








## Draft terms of reference and taskforce member biographies





<b>Terms of Reference</b>	
<b>Background and Purpose</b>	<p>In 2019, in the context of a global climate emergency, the Scottish Parliament enacted legislation setting the world's most ambitious targets for tackling climate change. In addition to setting targets to reduce greenhouse gases by 75% by 2030 and 100% by 2045, the legislation specifies that the transition must be Just across the economy, for businesses and for society.</p> <p>The transport sector is the largest emitter of greenhouse gases in Scotland, and emissions from HGVs account for 12% of Scottish road transport greenhouse gas emissions (as of 2019). Across the haulage and logistic sectors there is increasing interest in zero-carbon fleet transition with a number of operators actively engaging in trialling battery electric and hydrogen trucks. There are several challenges, not least the early stage of zero emission HGV technology, the greater upfront capital cost of new technologies in comparison to diesel models, the current limitations of zero emission fuel supply and lack of zero emission fuelling infrastructure. Overcoming these challenges is unlikely to be achieved through traditional ways of working or by one sector alone.</p> <p><b>In this context, the taskforce will work over the period of one year to:</b></p> <ul style="list-style-type: none"> <li>• <b>agree a vision for zero-emission trucks in Scotland;</b></li> <li>• <b>co-design the solutions for transitioning the road haulage and logistics sector to fully zero emission vehicles;</b></li> <li>• <b>set out a collaborative pathway with clear actions for all parties, that collectively will achieve the vision.</b></li> </ul>
<b>Scope and Remit</b>	<p>The remit of the taskforce is to identify and co-design creative and practical solutions to maximising opportunities and tackling any hurdles in relation to:</p> <ul style="list-style-type: none"> <li>• Technology (battery-electric, hydrogen fuel-cell and other potential zero-emission technologies; depot considerations)</li> <li>• Charging infrastructure (electric, hydrogen or other zero emission fuel) including requirements in rural, island and urban areas; shared infrastructure; on-route charging</li> <li>• Costs, including understanding total costs of ownership and economies of scale</li> <li>• Finance, including suitable financial structures, products and guarantees</li> <li>• Operator engagement, skills and knowledge</li> </ul> <p>Encouraging modal shift to rail is the subject of existing activity and therefore out of scope.</p>




<p><b>Commitment</b></p>	<p>Taskforce members will commit to attending all meetings as far as possible to build relationships and shared understanding. Delegation will be minimised.</p> <p>All members will be active participants, bringing proposals and solutions forward from the organisation they are representing, and ensuring their organisation takes forward agreed actions. Members will be champions for the taskforce and the pathway once it has been co-designed, raising awareness and encouraging action among peers.</p>
<p><b>Organisation</b></p>	<p>The taskforce will sit under the auspices of the Zero Emissions Mobility Industry Advisory Group. It will meet every 6 to 8 weeks throughout 2022-23. The deputy Chair will be Stuart Grieg (Director of Low Carbon Economy, Transport Scotland).</p> <p>The formation of working groups to take forward specific tasks or investigations at a more operational level may be required, in which case taskforce members may choose to delegate to appropriate staff/members.</p> <p>Secretariat, including fact-finding and provision of information, will be provided by Transport Scotland.</p>



