

Reducing transportation emissions through alternative fuels: EPA's perspective

US Environmental Protection Agency – Region 2

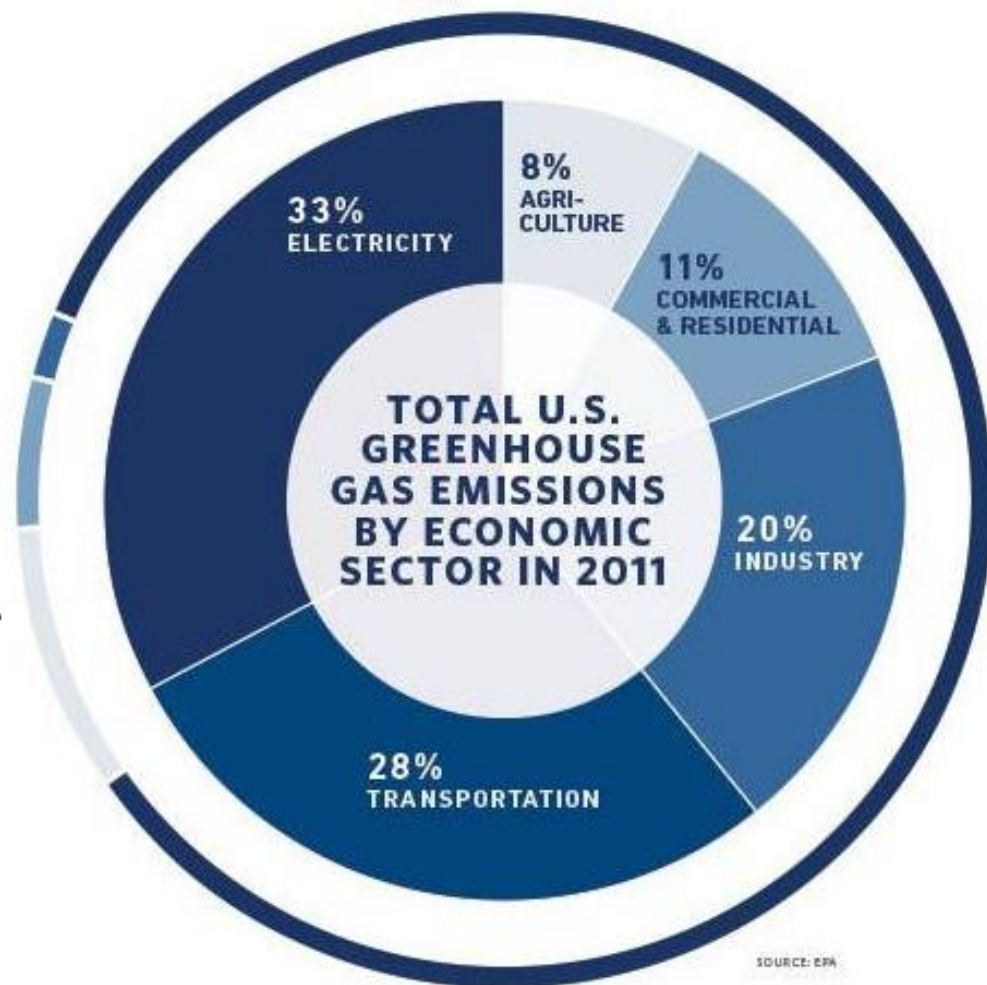
Dan Birkett





CARBON POLLUTION IS THE BIGGEST DRIVER OF CLIMATE CHANGE

U.S. GREENHOUSE GAS POLLUTION INCLUDES:



Transportation sector	
Passenger Cars	43%
Med/heavy trucks	22%
Light duty trucks	18%
Aircraft	8%
Ships and boats	3%
Other	6%



FUEL ECONOMY AND GREENHOUSE GAS STANDARDS FOR CARS AND LIGHT TRUCKS

OBAMA ADMINISTRATION Fuel Economy Standards

In the year 2025

The fleet-wide average will be

 **54.5**  MPG
 

Consumers will have saved
\$1.7 TRILLION
at the pump over the
life of the program.



A family that purchases a new
vehicle in 2025 will save

\$8,200

in fuel costs when compared with
a similar vehicle in 2010.

Over the life of the program, the standards will:

Save  **12** billion
barrels
of oil.

Eliminate **6** billion
metric
tons
of carbon dioxide pollution.



