

In-Use Off-Road Diesel Vehicle Regulation

Carl Moyer Program Implementation Charts

This document is for informational purposes only.
ARB/Districts will determine project eligibility.

The information provided below is for informational purposes only. ARB will make eligibility determinations for multi-district projects and local air districts will make eligibility determinations for those projects funded with Carl Moyer funds allocated to their district. Eligibility determinations will be based on applicable Guidelines, statute and advisories, which are available at <http://www.arb.ca.gov/msprog/moyer/moyer.htm>.

The information below describes possible funding options for vehicles subject to the ARB's In-Use Off-Road Diesel Vehicle Regulation (Off-Road Regulation). Eligibility is directly impacted by pollutant(s) to be claimed by the project and timing of the project. Emission factors, baseline costs and project life are provided for each option described.

For potential projects in which NO_x, ROG and PM are claimed additional charts are provided to help ARB and Districts ensure that the reductions are at least three years early to the compliance deadline as required by Guidelines. Instructions for reading those charts are below.

Instructions for Reading the Fleet Rule Carl Moyer Program Implementation Charts

The charts provided throughout this document are to be used as tools when determining eligibility for projects claiming surplus NO_x, ROG and/or PM from vehicles subject to the Off-Road Regulation. ARB/Districts will determine project eligibility.

If there are at least three years prior to the first compliance milestone (left of the three solid lines ||| in charts):

1. The vehicle is eligible for the incremental cost assuming it meets all other project criteria as described in the Carl Moyer Program Guidelines and advisories.
2. The project life would be based on the number of years before the first compliance deadline
3. Applicants do not have to show compliance of the vehicle group unless requesting a longer project life

If there are less than three years prior to the first compliance milestone (right of the three solid lines ||| in charts):

1. An applicant can only receive funding once
2. An applicant must apply for funding at least three years prior to the final compliance deadline
3. Vehicles which have at least three years of project life prior to the compliance deadline are eligible for the incremental cost up to the appropriate cost effectiveness limit (green cells in charts)
4. Remaining vehicles within the group subject to the regulation with less than three years prior to the compliance deadline are not eligible for funding and must be brought into compliance by the applicant before the Carl Moyer funded project is reimbursed by the district (yellow cells in charts).

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5. Work can begin on the Carl Moyer funded projects once the funds have been obligated.

Example:

If an applicant is subject to the chart below and was applying for funding eligibility would be determined as follows:

Vehicles Eligible for Funding	2008	2009	2010	2011	2012
100% of Group					
80% of Group					
40% of Group	4	3			

- A) Projects installed and in operation by 12/31/08:
1. Applicant can only apply for funding if they have not received funding for this group of vehicles since 1/1/07.
 2. Districts can fund the PM, NOx & ROG portion of up to 40% of the vehicle group (green cells).
 3. The vehicles will have a 4 year project life
 4. The applicant must agree by contract to show compliance of the remaining 60% of the vehicle group before receiving payment by the district (yellow cells). At post inspection documentation for this compliance must be provide to the district.
- B) Projects installed and in operation by 12/31/09:
1. Applicant can only apply for funding if they have not received funding for this group of vehicles since 1/1/07.
 2. Districts can fund the PM, NOx & ROG portion of up to 40% of the vehicle group (green cells).
 3. The vehicles will have a 3 year project life.
 4. The applicant must agree by contract to show compliance of the remaining 60% of the vehicle group before receiving payment by the district (yellow cells). At post inspection documentation for this compliance must be provide to the district.

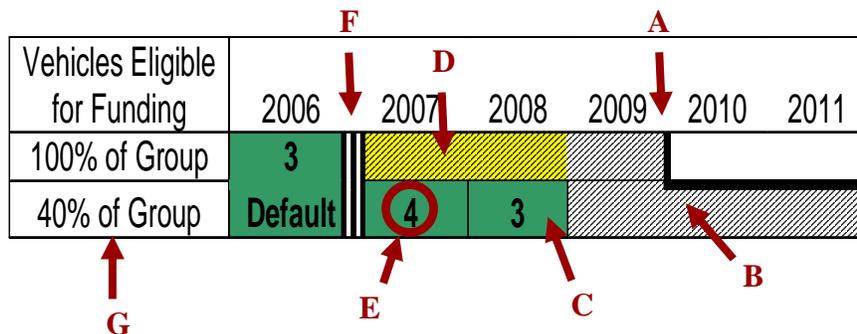
If the projects are installed and in operation any time after 1/1/10 then they are not eligible.

