

PROJECT SNAPSHOT



@FutureBEV

- 6 PARTNERS
- 100 JOBS CREATED/SAFEGUARDED
- HIGH DENSITY POWER ELECTRONICS

Accelerated Technologies for Future Battery Electric Vehicles (@FutureBEV) will ensure competitive powertrains in function and costs and enable UK technology transformation to zero emissions.

Partners:

BMW, CIL, CSA Catapult, Lyra, McLaren Applied, University of Warwick

CSA CATAPULT ROLE

MODULARISED HIGH-DENSITY POWER ELECTRONICS



Fostering a new UK supply chain for sub components and system capability for the future of electromobility

Aim: The aim of this project is to develop a UK supply chain that can support the transition of BMW to SiC-based power electronics in their future generations of BEV (Battery Electric Vehicle). The project will also help anchor BMW activity in electrification in Oxford.

- This project lays the foundation for 100kW/l inverters, significantly exceeding the APC 2035 and further industry targets
- @FutureBev will develop next generation EV technology and a new supply chain solution for sub components used in electric vehicles
- If successful, there is an opportunity for this concept to be adopted for future i-series BEVs by BMW from 2024

PROJECT BENEFITS



Lower vehicle level CO2, contributing to the NetZero goal



Both volume and performance to drive improved efficiency



Reduced weight and better use of storage