

The future use of energy in heavy duty transport in view of the targeted sector decarbonization

Thursday 05 November - 16:30 - 18:00 CET

Concept Note

Transport currently accounts for a quarter of the EU's greenhouse gas emissions and this figure continues to rise as demand grows. The European Green Deal seeks a 90% reduction in these emissions by 2050. Different transport modes have different demands, and the respective decarbonization options also differ in their readiness and applicability. Any decarbonization option however will have to address criteria such as sustainability, market availability, infrastructure requirements and usability per mode.

The Heavy-Duty Vehicles sector is particularly hard to decarbonize. Although the electrification of transport – most notably in the passenger cars segment – is progressing well over the next years, the demand characteristics of the HDV sector do not allow for a rapid electrification of that sector as well. The Heavy-Duty Vehicle industry, today relies almost completely on internal combustion engines. For long-haul road transport, where fuel consumption is high, alternatives to efficient and reliable diesel engines are currently lacking. Developing alternative solutions will continue to be a challenge for the next decade and beyond. As there is no silver bullet solution to the ultimate decarbonization target, a mix of technologies should be employed in a complementary way.

The session will help to better understand the future use of energy in heavy duty transport and will explore ways for a swift integration of all available options in the path of the targeted sector decarbonization. Key issues pertinent to (a) fuel related legislation (relevant to the FQD, RED II and Alternative Fuels Infrastructure Directive, CO2 standard legislation) and (b) the required R&I priority actions to support HDV sector decarbonization will be discussed under the perspective of the relevant supply (HDV OEM) and demand (end users) industry.



This session is organized by the ART Fuels Forum: www.artfuelsforum.eu