

## 2<sup>nd</sup> Workshop on

# Running transport on hydrogen and biofuels: scenarios, policies and sustainability assessment

**Date:** June 15<sup>th</sup> 2007

**Venue:** Frankfurt Airport Intercity Hotel, Germany

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Co-organized by three EU  
funded projects from the  
6<sup>th</sup> Research Framework  
Programme:



Responsible organizer:



**TRIAS**  
**HyWays**  
**MATISSE**

## Motivation

Hydrogen is seen by many experts as the solution to the energy problem of mankind due to its widespread availability from different sources and due to its potential to provide clean carbon-free energy. This holds in particular for transport, which currently is based to about 95% on primary energy from fossil fuels. Hence, security problems of energy supply and the growing concern on climate change increase the awareness on the hydrogen and biofuels option for energy supply of transport. However, looking at mobility scenarios transport continues to be one of the fastest growing human activities irrespective of these pending problems. Obviously, this unresolved situation can bear growing tensions as it questions transport growth or neglects climate change. In fact, the task of future energy and transport policy is to reconcile transport and economic growth with the limits to growth posed by the climate system and the fossil resource availability. Hence, this workshop attempts to bring together experts, stakeholders and policy-makers both from the transport strand, from the hydrogen strand and the sustainability strand to get a closer look on the feasibility and sustainability of a hydrogen "driven" economy.

### Objectives of the workshop:

The workshop on transport and its future fueling options has a twofold objective: first, selected projects in the hydrogen and related transport-energy field, which are supported by the European Commission, present their results and conclusions for discussion and mutual learning on transport and energy scenarios, biofuels, hydrogen roadmaps and economic impacts. Second, the sustainability impact of such scenarios and roadmaps will be discussed and qualitatively assessed in a joint stakeholder process between experts, industry, science and policy makers. This constitutes the second round of stakeholder discussion since a similar workshop in 2006 and also contributes to develop an integrated sustainability assessment of such large scale transitions that would finally shape a hydrogen economy.

### Structure of the workshop:

The workshop is structured into two parts, with the first part consisting of project presentations that should conclude with results that could challenge feedback from the audience to stimulate discussions. The second part is developed as break out sessions in which small groups of stakeholders stimulated by the presented results discuss their understanding of the sustainability implications of mobility based on the future transport fueling options following a moderated discussion approach.

The workshop is co-organized by members from the European TRIAS-, MATISSE-, and HyWays-projects.

## Programme

**June 14<sup>th</sup> 2007**, 20:00h: Come together dinner invited by FhG-ISI at Frankfurt Airport Intercity Hotel

**June 15<sup>th</sup> 2007**, arrival of participants 08:30 – 9:00

Welcome and objectives of workshop	M. Wietschel, FhG-ISI	9:00 – 9:10
An European energy strategy for transport	V. Pedret-Cusco, EC-DGTREN	9:10 – 9:30
<b>I Transport forecasts and integrated energy and transport policies</b>		
<i>Moderator: M. Ball, Shell</i>		
European transport forecast until 2020 (TRANSTOOLS)	A. Martino, TRT	9:30 – 10:00
Integrated energy and transport scenarios: policies, results and impact assessment (TRIAS)	W. Schade, FhG-ISI B. Schade, EC-IPTS	10:00 – 10:45
<i>Coffee</i>		10:45 – 11:00
<b>II The road of hydrogen to fuel transport</b>		
<i>Moderator: R. Wurster, LBST</i>		
European member states visions (HyWays)	A. Mattucci, ENEA	11:00 – 11:15
European roadmap and action plan (HyWays)	S. Berger, GM/Opel	11:15 – 11:45
Prospects for a hydrogen economy: insights from model based analysis (CASCADE MINTS)	N. Kouvaritakis, NTUA – E3M-Lab	11:45 – 12:15
Assessment criteria for hydrogen lighthouse projects (HyLights)	P. Godfroij, ECN	12:15 - 12:45
<i>Lunch</i>		12:45 – 13:45
<b>III Integrated Sustainability Assessment (ISA) of hydrogen use for transport</b>		
<i>Moderator: J. Jäger, SERI</i>		
ISA-approach and stakeholder visions (MATISSE)	L. Whitmarsh, UEA	13:45 – 14:00
Integrated impact assessment of hydrogen for transport (MATISSE, TRIAS)	W. Schade, FhG-ISI A. Scholz, IWW	14:00 – 14:20
Hydrogen and mobility transition assessment - initial results (MATISSE)	B. Nykvist, SEI	14:20 – 14:35
Break-out groups: Stakeholder view on sustainability and role of hydrogen for energy and transport	All participants five groups	14:35 – 15:45
<i>Coffee</i>		15:45 – 16:00
Brief results of stakeholder discussions (MATISSE)	L. Whitmarsh, UEA	16:00 – 16:10
Round-up of workshop & closing	M. Wietschel, FhG-ISI	16:10 – 16:20
<i>Coffee can be continued...</i>		

## Organisation

The workshop aspires to stimulate interactive discussions between the various stakeholders in the transport and hydrogen field e.g. industry, researchers, policy-makers and project participants. Hence, the presentations in strands I and II foresee 15-30 minutes of presentation per project of which the last three minutes should raise challenging issues followed by 10-15 minutes of discussions. In the afternoon in strand III a group-based stakeholder process is initiated discussing the feasibility and wider sustainability questions of hydrogen use for transport. This process continues the group discussion from a previous similar workshop in February 2006.

The workshop is free of charge. Dinner on 20<sup>th</sup>, coffees and lunch are invited by the organizing projects. In case of an overnight-stay participants would have to bear the expenses of the Hotel by themselves.

The Frankfurt Airport Intercity Hotel has been chosen as venue as it offers very easy access by air, rail and road transport as well as comfortable accommodation and conference facilities.

A quota of rooms has been reserved at Frankfurt Airport Intercity Hotel for 93, 103 and 113 EUROS respectively. Please, refer to **TRIAS-workshop** for your reservation and check-in at the Hotel reception. The Hotel is at the airport about 4 km away from the terminals. It offers a free shuttle service from the airport to the Hotel. Please, check for the white buses with red fonts Frankfurt Intercity Hotel with bus stops at terminal 1 located at exits A1 and C7 and terminal 2 at exits D/E.

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Homepage: <http://www.frankfurt-airport.intercityhotel.de>

Information on the organizing projects can be found at:

TRIAS: <http://www.isi.fhg.de/TRIAS/>

HyWays: <http://www.hyways.de/>

MATISSE: <http://www.matisse-project.net/>

## Registration

For your participation at the 2<sup>nd</sup> workshop "*Running transport on hydrogen and biofuels: scenarios, policies and sustainability assessment*", please register until June 8<sup>th</sup> at Fraunhofer Institute for Systems and Innovation Research (ISI). An early registration is recommended since the number of participants is limited. For registration please contact:

Ms. Sonja Mohr:

Email: [s.mohr@isi.fraunhofer.de](mailto:s.mohr@isi.fraunhofer.de)

Fax: +49 (0) 721 / 6809 135 (Phone: +49 (0) 721 / 6809 125)

Please, provide your name and affiliation and indicate your participation at:

workshop June 15<sup>th</sup> 2007

dinner June 14<sup>th</sup> 2007

Name:

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Organization:

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Address:

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Phone:

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E-mail:

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