## Members of the Zero Emission Truck Taskforce


<p>Ballard Motive Solutions</p>	<p>Ben Todd</p> 	<p>Recently acquired by Ballard Power Systems, Arcola Energy is now Ballard Motive Solutions (BMS), a UK-based systems engineering company specializing in hydrogen fuel cell powertrain and vehicle systems integration. BMS works with vehicle manufacturers, fleet operators and authorities to accelerate the adoption of zero-emission fuel cell mobility. BMS has a manufacturing, installation and service facility at the Michelin Scotland Innovation Parc, Dundee, a service facility in Glasgow, rail operations in Bo'ness and engineering operations in Coventry and London.</p>
<p><b>British Vehicle Rental and Leasing Association</b></p>	<p>Catherine Bowen Senior Policy Advisor</p> 	<p>The BVRLA is <b>the UK trade body representing the demand side of the automotive industry. Its members offer vehicle rental, leasing and fleet management services.</b></p> <p>BVRLA members own and operate a combined fleet of four million cars, vans and trucks and are responsible for 50% of all new vehicles that are registered in the UK per annum.</p> <p>BVRLA members are committed to supporting the decarbonisation of road transport and recognise the critical role they have to play in accelerating the uptake of zero emission transport.</p>
<p>Hitachi-EU</p>	<p>Mike Nugent Head of EV, Hitachi Social Innovation Business</p> 	<p>Hitachi works with fleet operators to design, deliver and finance a transition to zero emission fleet with vehicles, batteries, infrastructure, digital fleet and charging management solutions and training.</p> <p>In return, the user pays a simple set of prices per month, vehicle or mile over the life of the contract to cover the entire service.</p>

<p>HV Systems</p>	<p>Jawad Khursheed Chief Executive</p> 	<p>HVS design and develop hydrogen-electric vehicles for the commercial vehicle market. The company works with leading technology integrators, component suppliers and vehicle prototype design houses to deliver unique solutions to de-carbonise the medium and heavy duty commercial vehicle sectors</p>
<p>James Jones &amp; Sons</p>	<p>David Leslie Joint Managing Director</p> 	<p>James Jones &amp; Sons Ltd. is one of the UK's leading suppliers of home-grown timber.</p>
<p>Logistics UK</p>	<p>Seamus Leheny Policy Manager</p> 	<p>Logistics UK's members operate more than half of the UK's HGV fleet. They represent all of logistics, with members from the road, rail, sea and air industries, as well as the buyers of freight services such as retailers and manufacturers whose businesses depend on the efficient movement of goods Logistics UK has a Route to Net Zero campaign, member commitment and information hub, and a dedicated decarbonisation consultancy team.</p>
<p>W H Malcolm Ltd</p>	<p>Gavin Summers Group Fleet Engineer</p> 	<p>W H Malcolm is a leading independent provider of third party logistics services, focusing on Intermodal Solutions. The company offers fully integrated Road, Rail, Warehousing, and Bonded Warehousing services throughout the UK.  They are committed to operating in a sustainable, environmentally considerate and socially responsible manner.</p>

<p>Menzies Distribution</p>	<p>Greg Michael CEO</p> 	<p>Menzies Distribution serves 31,000 locations a day across the UK, delivering 31million items per week with 4,200 vehicles. We consolidate deliveries across the Highlands and Islands, acting as a 'carriers' carrier', providing consolidation and delivery for a range of other operators.</p> <p>We introduced a dedicated electric fleet and intend to expand it at pace – far ahead of regulatory deadlines. To enable this fleet, we've established a large commercial charging infrastructure in the UK. Zero-emission rural deliveries include the Scottish Highlands &amp; Islands</p>
<p>NEoT Capital</p>	<p>Aurelien Achard E-Mobility Director</p> 	<p>NEoT provides innovative and effective financing in the areas of zero emission mobility and clean off-grid energy.</p>
<p>Road Haulage Association</p>	<p>Chris Ashley Policy Lead - Environment and Vehicles</p> 	<p>The Road Haulage Association has 8,500 members, ranging from owner operators to those with fleets of over 1000 vehicles. Between them, they account for well over 100,000 commercial vehicles currently operating on UK roads. They campaign on behalf of members to ensure their voices are heard.</p> <p>The RHA has developed an <a href="#">Updated vision for Decarbonising the commercial vehicle fleet</a>.</p>
<p>John G Russell</p>	<p>Kenneth Russell Sales &amp; Marketing Director</p> 	<p>Russell is a leading transport and logistics provider with 250 vehicles, 14 depots and UK rail terminals servicing some of Europe's largest organisations.</p> <p>They recently signed a memorandum of understanding with hydrogen fuel-cell truck manufacturer Hyzon Motors to facilitate the deployment of fuel cell electric vehicles in the UK. Hyzon and Russell will work together to provide</p>

