Outlook for Light-Duty-Vehicle Fuel Demand

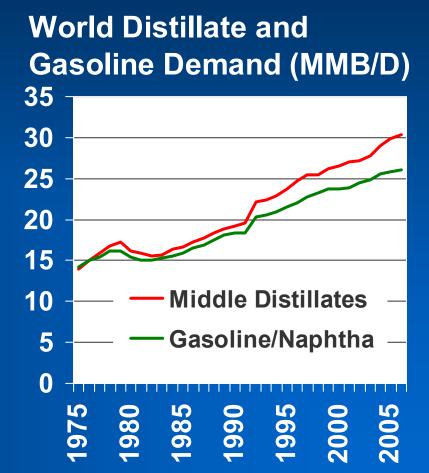


Diesel Engine-Efficiency and Research Conference 2008

Energy Information Administration
Joanne Shore
John Hackworth
John Maples

History: World Distillate Demand Growing Faster than Gasoline

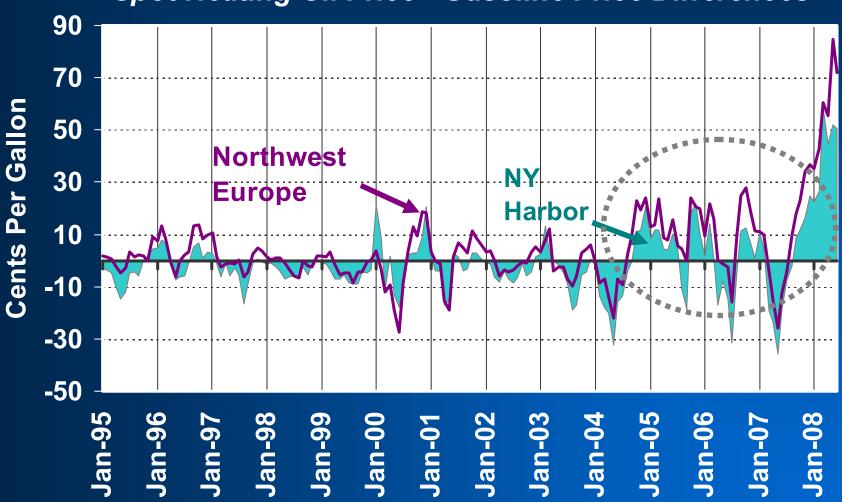
- World distillate demand has been growing faster than gasoline for many years.
- Yet, until recently, gasoline prices were higher than distillate.



Note: MMB/D – Million Barrels Per Day Source: BP Statistical Review 2007

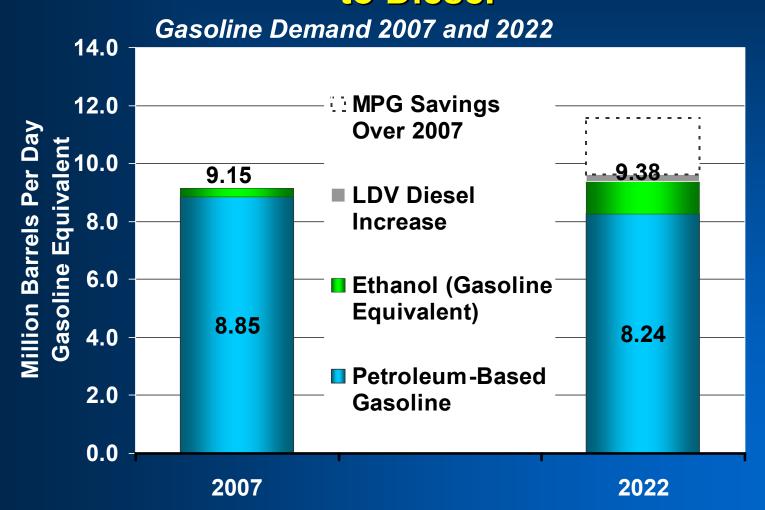
Distillate Price Discounts From Gasoline May "Be History"

Spot Heating Oil Price - Gasoline Price Differences

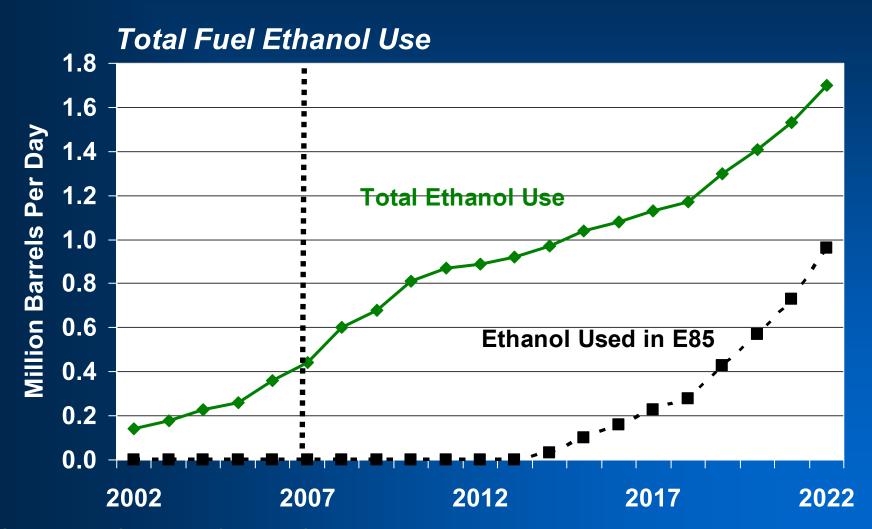


Source: Bloomberg New York Harbor Conventional Gasoline, No. 2 Heating Oil; NW Europe 0.2% Heating Oil and Premium Gasoline

