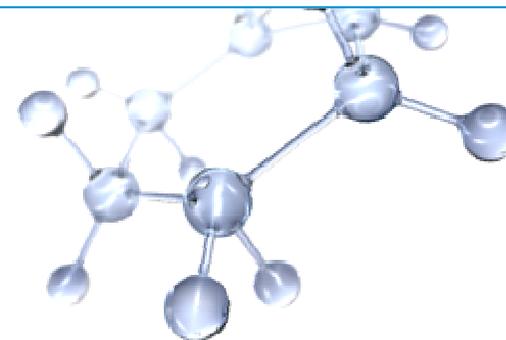


ExxonMobil

Taking on the world's toughest energy challenges.™

Energy Outlook for the Transport Sector



Grant Karsner
Manager, Products Research and Technology
ExxonMobil Research and Engineering

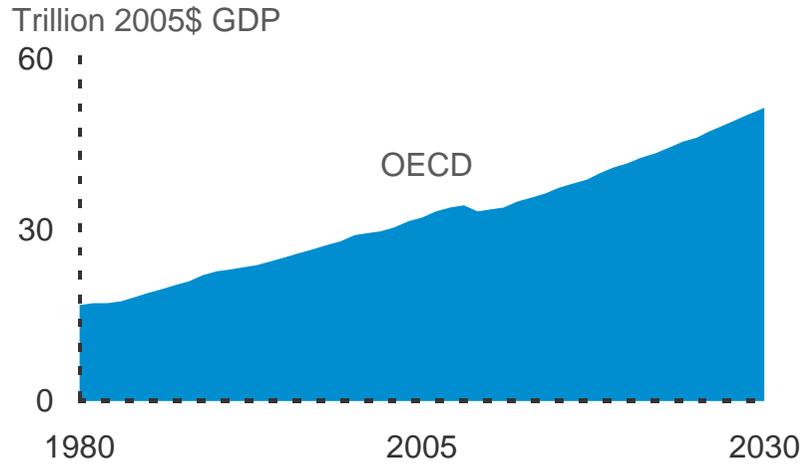
DEER Conference
September 27, 2010
Detroit, MI

This presentation includes forward-looking statements. Actual future conditions (including economic conditions, energy demand, and energy supply) could differ materially due to changes in technology, the development of new supply sources, political events, demographic changes, and other factors discussed herein (and in Item 1 of ExxonMobil's latest report on Form 10-K). This material is not to be reproduced without the permission of Exxon Mobil Corporation.

