54.5 Miles Per Gallon
Moving America Forward

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SAE Government/Industry Conference
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BENEFITS OF STRONGER STANDARDS, MY 2012-2025

2030

- SAVES DRIVERS $125 BILLION DOLLARS
- CUTS OIL IMPORTS BY 1/3rd
- CUTS CO₂ POLLUTION EQUAL TO 90 MILLION CARS

NET SAVINGS INCLUDING COST OF FUEL SAVINGS TECHNOLOGIES

50 BILLION GALLONS OR 3.3 MILLION BARRELS PER DAY

EQUIVALENT TO 150 COAL POWER PLANTS
WHERE WILL WE CHOOSE TO INVEST $500 BILLION?

$150 BILLION
ADDITIONAL OIL INDUSTRY REVENUE

$350 BILLION
SENT TO THE MIDDLE EAST & OTHER OIL-EXPORTING COUNTRIES
WHERE WILL WE CHOOSE TO INVEST $500 BILLION?

$300 BILLION TO U.S. AUTO INDUSTRY FOR ADDITIONAL TECHNOLOGY

$200 BILLION TO U.S. CONSUMERS
HALF A MILLION NEW JOBS

484,000 NEW JOBS ALL ACROSS AMERICA

Source: Roger Bezdek, Jobs per Gallon, a Ceres study, July 2011
CURRENT JOBS IN FUEL EFFICIENCY SUPPLY CHAIN

CURRENT SUPPLIER JOBS
150,000
ALL ACROSS AMERICA

MICHIGAN, OHIO, INDIANA
64,000
40% OF ALL CURRENT JOBS

Source: UAW, NRDC & NWF, Supplying Ingenuity, August 2011
STANDARD CAN BE MET PRIMARILY WITH GASOLINE ENGINES

- Downsized Turbocharged Gasoline Direct Injected: 82%
- Hybrid: 15%
- Battery Electric Vehicle: 3%

WE CAN DO IT WITH KNOWN TECHNOLOGY

54.5 MPG CAN BE MET WITH 82% GASOLINE TURBO ENGINES, 15% HYBRIDS & 3% ELECTRIC CARS

- Improved Aerodynamics
- Variable Valve Lift
- Dual Cam Phasing
- Gasoline Direct Injection
- Variable Geometry Turbocharger
- Advanced High Strength Steel, Aluminum, & Magnesium
- Fuel-Efficient Tires
- Improved Air Conditioning Systems with New Refrigerant
- Cooled Exhaust Gas Recirculation
- 8-Speed Transmission, Automatic or Dual Clutch Automated Manual

Source: EPA and NHSTA, Regulatory Impact Analysis, Proposed 2017-2025 Standards
CONSUMER POCKETBOOK SAVINGS

SAVE $4400 OVER THE LIFE OF THE VEHICLE

Source: EPA and NHSTA, Notice of Proposed Rulemaking, 2017-2025 Standards
CONSUMER POCKETBOOK SAVINGS
IMMEDIATE MONTHLY COST SAVINGS

54.5 MILES PER GALLON

SAVE $140 FIRST YEAR OWNERSHIP

Source: EPA and NHSTA, Notice of Proposed Rulemaking, 2017-2025 Standards
EPA/NHSTA CONSISTENT WITH OTHER INDEPENDENT STUDIES

The nominal MPGe value refers to the value obtained on the regulatory test cycle if all CO₂ reductions occur from fuel economy improvements. A credit for A/C improvements is included that results in CO₂ reductions, but would not actually translate into MPG improvements.
OIL PRICES IMPACT ON SALES

HIGHER FUEL EFFICIENCY HELPS INSULATE ECONOMY FROM HIGH AND VOLATILE OIL PRICES
DIRECT JOB CREATION

54.5 MILES PER GALLON

AUTOMOBILE ONLY. ~10X MULTIPLIER FOR OTHER INDUSTRIES, INDIRECT AND INDUCED

CENTER FOR AUTOMOBILE RESEARCH 2011 STUDY

4% pa Scenario 3-yr value 5-yr value * 7-yr value

(119,375) 40,102 63,828 84,537

NRDC REANALYSIS

* CAR 2011 ASSUMPTION

ASSUMES EPA/NHSTA NPRM COST ESTIMATE

UNLIKE CAR, ASSUMES MORE TECHNOLOGY MEANS MORE JOBS
Rep. John D. Dingell

“We’re celebrating something that has taken a long time to reach. There appears to be no significant opposition amongst responsible persons.”

Bob King, President UAW

“The proposed rules are sensible, achievable, and needed. They are good for the auto industry and its workers, good for the broader economy, good for the environment and good for our national security.”
54.5 MILES PER GALLON

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