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Key:

	=Potential Carl Moyer Funding for PM, NOx & ROG
	=3 years of Moyer Eligibility
	=Portion to be Paid by Applicant
—	=Compliance Deadline
	= Point at which applicants can only receive funding once and is triggered three years prior to the first compliance deadline. The applicant must demonstrate that equipment with less than three years prior to the compliance deadline is in compliance and in operation before payment can be made for the Carl Moyer funded project.
Number in Cell	= Maximum project life applicable if installed and in operation by 2/28 of that year. D = default project life as specified in criteria.

SAMPLE ELIGIBILITY CHART



- A = Compliance Deadline**
- B = 3 Years of Moyer Eligibility**
- C = Potential Funding**
- D = Portion to be paid by applicant**
- E = Project Life as of 12/31**
- F = One more opportunity line**
- G = % of Group/Fleet Eligible for Funding**

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In-Use Off-Road Diesel Vehicle Projects

- *Rule impacts any person, business or government agency who owns or operates within California any diesel-fueled or alternative diesel fueled off-road compression ignition engine 25 horsepower or greater that is used to provide motive power in a workover rig or to provide motive power in any other motor vehicle that (1) cannot be registered and driven safely on-road or was not designed to be driven on-road and (2) is not an implement of husbandry or recreational off-highway vehicle.*
- *Rule requires reporting to ARB starting April 1, 2009 for large fleets, June 1, 2009 for medium fleets and August 1, 2009 for small fleets. Fleet owners must maintain copies of reporting records on-site and make available to ARB upon request within five business days. Owners must demonstrate compliance to ARB and submit reports annually and ARB will issue a Certificate of Reported Compliance.*
- *For the purpose of determining eligibility for Carl Moyer funding, compliance (phased in BACT) for the in-use off-road regulation will be determined by reviewing all engines owned for BACT fleet wide.*
- *Regulatory information can be found at:
<http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm>*
- *Questions regarding compliance can be directed to the diesel vehicle information hot line at (866) 6-DIESEL or (866) 634-3735.*
- *Statements of compliance or copies of compliance reports must be obtained from applicants*

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Large Fleets

Regulatory Requirements

Percentage of Total HP in Fleet to Use Best Available Control Technology for NOx	Percentage of Total HP in Fleet to Use Best Available Control Technology for PM	Compliance Deadline
8	20	March 1, 2010
8	20	March 1, 2011
8	20	March 1, 2012
8	20	March 1, 2013
8	20	March 1, 2014
8	--	March 1, 2015
10	--	March 1, 2016
10	--	March 1, 2017
10	--	March 1, 2018
10	--	March 1, 2019
10	--	March 1, 2020

Potential Funding

- Funding opportunities for NOx remain for large fleets through 3/1/18.
- Funding opportunities for PM remain for large fleets through 3/1/11.
- Large fleets are only eligible to receive funds once after 7/26/07.

Equipment eligible for NOx funding	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
100% of HP											
92% of HP	3										
84% of HP	4	3									
76% of HP	5	4	3								
68% of HP	D	5	4	3							
60% of HP	D	D	5	4	3						
52% of HP	D	D	D	5	4	3					
42% of HP	D	D	D	D	5	4	3				
32% of HP	D	D	D	D	D	5	4	3			
22% of HP	D	D	D	D	D	D	5	4	3		
12% of HP	D	D	D	D	D	D	D	5	4	3	
2% of HP	D	D	D	D	D	D	D	D	5	4	3

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Equipment eligible for PM funding	2008	2009	2010	2011	2012	2013	2014
100% of HP							
80 % of HP	3						
60% of HP	4	3					
40% of HP	5	4	3				
20% of HP	D	5	4	3			

- Additional funding may be available for large fleets that have met the NOx requirements, but not the PM requirements, of the regulation three years early. These projects must use the funding criteria in the table below.

	Credit allowed ONLY for:		
	NOx	PM	ROG
Repowers <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of a repower project • Project life = see maximum project life for NOx funding table for large fleets, maximum of 7 years 	X		X
Equipment replacement (2008 Guidelines only) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of an equipment replacement project • Project life = see maximum project life for NOx funding table for large fleets, maximum can be found in the 2008 Carl Moyer Program Guidelines 	X		X

* Appendix B of the 2005 and 2008 Carl Moyer Program Guidelines.

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- Additional funding may be available for large fleets that meet the “Captive Attainment Area Fleet” definition of the Off-Road Rule. These projects must use the funding criteria in the table below.

	Credit allowed ONLY for:		
	NOx	PM	ROG
Retrofits (PM + NOx) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the cost of a retrofit • Project life = up to 5 years 	X		
Repowers <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of a repower project • Project life = up to 7 years 	X		X
Equipment replacement (2008 Guidelines only) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of an equipment replacement project • Project life = see 2008 Carl Moyer Program Guidelines 	X		X

* Appendix B of the 2005 and 2008 Carl Moyer Program Guidelines.