Projected Gasoline Demand Increases, But Petroleum-Based Gasoline Declines Due to Efficiency, Increased Biofuels, and Switch to Diesel



Renewable Fuels Requirement Mainly Met with Ethanol, Including E85



Source: AEO 2008 Reference Case

New Light-Duty Fuel Efficiency is 36 MPG in 2022 Versus 28.4 in Case without EISA

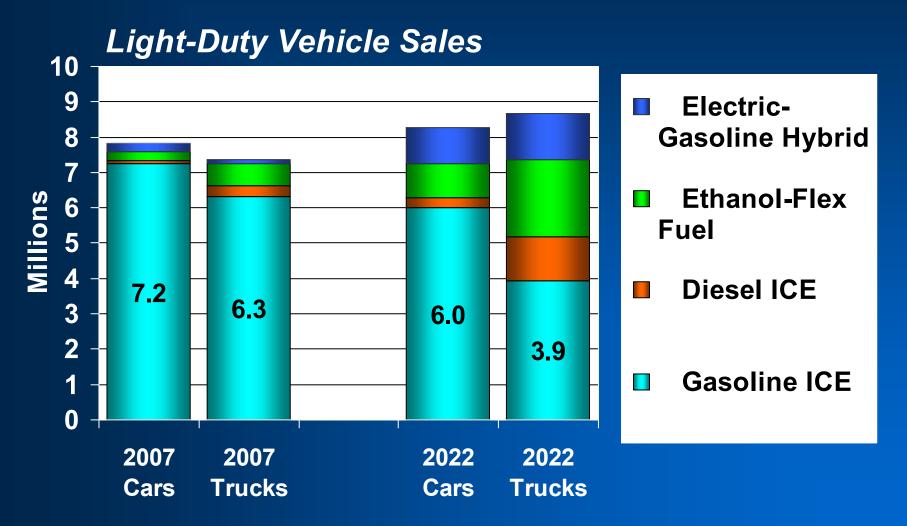




Note: EISA - Energy Independence and Security Act of 2007

Source: AEO 2008 Reference Case

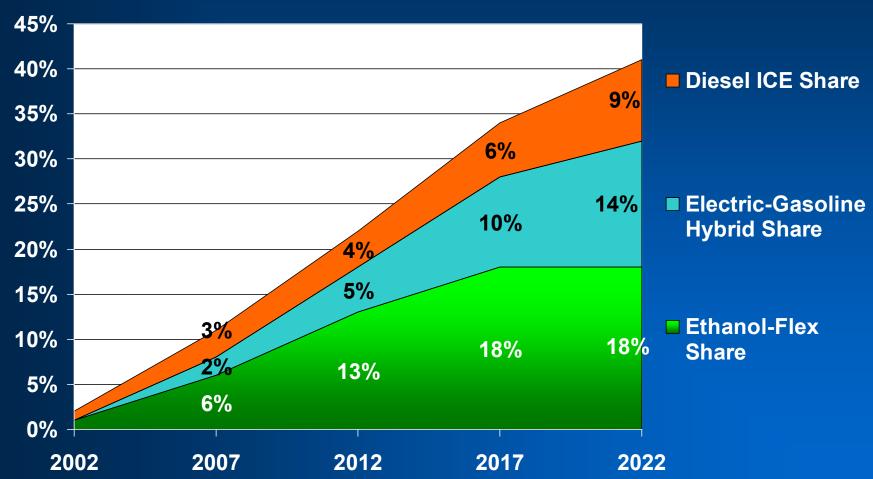
Shifting Vehicle Mix Needed to Meet Both Increased Efficiency & Ethanol Use



Note: ICE – Internal Combustion Engine Source: AEO 2008 Reference Case

Non-Gasoline Vehicle Sales Penetration Increases from 11% in 2007 to 41% in 2022

Non-Gasoline Light-Duty Vehicle Sales Penetration



Source: AEO 2008 Reference Case

Petroleum-Based* Gasoline and Distillate Fuel Needs Shift

Million Barrels Per Day	2007	2022	Growth to 2022
Petroleum Gasoline	8.85	8.24	-0.61
Petroleum Distillate	4.22	4.71	+0.49

^{*} Petroleum-Based excludes ethanol, biodiesel, and distillate from coal-to-liquids and biomass-to-liquids. Source: AEO 2008 Reference Case

Issues Associated with Shifting U.S. Demand Mix and Import Availability

- The shifting demand mix of products towards more distillate and less gasoline may be a challenge for refiners
- Supply uncertainties:
 - U.S. Refiners Distillate Response More throughput versus higher yields
 - U.S. Refiners Gasoline Availability Function of distillate response
 - World Availability of Export Gasoline Europe, Asia and Middle East increasing
 - Needs of other countries for "imported" gasoline
- The demand trends imply downward pressure on gasoline prices and upward pressure on distillate.

Questionsi