		vehicle sales, leasing, and service support for fleet owners and operators transitioning off fossil fuels in the UK.
ScottishPower	<p>Barry Carruthers</p> <p>Hydrogen Director</p> 	<p>ScottishPower is part of the Iberdrola Group, one of the world's largest integrated utility companies and a world leader in wind energy.</p> <p>ScottishPower is the first integrated energy company in the UK to generate 100% green electricity. Their focus is on wind energy, smart grids and driving the change to a cleaner, decarbonised future through electrification and green hydrogen. Over £6m is invested every working day to make this happen.</p>
SSE plc	<p>Neil S Arnott</p> <p>Director of Logistics</p> 	<p>SSE plc are a leading generator of renewable electricity and one of the largest electricity network companies in the UK. They develop, own and operate low carbon infrastructure to support the zero-carbon transition. This includes onshore and offshore wind, hydro power, electricity transmission and distribution grids, and efficient gas-fired generation, alongside providing energy products and services for businesses.</p>
Scottish Wholesale Association	<p>Colin Smith</p> <p>Chief Executive</p> 	<p>The Scottish Wholesale Association (SWA) is the official trade body for Scotland's food and drink wholesaling sector. Members supply products to over 5,000 independent convenience stores, 30,000 catering, hospitality, tourism and leisure businesses and the majority of public sector establishments including hospitals, schools and prisons.</p> <p>Working with members, they have developed the 'Decarbonisation of the Wholesale Sector' project. Phase 1 focussed on vehicles and fleets, calculating and reporting on the sector's 'Fleet Emissions Baseline' and the production of a 'Fleet Emissions Roadmap' to Net Zero.</p>

<p>Society of Motor Manufacturers and Traders</p>	<p>Sukky Choongh Environmental Manager – Air Quality and Ultra Low Emission Vehicles</p> 	<p>The SMMT works to support and promote the interests of the UK automotive industry at home and abroad. Working closely with member companies, SMMT acts as the voice of the motor industry, promoting its position to government, stakeholders and the media</p> <p>Vehicle manufacturers have made significant investments in zero emission vehicle technology across all vehicle types. HGV manufacturers are committed to ensuring their vehicles are fossil fuel free by 2040 and zero emissions where the use case allows.</p>
<p>Transport Scotland</p>	<p>Stuart Greig Director – Low Carbon Economy</p> 	<p>The Low Carbon Economy Directorate is at the centre of the Scottish Government's commitment to net zero, alongside an equally bold agenda to secure Scotland's place as global destination for innovation and investment in sustainable, zero emission mobility.</p>
<p>Transport Scotland</p>	<p>Frances Pacitti Director – Aviation, Maritime, Freight and Canals</p> 	<p>Aviation, Maritime, Freight and Canals Directorate has responsibility for issues affecting Scotland's international connectivity, and connectivity for our island communities.</p>
<p>Unite the Union</p>	<p>Willie Thomson Regional Officer</p> 	<p>Unite's Road Transport Commercial, Warehousing &amp; Logistics sector covers driving and non driving staff in the biggest companies in the industry. Unite lead negotiations to improve terms and conditions for thousands of members. The sector organises across all areas of the industry from chilled distribution to car delivery. They represent drivers in all of the major logistics companies and also represent warehouse and depot workers.</p>

Volvo Group	<p>Neil Park</p> <p>Regional Managing Director</p> 	<p>The Volvo Group is one of the world's leading manufacturers of trucks, buses, construction equipment and marine and industrial engines. It has set Science Based Targets to ensure that new products are 100% fossil free by 2040. They are also working collaboratively with other major manufacturers in strategic joint ventures to develop and introduce high-performance charging networks and fuel cell propulsion systems.</p> <p>The acceleration towards net-zero is well under way with medium duty battery-electric trucks in production now, heavy duty range available from September 2022 and hydrogen fuel cell vehicles planned for the second half of this decade.</p>
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