="0"/>
Maximum Eligibility Percent Funding For New Engine(%)	<input type="text"/>	Unit Conversion Factor	<input type="text"/>
Maximum Eligibility Percent Funding For Retrofit Engine(%)	<input type="text"/>	Load Factor	<input type="text" value="0"/>
Capital Recovery Factor(CRF)	<input type="text"/>	Solicitation Year - Cost Effective Limit	<input type="text" value="Year 15 - \$17,460.00"/>

Baseline Emission Factor	Retrofit Device Emission %	Reduced Eng. Emission Factor
NOx <input type="text"/> (g/bhp-hr)	<input type="text"/> (%)	<input type="text"/> (g/bhp-hr)
ROG <input type="text"/> (g/bhp-hr)	<input type="text"/> (%)	<input type="text"/> (g/bhp-hr)
PM <input type="text"/> (g/bhp-hr)	<input type="text"/> (%)	<input type="text"/> (g/bhp-hr)

Calculate

Calculation Results

Annualized emissions

	Baseline Emissions (TPY)	Reduced Emissions (TPY)	Emission Reductions (TPY)	Percent Reduction (%)
NOx	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ROG	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PM10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
CO2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Summation

Incremental Cost (\$)	<input type="text"/>	Max Funding at Cost Effectiveness (\$)	<input type="text"/>	Max Funding Eligible (\$)	<input type="text"/>
Cost Effectiveness (\$/ton)	<input type="text"/>	Cost Effectiveness at District Grant Amount (\$/ton)	<input type="text"/>		

Accept Calculations **View Calculations**

Asterisk (*) indicates a required field.

Figure C. Input parameter values are either entered by the user or defaulted by the system based on a reference table.

Assists Contracts and Funding Workflow/Tracking:

- Grants staff or system can notify the applicant organization of contract approval.
- Grants staff can download a proposal contract that is pre-populated with required proposal details.
- Proposals can be uploaded to share them with other grants staff.
- Finalized contracts are scanned and attached to the proposal file.
- The system tracks contract activity and records the contract execution date through to project completion.

Trinity Technology Group Provides Innovative Solutions

At TrinityTG, we are in the business of solving the problems that arise with shifts in business strategies and operations. **No matter what information technology challenges you face, we can use those challenges as opportunities to find solutions that fit your current and future needs.** We can help to develop business, technical, and enterprise architectures to improve business processes and transactions. **Our Strategic Planning approach focuses on re-use and adaptation vs. re-building from scratch.** We perform process analysis with an eye to best leverage your current system. We design process maps to enable effective communication between business and technical users throughout the project life cycle. **At every phase, we use new technologies and techniques to maximize your investment in business systems.** To establish cohesive and effective interaction through the project life cycle, we produce formal plans for all of the following critical processes for every project: Communication, Risk Management, Change Management, Configuration Management, Implementation Management, and Project Management.

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We Listen.

We Produce.

And We Deliver Extraordinary Results.

Give us an opportunity to show you what we can do for you.

Our clients include:



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