SCRATCH Conference 2009

Microcab Industries Ltd.

Presented by

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Sept 2009

Microcab Industries Ltd - status

An SME with strong R&D focus

- Relies on central and regional government funding
- Produced a series of prototype vehicle designs: zero emission, low carbon, for urban use.
- Current vehicles are hydrogen fuel cell powered
- Aim to take zero emissions vehicles into large niche production in next few years
- Vehicles are built by the Microcab Consortium: RDM Coventry Delta Motorsport, Silverstone Microcab

Supported by Coventry University

Microcab H4 prototype

Taxi variant

- Accessible to wheelchair user
- 7.5m turning circle
- Flat floor for easy access







2005 fuel cell **H4 taxi**

University of Birmingham fleet

- 5 fuel cell vehicles for UB campus
- Funding from AWM Science City
- Hydrogen fuel station installed
- Green hydrogen from biomass
- 2 year trial funded by BERR under HFCCAT programme
- Test bed UK in action!





Fuelling the Microcab

- Permanent H2 filling station on Campus.
- 4 minutes to fill vehicle
- Hydrogen from sustainable source
- Zero emissions water is the only by product





Working with Royal Mail

- Van variant for postal service duties – working daily at UB
- Royal Mail has plans to introduce hydrogen fuel vehicle fleet
- Wants to decouple from fossil fuels







2008 fuel cell H4 van

New progammes:

CABLED -

Coventry & Birmingham Low Emission Demonstrator

- 10 Microcabs in UK national project
- Includes Mercedes Smart, Mitsubishi, Tata, JLR, LTI
- 1 year trial on public roads
- Microcab only fuel cell vehicle



New progammes -

AWM Niche Vehicle R&D programme

Ideal source of development funding for SME like Microcab

Need support to achieve commercialisation after long R&D path

Niche Vehicle Programme will:

- Provide chassis and supply chain for up to 2000 vehicles p.a.
- Deliver car, van and taxi variants
- Aim for Royal Mail specification vehicle
- Accept fuel cell or EV drivetrain for increased market share – H2EV

H2EV concept

- Hydrogen and electricity are interchangeable
- Fuel cell and pure battery are both electric vehicles

Choice of drivetrain

- Depends on duty cycle
- On refuelling time
- On location

Automotive industry is currently going through most radical change since invention of the motor vehicle

Change equals opportunity!

- Thanks to:
- AWM

University of Birmingham

Coventry University

DECC

Thank you

