

CARL QUICK TUTORIAL

V4.0

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*California Air
Resources Board*

Table of Content

Introduction	1
Basics of CARL.....	1
GETTING STARTED WITH CARL.....	1
LOGIN/LOGOUT AND CHANGE YOUR PASSWORD:	1
DATA ENTRY FLOW	3
Add and Edit Applicant and Project Information.....	4
CREATE NEW APPLICANT.....	4
CREATE NEW PROJECT.....	5
EDIT PROJECT	6
DROP PROJECT.....	6
Equipment and Engine Forms	6
ENTER EQUIPMENT AND ENGINE INFORMATION	6
NON-CALCULATION FORM	7
ON-ROAD VIP, TIMBER AND LAWN AND GARDEN FORMS.....	8
ADD EQUIPMENT TO EXISTING PROJECT	8
ACTIVE PROJECT	8
Calculations and Results	8
SAVE DISTRICT GRANT AMOUNT	9
SHOW CALCULATIONS	9
Administration Information	10
FIRST ADMINISTRATION PAGE	10
SECOND ADMINISTRATION PAGE:	11
Interest and Match In-Kind Forms.....	12
Report Utility	14
DISPLAY OR DOWNLOAD DATA.....	14
REQUIRED REPORTS	14
CUMULATIVE REPORT DETAILED INFORMATION (NOT REQUIRED):.....	16
QUERY TOOL	16
PROJECT REPORT	17
FUNDING AND ALLOCATION.....	18
Import and Export Data.....	19
Conclusion	19

Introduction

The Carl Moyer Program is a grant program that funds the incremental cost of cleaner-than-required engines, equipment, and other sources of air pollution. The program funds cost-effective projects that get early and/or extra emission reductions. The program is funded through a portion of the smog abatement fee included in the annual registration of newer vehicles and through a small fee on the sale of new tires. The program is statewide and administered by local air districts. It is governed by the Guidelines developed and adopted by the Air Resources Board (ARB) in consultation with the districts.

The Clean Air Reporting Log (CARL) is the on-line tracking tool for the Moyer program. CARL calculates emission reductions, cost-effectiveness, and the maximum grant amount. CARL stores the factors (emission rates, caps, conversion factors, load factors etc.), source category forms, and the calculation algorithms used to calculate emission reductions and cost-effectiveness. CARL is also the reporting tool districts use to meet their annual reporting requirements. The database provides multiple staff the ability to view, update and add project information real time.

The Moyer program was established in 1998, and the CARL database became a required reporting tool in 2008. **Please note that CARL does not determine eligibility. It is the district's responsibility to determine eligibility under the terms of the Guidelines, though CARL is often used to support that effort.**

Basics of CARL

Getting Started with CARL

You will need a User ID and Password to access CARL. To obtain a User ID and Password, or to reset your password, send a request to carlhelp@arb.ca.gov.

Important Web Links and On-Line Documents:

- CARL Training Web Site: <http://www.arb.ca.gov/app/cmp/training/index.php>
- CARL Production Web Site : <http://www.arb.ca.gov/app/cmp/index.php>

For training, including further work in this Tutorial, we suggest you log into the CARL Training website. All practice and test projects should be entered in the Training tool, while all real projects should be entered in the Production tool.

Login/Logout and Change Your Password:

Click on the above links to go to either the Training or Production website, shown in Figure 1. Enter your User ID and Password, they are both typically the first letter of your first name and your complete last name.

Figure 1: CARL log in page



A successful login will take you to the CARL Home Page, commonly referred to as the splash page, shown in Figure 2. The CARL splash page has useful links including a link to the Liaison and Source Category Experts contact information, Import and Export Guidance, and Reporting definitions. There are also quick links to the Carl Moyer Guidelines and the Moyer Administration forms.

Along the left margin of the CARL splash page is a gray bar with a series of links to different forms, reports and features. Once you log in you may change your password by clicking on the Change your Password link, circled in red in Figure 2. We recommend you choose a strong password with a mix of letters and numbers. For security purposes, always remember to log out after you are finished using CARL (Figure 2).

Figure 2: CARL Splash Page

[Cal/EPA Home](#)
[ARB Home](#)
[Carl Moyer Program Info](#)
[Local Air Districts](#)

 California Environmental Protection Agency
Air Resources Board

Training Database
Carl Moyer Program Clean Air Reporting Log (CARL v4.0.150204)

NAVIGATION

▶ User: district

▶ District: ARB Staff

▶ Active Project: none

USER HELP

[CARL Home](#)

[Contact CarlHelp](#)

[FAQs](#)

[Quick Tutorial](#)

APPLICANT

- [Add Applicant](#)
- [Edit / Drop Applicant](#)

PROJECT

- [Select Active Project](#)
- [Create Project](#)
- [Edit / Drop Project](#)

EQUIPMENT

- [Add Equipment](#)
 - [Add Voucher](#)
 - [Add TIMBER Project](#)
 - [Add Lawn and Garden](#)
- [Edit / Drop Equipment](#)

