

Overview

The Automotive Transformation Fund (ATF) is an initiative to support the industrialisation at scale of an electrified automotive supply chain in the UK. As the automotive sector goes through a major disruptive technology transition and is rapidly embracing electrification there is a need to focus the investments in order to create a sustainable and competitive supply chain. This new funding stream will support both R&D and Capital projects within the automotive industry.

Road to Zero

The scale and pace of change for the automotive industry in the UK is unprecedented. With this change comes real opportunity, matched with real challenge. Building on the ground worked laid by the Industrial Strategy, the ATF represents the next step in that strategy, Industrialisation at scale. It is designed as a co-ordinated approach to securing investment in key technologies, and their supply chains, in the UK.

Protecting the Future

The UK is currently a leader in both automotive technology and in attracting foreign direct investment – this provides a clear opportunity for the UK to be at the forefront as the sector invests an estimated \$300bn over the next 5 to 10 years. In addition to this, supporting the development of an electrification supply chain is a key component in ensuring the automotive sector's ability to successfully trade, as the UK exits the EU.

Key Investment areas

Given the scale of the opportunity, we have narrowed our focus on key investments that will 'anchor' their respective supply chains and help create a sustainable and competitive supply chain for the future.

Since its inception, APC has been actively involved in cutting edge R&D projects within the automotive industry. Through these projects we cemented our relationships with Industry. In 2016 APC took stewardship of the Automotive Council Roadmaps delivering updated versions in September 2017. From this foundation, we have continued to develop insights driven by our unique position between industry and government.

Based on this and subsequent research, APC has developed the below list of target key investments that we believe are required in order to create a sustainable and competitive supply chain in the UK.

Target Investments*
Batteries
○ Cathode Materials & Manufacturing
○ Anode materials & Manufacturing
○ Electrolyte
○ Cell assembly components
○ Cell manufacturing
○ Module manufacturing
○ Battery pack components
○ Battery pack assembly and Test
Motor & Drives
○ Magnet Materials & Manufacturing
○ Electrical steel Materials & Manufacturing
○ Electrical machine assembly
○ Drive Line Components
○ Assembly and Test into complete Drive Unit
Power Electronics
○ Wide Band Gap Semi-conductors
○ Sensors
○ Passives
○ Power Electronics Assembly
Fuel Cell
○ Fuel Cell Stack Assembly
○ MEA
○ Catalysts
○ Bipolar Plates
○ Storage Tanks
○ Air Handling Systems
○ Balance of Power
○ Gas Diffusion Layer
○ Fuel Delivery (where specifically required for development purposes)
Recycling
○ E-motors
○ Batteries
○ Fuel Cells
○ Power Electronics

**This is not an exhaustive list but indicates the starting position. As the fund matures and the initial investments begin to secure elements of the Supply chain, this list is likely to evolve.*

Economic Impact

As the automotive industry looks to transition away from ICE technology and into Zero Emissions technologies, the ATF will look to protect and build on the current 160,000+ manufacturing jobs across the automotive sector.

How to get involved

If you believe you are able to support us on our mission to support the industrialisation of an electrified automotive supply chain in the UK we'd love to hear from you. Whether you want to check your eligibility for funding support or are curious about how you can be involved, we've created a short form to guide you to the right person who can help

<https://www.apcuk.co.uk/funding-tool/>

The open competitions for funding will run using an 'Expression of Interest' Application (EOI) Successful EOIs will be invited to Stage 2 to complete a Full Application. Once submitted, each Full Application will undergo BEIS, DIT and Innovate UK/BEIS Capital Fund team assessment in parallel.

R&D Applications will be assessed and managed on the Innovation Funding System (IFS) online portal, while capital applications will be assessed and managed through the BEIS Capital Fund Team. APC will support applicants through this process.

The EOI funding calls will run monthly while Full Applications will be assessed as needed. Applicants should note that the funding process is competitive, and only the best applications will receive funding.