Information Days on the Research PPPs

MOVE opportunities for 2012 Calls

Hugues Van Honacker
Clean Transport and Sustainable Urban Mobility
18/07/2011
Sustainable Surface Transport including the ‘European Green Cars Initiative’. DG MOVE Initiatives.

- Clean Transport Systems (CTS) initiative

- GC.SST.2012.1-7. Demonstration of urban freight electric vehicles for clean city logistics (CP-IP)

- GC.SST.2012.2-3. Demonstration of heavy duty vehicles running on liquefied methane (CP-IP)
Clean Transport Systems Initiative

(Fuel strategy which will comprise all transport modes and provide a long-term perspective on fully substituting oil as energy source for transport)

- **European Expert Group on Future Transport Fuels**
  Created in March 2011; Report: 25 January 2011
  2011: Focus on infrastructure and implementation

- **Scenario Modelling Study**
  Launched in September 2011; Report in July 2011

- **Joint Expert Group Transport & Environment**
  Meeting 17 March 2011; Report on 22 May 2011

- **Conference on Future Transport Fuels**
  13 April 2011
  (European Sustainable Energy Week)
Alternative Transport Fuel Options

Main fuel options:
- Electricity / hydrogen ➔ electromobility
- Biofuels (liquid)

Bridge from fossil to biomass based fuels:
- Synthetic fuels (from coal, methane, biomass)

Complementary:
- Methane (natural gas and biomethane)

Supplement:
- LPG (now: from oil, natural gas; future: from biomass)
# Modal Coverage by Alternative Fuels

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The overall objective is to perform a large-scale demonstration for urban freight logistics with electric vehicle.

A single large collaborative project would be funded.

The project should take in to account the first results of projects under topic GC.SST.2011.7-5 (Urban – interurban shipments).

- Assessment of the state of the art of city freight movements and development of new governance models in order to deploy sustainable policies able to assure environmental improvements with economical sustainability

- Demonstration of urban and logistics solutions with electric vehicle fleets with the aim to validate the feasibility of logistics solutions on the basis of electric vehicle applications + required ICT for final users and fleet managers

- Assessment of impact on energy, environment, cost, urban transport and public acceptance
The project should involve cooperation between vehicles manufacturers, cities, logistics fleet operators, equipment manufacturers, utilities, and end users.

The marginal cost associated with the innovation element compared to state-of-the-art vehicles will be considered as eligible cost.

Expected Impact

- Optimisation of the urban logistics efficiency to better manage transport flows and reduce environmental impacts (noise, CO2 emissions and pollutants) as well as typical congestion in urban areas.
- Contribution to clarify the safety, economic and technical viability of electrical vehicles for clean city logistics applications.
- Input for further deployment of clean logistics systems technologies through the European Investment Bank instruments.
GC.SST.2012.2-3. Demonstration of heavy duty vehicles running with liquefied methane (CP-IP)

The overall objective is to perform large-scale demonstration in order to facilitate a broad market development for heavy duty vehicles running with liquefied methane.

A single large collaborative project would be funded.

The project should be built on the work of complementing projects such as GREEN, INGAS and any other developing similar technologies.
GC.SST.2012.2-3. Demonstration of heavy duty vehicles running with liquefied methane (CP-IP)

The main specific objectives for the project are:

1. To optimize the complete powertrain and storage system of LNG heavy duty vehicles

2. To analyse data from current pre-commercial demonstrations and to perform additional demonstrations in different environments

3. Assessment of the energy efficiency, costs, performance, environmental benefits

4. To demonstrate a LNG distribution system by road tankers as a means of distribution of LNG to refuelling stations available in different parts of Europe
GC.SST.2012.2-3. Demonstration of heavy duty vehicles running with liquefied methane (CP-IP)

- The project should involve cooperation between heavy duty vehicles manufacturers, fuel suppliers, fuel distributors and fleet operators, including trucks and buses.

- The heavy duty vehicles demonstration should be carried out in at least three Member States, and should be complementary to existing demonstrations running at national level.

- The project should include a first definition of European LNG Blue Corridors, with strategic LNG refuelling points which would help to guarantee LNG availability for road transport in a simple and cost effective way.

Expected impacts

- Oil substitution through the use of alternative fuels, namely liquefied methane (LNG).
- Reduction of GHG emission from transport using liquefied methane as fuel in heavy – duty vehicles.
- Market development for heavy duty vehicles running with liquefied methane.
- Increase of energy efficiency of heavy duty natural gas engines to the level of the current diesel heavy duty vehicle engines.
- Achievement of EURO VI standard for LNG heavy duty vehicles.
THANK YOU for your attention


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