



35 MILLION CALIFORNIANS LIVE WITH UNHEALTHY AIR.

Heavy-duty diesel trucks are the backbone of California’s thriving goods movement economy, but they produce NOx and diesel particulate matter emissions that can cause significant health issues—including asthma, cancer, heart disease, and premature death. California’s disadvantaged communities are disproportionately impacted by diesel emissions.



In order for California to achieve healthy air immediately, it is critical to widely utilize commercially available and cost-effective solutions.

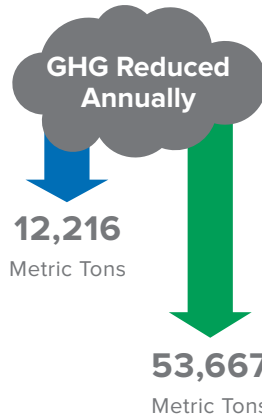
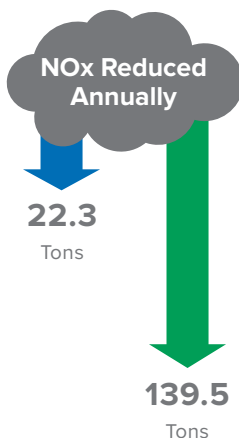
Because clean vehicles costs and availability vary greatly depending on technology type, manufacturer, and model, a portfolio of near-zero and zero-emission vehicle technologies must all play important roles in California’s clean transportation future. The two graphs below show what a hypothetical government investment could achieve when using one of California’s most popular funding programs (HVIP).

WHAT COULD \$100 MILLION IN FUNDING BUY?

Number of trucks funded



**6x
more**
than battery-
electric trucks



**4x
more**
than battery-
electric trucks

Natural gas trucks and battery-electric trucks have comparable lifecycle emissions. But when factoring in the technology cost difference, natural gas trucks can provide considerably greater air quality and climate benefits.

WHY ARE COST-EFFECTIVE, IMMEDIATE EMISSIONS REDUCTIONS SO CRITICAL FOR CALIFORNIA?



Beyond the immediate health impacts, California is not on track to meet federally mandated air quality standards.

Regions of California only have until the end of 2022 to significantly cut smog-forming ozone emissions in order to be compliant. Failure to meet federal mandates can trigger fines and penalties, including withholding billions of dollars of federal highway funds.

California does not have the means to publicly fund the replacement of all 987,817 registered medium- and heavy-duty diesel vehicles in the state.

It will require a combination of incentives, regulations, and other innovative strategies to help transform California's heavy-duty vehicle fleet. It is critical to maximize cost-effective emission reductions in the near-term while reducing the cost of early stage advanced technologies in the long-term.

