Virtual Workshop on Sustainable Road Freight Transport 2021

Technologies for transport decarbonisation: Options, impacts and uncertainties

9th - 11th November 2021

The Centre for Sustainable Road Freight[1] would like to invite interested parties to a Virtual Workshop on Sustainable Road Freight Transport.

During the past year we have seen increasing investments in competing propulsion technologies that could support the route to zero carbon for road freight transport, including amongst others hydrogen, battery electric and catenary based systems. As these technologies compete for largely the same transport market, the question arises whether preparing for them all at the same time is necessary or useful. An important reason that these investments are currently running in parallel is the immense complexity and multi-dimensionality of the problem due to:

- uncertainty in technological progress of individual technologies,
- suitability of technologies for various logistics markets,
- lock-ins with other energy producing and consuming sectors,
- unclear government policies about framework conditions,
- unknown development of carbon prices,
- differences between pathways of individual countries across the world,
- international standards and agreements,
- acceptance and suitability of different evaluation methods,
- decision making processes about investments,
- acceptance by end users (cost vs. benefit)
- wider system compatibility and impacts (in particular, electricity supply)

This year's workshop will try to consolidate the current knowledge and arrive at pathways for alternative technologies, focusing on the necessary circumstances that technologies would require to perform as needed to achieve climate change goals. Contributions about progress in other areas in relation to sustainable road freight are welcome, to help define the context that these technologies will operate in.

[1] www.csrf.ac.uk

We invite presentations on ways to improve the sustainability of freight transport, in particular related to the factors shaping the battle between propulsion technologies:

- Scenarios for competitive technologies
- Evaluation methods and criteria for energy and transport systems investments
- Logistics - technology interactions
- User preferences towards alternative technologies
- Standardization of technologies and logistics operations
- Infrastructure for technologies
- Influence of vehicle design choices
- Policy analysis answering wicked problems
- Covid-19 influences on technology pathways

Keynote Speakers

Karthick Athmanathan, *Ashok Leyland, Indian Institute of Technology, Madras*; **David Green,** *University of Tennessee;* **Phil Greening,** *Heriot-Watt University*; **Zofia Lukszo,** *TU Delft*; **Bob Moran,** *UK Department for Transport*; **Jan Nylander,** *Scania*; **Cobus Rossouw,** *Imperial Logistics*; and **Richard Smokers,** *TNO*

Submission of Abstracts

Participants are invited to submit abstracts presenting research investigating the sustainability of the freight transport sector. Abstracts focusing on the workshop themes described above are particularly welcome. Abstracts should focus on recently completed research, or research in progress.

Abstracts of max 1000 words should be submitted by **19th July 2021.** Notifications of acceptance for presentations will be sent out by **2nd August 2021**. Please submit your abstract by sending it to **eh301@cam.ac.uk**.

International Scientific Committee

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Contact

If you have any questions or would like further information, please email eh301@cam.ac.uk