This program, together with standards already put into place by this
administration for Model Years 2011-2016, will result in significant
cost savings for consumers at the pump, dramatically reduce oil
consumption, cut pollution and create jobs.

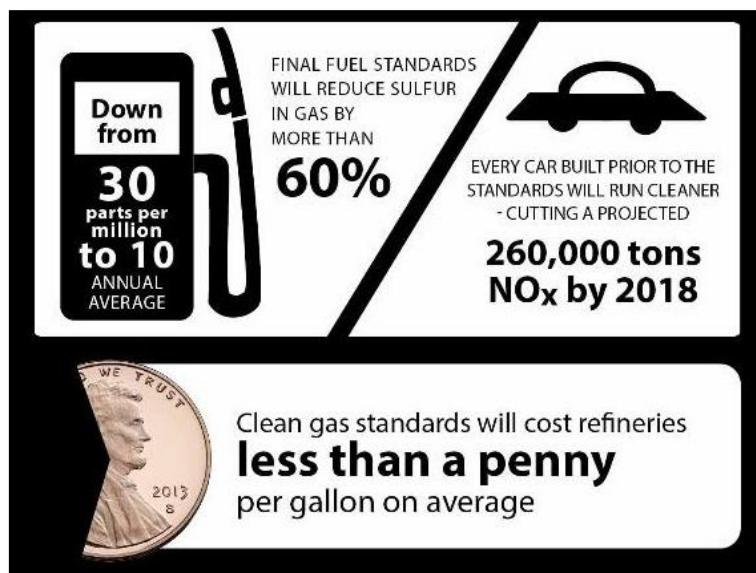


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NEXT GENERATION OF CLEAN CARS EPA TIER 3 STANDARDS





IMPROVING THE FUEL EFFICIENCY OF TRUCKS – PHASE 1

The first round of heavy-duty standards for model years 2014-2018 will:

- Reduce carbon pollution by about 270 million metric tons, or the equivalent of taking 56 million passenger vehicles off the road for a year.
- Improve air quality by reducing particulate matter and ozone, resulting in health benefits estimated to range from about \$1.3 billion to \$4.2 billion in 2030.

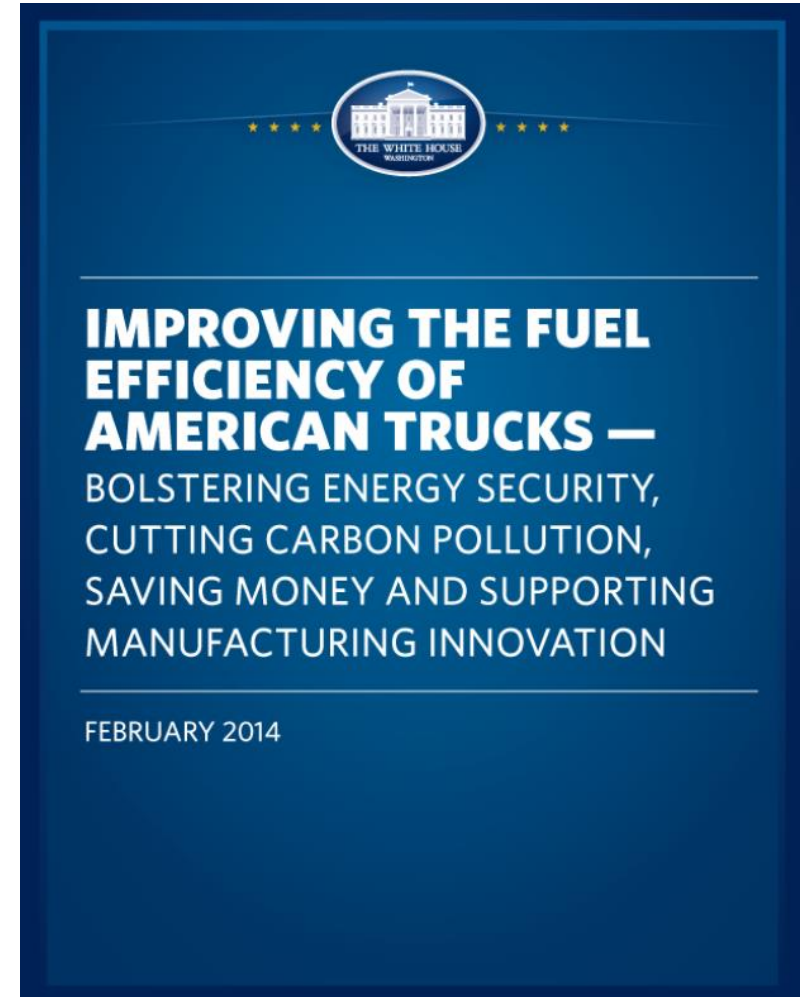




IMPROVING THE FUEL EFFICIENCY OF TRUCKS – PHASE 2

President Obama in February directed EPA to set the next round of fuel efficiency/GHG standards for medium- and heavy-duty vehicles.