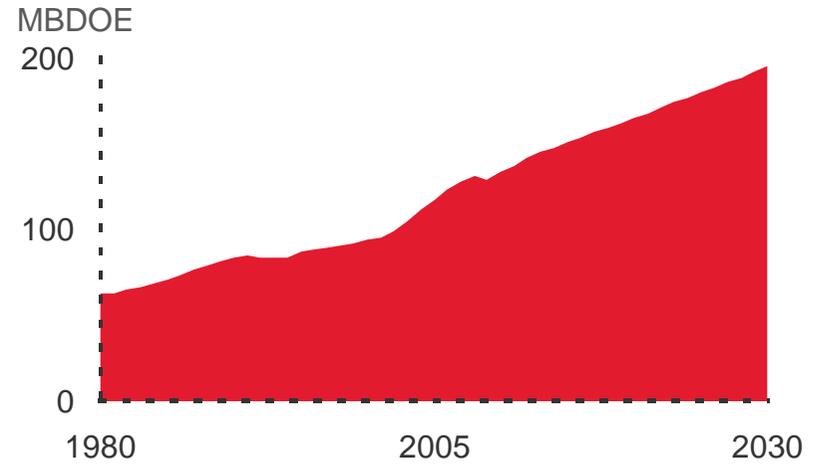
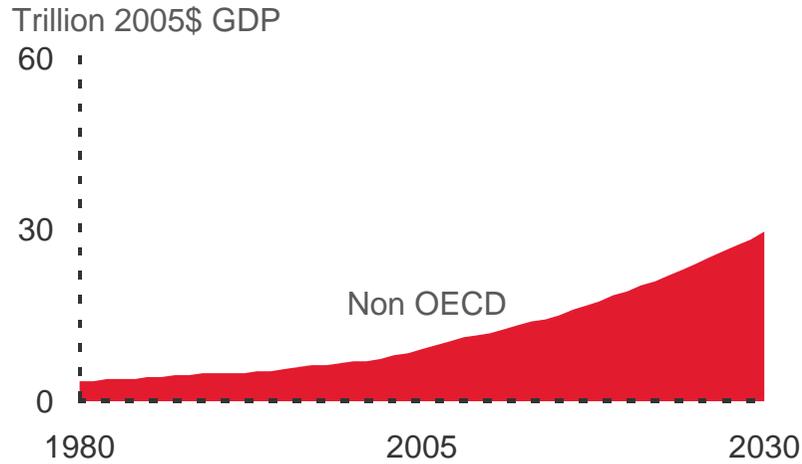
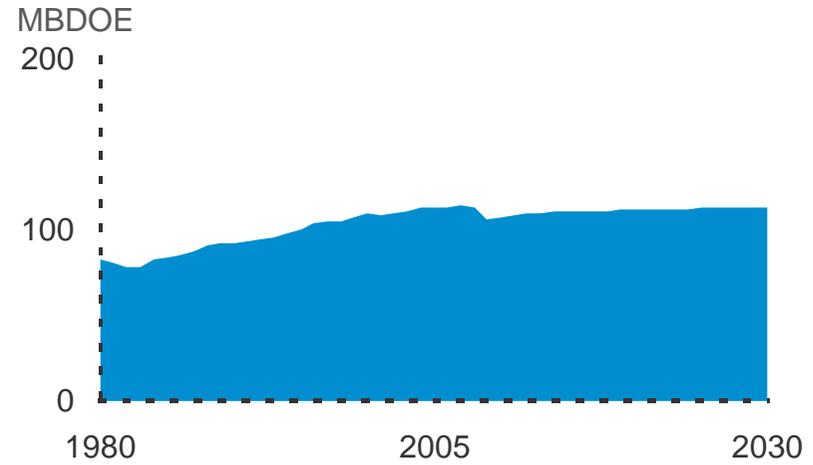
Economic Growth Drives Energy Demand



