



e-mobility

European Union  The European Regional Development Fund

**The Interreg IVB
North Sea Region
Programme**

*Investing in the future by working together
for a sustainable and competitive region*



Our 'Plug' for Electric Vehicles: Newcastle City Council's approach to EV's

Towards sustainable transport planning in Newcastle: the contribution of e-mobility

Why electric vehicles?

UK govt backed plan to develop the region into a so-called "low-carbon economic area for ultra low-carbon vehicles"

- North East Plugged in Places valued at £7.9M up to 2013
- UK Technology Strategy Board investment to trial new electric vehicle technologies valued at £10.7M up to 2013
- Nissan, Sunderland – battery plant and production of the Leaf 2012/13

CHARGE 
YOUR CAR
PARK + PLUG + RECHARGE



Tyne and Wear Low Carbon Vision

- To become a low-carbon region enabled by renewable energy, intelligent networks and design
- To enable and encourage car owners to make the mode shift from conventional internal combustion engine vehicles to low carbon vehicles



- Tyne and Wear is a metropolitan county in the North East of England
- Consists of 5 metropolitan boroughs: South Tyneside, North Tyneside, Newcastle, Gateshead and Sunderland

<http://news.bbc.co.uk/1/hi/business/8507888.stm>

The Role of Newcastle City Council

- Help shape the growth in use of electric vehicles for the citizens and users in and around Newcastle
- Act as a demonstrator for electric vehicles / infrastructure
- Provide charging point infrastructure in and around Newcastle
- Develop expertise for installing and maintenance across the North East
 - Preferred Supplier Status
 - Lead Delivery Partner for “Plugged in Places”

Infrastructure Pilot

- Pilot electric vehicle infrastructure technology – 32 charging points
- Developing a workforce trained in installation and maintenance
- Establishing an electric vehicle charging infrastructure platform



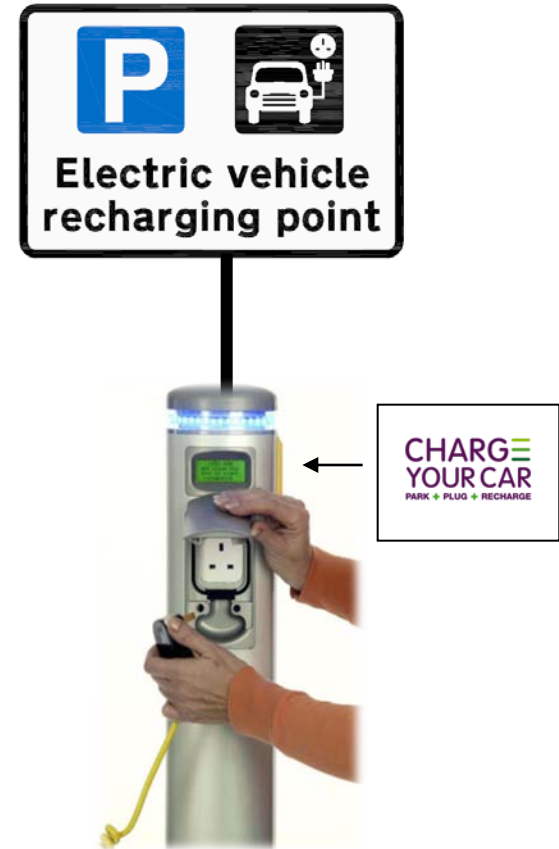
1 of the charging points in use at the Civic Centre

Charging point installation on Clayton Street



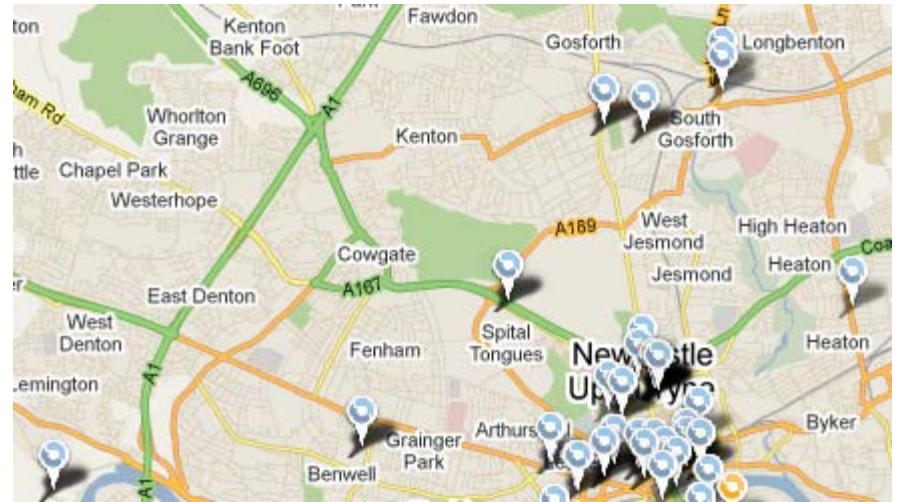
Host of a Post: Newcastle City Council

- Identified locations with Parking Services and TRO and sign authorisation
- Approved 'free' parking and electricity in all locations
- Building our infrastructure platform



Infrastructure Platform in Newcastle

- 47 public charging points on highway
- Additional provision on private land such as Universities
- Mixture of on street and off street locations
- Continue working with partners through development to secure additional infrastructure – public and domestic



www.chargeyourcar.org.uk

Technical Services: Lead Delivery Partner

- Procure, survey, install and commission charging points across the North East
- Provide maintenance for charging points
- Commercial opportunities outside Plugged in Places



Early Adopter: Newcastle City Council



Avid Q V (1) Parking Services



Mitsubishi iMiev (2) Pool Car Fleet



Nissan Leaf (1) Pool Car Fleet

- 25 electric vehicles in our fleet
- Building on quick wins:
 - Low Carbon Vehicle Procurement Programme
 - Switch EV TSB Trials
 - Incorporate into fleet operations
 - Incorporate into business travel through pool cars

Fleet Applications



Smith Eddison Transit (4)

Cenex funding via Low Carbon Procurement Programme

Used by City Build and Sustainability Unit



Electric Refuse Collection (5)

Lease arrangement

Environmental Services



E-Z Go (9)

Lease arrangement

Parks and Leisure application



Vectrix Scooter (2)

City Wide Service

EVADINE Switch EV Trial

- Part of the Technology Strategy Board's Ultra Low Carbon Vehicle Demonstrator Programme
- Ultra low carbon vehicles - sub 50g CO₂ / km
- 44 vehicles on public trial from 2010 - 2013
- Integration with North East infrastructure roll out
- 'Hard' & 'soft' data acquisition & analysis
- Five consortium partners



Commonwheels EV Car Club Trial

- Social enterprise operator appointed in 2009
- 7 year contract for car club operation across the city
- 8 locations in place
- 5 additional locations in 11/12
- 1 EV car club trialled via TSB



Going forward

- Continue to act as a demonstrator for electric vehicles and associated infrastructure
- Monitor uptake of charging point installations to help guide future investment
- Secure domestic charging infrastructure through development management
- Promote electric vehicle uptake through our travel planning activities
- Investigate other low carbon vehicle opportunities

Any questions?

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