ADMINISTRATION

- [Update Project Admin Info](#)
- [Report Interest & In-Kind Match](#)

REPORTING

- [Report Utility](#)

IMPORT/EXPORT

- [Import Data](#)
- [Export Data](#)

ACCOUNT

- [Change Password](#)
- [LOGOUT](#)

Carl Moyer Program Clean Air Reporting Log (CARL)

The Carl Moyer Memorial Air Quality Standards Attainment Program ("Carl Moyer Program") enacted in Health and Safety Code (HSC) section 44275, et seq. is a grant program that funds the incremental cost of cleaner-than-required engines, equipment, and other sources of air pollution. The Carl Moyer Program complements California's regulatory program by providing incentives to obtain early or extra emission reductions, especially from emission sources in environmental justice communities and areas disproportionately impacted by air pollution.

The Carl Moyer Program Tracking System will calculate emission reductions, cost-effectiveness, and the maximum grant amount. Determining eligibility will still be the responsibility of district staff. In addition, districts will have the ability to update the status of current projects, view past projects and monitor project funding allocations. Use of this tracking system will be voluntary for Year eight projects and required in future years.



If you have questions about the tracking system, please contact carlhelp@arb.ca.gov.

Release Notes:

- [CARL Release Notes](#)

Import Guidance:

- [Import and Export User's Guide](#)
- [Import Templates](#)

Reporting Guidance:

- [CARL Required Report Definitions and Triggers](#)

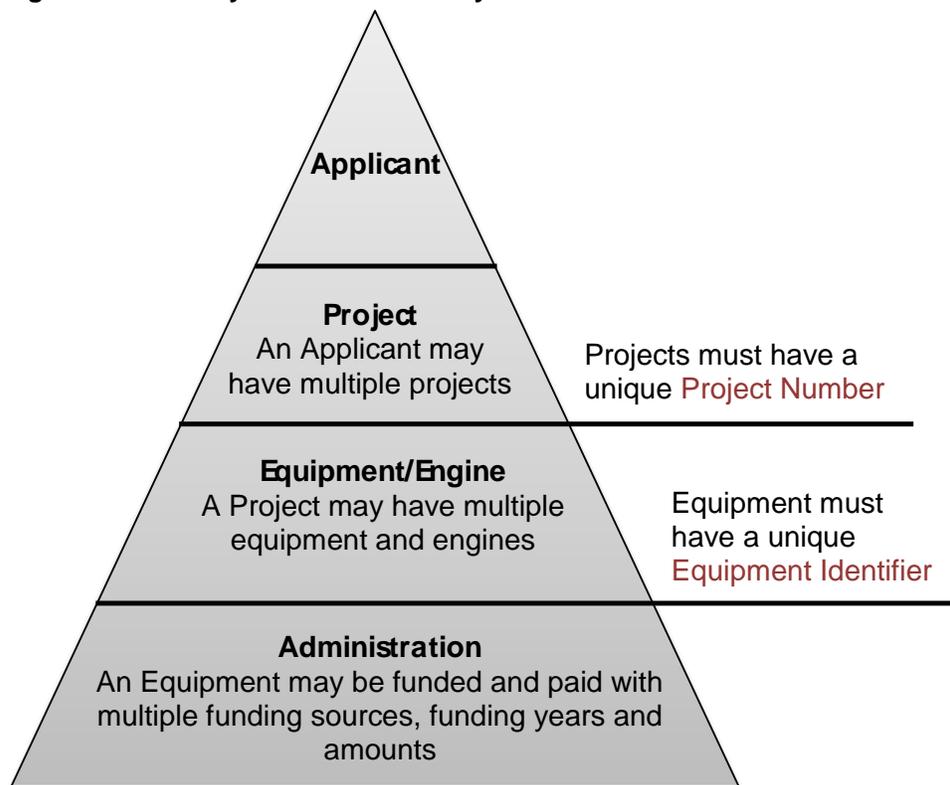
Other Resources:

The gray bar provides quick links to key tools such as the FAQ's, and CARL home, which will bring you back to the splash page. Information about the user and any active project ready for further entry is also provided at the top of the gray bar.

Data Entry Flow

The general data entry flow for CARL is illustrated in the pyramid shown in Figure 3 below. Users typically enter applicant information first, followed by the project data, equipment/engine data, and finally administration data. The equipment/engine forms are custom designed for the different source categories and they calculate the maximum grant amount, emission reductions and cost effectiveness. The non-calculation form is an exception as it does not do any calculations.

Figure 3: CARL Pyramid of Data Entry



The entry order (applicant, project, equipment, and administration) is the same for all projects you will enter, with a few exceptions. The exceptions, On-Road VIP, TIMBER, and Lawn and Garden, will be discussed further in the Equipment and Engine Forms section below.

Add and Edit Applicant and Project Information

Create New Applicant

You must first add applicant information by selecting the Add Applicant link on the gray bar. The Create a New Applicant form is illustrated in Figure 4. Note: If the applicant already exists in the database, skip ahead to add project data.