GDP



Demand

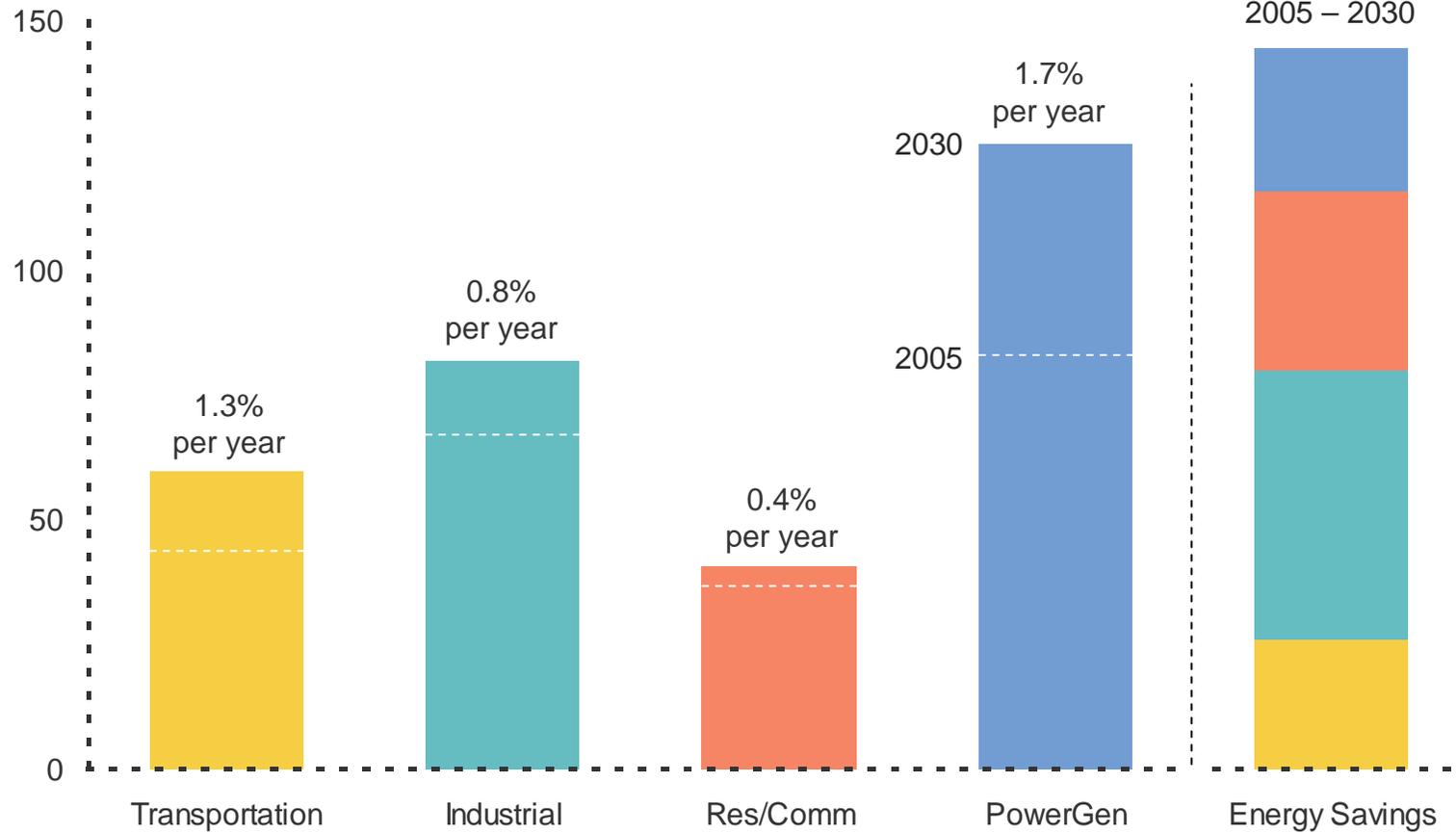


Growing Global Demand



By Sector

MBDOE

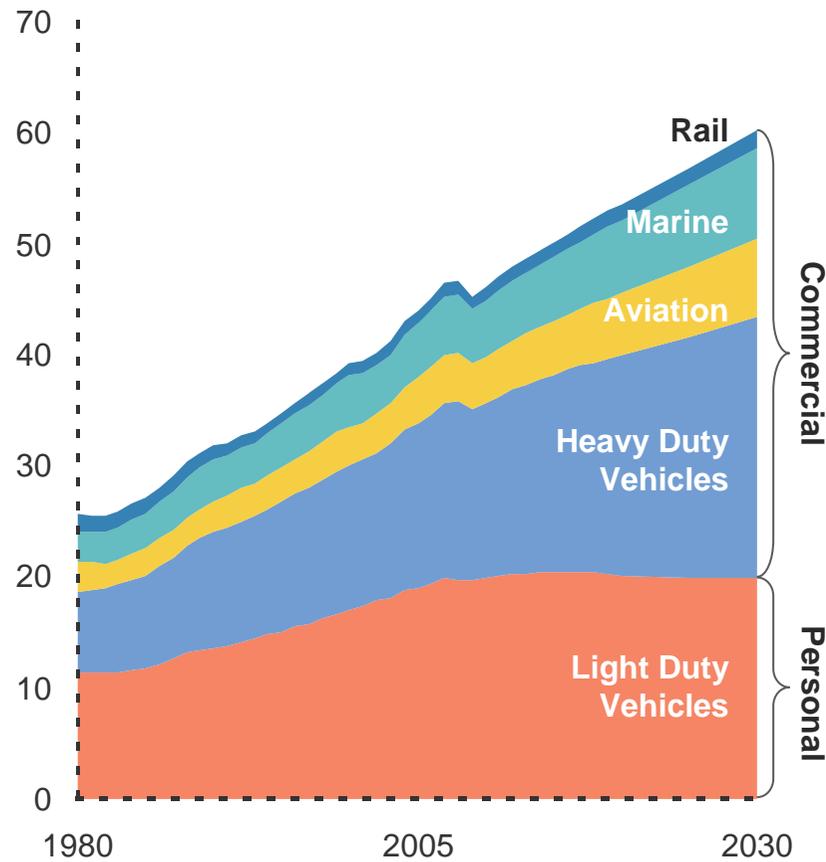


Global Transportation Demand



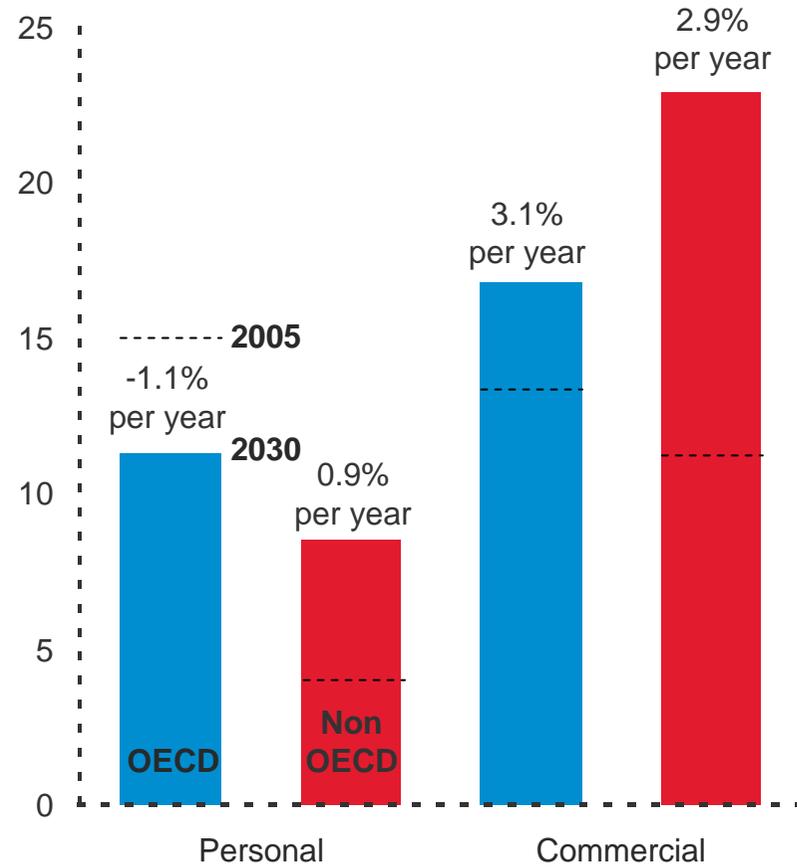
By Sector

MBDOE



Personal vs. Commercial

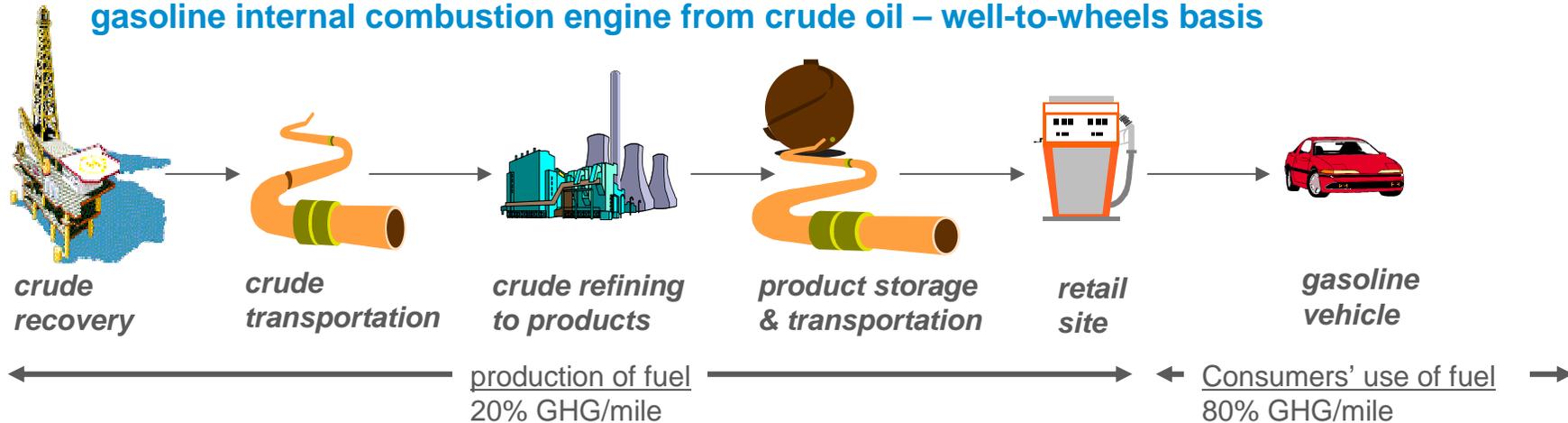
MBDOE



Technologies for GHG Reduction



gasoline internal combustion engine from crude oil – well-to-wheels basis



technologies for fuel production

