

Use of Metrics in Air Resources Board Incentive Programs

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Air Resources Board



ARB Incentives Portfolio

- Multiple programs
 - Carl Moyer Program
 - Goods Movement Emission Reduction Program
 - AB 118 Air Quality Improvement Program (AQIP)
 - Low Carbon Transportation and Fuels Investments
 - Lower Emission School Bus Program
- Multiple goals and priorities
- Different metrics applicable to each program

Moyer Program

- Supports projects that achieve early or extra NO_x, ROG, PM reductions
- Cost effectiveness is driving metric
 - \$18,260/ton (2016)
- SB 513 (2015) granted new flexibility
 - Requires major guideline revisions by July 1, 2017
 - Allows annual adjustments to cost effectiveness limits
 - Expands co-funding and leveraging opportunities; allows funding for infrastructure

Moyer Program: Leveraging and Infrastructure

- New flexibility to co-fund projects with other local, state, federal incentives
- New opportunities for funding infrastructure
 - No statutory cost effectiveness limit
 - ZEV charging stations, commercial and residential are being considered
 - Alternative fuel stations: hydrogen, CNG, LNG, RNG
 - Agricultural pumps
 - Marine shore power

AQIP and Low Carbon Transportation and Fuels Investments

- AQIP
 - Supports turnover of older, high-polluting truck fleet and development and commercialization of advanced technologies
 - AB 8 (2014) refined project evaluation criteria
 - Benefit-cost score
 - Six additional preference criteria
- Low Carbon Transportation and Fuels
 - Funded from Cap-and-Trade Auction Proceeds
 - Transition freight and passenger vehicles to near-zero and zero-emission technologies
 - Key Priorities
 - Greenhouse gas reductions
 - Disadvantaged community benefits

Metrics Overview

- Emissions reductions methodology
 - Calculations based on factors including vehicle model year, fuel economy, usage, project life, incentive amounts, etc.
- Qualitative factors
 - Project goals
 - Technology advancement
 - Consumers, communities, awareness
- Additional criteria
 - Regional air quality, promoting clean technologies, support of market transformation, ability to leverage private funds

Light-Duty Long-Term Plan

- Support achievement of self sustaining market by incentivizing early adopters
- Key ZEV market sustainability indicators based on market penetration
 - Indicators include: New ZEV sales, technology advancement such as battery range, incremental costs, product diversity, infrastructure development, consumer ZEV awareness, etc.
- Transition incentives (ramp down) as market grows
 - Target different demographics