Providing the Green Credentials to your business case

Automotive Assistance Programme: “Open for Business Seminar”

11th March, 2009

Robert Evans, CEO, Cenex
Background to Cenex

- Formed in 2005 as the UK’s first Centre of Excellence for Low Carbon and Fuel Cell Technologies for automotive applications
  - Role to assist the UK automotive supply chain to develop a competitive position
  - Emphasis on exploiting the potential of new technology through the early market entry phase

- Aims
  - Map technology development and communicate trends
  - Mobilise UK supply chain
  - Facilitate public and private sector procurement
  - Influence the creation and deployment of fleet scale demonstrators
  - Flagship organisation for promotion of UK activities and act as a focus for projects requiring international cooperation
Cenex Runs Programmes and Projects for National Government and Government Agencies

Technology Strategy Board
Driving Innovation
Supporting Low Carbon Vehicle Innovation

- **Research**
- **R&D**
- **Demonstration 1st Prototypes**
- **Demonstration Small Fleet**
- **Deployment**

**EPSRC**
- RDA Grants for R&D
- RDA sponsored tailored Projects\Programmes

**BERR & DfT**

Technology Strategy Board Low Carbon Vehicle Innovation Platform
What does Green Mean?

• If vehicle-related, how will the vehicle use:
  – ensure compliance with or exceed European regulations on vehicle carbon emissions and air quality
  – deliver lower carbon emissions; for example, through innovation in vehicle design or engine technology.

• If manufacturing, how will the production process:
  – reduce carbon emissions
  – reduce the use of hazardous substances
  – improve resource efficiency
  – use renewable energy sources or minimise heat loss
  – assist more efficient water use
  – Introduce water-based/low solvent emission paint technologies;
  – increase recycling
King Review highlighted role of new technology in decarbonising road transport.
Low Carbon Automotive Technologies

- **Light weight Materials**
  - Light weighting via composites and non ferrous metals

- **Energy storage and release**
  - Braking: batteries, supercapacitors, flywheels
  - Exhaust gas energy recovery

- **Powertrain efficiency enhancement**
  - Advanced engines, battery electric, hybrid and fuel cell powertrains
  - Energy efficient mechanical and electric drivelines

- **Combustion and fuel processing systems enabling operation on renewable energy feedstocks**
  - Green electricity
  - Hydrogen
  - Bio-fuels (liquid and gaseous)
  - Synthetic (Fischer-Tropsch) fuels
Conclusions

• Cenex to provide technical assistance to BERR to assess industry submissions to the Automotive Assistance Programme

• Green credentials are a key part of any business case
  – From manufacturing through to vehicle use

• Role to provide objective assessments both for BERR and for industry submitting proposals (via guidance and feedback)
Thank you for your attention

www.cenex.co.uk
www.lowcarbonfuelcellktn.org.uk