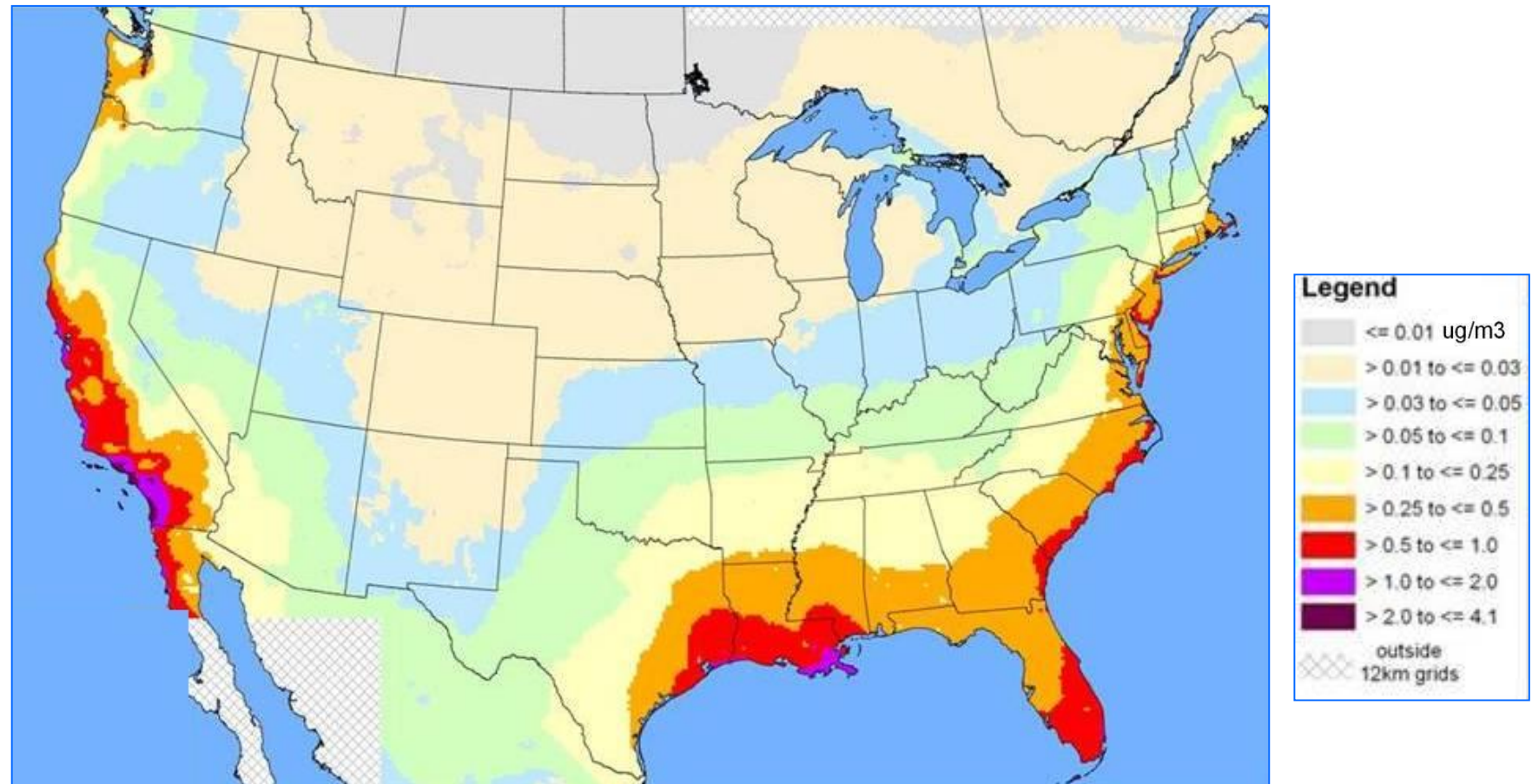
- Partnering with Manufacturers, Labor, States, NGOs, and other Stakeholders.
- Supporting Adoption of New Fuel Efficient Technologies.





