

Way Forward to Carbon-Free Electricity for E-Mobility

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Fossil based energy is the driver of contemporary civilization since the Industrial Revolution and continues to play a dominant role in the global energy system. Use of fossil fuels has led to increasing pollution, emission of carbon dioxide and other greenhouse gases. As new sources of fossil fuels are drying up, in the long run the world may run out of these fuels. With the advent of renewable energy technologies are advancing to produce energy with a lesser environmental load such as solar energy together with developments in the storage of energy. Hydrogen is a clean energy carrier, which when consumed in the fuel cell, produces only water, heat and electricity. Due to their high efficiency and zero-or near-zero-emissions operation, hydrogen and fuel cells have the potential to reduce greenhouse gas emission in many applications. This article presents the recent perspectives of 'Hydrogen Fuel' and 'Fuel-Cell Technique' and its viability for transportation and energy generation.

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