Bay Area Air Quality Management District Carl Moyer Program On-Road Project Example Calculations and Successful Projects 33000 GVWR and Over

Table 1 Repower & Retrofit Project Example Calculations

		Notes:
Data Needed	Input/Results	 Note that these years have the same emission
		factors in this weight category. See Table 3
Project Type	Repower & Retrofit	below.
Baseline Engine MY	1991-1993 (1)	2. Includes repower engine, labor and Level 3
GVWR	33,000 +	device.
Annual Miles	40,000	3. Assume Repower Engine MY is 2003-2006 with
% in BAAQMD	80%	all the other factors the same - Max Possible
Repower Engine MY	1998-2002 (1)	Grant Award: \$45,500.
Retrofit Device	Level 3 PM/ NOx	4. Assume Baseline Engine MY is 1994-1997 with
Rebuild Costs	\$5,000	all the other factors the same – would qualify for
Total Project Costs	\$70,000 (2)	fewer dollars.
Max Possible Grant Award	\$33,900 (3)(4)(5)	5. The best case scenario (considering the
		pending ARB On-Road fleet rule) would be a
		2007 engine with a retrofit device already on the
		engine, assuming \$70,000 cost. Possible grant award amount: \$65,000.
		awaru amount. \$00,000.

Table 2 Repower & Retrofit Project Example Calculations

Data Needed	Input/Results	
Project Type	Repower & Retrofit	Notes:
Baseline Engine MY	1998-2002 (1)	Note that these years have the same emission
GVWR	33,000 +	factors in this weight category. See Table 3 below.
Annual Miles	40,000	
% in BAAQMD	80%	Assumes engine already has device in it.
Repower Engine MY	2007	3. Note that without the device, the project life is 7
Retrofit Device	n/a (2)	years. A project with a retrofit device has a 5
Rebuild Costs	\$5,000	year project life. These additional years allow
Total Project Costs	\$70,000 (3)	for more time to collect the emission reductions,
Max Possible Grant Award	\$57,000	and therefore more dollars can be granted.

Table 3

Diesel Vehicles 33,000+ GVWR	
Engine Model Years with the same	
emissions factors	
Pre-1987	
1987 – 1990	
1991 – 1993	
1994 – 1997	
1998 – 2002	
2003 – 2006	
2007 – 2009	
2010+	

Notes: For demonstrative purposes only. These calculations are not a guarantee of eligibility, cost-effectiveness or funding. These calculations do not take into account if the applicant is in compliance with a regulation. If the vehicle is subject to a regulation but still eligible for funding, the project life would be shorter and the funding level may also be lower.

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Bay Area Air Quality Management District Carl Moyer Program On-Road Project Example Calculations and Successful Projects 33000 GVWR and Over

Successful On-Road Projects

Table 4 Repower & Retrofit Project

Table 4 Repower a Retional Toject		
Data Needed	Input/Results	
Project Type	Repower & Retrofit	
Baseline Engine MY	1990	
GVWR	33,000 +	
Annual Miles	50,000	
% in BAAQMD	100%	
Repower Engine MY	1999	
Retrofit Device	Level 3 NOx/PM	
Rebuild Costs	\$6,000	
Total Project Costs	\$70,000	
Grant Award	\$59,000	

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Data Needed	Input/Results	
Project Type	Retrofit	
Baseline Engine MY	1997	
GVWR	33,000 +	
Annual Miles	35,000	
% in BAAQMD	100%	
Repower Engine MY	n/a	
Retrofit Device	Level 3 PM	
Rebuild Costs	n/a	
Total Project Costs	\$20,000	
Grant Award	\$8,000 (1)	

Note:

1. Would have qualified for \$20,000 – this project not completed

Table 6 New Vehicle Purchase

Data Needed	Input/Results
Project Type	New Vehicle Purchase
Baseline Engine MY	2007-2009
GVWR	33,000 +
Annual Miles	Fuel: 16,000 gallons
% in BAAQMD	100%
Repower Engine MY	n/a
Retrofit Device	n/a
Baseline costs	\$120,000
Project Costs	\$140,000
Grant Award	\$15,600 (1)

Note:

 Project Costs are for a specialized truck with a cleaner-than-required LNG engine. Applicant would have been eligible for \$20,000, but applied for fewer dollars.

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