Figure 4: Create New Applicant

Create a New Applicant

* Indicates a required field

*Applicant Name:

*Street Address:

*City:

*State:

*Zip Code:

*Country:

*Primary Contact Name:

Primary Contact E-mail (Optional Field):

*Primary Contact Phone Number:

Person with Contract Signing Authority (if different from the Primary Contact):

*Person Who Filled Out Application for Funding (e.g. applicant, contractor, or other entity name):

You can edit or drop applicant information for a previously entered applicant by selecting Edit/Drop Applicant under the Applicant Functions from the gray bar. You can filter and search for specific applicants by name or city, as shown in Figure 5: Query Applicant screenshot. The ability to Drop an applicant is limited to applicants that do not have associated projects. If an applicant has a project assigned to it, the user will get a pop-up stating that the applicant cannot be dropped.

Figure 5: Query Applicants

Edit/Drop Applicant

Applicant Name :

Applicant City :

	Applicant Name	Street	City	State
Edit Drop	Joe Heger Farms	P.O. Box 860	El Centro	CA
Edit Drop	Joe Public	1765 Cortina School Road	Arbuckle	CA
Edit Drop	Joe Public	1001 I Street	Sacramento	CA

1 - 3 of 3 applicant sets

Create New Project

To add project information go to the Create Project link on the gray bar. A unique project number is required. When you select the guideline year from the pull-down there will be a list of possible guideline versions available. Note that the guideline version field will default to the most recent version.

Lastly, click on Select Applicant to navigate to the appropriate applicant. You can filter by applicant name, applicant city or simply select Query as shown in Figure 6: Create New Project below.

Figure 6: Create New Project

Project Title : Training - OffRoad Repower
Project Number : ARBtest001
Guideline Year : 2011
Guideline Version : (blank will default to the latest guideline release) 10/01/2014 - On Road Small Fleet Factor Updates
2011 GL - MegaMailout 2014
Applicant :
Continue >> Select Applicant

Tip: To sort a list alphabetically, simply click on the name of the column you want to sort. For example, to sort by city, click on City at the top of the column.

Edit Project

Although you can edit some project information using the Edit/Drop Project tool on the gray bar, you may not change the guideline year or guideline version of an existing project. Guideline versions may change emission factors, forms rudiments and calculation algorithms for equipment added to the project. If you need to update a project and equipment to a different guideline version without dropping and reentering the information, please contact carlhelp@arb.ca.gov for assistance.

Drop Project

When you drop a project, CARL will systematically drop all associated equipment, engines, and administration information reported for all equipment in the project. This is useful for on-road VIP and TIMBER projects where editing is limited by design. Users are not allowed to change calculation variables in the on-road VIP and TIMBER forms; however, users can drop and reenter the equipment using the drop project function.

Equipment and Engine Forms

Enter Equipment and Engine Information

When you press Continue on the Create New Project form you will be routed to a list of projects available in the Moyer program, as shown in Figure 7:

Figure 7: List of Source Category Forms

Guideline Year: 2011

1.1 Select Equipment Category:

- On-Road Heavy-Duty Vehicle
- Stationary and Portable Agricultural Engines
- Off-Road Construction Equipment
- Off-Road Mobile Agricultural Equipment
- Off-Road Cargo Handling Equipment
- Off-Road Airport Ground Support Equipment
- Off-Road Other Equipment
- Marine Vessel

1.2 Select Technology:

- New Purchase
- Repower (with Retrofit option)
- Retrofit only
- Replacement

OR

2 Select Other Project:

- Light-Duty Vehicle - Voluntary Accelerated Retirement
- Locomotive (only for ARB users)
- On-Road Heavy-Duty Vehicle - Fleet Modernization
- Non-Calculation Form

Source Categories:

There are numerous source category forms available in CARL. Below is a list of the different source categories funded by CARL.

- On-Road: Heavy duty diesel trucks.
- Off-Road: Agricultural, construction and other off-road equipment.
- Marine: Replacement of engines on marine vessels.
- Agricultural Pump: Replacement of agricultural engines.
- Scrap: Light duty vehicle replacement.
- Locomotive: Replacement of engines on locomotives.
- Shore Power: Alternate source of power for marine vessels at berth.
- Infrastructure: Electric and alternative fuel infrastructure.

Project Types:

Source categories can be further divided into one of five project types:

- Replacement: Replacement of the equipment and engine (i.e., cab, chassis)
- Repower: Replacement of an engine with a newer engine.
- Retrofit: Installation of a retrofit device (a diesel exhaust filter) on an engine.
- New Purchases: Purchase of new vehicles.
- Vehicle Retirement: Scrap of an old vehicle or equipment such as a car or lawnmower.

Non-Calculation Form

For case-by-case projects, locomotives, infrastructure or other project types that do not fit in one of the established calculation forms, the non-calculation form may be chosen from the options shown in Figure 7. The non-calculation form is

a catch-all form that allows data entry without checks. It is a very long form with many fields. The non-calculation form does not do any calculations or factor lookup. Because it is difficult for the user to know what fields need to be populated to meet reporting requirements for a source category (some fields are shared while others are exclusive to a category), please check with your liaison or CARL help staff when using the non-calculation form.

