

Nottingham City Council

Road to Zero: Case Study

Matt Ralfe – Innovation & Change Manager

Agenda

- Journey
- Roadblocks
- Moving forward

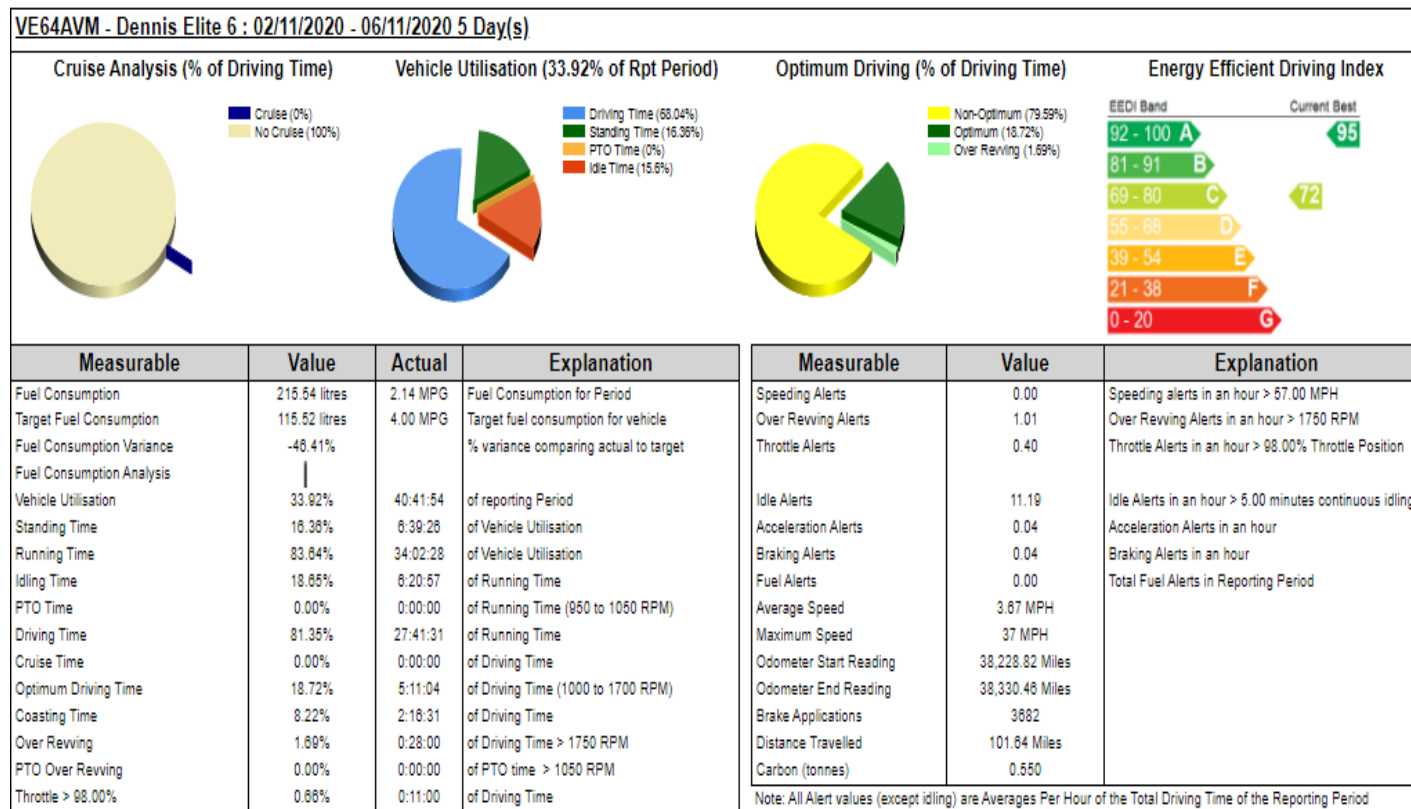


Background

- **7.1t CO₂** emissions per capita p/a
- **28,000 – 36,000 deaths** p/a in the UK from poor air quality, **400** in Nottingham
- Commitment for **20%** of our fleet to be ULEV by 2020
- Our aim is to **set an example** for local fleet operators by **tackling the roadblocks** to converting to a low emissions fleet
- Diesel inflation - **£200,000** p/a

Journey – Reducing Emissions

- Latest emission standards on diesel
- Route optimisation
- Fuel additive
- Telematics – driver behaviour
 - Dennis Connect
 - Masternaut Connect