REDUCING EMISSIONS FROM SHIPPING - EMISSIONS CONTROL AREA

Potential 2020 PM_{2.5} Emission Reductions from ECA





EPA'S CLEAN DIESEL PROGRAM GREENING THE LEGACY FLEET

DERA Funding Assistance Program

- Clean Diesel strategies

- Repower
- Replacement
- Retrofit
- Refuel
- Idle reduction



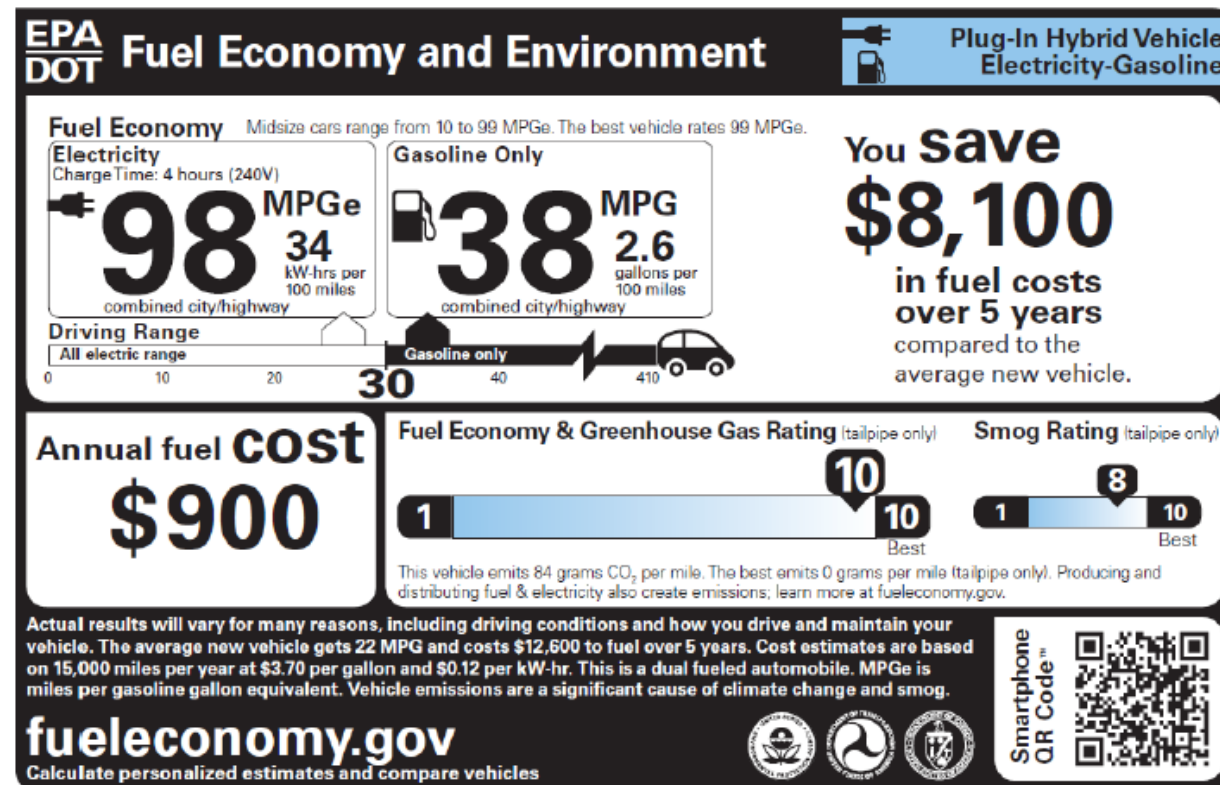
National Clean Diesel Campaign

- Up to \$100 million *authorized* annually for FY2012 through FY2016

FY 2013.....	\$30 million
FY 2012.....	\$30 million
FY 2011.....	\$50 million
FY 2009&10.....	\$60 million
Recovery Act of 2009.....	\$300 million



TOOLS FOR BUSINESSES AND CONSUMERS





BUILDING A 21ST CENTURY TRANSPORTATION SECTOR



- Alternative fuel technologies can play a key role in building an accessible transportation sector that protects human health and the environment
- All transportation fuel options must account for impacts throughout the entire life-cycle

- Increasingly stringent, fuel neutral emission standards make cleaner alternative fuel technologies more competitive
- Accelerating the changeover from older, dirtier vehicles to next generation clean vehicles must remain a priority

