



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

**Carl Moyer Memorial Air Quality
Standards Attainment Program**

*Marine Project
Fact Sheet*



The Bay Area Air Quality Management District (Air District) is accepting applications for the Carl Moyer Memorial Air Quality Standards Attainment Program (CMP) beginning **June 25, 2018**.

CMP Marine Project Quick-Reference Guide

<p>Eligible marine projects</p>	<ul style="list-style-type: none"> – Engine Repower: Replace an in-use engine with a new, lower emission engine – Remanufacture Kit: Install engine remanufacture kit that reduces the engine’s emissions – Hybrid System: Install an EPA-verified hybrid system – Retrofit: Install a CARB-verified diesel emission control strategy device on a case-by-case basis – Ship-side Shore Power: Retrofit a marine vessel to enable shore power connection or shore-side electrification infrastructure, on a case-by-case basis. – Marine Vessel Exhaust Capture and Control System: Install an EPA-verified marine vessel exhaust capture and control system, on a case-by-case basis – Shore power and exhaust capture projects must be able to demonstrate surplus to the implementation requirements of CARB’s marine port-related regulations
<p>Eligible marine engines and vessels</p>	<ul style="list-style-type: none"> – Propulsion or auxiliary engines must be 25 horsepower or greater & diesel-fueled – All new replacement engines must be certified to meet the EPA Tier 3 or Tier 4 marine engine emission standards or cleaner. – New equipment must provide at least a 15% reduction in NOx (nitrogen oxides) emissions. – Vessels are required to install and maintain a functioning hour meter – New equipment must be installed and operational at least three years prior to its compliance deadline. – Non-recreational vessels including, barge, crew, supply, dredge, excursion (tour), ferries, tugboats, towboats, commercial or charter fishing, pilot, and work boats that are currently in compliance with the CHC regulation.
<p>Attach to application</p>	<ul style="list-style-type: none"> – Submit proof of fleet compliance, insurance, records documenting historical usage from the previous two continuous years, equipment cost estimates (quotes) and other required documentation (described on application website).
<p>Cost-effectiveness</p>	<ul style="list-style-type: none"> – The grant amount for each project is calculated based on a cost-effectiveness formula. All projects must meet a minimum of \$30,000 per weighted ton of NOx, ROG and PM10 reduced to be eligible. For advanced technology that is zero-emission or alternatively meets the cleanest optional level of emissions reductions, a formula of \$100,000 per weighted ton reduced may be used.
<p>Complete an application</p>	<ul style="list-style-type: none"> – Apply online at www.baaqmd.gov/moyer

		Baseline Technology	Replacement Technology (repower or reman kit)	Maximum Percentage (CMP)	Maximum Percentage for Community Health Protection Grant Projects	
Maximum reimbursement of eligible costs for CMP funding	Vessels subject to CHC Regulation schedules to meet Tier 2 or Tier 3 standards (e.g., barge, crew, supply, dredge, excursion, ferry, towboat, tugboat)	Tier 0 or Tier 1	Tier 3	50%	60%	
			Tier 4	85%	95%	
		Tier 2	Tier 3	80%	90%	
			Tier 4	85%	95%	
	Vessels not subject to CHC Regulation schedules (ex: fishing, pilot, workboat)	Tier 0, Tier 1, or Tier 2	Tier 3	80%	90%	
			Tier 4	85%	95%	
	Installation of an EPA-verified hybrid system				85%	95%
	Shore Power – ship side				100% of the retrofit cost and 50% of the transformer cost Case-by-Case Basis	100% of the retrofit cost and 65% of the transformer cost Case-by-Case Basis
	Any vessel propulsion engine repowers with an off-road Tier 3 or cleaner certified engine				Case-by-case Basis	Case-by-case Basis
	EPA-verified marine retrofit device				Case-by-case Basis	Case-by-case Basis
Purchase of an EPA verified marine vessel exhaust capture and control system				Case-by-Case Basis	Case-by-Case Basis	
Area of activity	<p>Vessels must operate within CA Coastal Water Boundaries and the Air District’s jurisdiction, including the counties of Alameda, Contra Costa, Marin, San Mateo, San Francisco, Santa Clara, Napa, and southern portions of Solano and Sonoma. The Air District’s water boundaries range south of Bodega Bay through San Mateo County and include internal waters. For a map of CA Coastal Waters see Chapter 7, Page 5 of the CMP guidelines, at: https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_chapter_7.pdf (opens a PDF)</p> <p>The following counties are part of the Air District’s jurisdiction: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara and southern portions of Solano and</p>					

