



**Affordability - Reliability - Performance**



**Andy Haddon – Business Development Director**

**Affordability - Reliability - Performance**

# Company profile

- Based in Consett
- Founded in 2007
- Sourcing internationally
- Upgrade programme
- Network of reliable suppliers
- Expanding the range of vehicles



**Affordability - Reliability - Performance**

# Development Programme



collaboration application innovation dissemination

input of knowledge leads to output of thought

University of Sunderland  
institute for automotive & manufacturing advanced practice

Digital Factory Engineering Fellows GATE Projects Research

the input of knowledge



The Centre for Design Research



design network north

think design



one NORTH EAST



Project part financed by the European Union and European Regional Development Fund 2007-13

Solutions for Business

Endorsed by UK Government



Newcastle University



Newcastle Science City  
TRANSFORMING TOMORROW



GATESHEAD COLLEGE



Durham University

# OUR VEHICLES



# OUR VEHICLES



# OUR VEHICLES



Our range of E-cycles

# In partnership



# In partnership



- Product development
- Develop markets



**Andy Haddon – Business Development Director**

**Tel - 44(0) 1207 502599**

**E-mail – [sales@elecscoot.co.uk](mailto:sales@elecscoot.co.uk)**

**[www.elecscoot.co.uk](http://www.elecscoot.co.uk)**

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# ONE LCV Programme

## Skills

- Universities MSC LCV
- **AMAP**
- **Gateshead College Service Training** SEV & AA
- Centre for Electric Drives
- **Centre For Design at Northumbria Uni**

## Infrastructure

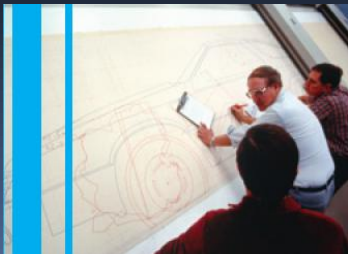
- Leading city
- "J" Cities
- National spec
- Charging roll out,
- Commercial partnering
- Renewable leverage Wind & PV
- DFT Vehicles Commercial Vehicles Programme

## R & D

- R & D LCV Test track
- R & D regional facilities
- TSB & Regional fund
- £30m over 5 years min
- Transport Operational Research Group TORG
- Power Electronics, Drives and Machine Group
- NAREC power distribution
- CPI, Fuel cell & Bio fuels

## Manufacturers

- Nissan EV
- Ford / Smiths
- **AVID**
- Comesys
- Hiltech
- Liberty
- Cummins
- CAT
- Komatsu
- Explorer
- Scott racing
- SEVCON**



# Manufacturers

- Nissan EV
- Ford / Smiths
- AVID
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- Hiltech
- Liberty
- Cummins
- CAT
- Komatsu
- Explorer
- Scott racing
- Plus others

## Nissan



## Ford - SEV



## LTI - SEV



## Elecscoot



## Optare



## AVID & Partners

### LDV Vans and Minibuses



### Proton cars

Genetic silver  
(Metallic)



### Optare Light Public Buses



MMI  
Sports  
cars

## Jumbotron



## Caterpillar



## Komatsu



## SEVCON



## Comesys



## Liberty



## Explorer



## Cummins



## Hiltech



# R & D

# LCV R & D Test Track & Facility

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# TORG

# CPI – Fuel Cells & Bio Fuels



# Power Electronics & Drives

# PTEC Centre



Areas of Expertise

- Applications**
  - Aerospace and Automotive
  - Renewable Energy and white and brown goods
- Power Electronics**
  - Thermal Management
  - Silicon Carbide
  - Novel Converter Topologies and Design
- Drives**
  - Fault Tolerant Drives
  - High speed drives
  - Sensorless Control and Drive Control Methods
  - Self tuning and adaptive control
- Machines**
  - Novel SRMs and TFMs
  - Iron Powdered and Soft Magnetic Composites
  - Virtual machines and systems
- Others**
  - Low Cost Machines, Drives and Power Converters
  - Methods of machines and converter production

Newcastle University  
Power Electronics, Drives and Machines Research Group

# AMAP

