

Living with the Nature; Hygiene water and Sanitation and Poverty

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ABSTRACT: Globally, transport accounts for about one quarter of the total carbon dioxide emissions. Energy consumption in the transport sector, which is dominated by fossil fuels, is continuously increasing causing various environmental problems. To cope with these problems alternative automotive technologies and alternative fuels are widely supported by different policy measures. It is of high priority to increase use of renewable energy sources in the transport sector. Currently, biofuels are mostly used alternative to conventional fossil fuels. However, with the increasing use of electric vehicles also electricity and hydrogen produced from renewable energy sources are becoming an important means in the decarbonization of the transport sector. Over the last years, biofuels have been supported worldwide. Yet, with the increasing use of biofuels we are facing new challenges, such as to ensure their sustainability and to avoid their competitions with food production. These challenges as well as changeable policy framework resulted in reduction of investment in biofuel technologies over the last decade. Currently, focus is put on electrification of mobility, although, in spite of

the different supporting policies implemented worldwide, the amount of electricity used in the transport sector is still negligible, especially use of electricity from renewable energy sources. The purpose of this paper is to analyze existing policies, prospects and barriers for the increasing use of renewable energy sources in the road transport. Our method is based on the economic and environmental assessment of alternative fuels and alternative vehicles. Although, they could provide better environmental performance than conventional vehicles and fuels, alternative solutions are still more expensive. However, with technological learning and economics of scale costs could be reduced in the future. The major conclusion is that future use of renewable energy in the transport sector is very dependent on the development of the corresponding total mobility costs and environmental performances. For environmental performance of e-mobility, the priority is to increase use of renewable energy in electricity generation. Appropriate policy measures should ensure increasing use of renewable energy sources and faster decarbonization of the road transport.

Biography

Shaqayeq Bahar Balkh University with 16 faculties, more than 430 faculty members and more than 18,000 students, is one of the largest universities in Afghanistan.

Recent Publications

1. Candan N, Tarhan L (2012) Tolerance or sensitivity responses of *Mentha pulegium* to osmotic and waterlogging stress in terms of antioxidant defense systems and membrane lipid peroxidation. *Environmental and Experimental Botany*. 75:83–88.
2. Cha-um S, Ulziibat B, Kirdmanee C (2010) Effects of temperature and relative humidity during in vitro acclimatization: on physiological changes and growth characters of *Phalaenopsis* adapted to in vivo. *Australian Journal of Crop Science*. 4:750–756.
3. Nayak S, Tiwari GN (2009) Theoretical performance assessment of an integrated photovoltaic and earth air heat exchanger greenhouse using energy and exergy analysis methods. *Energy and buildings*. 4, 888-96.

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