

# **Transitions To Alternative Vehicles And Fuels**

**Tim Tegtmeyer** 

#### **Transitions To Alternative Vehicles And Fuels:**

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 Transitions to Alternative Vehicles and Fuels ,2013 **Transitions to Alternative Transportation** consumer choice Technologies National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Resource Needs for Fuel Cell and Hydrogen Technologies, 2008-11-17 Hydrogen fuel cell vehicles HFCVs could alleviate the nation s dependence on oil and reduce U S emissions of carbon dioxide the major greenhouse gas Industry and government sponsored research programs have made very impressive technical progress over the past several years and several companies are currently introducing pre commercial vehicles and hydrogen fueling stations in limited markets However to achieve wide hydrogen vehicle penetration further technological advances are required for commercial viability and vehicle manufacturer and hydrogen supplier activities must be coordinated In particular costs must be reduced new automotive manufacturing technologies commercialized and adequate supplies of hydrogen produced and made available to motorists These efforts will require considerable resources especially federal and private sector funding This book estimates the resources that will be needed to bring HFCVs to the point of competitive self sustainability in the marketplace It also estimates the impact on oil consumption and carbon dioxide emissions as HFCVs become a large fraction of the light duty vehicle fleet **Transitions to Alternative Transportation** Technologiesâ¬"Plug-in Hybrid Electric Vehicles National Research Council, Division on Engineering and Physical

Technologiesa¬"Plug-in Hybrid Electric Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Assessment of Resource Needs for Fuel Cell and Hydrogen Technologies, 2010-04-29 The nation has compelling reasons to reduce its consumption of oil and emissions of carbon dioxide Plug in hybrid electric vehicles PHEVs promise to contribute to both goals by allowing some miles to be driven on electricity drawn from the grid with an internal combustion engine that kicks in when the batteries are discharged

However while battery technology has made great strides in recent years batteries are still very expensive Transitions to Alternative Transportation Technologies Plug in Hybrid Electric Vehicles builds on a 2008 National Research Council report on hydrogen fuel cell vehicles The present volume reviews the current and projected technology status of PHEVs considers the factors that will affect how rapidly PHEVs could enter the marketplace including the interface with the electric transmission and distribution system determines a maximum practical penetration rate for PHEVs consistent with the time frame and factors considered in the 2008 Hydrogen report and incorporates PHEVs into the models used in the hydrogen study to estimate the costs and impacts on petroleum consumption and carbon dioxide emissions Alternative Transportation Technologiesa-"Plug-In Hybrid Electric Vehicles Committee on Assessment of Resource Needs for Fuel Cell and Hydrogen Technologies, Board on Energy and Environmental Systems, Division on Engineering and Physical Sciences, National Research Council, 2010-04-29 The nation has compelling reasons to reduce its consumption of oil and emissions of carbon dioxide Plug in hybrid electric vehicles PHEVs promise to contribute to both goals by allowing some miles to be driven on electricity drawn from the grid with an internal combustion engine that kicks in when the batteries are discharged However while battery technology has made great strides in recent years batteries are still very expensive Transitions to Alternative Transportation Technologies Plug in Hybrid Electric Vehicles builds on a 2008 National Research Council report on hydrogen fuel cell vehicles The present volume reviews the current and projected technology status of PHEVs considers the factors that will affect how rapidly PHEVs could enter the marketplace including the interface with the electric transmission and distribution system determines a maximum practical penetration rate for PHEVs consistent with the time frame and factors considered in the 2008 Hydrogen report and incorporates PHEVs into the models used in the hydrogen study to estimate the costs and impacts on petroleum consumption and carbon dioxide emissions Proceedings of the 1996 U.S. DOE Hydrogen Program Review, May 1-2, 1996, Miami, Florida, 1996 Pathways for a transition to a sustainable hydrogen transportation fuel infrastructure in California Marlene Hilkert, 2004-02-20 Inhaltsangabe Abstract As society enters the 21st century there is a growing awareness of the burdens being placed on the planet as its ability to keep up with the demands of modern society are strained One of the major contributors to this burden happens to be a main resource required for sustained development Energy has always been and will always be a necessary resource for existence Since the industrial revolution fossil fuels such as coal and oil have been the main stay fuel to accommodate society s appetite As the demand for this resource increases the climatic and socio economic costs of this fuel become more acute and it is well documented that the supply of this fuel is not endless One of the major consumers of this fuel as a society is the transportation sector The processes in place which take it from the ground to its combustion as a fuel are some of the main culprits which adversely affect the planet This thesis explores the issues associated with the introduction of another energy resource Hydrogen as a replacement fuel for the transportation industry It is argued that for the transportation sector