On-Road VIP, TIMBER and Lawn and Garden Forms

The On-Road VIP, TIMBER and Lawn and Garden projects have streamlined data entry forms. These forms include applicant, project, equipment and administration fields on a singleform. Fields within the forms are set up to populate key triggers automatically. The forms are accessed from the gray bar, via the Add Voucher, Add TIMBER and Add Lawn and Garden links shown under EQUIPMENT.

Add Equipment to Existing Project

To add additional equipment to an existing project, select Add Equipment under EQUIPMENT in the left-hand gray sidebar shown in Figure 8. You will need to browse to the project to which you want to add equipment.

Figure 8: Add Equipment Link



Active Project

You may make a project active with the Select Active Project link, under Project on the gray bar. This active project will now be indicated at the top of the gray bar, allowing you to go directly to the equipment and administration information within the project without having to browse to the project every time. You must Reset Active Project when you are ready to move on.

Calculations and Results

CARL will calculate emission reductions, cost-effectiveness, and the maximum grant amount. CARL does not determine eligibility, though it is a tool that can be used to help determine eligibility.

If you choose the Calculation Only button at the bottom of a form, CARL will show you the results without saving the data. In contrast, the Calculate & Save option saves the results and allows the user to update the maximum grant

amount with the District Grant Amount, as shown in Figure 9: Calculate and Save Results.

Figure 9: Calculate and Save Results

Project number: ARBtest001
Equipment identifier: Excavator-1

Based On 100 % Operation in California/Air District

	NOx	ROG	PM
Emission Factors (g/bhp-hr)			
Baseline (Load Factor: 0.38):	8.14	1.19	0.497
Reduced (Load Factor: 0.38):	2.32	0.12	0.112
Emissions (tons/yr)			
Baseline:	0.68	0.1	0.042
Reduced:	0.19	0.01	0.009
Emission Reductions (tons/yr)			
	0.49	0.09	0.032
Percent Reduction:			
	71%	90%	77%

Calculated results may not add up due to rounding.

Based on Maximum Grant Amount

Weighted Cost-Effectiveness (\$/ton): 2694.79

Maximum Grant Amount: **\$21250.00**

Project Life (years): 7

Discount Rate (%): 2

The maximum grant amount from the previous edit was \$21250

District Grant Amount currently saved: \$

District Grant Amount:

* In cases of co-funding, the CARL calculated maximum grant amount may not be accurate.
For more information see the Carl Moyer 2011 Guidelines Part I, Chapter 2, Sections L, M & N.

[Save District Grant Amount](#)

[Show Calculations](#)

Save District Grant Amount

Save District Grant Amount is an import step in the data entry process. CARL will recalculate the cost-effectiveness of the project based on the grant amount, and will limit the amount of funding and payments that can be assigned to the project moving forward. The District Grant Amount cannot be more than the CARL calculated Maximum Grant Amount. You must save the District Grant Amount to be able to move onto the next section and fund the equipment.

Show Calculations

The Show Calculations feature, seen in Figure 10, shows the user the calculations CARL performed to generate the emission reductions, cost-effectiveness and maximum grant amount. Information shown includes emission rates, load factors, conversion factors, cost percentages used for incremental cost, and the cost-effectiveness and capital recovery factor calculations that were used for the project.

Figure 10: CARL Calculations

Total emission reduction
= (baseline NOX - reduced NOX) + (baseline ROG - reduced ROG, if both ROG factors were found) + 20 * (baseline PM - reduced PM)
= (0.68192242735067 - 0.19435625543039) + (0.099691362818292 - 0.01005290982821) + 20 * (0.041635803208149 - 0.0093827163389961)
= 1.2222663622934 tons
Equipment set total reduction = 1.2222663622934 tons
Incremental cost
= (Engine Cost Percentage/100%) * (engine cost)
= (85%/100%) * (\$25000)
= \$21250
Capital recovery factor
= (1 + discount_rate) ^ project_life * discount_rate / ((1 + discount_rate) ^ project_life - 1)
= (1.02 ^ 7 * 0.02 / (1.02 ^ 7) - 1)
= 0.1545119561031
= 0.155 after rounding to three decimal places.
Cost effectiveness
= capital_recovery_factor * incremental_cost / total_reduction

Administration Information

For most project types the next step is entry of administration information. Administration information has to be entered for an equipment to appear in reports and count toward expenditure progress. As mentioned above, administrative information for voucher, TIMBER, and lawn-and-garden projects is entered directly into those forms rather than through the administration pages described below.

First Administration Page

Funding of projects and equipment requires an executed contract date. The user must enter a Fully-executed Contract Date or Commitment Date on the first administration page, shown in Figure 11. Note the pull-down at the bottom left that allows you to select specific equipment within a project if there is more than one.