Medium Fleets

Regulatory Requirements

Percentage of Total HP in Fleet to Use Best Available Control Technology for NOx	Percentage of Total HP in Fleet to Use Best Available Control Technology for PM	Compliance Deadline
8	20	March 1, 2013
8	20	March 1, 2014
8	20	March 1, 2015
10	20	March 1, 2016
10	20	March 1, 2017
10	--	March 1, 2018
10	--	March 1, 2019
10	--	March 1, 2020
10	--	March 1, 2021
10	--	March 1, 2022

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Potential Funding

- Funding opportunities for NOx remain for medium fleets through 3/1/21.
- Funding opportunities for PM remain for medium fleets through 3/1/14.
- Medium fleets are only eligible to receive funds once after 3/1/10.

Equipment eligible for NOx funding	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020										
100% of HP	5	4	3																				
92% of HP	D	5	4											3									
84% of HP	D	D	5											4	3								
76% of HP	D	D	D											5	4	3							
66% of HP	D	D	D											D	5	4	3						
56% of HP	D	D	D											D	D	5	4	3					
46% of HP	D	D	D											D	D	D	5	4	3				
36% of HP	D	D	D											D	D	D	D	5	4	3			
26% of HP	D	D	D											D	D	D	D	D	5	4	3		
16% of HP	D	D	D											D	D	D	D	D	D	5	4	3	
6% of HP	D	D	D											D	D	D	D	D	D	D	5	4	3
2% of HP	D	D	D											D	D	D	D	D	D	D	D	5	4

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Equipment eligible for PM funding	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
100% of HP	5	4	3							
80 % of HP	D	5	4	3						
60% of HP	D	D	5	4	3					
40% of HP	D	D	D	5	4	3				
20% of HP	D	D	D	D	5	4	3			

- Additional funding may be available for medium fleets that have met the NOx requirements, but not the PM requirements, of the regulation three years early. These projects must use the funding criteria in the table below.

	Credit allowed ONLY for:		
	NOx	PM	ROG
Repowers <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of a repower project • Project life = see maximum project life for NOx funding table for medium fleets, maximum of 7 years 	X		X
Equipment replacement (2008 Guidelines only) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of an equipment replacement project • Project life = see maximum project life for NOx funding table for medium fleets, maximum can be found in the 2008 Carl Moyer Program Guidelines 	X		X

* Appendix B of the 2005 and 2008 Carl Moyer Program Guidelines.

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- Additional funding may be available for medium fleets that meet the “Captive Attainment Area Fleet” definition of the Off-Road Rule for projects that will be installed and in operation after 2/28/2012. These projects must use the funding criteria in the table below.

	Credit allowed ONLY for:		
	NOx	PM	ROG
Retrofits (PM + NOx) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the cost of a retrofit • Project life = up to 5 years 	X		
Repowers <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of a repower project • Project life = up to 7 years 	X		X
Equipment replacement (2008 Guidelines only) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of an equipment replacement project • Project life = see 2008 Carl Moyer Program Guidelines 	X		X

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Small Fleets

Regulatory Requirements

Percentage of Total HP in Fleet to Use Best Available Control Technology for NOx	Percentage of Total HP in Fleet to Use Best Available Control Technology for PM	Compliance Deadline
No requirements	20	March 1, 2015
	20	March 1, 2016
	20	March 1, 2017
	20	March 1, 2018
	20	March 1, 2019

Potential Funding

- Funding opportunities for PM remain for small fleets through 3/1/16.
- Small fleets are only eligible to receive funds for PM reductions once after 3/1/12.

Equipment eligible for PM funding	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
100% of HP	D	D	5	4	3							
80 % of HP	D	D	D	5	4							
60% of HP	D	D	D	D	5							
40% of HP	D	D	D	D	D							
20% of HP	D	D	D	D	D							

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- Funding of NOx reductions for small fleets remain indefinitely. Funding of NOx projects that will be installed and in operation after February 28, 2012 must use the funding criteria in the table below.

	Credit allowed ONLY for:		
	NOx	PM	ROG
Retrofits (PM + NOx) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the cost of a retrofit • Project life = up to 5 years 	X		
Repowers <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of a repower project • Project life = up to 7 years 	X		X
Equipment replacement (2008 Guidelines only) <ul style="list-style-type: none"> • Baseline emission factors = Table B-12* • Incremental cost = ½ the eligible cost of an equipment replacement project • Project life = see 2008 Carl Moyer Program Guidelines 	X		X

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