Hydrogen offers the most promising alternative as a fuel Making Hydrogen readily available and affordable through the retail infrastructure is of paramount importance if its widespread use is to be achieved The logistics of this are explored and it is believed that the introduction of small Hydrogen fuelers at existing retail outlets is the preferred method to instantiate the transition in the short to medium term Those fueling stations can utilize grid electricity to produce Hydrogen by the means of water electrolysis or take advantage of the existing Natural Gas distribution infrastructure to produce Hydrogen via steam reformation This thesis examines the Well to Wheels impacts and economic feasibility of those options and compares them to existing vehicle and fuel technologies The state of California was chosen as a target market due to its high automobile density the resulting pollution issues and its clear mandate on promoting alternative energy sources Inhaltsverzeichnis Table of Contents I Introduction 2 1 Summary of the work 2 2 Environmental economic and political challenges associated with the use of fossil fuels especially oil3 2 1Environmental and Social Problems with Fossil Fuels3 2 1 1Environmental pollution Oil spills and discharges 3 2 1 2 Environmental pollution Local **Prospects for Alternative Fuel Vehicle Use and** Distribution System Constrained Vehicle-to-grid Services for Improved Grid Production in Southern California ,1991 Stability and Reliability Sunil Chhaya, Electric Power Research Institute, 2019 **Migrating from Oil- to** Electricity-Powered Vehicles: Modeling Germany's Transition to the EV until 2040 in System Dynamics Michael Stephan, Anna Feller, 2009-10-05 Bachelor Thesis from the year 2009 in the subject Business economics Economic Policy grade 1 0 Otto Beisheim School of Management Vallendar Kuehne Foundation Chair in Logistics Management language English abstract Replacing traditional internal combustion engine cars by electric vehicles EVs offers significant advantages such as lower CO2 emissions lower noise pollution and lower oil consumption Nonetheless a potential migration of Germany s personal transportation ector towards the EV faces significant challenges like a low initial driving range and high production costs of the EV as well as high investment costs into a supporting infrastructure It is argued that some of these challenges form chicken and egg problems that are particularly difficult to overcome We analyze these challenges using a comprehensive System Dynamics model calibrated to Germany for the period from 2010 to 2040 with endogenous infrastructure entry and exit detailed reigonal driving behavior technological improvement and economies of scale We conclude that the EV will eventually overcome these initial hurdles after 2002 even though market penetration will remain limited for a long time The impact of different recharging technologies and a potential up front deployment of recharging infrastructure are investigated Furthermore we evaluate the efficiency and effectiveness of policy measures in support of the EV and aggregate potential annual CO2 emission reductions due to the introduction of the EV for different scenarios The thesis includes Concrete numeric market potential forecasts for Germany under different scenarios and assumptions including a rapid Better Place style deployment of infrastructure Overview over current EV technology A description of a sophisticated System Dynamics model including algorithms to simulate driving behavior on a regional level 450 regions for

Germany Sensitivity analysis for different technology development patterns and various subsidies including city tolls for non zero emission vehicles or infrastructure subsidies Model as well as data is available from the authors upon request

**Transitioning to a Hydrogen Future** M. Melendez, 2009-05 The challenges faced by alternative fuels during the last 20 years have much in common with those that face hydrogen i e building markets simultaneously for new vehicle technologies new fuels and new infrastructure to support them both The U S set goals in the 1980s and 1990s to derive a substantial portion of its fuel for transportation from non petroleum alternative fuels by the early 2000s 10% in 2000 30% in 2010 Although progress has been made through government and private efforts these goals have not been met for a variety of reasons To increase the chances for a timely and successful transition to hydrogen the experiences of the alternative fuels industry must be understood and used to shape hydrogen transition strategies California's Carbon Challenge Phase II Max Wei, University of California, Berkeley, Lawrence Berkeley National Laboratory, 2013 **Transportation Research Record** ,1997 How to Successfully Manage the Transition into the Battery Electric Vehicle Market. A Comparison of Pricing Strategies in Developed and Emerging Markets Tim Tegtmeyer, 2023-09-08 Bachelor Thesis from the year 2023 in the subject Business economics Business Management Corporate Governance grade 1 0 University of the Americas Puebla language English abstract In the present years many established automakers find themselves in the transition from internal combustion engine vehicles to electric vehicles Climate change is a growing concern in society so car manufacturers try to do their part to combat it As of today the most promising environmentally friendly option is the battery electric vehicle so many expect it to dominate the markets in a few years However this transition brings many fundamental questions one of them being the pricing strategy Elevated production costs government intervention and very dynamic competition make the companies face a situation they have not faced before so this investigation tries to guide them by comparing the three most used strategies penetration pricing price skimming and a cost plus strategy I used a survey in combination with information from the literature to assess the effectiveness of each of the pricing strategies. The results have been analyzed for both emerging and developing markets using the examples of Germany and Mexico but only small systematical differences could be identified As the results show neither penetration nor a skimming strategy is promising In the case of the penetration strategy companies would have to sell cars significantly below production costs and once they increase the prices to recover financial losses clients would flee to other brands due to a high demand elasticity and low brand loyalty For the price skimming strategy it was found that it is very hard to generate a solid initial sales volume Thus companies sticking with the simple cost plus strategy are most likely to succeed Transition Challenges for Alternative Fuel Vehicle and Transportation Systems Jeroen Struben, 2012 Automakers are now developing alternatives to internal combustion engines ICE including hydrogen fuel cells and ICE electric hybrids Adoption dynamics for alternative vehicles are complex due to the size and importance of the auto industry and vehicle installed base Diffusion of alternative vehicles is both enabled and constrained by

powerful positive feedbacks arising from scale and scope economies Ramp D learning by doing driver experience word of mouth and complementary resources such as fueling infrastructure We describe a dynamic model of the diffusion of and competition among alternative fuel vehicles including coevolution of the fleet technology consumer behavior and complementary resources Here we focus on the generation of consumer awareness of alternatives through feedback from consumers experience word of mouth and marketing with a reduced form treatment of network effects and other positive feedbacks which we treat in other papers We demonstrate the existence of a critical threshold for sustained adoption of alternative technologies and show how the threshold depends on economic and behavioral parameters We show that word of mouth from those not driving an alternative vehicle is important in stimulating diffusion Expanding the model boundary to include learning technological spillovers and spatial coevolution of fueling infrastructure adds additional feedbacks that condition the diffusion of alternative vehicles Results show scenarios for successful diffusion of alternative vehicles but also suggest that marketing programs and subsidies for alternatives must remain in place for long periods for diffusion to become self sustaining Effects of Transportation on Energy and Air Quality ,1997 **Macmillan Encyclopedia of Energy** John Zumerchik, 2001 Covers the broad field of energy in over 250 illustrated articles written by academics and experts in the field Includes biographies of people who made significant contributions to the science and technology of energy

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