



ExCo 47

Implementing Agreement for Advanced Motor Fuels

47th Meeting of the Executive Committee

20-23 May 2014, Copenhagen, Denmark

Meeting Summary

The 47th Meeting of the AMF Executive Committee was held 20 – 23 May 2014 in Copenhagen, Denmark. There were 27 participants, including Chile as Observer. The main topics for the meeting were the request for extension of the Implementing Agreement and the discussion of ideas for new Annexes. Furthermore, there was intense information exchange with two other Implementing Agreements: Bioenergy, and Hybrid and Electric Vehicles (HEV).

Extension of the Implementing Agreement

The AMF vision is defined as follows:

The vision of AMF is a sustainable transportation system that uses advanced, alternative, and renewable fuels; has reduced emissions of GHGs and air contaminants; and meets needs for personal mobility and the movement of goods on a local and global scale.

AMF contributes to the achievement of this vision by providing a solid basis for decision making (information and recommendations) and providing a forum for sharing best practices and pooling resources, internationally.

At the meeting, some last changes were made to the End of Term Report and the Strategic Plan, and the Self-assessment against CERT criteria was carried out. All documents were unanimously approved. Following an earlier unanimous decision to request extension of the AMF Implementing Agreement, this request was submitted to the EUWP shortly after the meeting by the AMF Chair Sandra Hermle.

Strategy Subcommittee

Olle Hadell, Swedish Delegate and head of the Strategy Subcommittee has retired from his position in the Swedish Transport Administration and also from AMF. Magnus Lindgren takes over as head of the Strategy Subcommittee.

Ideas for new Annexes

Seven out of twelve active Annexes are scheduled to be closed in 2014. As to stimulate new Annexes, significant time during the meeting was attributed to the discussion of new ideas. The following topics were identified:

- non road mobile machinery
- advanced fuels for plug-in hybrids
- unburnt methane in natural gas engines
- technology options for public transport, and adapted driving cycles for evaluation of best technology choice for buses
- real driving emissions and fuel consumption
- outlook report on fuels and powertrains, including e.g. maritime, not a technical report but how different countries see it
- advanced fuels in advanced engines
- investigation of fuel saving additives
- use fuels as excess energy storage; transportation and storage of renewable energy carriers

Some of these topics found significant support, and two new Annexes were started:

New! Annex 50: Fuel and Technology Alternatives in Non-Road Engines

New! Annex 51: Methane Emission Control

Collaboration within the Energy Technology Network

Three Implementing Agreement ExCo meetings (AMF, Bioenergy, HEV) happened to take place in the same week in Copenhagen, which offered the opportunity for joint activities and part-time participation in each other's meetings.

AMF and Bioenergy experts participated in a workshop on "Infrastructure Compatible Transport Fuels". Presentations provided an overview on transport policies and case studies of Sweden and Brazil, highlighted new developments in biofuel production technologies, and described end-use aspects of biofuels in various engines.

AMF experts also met with HEV experts to discuss the new Strategic Plans and areas of possible collaboration. Discussions were continued over a joint dinner.

The new desk officer for AMF, Tali Trigg, who is also desk officer for HEV, participated in part of the ExCo meeting. David Baxter, Taskleader of Bioenergy Task 37 joined the AMF meeting when Magnus Lindgren reported on the contribution of AMF to a Task 37 brochure on methane for transportation.

Membership

Chile and Uruguay are preparing for joining AMF as Contracting Parties.

Next Meetings

ExCo 48: week of 27-31 October 2014 in Jerusalem, **Israel**

ExCo 49: 10-14 March 2015 in Gwangju in conjunction with the ISAF conference, **South Korea**

Work Program

Annex 28: Information Service & AMF Website (AMFI) & Fuel Info

The website had 6,500 visitors in the past year. The Fuel Information System brings significant traffic to the website, primarily through its pages on LPG, butanol, methane and methanol.

Annex 35: Particulate Measurements: Ethanol and Butanol in DISI Engine

Testing has been completed and a draft final report was prepared. The Annex was prolonged until 31 October 2014. China withdraws from Annex 35-2 and moves its contribution to Annex 44.

Annex 38: Environmental Impact of Biodiesel Vehicles - Phase 2

The final report is complete, and results will be presented at an SAE conference. Canada moved its contribution to Annex 49. Annex 38 will be closed by written procedure by the end of June.

Annex 39: Emission Performance of HD Methane Engines - Phase 2

Annex work is complete and the final report is ready. The results should urgently be made available to decision makers. Quite some further research issues arise from the project, in particular with respect to unburnt methane emissions. The Annex is closed.

Annex 42: Toxicity of Diesel Exhaust and Particles from IC-Engines

Health impacts of diesel exhaust and particles are confirmed with no doubts. The Operating Agent will continue to collate related information with the help of AMF Contracting Parties.

Annex 43: Performance Evaluation of Passenger Car, Fuel, and Powerplant Options

Annex 43 is prolonged until October 31, 2014, to enable incorporating all test results into the final report.

Annex 44: Research on Unregulated Pollutants Emissions of Vehicles Fuelled with Alcohol Alternative Fuels

All tests have been carried out, but analysis is still ongoing. The Annex is prolonged until end of 2014. Switzerland cancels its task sharing participation in Annex 44 due to timing reasons.

Annex 45: Synthesis, Characterization and Use of Hydrotreated Oils and Fats for Engine Operation

First results were presented. No changes were proposed, and no decisions required.

Annex 46: Alcohol Application in CI Engines

The Annex facilitated staff exchange from DTU to VTT. A seminar for discussion of Annex results together with the Combustion Implementing Agreement is planned for December 2014. AMF supports this activity with 2,000 € from the Common Fund.

Annex 47: Reconsideration of DME Fuel Specifications for Vehicles

Work on the ISO standard is progressing. Japanese and Korean participants met with Volvo and ETC for discussion in March 2014. More face to face meetings are needed, e.g. with CATARC.

Annex 48: Value Proposition Study on Natural Gas Pathways for Road Vehicles

Data is being collated from the Annex participants to run the simulations (with the GREET modelling tool). Work is running a bit late in time, but no changes required yet.

Annex 49: COMVEC – Fuel and Technology Alternatives for Commercial Vehicles

Currently most of the task sharing participants are performing vehicle testing (WP2). The measurement phase might be delayed, but no changes required yet..