Although the fields related to environmental justice and nonattainment areas are not required, users should populate them to help demonstrate progress toward meeting statutory requirements for communities disproportionately affected by air pollution.

Figure 11: First Administration Page

Project Administration

Environmental Justice Project: Yes No

Is this project in a federal non-attainment area? Yes No

Date Application Received:
(MM/DD/YYYY)

*Commitment Date:
(Funds approved by the district Board or by a district APCO or other delegated authority) (MM/DD/YYYY)

and/or

*Fully-executed Contract Date:
(MM/DD/YYYY)

Contract term expires: *(End of project life)*
(MM/DD/YYYY)

Project Grant Amount: **\$21250.00**
Project Funding Amount: **\$0.00**

Comments: (Up to 4000 characters)

To enter Funding and Payment Information, select Equipment Identifier and click "Submit":

Excavator-1 Equipment Identifier

Second Administration Page:

Users record funding and payment information on the second administration page. You must designate a funding source, funding amount and funding year for the project to appear in any of the reports available in the report utility. This is also where you report the **post-inspection** date and toggle on the **paid-in-full** field necessary to expend and liquidate the project. The three sections available on the second administration page, shown in Figure 12, represent funding, payment and withholding information:

- Funding Information represents funds reserved for an equipment. The user must report the amount of funds, the funding source(s) and funding year(s) assigned to an equipment for reporting purposes. An equipment with multiple funding sources or years is called “split funded.” The funding amount entered here cannot exceed the Grant Amount entered on the first admin page and shown on the second.
- Payment Information is the amount paid on the equipment. Again, the user must designate the amount, source and year of funds, but in this case the payment must have a date. As with funding, the user may enter multiple payments. The paid amount for each funding source and year cannot exceed the funding amount entered above it.
- Withholding Information is a place holder for districts to report funds withheld from a project. Sometimes districts withhold funds until the end

of the contract term. This is the place to report those funds and include a comment. Withheld funds are included in the liquidated amount.

Figure 12: Second Administration Page

Funding, Payments, and Withholds

Equipment Grant Amount: 21250.00
Equipment Identifier: Excavator-1
Post-Inspection Conducted: 02/17/2015 (MM/DD/YYYY)

Funding Information

1. District: ARB Staff Funding Year: 14
Funding Source: Moyer Funding Amount: \$18000

2. District: ARB Staff Funding Year: 13
Funding Source: Moyer interest Funding Amount: \$500

Total Amount Funded: \$18500.00

Payment Information

1. District: ARB Staff Amount Paid: \$18000
Payment (date): 02/18/2015 (MM/DD/YYYY) Funding Year: 14
Funding Source: Moyer

2. District: ARB Staff Amount Paid: \$500
Payment (date): 02/18/2015 (MM/DD/YYYY) Funding Year: 13
Funding Source: Moyer interest

Total Amount Paid: \$18500.00

Paid In Full: Yes No

Withholding Information

Total Amount Withheld: \$

Comments: (Up to 4000 characters)

Interest and Match In-Kind Forms

To report interest and match in-kind, select the Report Interest and In-Kind Match function located under Administration in the gray bar. Users are walked through the steps to report Interest and Match In-Kind as discussed in the Guidelines.

Figure 13 shows the form to report Interest and Figure 14 shows the form to report Match in Kind.

Figure 13: Report Interest

Interest and Match In-Kind Reporting Form

Select Data:

<u>District:</u> ARB Staff	<u>Update Allocation Table:</u> Report Carl Moyer Interest	<u>Fiscal Year When Interest Earned:</u> 2013 to 2014
-------------------------------	---	--

- Interest reported in the 2014 Yearly Report
will be added to the District's Year 17 Target -

Update Year 17 Data:

<u>Project Funds:</u> \$20000.00	<u>*Administration Funds:</u> \$0.00	<u>Total Carl Moyer Interest Earned:</u> \$20000.00
-------------------------------------	---	--

Comments: (Up to 4000 characters)

Figure 14: Report Match In-Kind

Interest and Match In-Kind Reporting Form

Select Data:

<u>District:</u> ARB Staff	<u>Update Allocation Table:</u> In-Kind Contribution	<u>Funding Year:</u> 17
-------------------------------	---	----------------------------

Update Data:

<u>Match Project Commitment:</u> \$0	<u>*In-Kind Contribution:</u> \$0.00	<u>Total Match Requirement:</u> \$ 0.00
---	---	--

