



Surplus Off-Road Opt-In For NOx (SOON)

South Coast Air Quality Management District

SOON Overview

Purpose of the SOON Program

- To achieve **additional** reductions of **NO_x** emissions from in-use off-road diesel fleets in California
- Requires earlier (or surplus) NO_x reductions than would otherwise be achieved through the Off-Road Regulation (2449)

Cost Effectiveness is Based on NO_x Reduction Benefit ONLY

- \$33,000/ton for projects that bring engines to current standards
- \$522,000/ton for zero-emissions or alternatively meet the cleanest optional standard level certified

Regulation For In-Use Off-Road Diesel-Fueled Fleets

CCR, Title 13, Division 3, Chapter 9, Article 4.8

Base Rule/SOON	Section	Description	Highlights
“Base Rule” Off-Road Regulation	2449	General Provisions	<ul style="list-style-type: none"> • Reduction of NOx <u>and</u> PM • Date driven declining “Target Rates” for fleets
	2449.1	Performance Requirements	
SOON	2449.2	<u>Surplus</u> Off-Road Opt-in for NOx	<ul style="list-style-type: none"> • Reduction of <u>NOx ONLY</u> • Accelerated Emission Reduction / Earlier Target Rates



Applicability

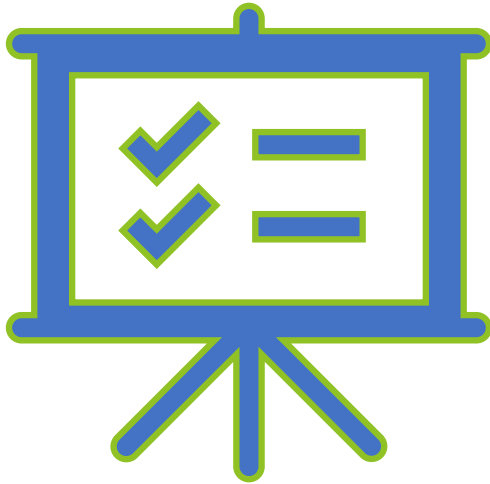
Must Apply for SOON Funding, If the Fleet:

- Operates within the air district;
- Consists of > 40% Tier 0 and Tier 1 Vehicles (as of 2008); and
- Has a statewide fleet size >20,000 hp
 - Excludes hp from engines in two-engine vehicles and hp from single engine cranes formerly subject to the Cargo Handling Equipment Regulation
- Other fleet sizes may apply on a voluntary basis

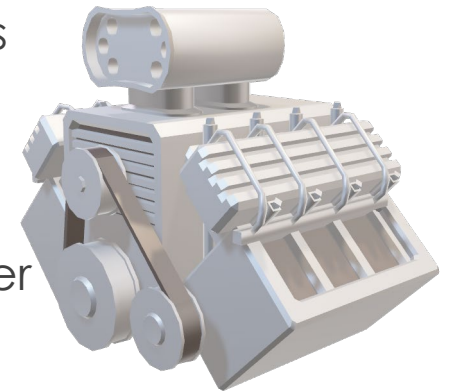


Applicability (Cont'd)

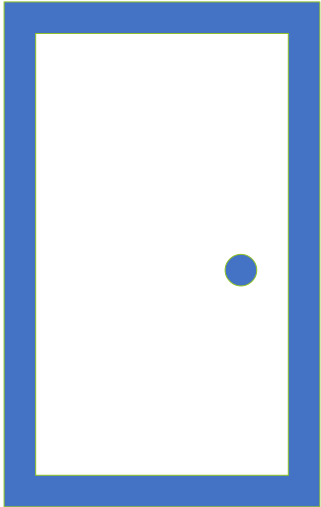
Exclusions and Limitations



- ▶ Flexible Engines – Engines certified to the standards in Title 13, CCR, Section 2423 (d)
 - ▶ Excludes replacement projects involving the purchase of new flexible engines
 - ▶ Repower projects involving flexible engines must be evaluated based on the immediately preceding, applicable, Tier 3 emission standard
 - ▶ Usually labeled by the engine manufacturer
- ▶ Forklifts that are eligible for SOON funding must be Class 7 (LSI)



SOON Compliance Plan



- ▶ Demonstrate compliance with CARB Off-Road Regulation throughout the contract period must be provided
 - ▶ SOON Compliance Plan Signature Page (www.aqmd.gov/soon)
 - ▶ SOON Compliance Calculator **OR** ARB Fleet Calculator
 - ▶ DOORS Compliance Snapshot (ARB)
 - ▶ DOORS Fleet Listing (ARB)

SOON Compliance Plan (Cont'd)

- ▶ **Fleet Average Index (FAI) > SOON Target Rate (STR)**
- ▶ At a minimum, forecast annual fleet NOx reduction actions, for the next upcoming SOON NOx target date (2023)
- ▶ Cannot take credit for SOON project emission reductions until the end of the project term
 - ▶ Cannot use this lower emission rate to calculate the fleet average index and target rate, and BACT Credit

		Fleet Average Averages																	
		Baseline	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fleet Average																			
Fleet Average TARGET		NA	NA	NA	NA	NA	NA	NA	NA										
SOON Fleet Average																			
SOON Fleet Avg. TARGET		NA	NA	NA	NA	NA	NA	NA	NA										
Tier Summary																			
Tier Summary		Baseline	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
% of Fleet																			
Tier 0																			
Tier 1																			
Tier 2																			
Tier 3																			
Tier 4I																			
Tier 4																			
Average Model Year																			
Average Model Year		Baseline	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Average Age		NA																	
Engines Added		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Engines Retired		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Engines Replaced		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOON Engines Replaced		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engines Retrofitted-NOx		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engines Retrofitted-PM		NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turnover by Number																			
Turnover by Number		Baseline	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018	2020	2021	2022	2023
State Rule Turnover		NA																	
SOON Turnover		NA	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Turnover by Horsepower																			
Turnover by Horsepower		Baseline	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
State Rule Turnover		NA																	
SOON Turnover		NA	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Must meet cost-effectiveness limit and be operational no later than May 20, 2023



APPLICATION DEADLINE

TUESDAY May 9, 2023
at 11:59PM

APPLY ONLINE:

South Coast AQMD Grant Management System at
www.gms.aqmd.gov

Contact Information



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Please direct general questions to:

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