Energy Efficiency within Transport. Country breakdown of electrification, modal shift, and power-2-X

organized by the sEEnergies and Aalborg University

9:00 - 10:00 AM

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As a response to the European Commission's 2050 decarbonization goals, sEEnergies uniquely considers all aspects of the Energy Efficiency (EE) First Principle. By applying it in sectors and markets, country-by-country and grid-by-grid, and by combining temporal and spatial analyses, sEEnergies will develop an innovative, holistic and research-based EE-modelling approach.

The aim of sEEnergies is to quantify and operationalize the potential for energy efficiency in buildings, transport, and industry. The project goes beyond state-of-the-art science-based knowledge and methods, as it combines sectorial bottom-up knowledge with hour-by-hour modeling of the energy systems and spatial analysis in the EU.
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At this webinar, Hamza Abid and Morten Elle from Aalborg University will present the European energy efficiency potentials as well as some country-specific results in the transport sector including passenger vehicles, heavy-duty trucks, shipping, and aviation. Two major themes for energy efficiency in the transport sector will be presented: (1) Quantification of savings through energy-efficient urban development. This is based on a scenario where mobility is provided through enhanced proximity to destination, modal shifts from energy-intensive to energy-efficient modes of transport, and reducing the movement of persons and goods. (2) Exploratory transport technology scenarios outlining the utilization and allocation of energy-efficient technologies such as direct electrification through battery electric vehicles and e-roads, as well as indirect electrification such as P2X and electro fuels. A series of transport scenarios with the aim to reduce the demand for transport and related energy consumption and GHG emissions are presented as well as some country-specific aspects. The presentation will give a broad understanding of the economic and social impacts of implementing the Energy Efficiency First Principle in the European transport sector.

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