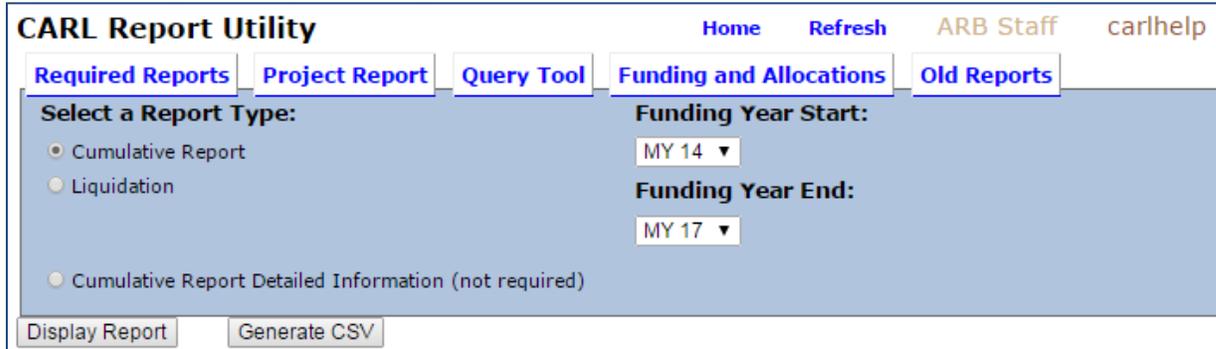
Comments: (Up to 4000 characters)

* The in-kind contribution may not exceed 15% of a district's match requirement.

Report Utility

The Report Utility provides a series of report and query tools that allows the user to view and summarize data in CARL. You access the Report Utility from the left-hand gray bar. The tabs across the top include the Required Reports, Project Reports, Query Tool, and Funding and Allocations, illustrated in Figure 15 below.

Figure 15: Report Utility Front Page



Display or Download Data

You may display the report in CARL or download it to view in Microsoft Excel. To download the data use the Generate CSV button at the bottom of the form that can be seen in Figure 15.

Required Reports

The Required Reports are designed to meet yearly reporting and progress tracking requirements and include the Cumulative Report and the Liquidation Report. These Required Reports use milestone dates, triggers, and funding and payment information to determine the status of projects to be included in report outputs. For a detailed description of the data summarized in the Required Reports, see the “Definitions and Triggers for CARL Cumulative and Liquidation Reports” document posted on the CARL splash page.

The Required Reports default the funding start and end years to what is required for the current reporting cycle. These default years are updated annually, though the user has some flexibility to adjust them. There are 3 tables in the Required Report shown in Figure 16:

- Table 1: Summary Table provides the sum of executed, expended and liquidated funds by funding year and funding source, as well as the targets by fund source and year.
- Table 2: Progress Tracking shows calculated progress towards key fiscal program milestones.
- Table 3: Project Information Table lists project level information. This table sums the funding and payment amounts and concatenates the

funding years and sources to display the data by project, rather than by equipment. To see detailed equipment and administration information select the Cumulative Report Detailed Information (not required) toggle, shown in Figure 15 and described below.

Figure 16: Cumulative Report Tables

CARL Moyer Memorial Air Quality Standards Attainment Program DISTRICT YEARLY REPORT Cumulative Tracking Report ARB Staff Year 2015											
Table 1: Summary Table											
District	Funding Source	Year	TARGET	Executed Funds	Expended Funds	Liquidated Funds	Total Funds (Executed + Expended + Liquidated)	Difference (Total Funds - Target)			
ARB Staff	Moyer	14	\$180,000.00	\$1,577,576.81	\$2,567,421.87	\$2,782,462.38	\$6,927,461.06	\$6,747,461.06			
ARB Staff	Match	14	\$0.00	\$71,859.19	\$0.00	\$28,068.89	\$99,928.08	\$99,928.08			
ARB Staff	RAP	14	\$0.00	\$0.00	\$0.00	\$58,788.80	\$58,788.80	\$58,788.80			
ARB Staff	Multi-District	14	\$0.00	\$0.00	\$0.00	\$947,445.00	\$947,445.00	\$947,445.00			
ARB Staff	Moyer Interest	14	\$2,687.42	\$304.58	\$0.00	\$215,114.63	\$215,419.21	\$212,731.79			
ARB Staff	Moyer	15	\$0.00	\$215,974.50	\$0.00	\$533,952.00	\$749,926.50	\$749,926.50			
ARB Staff	Match	15	\$38,448.00	\$65,000.00	\$0.00	\$581,498.60	\$646,498.60	\$608,050.60			
ARB Staff	RAP	15	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	\$20,000.00			
ARB Staff	Multi-District	15	\$60,000.00	\$225,000.00	\$0.00	\$107,690.00	\$332,690.00	\$272,690.00			
ARB Staff	Moyer Interest	15	\$1,289.37	\$273.72	\$0.00	\$3,323.56	\$3,597.28	\$2,307.91			
ARB Staff	Moyer	16	\$180,000.00	\$115,296.93	\$104,245.00	\$458,932.52	\$678,474.45	\$498,474.45			
ARB Staff	Match	16	\$41,017.00	\$65,000.00	\$0.00	\$0.20	\$65,000.20	\$23,983.20			
ARB Staff	Multi-District	16	\$120,000.00	\$60,000.00	\$0.00	\$0.00	\$60,000.00	(\$60,000.00)			
ARB Staff	Moyer Interest	16	\$2,456.23	\$2,000.00	\$0.00	\$134,351.21	\$136,351.21	\$133,894.98			
ARB Staff	Match	17	-	\$65,000.00	\$0.00	\$0.00	\$65,000.00	\$65,000.00			
ARB Staff	Moyer Interest	17	-	\$0.00	\$0.00	\$287,787.77	\$287,787.77	\$287,787.77			
Total			\$625,898.02	\$2,463,285.73	\$2,671,666.87	\$6,159,415.56	\$11,294,368.16				
Table 2: Progress Tracking											
Progress To Date											
Executed Funds Progress *				376.34%							
Year 16 Executed Funds Balance **				\$596,352.63							
Expended Funds Balance ***				\$8,548,657.64							
Funds Subject to Return ****				none							
<p>* Year 16 and later funds that are Executed, Expended or Liquidated divided by the Year 16 Target, expressed as a percentage.</p> <p>** Sum of the Year 16 funds (Executed, Expended or Liquidated) minus the sum of the Year 16 Targets.</p> <p>*** Expended and Liquidated funds (Years 14 and later), minus the Expenditure Target (Years 14 and 15). Does not include Executed funds. Positive balance indicates expenditure requirements met; negative balance indicates a shortfall.</p> <p>**** Expended, Liquidated, and Executed funds (Years 14 and later), minus Expenditure Target (Years 14 and 15). Years 14 and 15 unexpended funds not under contract, shown as a negative number in parentheses, are subject to return by August 29, 2015.</p>											
Table 3: Project Information (Funding Years 14 - 17)											
District	Project Title	Project Number	Equipment Category	Funded Engines	Emission Reductions Units(tons/yr)			Funding Year	Funding Source	Project Amount	Status
					NOX	ROG	PM				
ARB Staff	Reiter Bros	13-34	Off-Road Equipment - Mobile Agricultural	1	0.34	0.08	0.022	16	Moyer	\$13,071.00	Executed
ARB Staff	Sea Wolf II	255	Marine Vessels	2	1.43	0	0.059	14	Moyer	\$122,150.00	Executed
ARB Staff	Y14-MountainTop-	13199	Off-Road Equipment -	1	5.35	0.7	0.267	14	Moyer	\$934,977.00	Executed

