

ADVANCED MOTOR FUELS

Technology Collaboration Programme



WHO WE ARE

Advanced Motor Fuels (AMF) is one of the actors putting transport on track to sustainability and reducing the environmental impacts from transport. Established in 1984, AMF has a strong international network that serves to foster collaborative research, development, and deployment (RD&D) and to provide unbiased information on clean, energy-efficient, and sustainable fuels and related engine and vehicle technology.

OUR VISION

Advanced motor fuels, applicable to all modes of transport, significantly contribute to a sustainable society around the globe.

OUR MISSION

The mission of AMF is to advance the understanding and appreciation of the potential of advanced motor fuels towards transport sustainability. We provide sound scientific information and technology assessments to facilitate informed and science-based decisions regarding advanced motor fuels at all levels of decision-making.

HOW TO JOIN AMF

Participation in one of the IEA's technology collaboration programs, such as the AMF Technology Collaboration Programme (TCP), is based on mutual benefit to the program and to the interested newcomer.

Each contracting party is represented by a delegate and an alternate delegate. The respective [contact details](#) are listed on the AMF TCP website.

The Secretary will provide details on the AMF TCP and invite newcomers to attend an Executive Committee (ExCo) meeting as observers. By attending or even hosting an ExCo meeting, interested newcomers will become familiar with AMF (www.iea-amf.org).

Please visit output products like the [AMF Annual Report](#), [Project Reports](#), and [Fuel Information](#) on the www.iea-amf.org website, and follow the AMF on [LinkedIn](#) and [Twitter](#).

MOST RECENT PROJECTS (ANNEXES / TASKS)

Work within AMF is carried out in individual projects (Annexes / Tasks). Detailed information on each of the projects can be assessed on the AMF website (www.iea-amf.org).

[Task 28](#) Information Service and AMF Website

[Task 56](#) Methanol as Motor Fuel

[Task 57](#) Heavy Duty Vehicle Performance Evaluation

[Task 58](#) Transport Decarbonization

[Task 59](#) Lessons Learned from Alternative Fuel Experience

[Task 60](#) The Progress of Advanced Marine Fuels

[Task 61](#) Remote Emission Sensing

NEW Wear in Engines Using Alternative Fuels

NEW Sustainable Aviation Fuels

CONTACT

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Technology Collaboration Programme on
Advanced Motor Fuels



PARTICIPANTS

Currently there are 16 contracting parties from 14 countries from around the globe. Japan has designated three contracting parties.



PROJECT HIGHLIGHTS

Task 58 – Transport Decarbonization

Renewable fuels, in addition to all forms of electric vehicles, can make an important contribution in decarbonizing the road transport sector, especially in the short and medium term, and for all modes of transport. Further information is available on the Task 58 webpage at iea-amf.org/content/projects/map_projects/58.



Task 59 – Lessons Learned from Alternative Fuel Experiences

This project investigated:

- Which factors determine whether the market launch of alternative fuels and vehicles will succeed or not?
- Can success factors and pitfalls, lessons, and recommendations for better action be deduced from the experiences of different countries in the last decades?
- How can people involved in the development of market introduction measures be supported?
- Task 59 analyzed particular case studies for each participating country. Results can be found at iea-amf.org/content/projects/map_projects/59.

AUSTRIA	CHINA	FINLAND	JAPAN	SWEDEN	USA
Low blend biofuels	Ethanol	E10	Low blend biofuels	Reduction obligation	Low & high level blends of ethanol
E10		E85		High blend biofuels and biogas	Methanol and FFVs
Natural gas/biogas		Drop-in components for diesel	Natural gas	E85	Natural gas
		Biogas			

STRATEGIC WORK PLAN 2020-2024

Internationally, there are several fuels-related organizations. However, these organizations are solely focused on a specific fuel or group of fuels — for example, alcohols, natural gas, liquid petroleum gas, and synthetic fuels. In addition, there are organizations promoting electro-mobility. In the field of transport fuels, AMF is the only internationally recognized, technology-neutral clearinghouse for fuels-related information. Download the [Work Plan](#) from the AMF website at www.iea-amf.org > [About AMF](#).

Fuels

- Performance evaluation (energy efficiency, GHG, air quality) of new fuels and technology platforms
- Focus on fuels substituting diesel (including substitution of marine fuels)
- (Pre) studies on emerging fuels (electrofuels, ammonia, alternative aviation fuels)

Vehicles

- Real driving emissions, including deterioration of emission performance over distance
- Efficiency of heavy-duty vehicles (with possible spill-over towards non-road machinery)
- Range extender options for EVs

System analysis

- Comparison of different energy carriers for transport applications (timeline, impact, cost)
- Assessment of drop-in types of fuels vs. fuels requiring new vehicles and technologies and new infrastructure

Communication and dissemination

- Provide information on AMF publications on the AMF website
- Provide information on advanced motor fuels on the AMF website and through the AMF newsletter
- Organize topical workshops to exchange information and deepen understanding