shorter-term

- energy efficiency
- flare reduction
- cogeneration

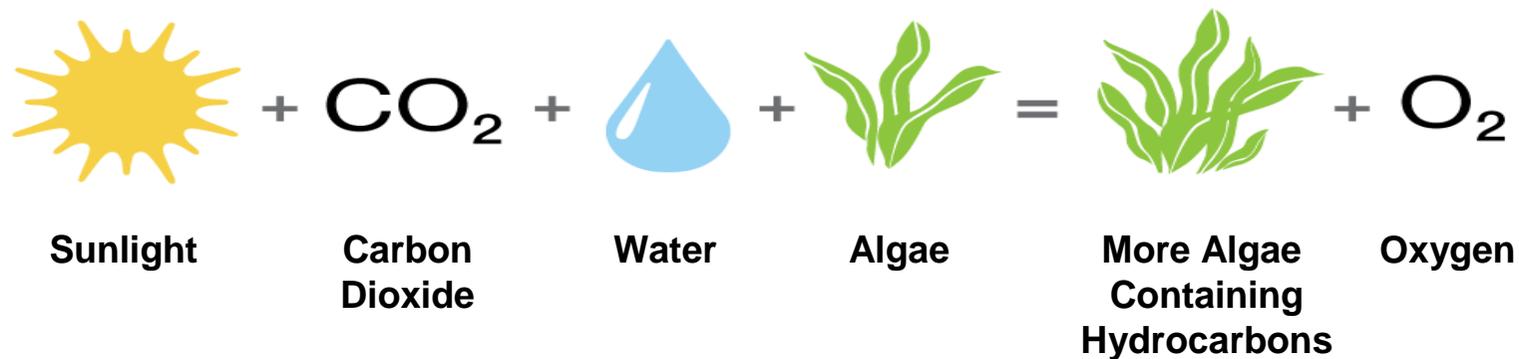
longer-term

- second generation bio-fuels
- Carbon Capture and Storage (CCS)

Algae-based biofuels



- benefits of using algae for biofuels production:
 - can be grown using land and water unsuitable for food production
 - potentially yield greater volumes of biofuels per acre than other biofuel sources