Cumulative Report Detailed Information (not required):

The Cumulative Report Detailed Information output provides a breakdown of project information by equipment and administration details. This report shows payments and funding entries by equipment.

Query Tool

The Query Tool allows you to see all the funded equipment in the database. Some equipment are omitted from the required reports such as equipment funded with non-match or with pre-Year 13 interest; these equipment are visible in the Query tool. The Query tool also shows the contract execution date, post-inspection date, paid-in-full status and the project status of executed, expended and liquidated equipment. The query tool does not show the paid or withheld amounts, but displays funding amounts. Users are able to filter the data based on several variables such as funding year and source category, as illustrated in Figure 17: Query Tool Filters.

Figure 17: Query Tool Filters

The screenshot shows the 'CARL Report Utility' interface with the 'Query Tool' tab selected. The interface includes navigation links (Home, Refresh, ARB Staff, carlhelp) and a menu with options: Required Reports, Project Report, Query Tool, Funding and Allocations, and Old Reports. The filter section contains:

- Funding Year Start:** MY 13 (dropdown)
- Funding Year End:** MY 15 (dropdown)
- Funding Source(s):** A list with 'All' and 'None' buttons, and a scrollable list containing: Moyer, Pooled Rural District Funds, Multi-District, Moyer Interest, and \$2 DMV Moyer-Match.
- Source Category(ies):** A list with 'All' and 'None' buttons, and a scrollable list containing: Auxilliary Power Unit, Car Scrap (VAVR), Infrastructure, Lawn and Garden Equipment, and Locomotives.

At the bottom, there are buttons for 'Display Report' and 'Generate CSV'.

The Query Tool shows the itemized equipment funding amounts by funding source, year and amount, whereas the Required Reports sums it up by project. As a result, equipment that are split funded (funded with more than one funding year or source) are listed multiple times in the query tool; an example is shown in Figure 18: Query Tool Output. That means their emission reductions and number of engines are also listed multiple times. The user must resolve duplication to sum emissions or engine totals.

Figure 18: Query Tool Output

use without checking with CARL Help.

Project				Equipment						Emission Reductions Based on Operation in (CA)			Milestone Date		
Title	Number	Report Status	Guideline Year	Identifier	Type	Source Category	Technology	Funded Engines	Project Life	Paid In Full	NOx (tons/yr)	ROG (tons/yr)	PM (tons/yr)	Commitment	Contract Execution
Training - Offroad Repower	ARBtest001	Liquidated	2011	Excavator-1	EX	Off-Road Equipment - Construction	Repower	1	7	Y	0.4876	0.0896	0.0323	02/16/2015	02/16/2015
Training - Offroad Repower	ARBtest001	Liquidated	2011	Excavator-1	EX	Off-Road Equipment - Construction	Repower	1	7	Y	0.4876	0.0896	0.0323	02/16/2015	02/16/2015
Yr13-DanaWharfSportfishing-Mar	12190	Liquidated	2011	1FUPCSEB1YDB06565	HH	On-Road Voucher Incentive Program	Voucher	1	3	Y	0.7000	0.0130	0.0000	10/07/2011	01/27/2012
Total											1.6751	0.1923	0.0645		

Project Report

The Project Report provides a summary of a specific project. To get a project report, use the Project Report tab and select your project from the drop-down, as displayed in the Figure 19: Select Project Report. The report outputs a PDF file of key project, equipment and engine information, including details like horsepower, engine model year and emission factors, as shown in Figure 20: Project Report Output.

