

Overcoming Barriers To Electric-Vehicle Deployment

Author :Board on Energy and Environmental Systems Division on Engineering and Physical Sciences Transportation Research Board / **Category :**Technology & Engineering / **Total Pages :** 68 pages

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Summary : Free overcoming barriers to electric-vehicle deployment pdf download - the electric vehicle offers many promises-increasing u s energy security by reducing petroleum dependence contributing to climate-change initiatives by decreasing greenhouse gas ghg emissions stimulating long-term economic growth through the development of new technologies and industries and improving public health by improving local air quality there are however substantial technical social and economic barriers to widespread adoption of electric vehicles including vehicle cost small driving range long charging times and the need for a charging infrastructure in addition people are unfamiliar with electric vehicles are uncertain about their costs and benefits and have diverse needs that current electric vehicles might not meet although a person might derive some personal benefits from ownership the costs of achieving the social benefits such as reduced ghg emissions are borne largely by the people who purchase the vehicles given the recognized barriers to electric-vehicle adoption congress asked the department of energy doe to commission a study by the national academies to address market barriers that are slowing the purchase of electric vehicles and hindering the deployment of supporting infrastructure as a result of the request the national research council nrc -a part of the national academies-appointed the committee on overcoming barriers to electric-vehicle deployment this committee documented their findings in two reports-a short interim report focused on near-term options and a final comprehensive report overcoming barriers to electric-vehicle deployment fulfills the request for the short interim report that addresses specifically the following issues infrastructure needs for electric vehicles barriers to deploying the infrastructure and possible roles of the federal government in overcoming the barriers this report also includes an initial discussion of the pros and cons of the possible roles this interim report does not address the committee s full statement of task and does not offer any recommendations because the committee is still in its early stages of data-gathering the committee will continue to gather and review information and conduct analyses through late spring 2014 and

will issue its final report in late summer 2014 overcoming barriers to electric-vehicle deployment focuses on the light-duty vehicle sector in the united states and restricts its discussion of electric vehicles to plug-in electric vehicles pevs which include battery electric vehicles bevs and plug-in hybrid electric vehicles phevs the common feature of these vehicles is that their batteries are charged by being plugged into the electric grid bevs differ from phevs because they operate solely on electricity stored in a battery that is there is no other power source phevs have internal combustion engines that can supplement the electric power train although this report considers pevs generally the committee recognizes that there are fundamental differences between phevs and bevs

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