

IEA Hybrid and Electric Vehicles

NEWSLETTER - Volume 1, Issue 2

May 2000

A word from the Chair

Urs Muntwyler

Chairman

We would like to continue our progress during this first year of the second phase. I am looking forward to our Cyber Conference which will span the last week of May and the first week of June (May 29 – June 9). We intend to communicate on two important issues, our target audiences and our strategy. As you know, our new objective for phase II is to produce and disseminate objective information about hybrid and electric vehicles to a variety of target groups in our participating countries. At the Cyber conference, we would like to obtain more information about who they are and what their needs are. We shall ask each member of the Executive Committee and each Operating Agent to inform us to whom they send the Annual Report and the Technical Reports, and how we can make these reports more useful to their readers. I would ask you to start thinking about this now, so that we can have a good exchange later this month. We shall also present a draft strategy document for your comments and approval.

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Deployment Strategies discussed in Glattbrugg

Sigrid Kleindienst

Operating Agent

Twenty four experts participated in the first meeting of Annex VIII on Deployment Strategies for the market introduction of alternative vehicles. The workshop took place on February 24,25, 2000 in Glattbrugg, near Zurich. The focus of this Annex is to determine how

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What is the role of Government in the deployment of hybrid and electric vehicles??? (Annex VIII will provide the answer)

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Hybrid Vehicle Report Expected in June 2000

Progress Report on the Hybrid Vehicle Annex.

Richard Smokers

Operating Agent

The fifth expert meeting of Annex VII on Hybrid Vehicles took place on April 6 and 7 at the NREL offices in Washington, D.C. One of the main subjects of discussion was the "Overview Report" which is scheduled for completion in June of this year. A lot of work has gone into this report, which will be the main output of subtask 1. The main chapters are as follows:

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Hybrid Vehicle Report Expected in June 2000

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- Hybrid drive train configurations
- Hybrid vehicles for different applications
- Components
- World-wide programmes and projects
- General trends world-wide
- Vehicle data

The contents of the report are derived from a database which has been especially set up for this Annex. It contains a concise overview of existing programmes in the field of hybrid vehicles and of the state-of-the-art of this technology in terms of existing prototypes, demonstrators, and more or less commercially available vehicles. The participants collected the data on programmes and vehicles, and submitted them to the Operating Agent for inclusion in the data base and in the report. The report will be available only to the participating countries.

Important Topics in Hybrid Vehicles

Subtask 2 analyzes and discusses important hybrid vehicle topics using a structured five step approach:

1. Selection of relevant topics
2. Preparation of discussion papers
3. Discussions at expert meetings
4. Collaborative assessments and revisions of discussion papers
5. Preparation of topic reports.

One participant coordinates the work for each topic, prepares the discussion paper, collects information from others and writes the report. The following topics are being studied:

- Definitions of hybrid vehicles
- Comparative assessment of the energy consumption of different HEV configurations using ADVISOR
- Alternative motor fuels and hybrid vehicles
- Test methods and procedures for hybrid vehicles
- Energy consumption and emissions of hybrid vehicles
- Analysis of the trend from charge depleting to charge sustaining hybrids
- Cost aspects of hybrid vehicles

The "Overview Report" will contain chapters on these topics.

Second phase of the work programme

The second phase of the work programme will start in July, and will continue the work of both subtasks. New information will be entered into the database and will be used to update the Overview

Report on a continuous basis. At the last experts meeting it was decided to study the following important topics under sub-task 2:

- HEVs and regulations
- Market introduction scenarios for HEVs
- Emissions of HEVs
- Analysis of the role of hybrid propulsion in achieving 80 mpg or 3 l/100km
- Benchmarking HEVs coming to the market worldwide
- Assessment of the energy consumption of hybrid trucks using ADVISOR
- Assessment of the energy consumption of hybrid buses using ADVISOR
- Unregulated factors influencing energy consumption and emissions from the perspective of HEVs
- Hybrid versus non-hybrid configurations for fuel cell electric vehicles

Basic Facts about the Hybrid Vehicle Annex:

Participating Countries	Belgium (VITO) Finland (VTT) France (INRETS) Japan (JARI) the Netherlands (TNO) Sweden (KFB) USA (DoE & NREL)
Operating Agent	TNO Automotive – part of the Netherlands' Organisation for Applied Scientific Research.
Start and End date	Phase 1: July 98 – June 00 Phase 2: July 00 – June 03
Expert meetings held to date	5
Last Expert meeting	April 6,7, 2000, Washington, D.C.
Next Expert meeting	Sept. 11,12, 2000, Sweden (KFB)

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Deployment Strategies discussed in Glattbrugg

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to attain the goals related to the market introduction of alternative vehicles. Many Governments have large programmes to introduce alternative vehicles in cooperation with other stakeholders in their country. They are interested in evaluating the effectiveness of various promotion measures and in exchanging experience of what works and what doesn't.