 - could be used to manufacture biofuels similar to today's transportation fuels
 - growing algae consume CO₂; algae-based biofuels could provide GHG mitigation benefits versus conventional fuels

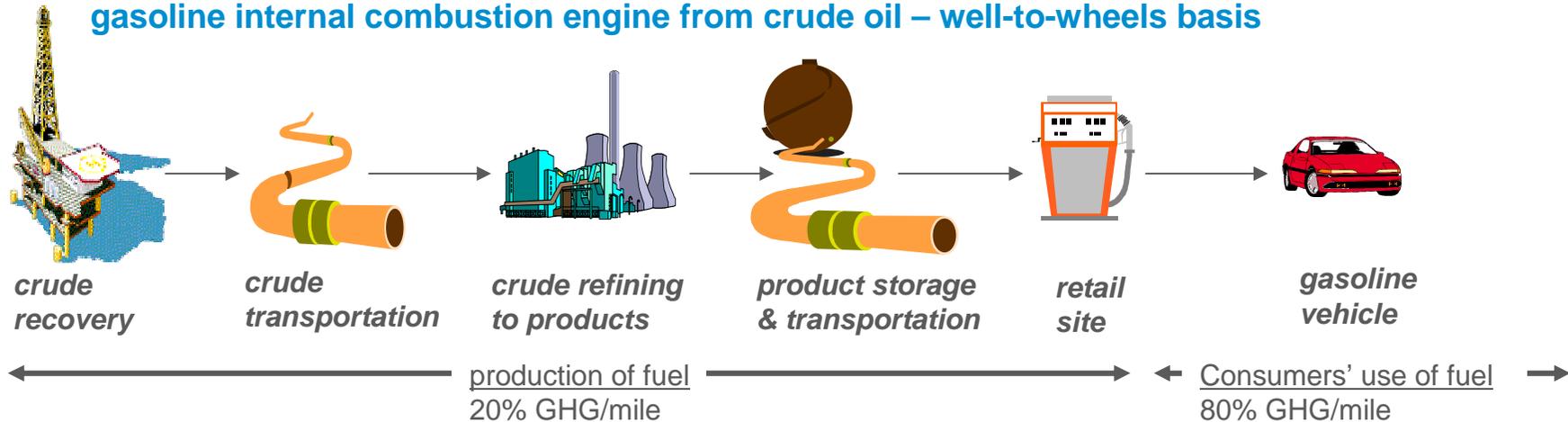


- ExxonMobil alliance with Synthetic Genomics Inc
 - focus on development of advanced biofuels from photosynthetic algae
 - complements ExxonMobil's ongoing efforts to advance breakthrough technologies to meet the world's energy challenges

