



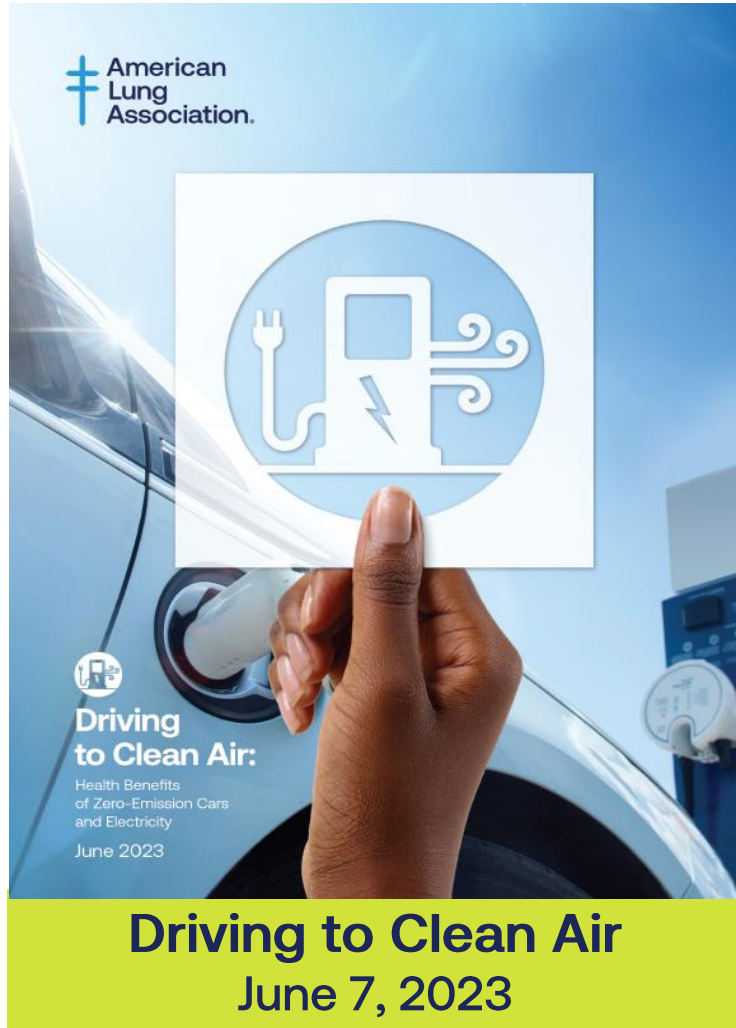
June 13, 2023

# **Updated OMB Briefing: NHTSA Light Vehicle CAFE Standards Beyond MY 2026**



# Driving to Clean Air:

## *Health Benefits of Zero-Emission Cars and Electricity*



[Lung.org/EV](https://lung.org/EV)

**More than  
1 in 3 Americans  
live in places with unhealthy  
levels of air pollution.**





**People of color are 3.7x  
more likely than white  
people to live in a county  
with 3 failing grades.**

# NEW: “Driving to Clean Air” Report

## Transition to Zero-Emission Vehicles & Electricity Generation

- **Full New Zero-Emission Passenger Vehicle Sales in the United States**
  - 2035, 100% Passenger Vehicle Sales
- **National Power Grid**
  - 2035, 100% Non-Combustion Electricity Generation
- **Fleet Modeling Tool: [US EPA MOVES3](#)**
- **Grid Mix Modeling Tool: [ICF IPM Model](#)**
- **Upstream Emissions: [Argonne National Lab GREET2021](#)**
- **Health Evaluation: [US EPA COBRA](#)**
  - *Note: Alaska and Hawaii not included in COBRA results*

# LDV Emissions



**63%**

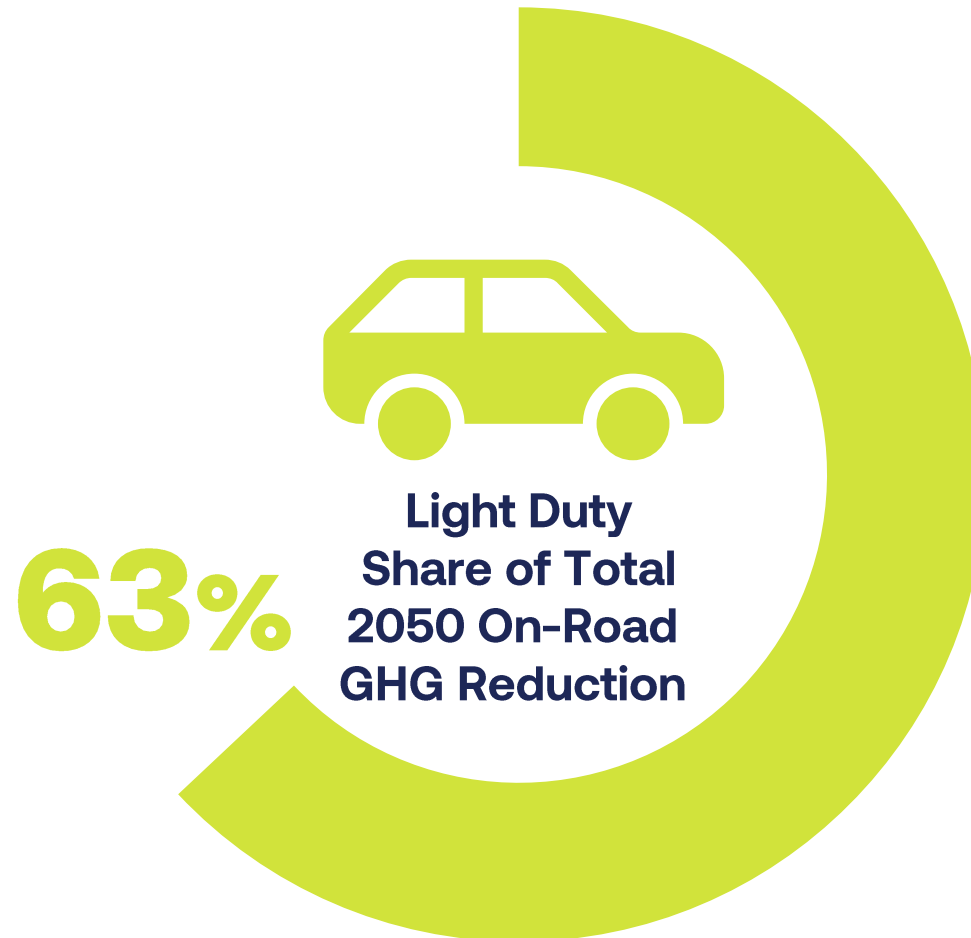
**Light Duty Vehicle  
Share of  
2050 On-Road  
GHG Reduction**



**Light Duty  
Emission  
Reductions  
(2050)**

**NO<sub>x</sub> – 92%  
PM<sub>2.5</sub> – 58%  
GHG – 94%**

# We anticipate significant carbon reductions for light-duty vehicles by 2050.



# **\$978 Billion** in health benefits.

## How?



**89K premature deaths avoided**



**2.2M asthma attacks avoided**



**10.7M lost work days avoided**



# Light-Duty Downstream Reductions with ZEV Transition

**Assumption: 100 percent zero-emission light duty vehicle sales by 2035**

On-Road Emission Reductions by Year			
	NO <sub>x</sub> (tpy)	VOC (tpy)	PM <sub>2.5</sub> (tpy)
2020	-284	-472	-25
2030	-23,124	-49,080	-2,903
2040	-80,975	-195,520	-11,369
2050	-111,168	-347,094	-16,170