	<p>Sonoma. CMP-funded equipment must operate within the Air District’s jurisdictional boundaries. Priority is given to projects that reduce emissions in the following impacted communities: 1) Concord, 2) Richmond/San Pablo, 3) Western Alameda County, 4) San Jose, 5) Livermore, 6) Eastern San Francisco, 7) San Rafael, 8) Vallejo, and 9) Antioch/Pittsburg. Jurisdiction and priority community maps are available at: www.baaqmd.gov/moyer.</p> <p>Under the Community Health Protection Grant Program, higher grants are available for the replacement of diesel-fueled equipment with zero-emissions (or cleanest available) equipment operating in economically disadvantaged areas in the following corridors:</p> <ul style="list-style-type: none"> • The 880/80 Corridor – Hayward to Richmond, including East and West Oakland, Berkeley and Richmond; and/ or • The Refinery Corridor – Rodeo, Vallejo, outside Martinez to Pittsburg. <p>More information about this funding priority is available at www.baaqmd.gov/AB617grants. Air District staff will determine whether applications meet Community Health Protection Grant Program and Carl Moyer Program requirements.</p>
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Before starting your application:

- Read this Fact Sheet completely
- Understand any applicable state fleet or harbor craft regulations that may apply to your fleet. Information about the CA Air Resources Board (CARB) Commercial Harbor Craft Regulation (CHC) is available at: <http://www.arb.ca.gov/ports/marinevess/harborcraft.htm>.
- Collect the information about your equipment and engines, and compile the supplemental documentation needed for your application.
- Contact your engine or equipment dealer to discuss possibilities for your equipment.
- Review Chapter 7 - Marine Vessels of the CARB 2017 CMP Guidelines at: <https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm>
- Contact Yu Zhang Liu at (415) 749-8430 or yliu@baaqmd.gov with any questions.

CARB Commercial Harbor Craft Regulation Information
 Webpage: <http://www.arb.ca.gov/ports/marinevess/harborcraft.htm>

CARB Commercial Harbor Craft Regulation																							
Contact for Harbor Craft Regulation Questions	Zhenlei Wang – Phone: (916) 322-1049 / E-mail: zwang@arb.ca.gov Website: http://www.arb.ca.gov/ports/marinevess/harborcraft.htm																						
Regulation compliance schedule for engine replacement <i>Must meet EPA Tier 2 or Tier 3 emission standards or cleanest available</i>	Compliance Dates for Engines on <u>Ferries, Excursion Vessels, Tugboats, Towboats, and Push Boats</u> located outside the South Coast AQMD and Engines on <u>Crew and Supply Vessels</u> Statewide <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Engine Model Year</th> <th>Total Annual Hours of Operation</th> <th>Compliance Date</th> </tr> </thead> <tbody> <tr> <td>2000 or older</td> <td>≥ 300</td> <td>Must currently meet Tier 2 emission standards or cleaner</td> </tr> <tr> <td>2003</td> <td>≥ 300</td> <td>12/31/2018</td> </tr> <tr> <td>2004</td> <td>≥ 300</td> <td>12/31/2019</td> </tr> <tr> <td>2005</td> <td>≥ 300</td> <td>12/31/2020</td> </tr> <tr> <td>2006</td> <td>≥ 300</td> <td>12/31/2021</td> </tr> <tr> <td>2007</td> <td>≥ 300</td> <td>12/31/2022</td> </tr> </tbody> </table>		Engine Model Year	Total Annual Hours of Operation	Compliance Date	2000 or older	≥ 300	Must currently meet Tier 2 emission standards or cleaner	2003	≥ 300	12/31/2018	2004	≥ 300	12/31/2019	2005	≥ 300	12/31/2020	2006	≥ 300	12/31/2021	2007	≥ 300	12/31/2022
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