Technologies for GHG Reduction



gasoline internal combustion engine from crude oil – well-to-wheels basis



technologies for fuel production

shorter-term

- energy efficiency
- flare reduction
- cogeneration

longer-term

- second generation bio-fuels
- Carbon Capture and Storage (CCS)

technologies for consumers' use of fuel

shorter-term

- conventional vehicle technology improvements
 - engines, transmissions, body and accessories
- advanced vehicles
 - hybrids, advanced diesel engines

longer-term

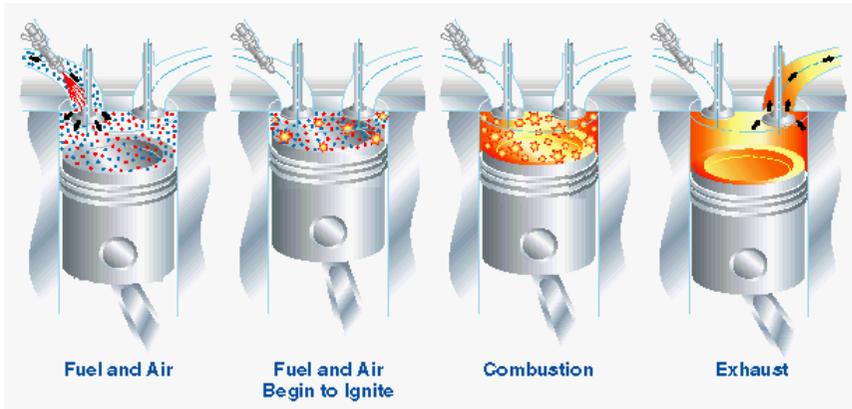
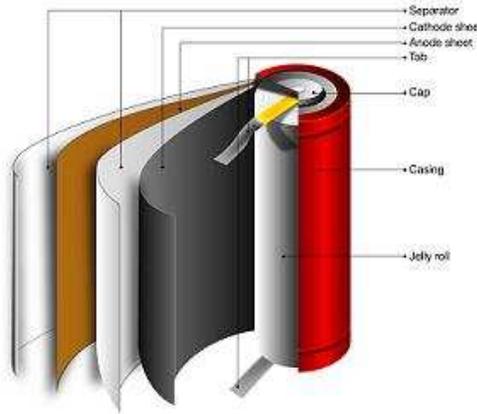
- breakthrough vehicles
 - “HCCI” or “CAI”; hydrogen fuel cells
 - plug-in hybrid, battery electric vehicles

Improving Consumers' Use of Energy



lithium-ion battery materials*

new separator technology for lighter and safer hybrid and electric vehicle batteries



advanced engines and fuels research

potential for improved fuel economy vs. current gasoline engines, by using diesel-like combustion process



on-board hydrogen generator for fuel cell vehicles

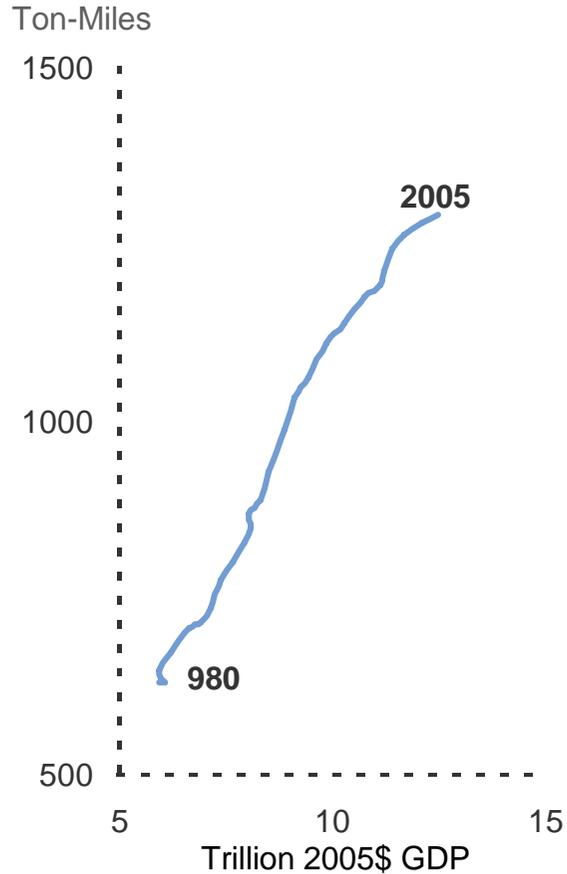
converts hydrocarbon fuels into hydrogen to power a fuel cell – all on-board the vehicle

