

Organization Short Name: VESTFORSK

Organization Type: Research Organization

Country: Norway

Fields of Activity: Emissions from transport Energy use in transport Alternative energy in transport Alternative fuels Biofuels Bio-blended fuels Life cycle assessment of transport modes Energy chain analysis.

Skills and Expertise Offered: Sustainable Mobility In order to promote sustainable mobility, there are three main strategies: efficiency, substitution and reduction. These strategies can be traced back to the Brundtland Commission report "Our Common Future " from 1987, the work that has been going on in the UN system since and the international literature in this area. The thinking behind the efficiency strategy is that we need to develop technological solutions (conventional and alternative), which makes transportation more efficient with regard to fuel consumption and emissions. The substitution strategy is directed towards how we travel, or what we call the transport pattern. The key point is that is not how much we travel, but how these journeys are being undertaken, that matters. The reduction strategy denies that the improvement in technology and composition of our journeys are sufficient. In addition to travel more efficient and develop a new pattern of transport, we must simply travel less. This also applies to transport of goods, which also must be reduced. With alternative fuels, we mean new types of fuels for cars and other means of transport, as alternatives to the conventional fuels petrol and diesel. Special focus is directed towards two types of fuel: 1. Renewable fuel produced from biological materials. This includes biodiesel, the alcohols ethanol and methanol, in addition to biogas. There is increased attention to blending of biofuels into conventional fuels, and the health and environmental problems this entails. 2. Hydrogen, which can be produced from different energy sources, such electrolysis of water and from natural gas. 3. Electric vehicles The research is directed toward understanding societal conditions for phasing in and the health and environmental implications of the various alternative fuels.

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Previous FP Projects Participated:

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Located in: GV-12-2016: ERA-NET Co-fund on electromobility | MG-2.3-2016: New and improved transport concepts in waterborne transport | MG-8.1-2016: Research, technology development and market trends for the European transport manufacturing industries |GV-02-2016: Technologies for low emission light duty powertrains | MG-1.1-2016: Reducing energy consumption and environmental impact of aviation | MG-4.4-2016: Facilitating public procurement of innovative sustainable transport and mobility solutions in urban areas