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Participants described experience with the European UTOPIA project, the Japanese LEVO programme, the American electric vehicle programme for fleet owners, and the Swiss project in Mendrisio. The workshop developed a structured approach to collecting the necessary information, and then to analyze it within the four subtasks. Subtask 1 will concentrate on fleet tests and develop recommendations for Government officials, fleet test operators, and automobile and infrastructure manufacturers. Subtask 2 will concentrate on Government support and regulations, it will define the role of government and assess the effectiveness of various types of incentives. Subtask 3 will define the role of various stakeholders such as local governments, utilities, gas companies, electric vehicle associations, etc. and elaborate recommendations for them. Subtask 4 will address market introduction programmes themselves, share and analyze information, and make recommendations on best practises.

Innovative Organization of the Annex

This Annex broke new ground because it is implemented jointly by the Advanced Motor Fuel Implementing Agreement and the Hybrid and Electric Vehicle Implementing Agreement. It has two Operating Agents, which sounds like duplication but it is not because each has their separate tasks. The four subtask leaders are ENEA (Italy), INTERFACE (Switzerland), EnEN (Sweden) and AMOR (Austria) respectively.

Progress

The formal collection of information will take place in two ways, through a questionnaire and through case studies. ENEA is developing the questionnaire, and the case studies will be selected at a meeting of Operating Agents and subtask leaders.

Spring 2001 workshop in Japan

The 2nd workshop will be in Japan in the Spring of 2001, and will be organized in conjunction with an IEA “round-table” event on the subject of “Marketing Electric Vehicles”. There will be an expert meeting for Annex participants, as well as a “public event” to

discuss basic issues and topics such as “What is a successful implementation measure for alternative vehicles?”

Basic Facts about the Deployment Strategies Annex

Participating Countries	Austria Belgium Finland Italy Japan Sweden Switzerland United States
Interested Countries	France United Kingdom
Operating Agents	Engineering Office Muntwyler for the Hybrid and Electric Vehicle I/A INNAs for the Advanced Motor Fuel I/A
Start and End Date	January 2000 – December 2004
Expert Meetings held to date	1
Last Expert Meeting	February 24,25, 2000 Glattbrugg, Switzerland
Next Expert Meeting	Spring 2001, Japan

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Congratulations to NEDO on the Annex I final report

Frans Koch
Secretary

The Information Exchange final report for phase 1 was received in February. It is a very impressive document, which resumes the data collected throughout the first five years, and is also very attractively presented with many colour photos and graphs. The preface of the report lists all the persons in many different countries who have worked together to make the report possible. However, NEDO who has provided the leadership, and CRIEPI which has done the data collection, analysis, and production of the report deserve special congratulations. ◆◆

Expert Meeting Includes Seminar

Iwane Shiozaki
Operating Agent – NEDO

The idea to have a symposium in combination with an Annex I Experts Meeting was first suggested by our hosts in Korea for the 12th Expert meeting. It proved to be a big success, and it will be done again during the upcoming meeting in Finland. One day will be set aside for a seminar, which will include presentations from participants in the Implementing Agreement and also from Finnish and Russian organizations. ♦♦

The 1999 Annual Report

Frans Koch
Secretary

Almost all the contributions for the 1999 Annual Report have now been received, and the work of editing the report and printing it will be done during the second half of May and during June. ♦♦

The Strategy Document

Urs Muntwyler
Chairman

As was mentioned in the Chairman's message, we intend to make the Strategy Document one of the subjects of the Cyber Conference. We shall circulate an up-dated draft document prior to the end of May. ♦♦

CALENDAR OF EVENTS:

"VIRTUAL WORK WEEK" OR "CYBER CONFERENCE"

MAY 29 – JUNE 9, 2000

ADVANCED MOTOR FUEL EXECUTIVE COMMITTEE MEETING

JUNE 7-9, 2000 – TORONTO, CANADA

FUEL CELL CONFERENCE IN BERLIN

JUNE 28,29, 2000 – BERLIN, GERMANY

IEA FUEL CELL ANNEX WORKSHOP

JUNE 30, 2000 – BERLIN, GERMANY

COORDINATING COMMITTEE FOR TRANSPORTATION (CCT)

JUNE 30, 2000 IN BERLIN

ANNEX 7 – EXPERTS' MEETING

SEPTEMBER 2000 IN SWEDEN, TO BE HOSTED BY KFB

EVS-17

OCTOBER 15-18, 2000 – MONTREAL, CANADA

ANNEX 1 – EXPERTS' MEETING

OCTOBER 19, 2000 – MONTREAL, CANADA

HYBRID AND ELECTRIC VEHICLE EXECUTIVE COMMITTEE MEETING

OCTOBER 20,21, 2000 – MONTREAL, CANADA

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