Since 4Q'09 Lithium Ion Battery Separator film s are produced and marketed by Toray Tonen Specialty Separator Godo Kaisha, a joint venture in which ExxonMobil has a 25% interest.

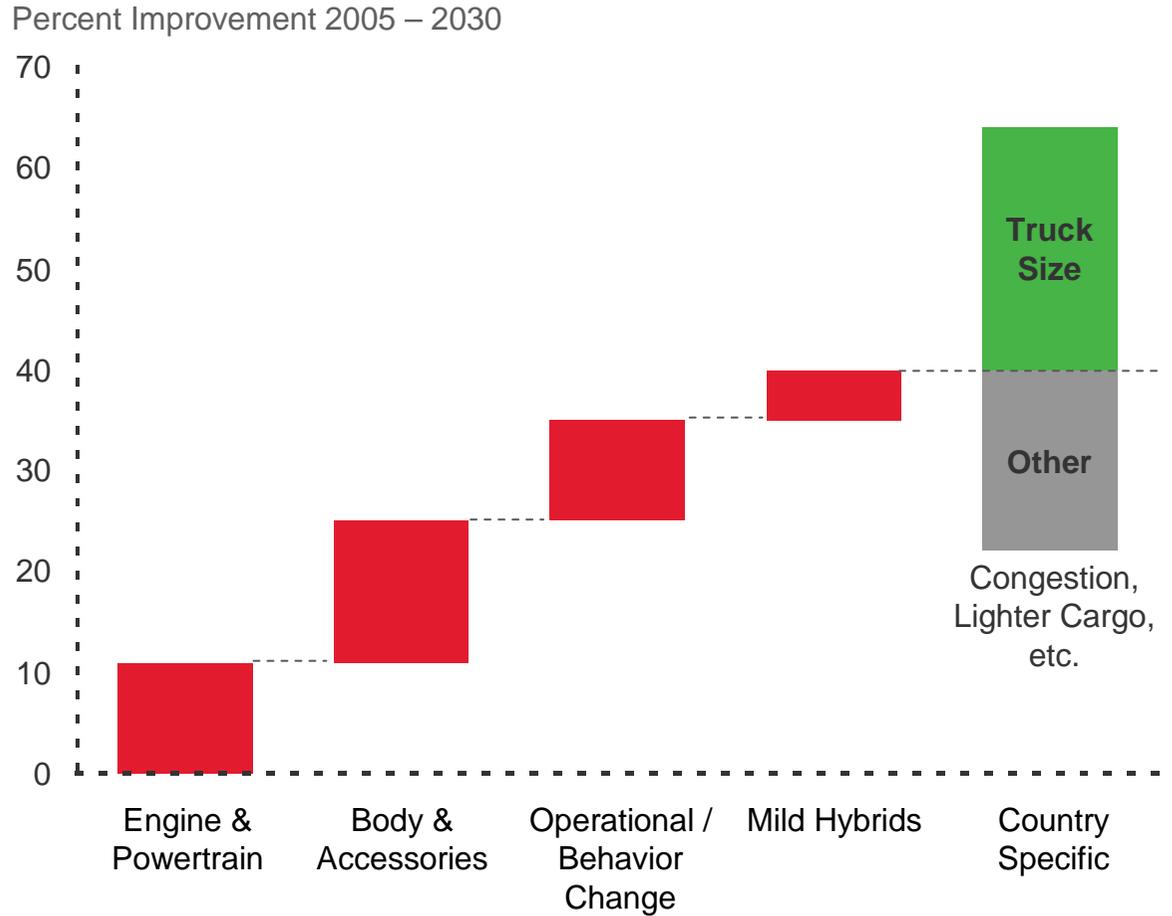
Heavy Duty Vehicles



Road Freight – US



New Truck Efficiency



Integrated Energy Solutions





ExxonMobil™