Figure 19: Select Project Report

CARL Report Utility [Home](#) [Refresh](#) [ARB Staff](#) [carlhelp](#)

[Required Reports](#) | **[Project Report](#)** | [Query Tool](#) | [Funding and Allocations](#) | [Old Reports](#)

Select a Project:

- wa14test04 - wa13test02
- wa14test_Timber02 - wa14test_Timber02
- wa15_timber_01 - wa15_timber_01
- wa_timber_01 - wa_timber_01
- 11395 - Y12-B&D EQUIP RENT-OffRd-Rpr
- 11556 - Y12-SOON-Rentrac-OffRdRep
- 12103 - Y13-SUKUT-OffRd - New
- 12173 - Y13-County of LA Sheriff Dept-EmergencyVeh
- 12190 - Yr13-DanaWharfSportfishing-Mar
- 12269 - Yr13-HarborBreeze-Marine
- 12MOY136 - 12MOY136 - Marine Repower Project
- 13MOY10 - 13MOY10 - Off-Road ERP
- ARBtest001 - Training - Offroad Repower
- J4839483 - Test project 35
- example ag pump - example ag pump
- project_report_timbertest01 - project_report_timbertest01

Font style: Minimum Font: Paper size: Paper Orientation:

Figure 20: Project Report Output

Ag Pump Repower to Electric	
Description	Equipment #1
Project type:	Stationary/Portable Agricultural Equipment Repower
Equipment type:	Stationary Agricultural Irrigation Pump
Equipment Baseline/Reduced:	reduced
Equipment Number:	1
Identifier:	01-002-2006
Number of Equipment:	1
Percent Operation in Eastern Kern APCD:	100%
Percent Operation in CA:	100%
Project Life:	5 years
Engine Location or Type:	Main Engine
Baseline Engine Model Year:	1985
Baseline Engine fuel:	Diesel
Annual hours operated:	1500
Baseline Engine (make, model):	John Deere / Deere & Co.
Baseline Engine Horsepower Rating:	233
Baseline Engine Load Factor:	0.65
Baseline NOx Emission Factor:	10.23 g/bhp-hr
Baseline ROG Emission Factor:	1.01 g/bhp-hr
Baseline PM Emission Factor:	0.396 g/bhp-hr
*Baseline NOx emissions (tons/yr):	2.562
*Baseline ROG emissions (tons/yr):	0.253
*Baseline PM emissions (tons/yr):	0.099
Reduced Engine Model Year:	2006
Reduced Engine fuel:	Electric

Funding and Allocation

Funding and Allocations will give information about a district's allocations. When you report interest and in-kind contributions it will also become visible in this report. The report provides a breakdown by funding year, funding source and displays the project amount, administration amount in separate columns. Figure 21 shows the report filters and Figure 22 shows the report outputs.

Figure 21: Funding and Allocation Report

CARL Report Utility [Home](#) [Refresh](#) [ARB Staff](#) [carlhelp](#)

[Required Reports](#)
[Project Report](#)
[Query Tool](#)
[Funding and Allocations](#)
[Old Reports](#)

Funding Year Start: MY 13 ▼ **Allocation Source:** All None
Funding Year End: MY 15 ▼ Moyer Multi-District RAP Match Moyer Interest ▼

Figure 22: Funding and Allocation Report

District	Funding Year	Funding Source	Project Allocation	Administrative Funds	In-Kind Contribution	Totals
ARB Staff	13	Moyer	\$180,000.00	\$20,000.00	\$0.00	\$200,000.00
ARB Staff	13	Moyer Interest	\$1,000.00	\$20.00	\$0.00	\$1,020.00
ARB Staff	13	Match	\$79,814.29	\$0.00	\$14,084.71	\$93,899.00
ARB Staff	14	Moyer	\$180,000.00	\$20,000.00	\$0.00	\$200,000.00
ARB Staff	14	Moyer Interest	\$15,000.00	\$5,000.00	\$0.00	\$20,000.00
ARB Staff	15	Moyer	\$60,000.00	\$9,000.00	\$0.00	\$69,000.00
Totals			\$515,814.29	\$54,020.00	\$14,084.71	\$583,919.00

Import and Export Data

For information on the Import and Export function, please see the Import Guidance on the CARL splash page.

Conclusion

Districts have been reporting via the CARL database since 2008 with great success. The database is supported by a team of staff that are available for help and training. If you have any questions or suggestions, please do not hesitate to contact the CARL team at carlhelp@arb.ca.gov.