



ASSESSMENT OF FUEL ECONOMY TECHNOLOGIES FOR LIGHT-DUTY VEHICLES

NATIONAL RESEARCH COUNCIL
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Assessment Of Fuel Economy Technologies For Light Duty Vehicles

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Assessment Of Fuel Economy Technologies For Light Duty Vehicles:

Assessment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy, 2011-07-03 Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars sport utility vehicles minivans and other light duty vehicles without compromising vehicle performance or safety Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines spark ignition gasoline compression ignition diesel and hybrid According to its estimates adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark ignition engines could reduce fuel consumption by 29 percent at an additional cost of 2 200 to the consumer Replacing spark ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately 5 900 per vehicle and replacing spark ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of 6 000 per vehicle The book focuses on fuel consumption the amount of fuel consumed in a given driving distance because energy savings are directly related to the amount of fuel used In contrast fuel economy measures how far a vehicle will travel with a gallon of fuel Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the

National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards

Assessment of Fuel Economy Technologies for Light-duty Vehicles ,2011 **Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy?2025-2035** Engineering National Academies of Sciences (and Medicine),2021 Assessment of Technologies for Improving Light Duty Fuel Economy National Research Council (U.S.). Committee on Assignment of Technologies for Improving Light-Duty Vehicle Fuel Economy,National Research Council (U.S.),National Academies Press (U.S.),2011 Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy National Research Council (U.S.). Committee on Assignment of Technologies for Improving Light-Duty Vehicle Fuel Economy,2008 In 2001 the NRC released Effectiveness and Impact of Corporate Average Fuel Economy CAFE Standards High oil prices and recent legislation mandating a further increase in the CAFE standards have renewed interest in the current and expected technical potential for automobile fuel efficiency Accordingly the National Highway Traffic Safety Administration NHTSA requested the NRC to provide an objective and independent update of the 2001 study and add an assessment of technologies that have emerged since that time This report presents an interim assessment of technologies to be analyzed in the study and of the computational models that will be used in that analysis Estimated fuel economy benefits presented in this report reflect those from existing literature and presentations to the study committee A final report is scheduled for late spring 2008 Publisher s website **Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy** ,2010 *Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy* ,2008 **Transitions to Alternative Vehicles and Fuels** National Research Council,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Transitions to Alternative Vehicles and Fuels,2013-04-14 For a century almost all light duty vehicles LDVs have been powered by internal combustion engines operating on petroleum fuels Energy security concerns about petroleum imports and the effect of greenhouse gas GHG emissions on global climate are driving interest in alternatives Transitions to Alternative Vehicles and Fuels assesses the potential for reducing petroleum consumption and GHG emissions by 80 percent across the U S LDV fleet by 2050 relative to 2005 This report examines the current capability and estimated future performance and costs for each vehicle type and non petroleum based fuel technology as options that could significantly contribute to these goals By analyzing scenarios that combine various fuel and vehicle pathways the report also identifies barriers to implementation of these technologies and suggests policies to achieve the desired reductions Several scenarios are promising but strong and effective policies such as research and development

subsidies energy taxes or regulations will be necessary to overcome barriers such as cost and consumer choice

Autonomous Vehicle Technology James M. Anderson, Nidhi Kalra, Karlyn D. Stanley, Paul Sorensen, Constantine Samaras, Oluwatobi A. Oluwatola, 2014-01-10 Autonomous vehicle technology has the potential to significantly improve social welfare This report addresses the numerous legislative regulatory and liability issues this technology will raise **Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two** National Academies of Sciences, Engineering, and Medicine, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Technologies and Approaches for Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles, Phase Two, 2020-06-15 Medium and heavy duty trucks motor coaches and transit buses collectively medium and heavy duty vehicles or MHDVs are used in every sector of the economy The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years This study is a follow on to the National Research Council's 2010 report *Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles* That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs On September 15 2011 NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy Duty National Program to reduce greenhouse gas emissions and fuel consumption for on road medium and heavy duty vehicles As NHTSA and EPA began working on a second round of standards the National Academies issued another report *Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium and Heavy Duty Vehicles Phase Two First Report* providing recommendations for the Phase II standards This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade *Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles* National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee to Assess Fuel Economy Technologies for Medium- and Heavy-Duty Vehicles, 2010-08-30 *Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles* evaluates various technologies and methods that could improve the fuel economy of medium and heavy duty vehicles such as tractor trailers transit buses and work trucks The book also recommends approaches that federal agencies could use to regulate these vehicles fuel consumption Currently there are no fuel consumption standards for such vehicles which account for about 26 percent of the transportation fuel used in the U S The miles per gallon measure used to regulate the fuel economy of passenger cars is not appropriate for medium and heavy duty vehicles which are designed above all to carry loads efficiently Instead any regulation of medium and heavy duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers such as gallons per ton mile a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile This is called load specific fuel consumption LSFC The book estimates

the improvements that various technologies could achieve over the next decade in seven vehicle types For example using advanced diesel engines in tractor trailers could lower their fuel consumption by up to 20 percent by 2020 and improved aerodynamics could yield an 11 percent reduction Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently such as garbage trucks and transit buses by as much 35 percent in the same time frame *Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards* National Research Council,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on the Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards,2002-01-29 Since CAFE standards were established 25 years ago there have been significant changes in motor vehicle technology globalization of the industry the mix and characteristics of vehicle sales production capacity and other factors This volume evaluates the implications of these changes as well as changes anticipated in the next few years on the need for CAFE as well as the stringency and or structure of the CAFE program in future years **Federal Register** ,2012-10 **LightDuty Automotive Technology and Fuel Economy Trends19752005** , *Automobile Fuel Economy Amendments of 1979* United States. Congress. Senate. Committee on Commerce, Science, and Transportation,1980 **U.S. Oil Import Vulnerability** ,1991 [Air Pollution Effects on Crops and Forests](#) ,1993-06 A bibliography with abstracts dealing with the effects of air pollution on crops and forests **Department of Transportation and related agencies appropriations for 1981** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Transportation and Related Agencies Appropriations,1980 **Advanced automotive technology : visions of a super-efficient family car.** ,

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