



The UK MOD Defence Equipment and Support (DE&S), Land Equipment Vehicle Support Futures team are driven to improve the Army's equipment support, and to investigate emerging technologies that could increase both the efficiency and operational capability for the users.

The team are currently delivering the Technology Demonstrator 6 (TD6) programme on behalf of Army Headquarters, with the objective of investigating and demonstrating the benefits of vehicle hybridisation, and how this could achieve potential improvements to the existing in-service fleet, as well as inform future equipment procurement.

DE&S has contracted for the initial phase for the delivery; conversion of 3 UK MOD vehicles to hybrid powertrains to demonstrate basic hybrid electric drive and electrical export power capabilities. These will be subject to significant trialling and testing at Millbrook Proving Ground. The vehicles selected are the Man SV logistics vehicle, Jackal reconnaissance vehicle, and Foxhound Patrol vehicle, allowing a wide range of military capabilities to be covered.

The programme includes a comprehensive study into the current and future status of vehicle hybrid/ electrification technologies in the UK. This has the objective of understanding achievable performance levels and functionality beyond the initial, limited demonstrators.

Following on from TD6, the UK MOD may wish to further develop the demonstration vehicles to refine the newly integrated electrification subsystems or optimise the existing legacy vehicle systems for use with the new powertrain. Current areas of interest include fuel cells, battery chemistry, battery management systems, vehicle-to-grid, and traction motors.

In support of this, the TD6 team wish to engage with relevant UK industrial suppliers of developing or production-ready hybridisation in the areas of:

- Systems,
- Sub Systems,
- Current and Emerging Technology.

This information will build a body of knowledge within DE&S to support further studies and future phases of this programme and wider procurement decisions.

Industry is invited to engage with the TD6 team to showcase their products and technologies, outlining the purpose and status of product - concept, design state, Technology & Manufacturing Readiness Levels (TRLs & MRLs). The TD6 programme shall run over the period Mar 2020 to Jul 2021, with industry engagements planned until March 2021.

The published Request for Information can be found at [GB-Bristol: Technology Demonstrator 6 Hybrid Electric Drives \(TD6\)](#)

All data and information will be treated as commercial in confidence in line with DEFCON 632 Third Party Intellectual Property – Rights and Restrictions.

Expressions of interest should be sent to clifford.holden255@mod.gov.uk

In issuing this Request for Information, DE&S is not committing to carry out any procurement in relation to the requirements stated, however, there may be further TD6 development phases. Non-participation will not preclude any organisation from submitting a tender in any future competition.