

Energy optimisation using a whole vehicle simulation model

Case study overview

When a major tier one supplier was looking to showcase the capabilities of its new e-axle, it engaged HORIBA MIRA to optimise the product and carry out a series of comparative tests to demonstrate its unique capability.

HORIBA MIRA sourced a donor vehicle and benchmarked it with its original axle.

Engineering team deployed: A core team of five consultants in the UK, working alongside up to 25 additional colleagues in the UK, Japan and China.

Through a simulation-led approach, it optimised the vehicle with the new e-axle before it was re-evaluated and compared.

The process yielded impressive results, including a 21.3 per cent improvement in low temperature all-electric range (AER).

