Battery-Powered Electric and Hybrid Electric Vehicle Projects to Reduce Greenhouse Gas Emissions: A Resource Guide for Project Development



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BATTERY-POWERED ELECTRIC AND HYBRID ELECTRIC VEHICLE PROJECTS TO REDUCE GREENHOUSE GAS EMISSIONS: A RESOURCE GUIDE FOR PROJECT DEVELOPMENT



Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 108 pages. Dimensions: 11.0in. x 8.5in. x 0.2in.The transportation sector accounts for a large and growing share of global greenhouse gas (GHG) emissions. Worldwide, motor vehicles emit well over 900 million metric tons of carbon dioxide (CO2) each year, accounting for more than 15 percent of global fossil fuel-derived CO2 emissions. In the industrialized world alone, 20-25 percent of GHG emissions come from the transportation sector. The share of transport-related emissions is growing rapidly due to the continued increase in transportation activity. In 1950, there were only 70 million cars, trucks, and buses on the worlds roads. By 1994, there were about nine times that number, or 630 million vehicles. Since the early 1970s, the global fleet has been growing at a rate of 16 million vehicles per year. This expansion has been accompanied by a similar growth in fuel consumption. If this kind of linear growth continues, by the year 2025 there will be well over one billion vehicles on the worlds roads. In a response to the significant growth in transportation-related GHG emissions, governments and policy makers worldwide are considering methods to reverse this trend. However, due to the particular make-up of the transportation sector, regulating and reducing emissions from this sector poses a significant challenge. Unlike stationary fuel combustion, transportation-related emissions come from dispersed sources. Only a few point-source emitters, such as oilnatural gas wells, refineries, or compressor stations, contribute to emissions from the transportation sector. The majority of transport-related emissions come from the millions of vehicles traveling the worlds roads. As a result, successful GHG mitigation policies must find ways to target all of these small, non-point source emitters, either through regulatory means or through various incentive programs. To increase their effectiveness, policies to...

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