Journey – Removing Emissions

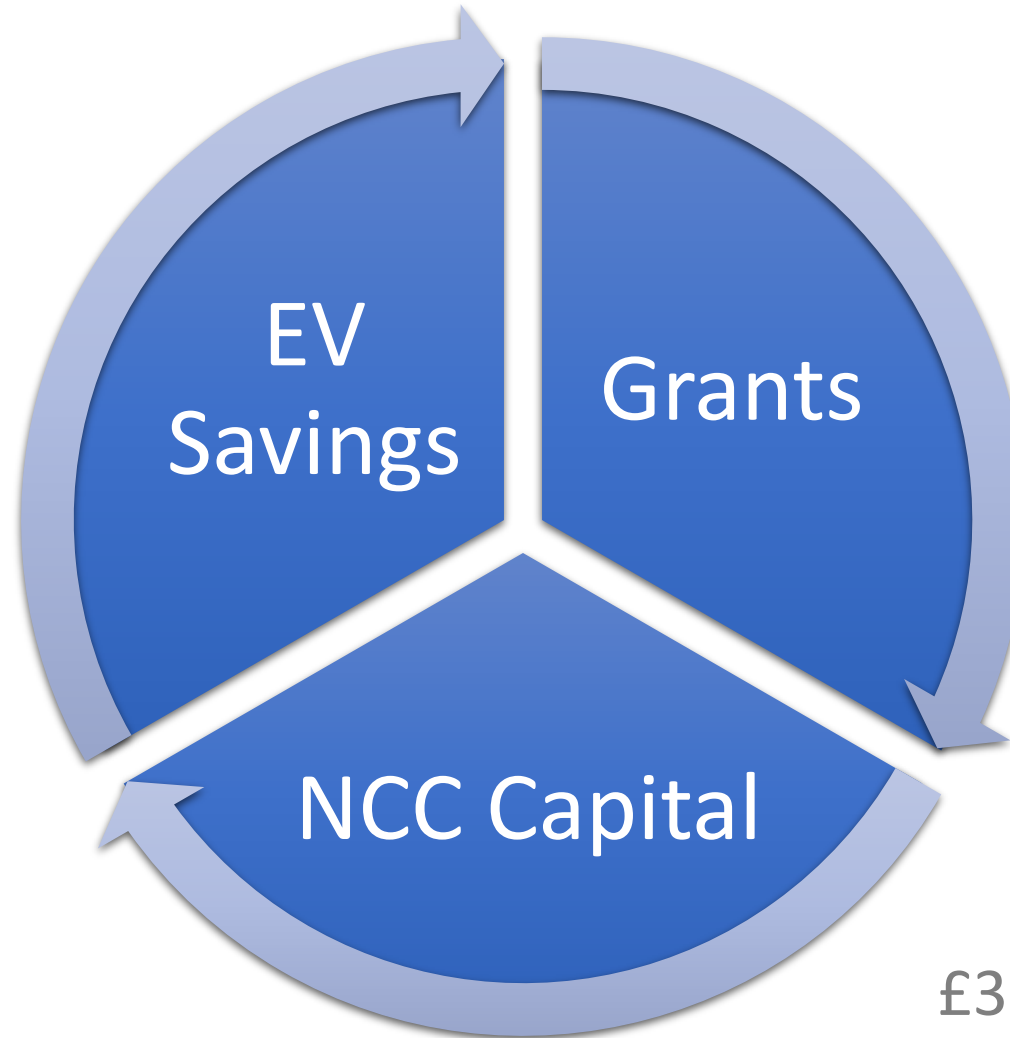
142 ULEVs in service in Nottingham City Council – 30%

- 75 Vans
- 38 Cars
- 14 Cage Tippers
- 8 Sweepers
- 5 Minibuses
- 2 RCVs



Roadblock – Funding

- £0.43m p/a
- £3.5m over lifetime



- £0.45m Office for Low Emission Vehicles
- £1.5m Joint Air Quality Unit DEFRA
- £0.65m Future Mobility Zone

£3m p/a total

Roadblock – Lack of Available Technology



Roadblock – Securing Driver Buy In

- Research
- Buy based on data
- Start small – buy in
- EV training



Roadblock – Maintenance

- Mechanic training and tools
- Exclusively ULEV garage
- Encourage potential EV buyers and mechanics



Roadblock – Infrastructure

- Plan ahead
- 90 smart chargers across 4 sites
- Load management
- Bay management
- New substations



Moving Forward

- Carbon Neutral 2028
- Electric handheld plant
- ULEV Grey Fleet
- More HGVs
- Substantial eRCV fleet
- EVE Project – 40 EVs on order
- Charger installs for other LAs
- Public sector charging network



Moving Forward - ULEV Framework



The **benefits** of using our framework

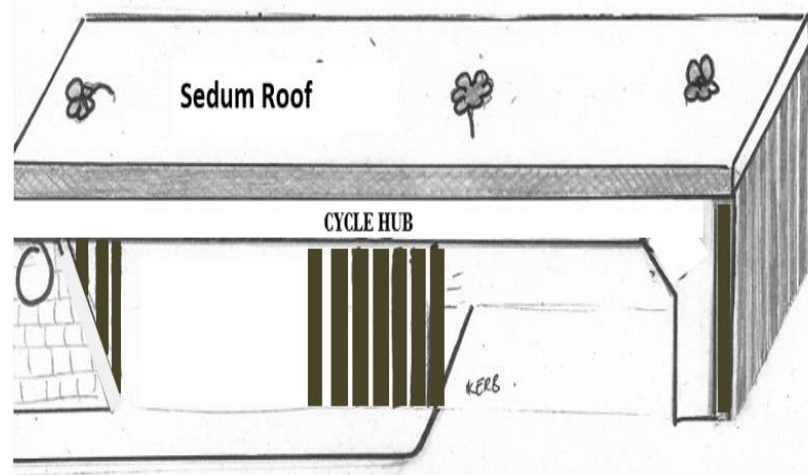
- ✓ Expert, independent advice from a public sector body who are already well on their way to having an electric fleet
- ✓ Get a free consultation from us before you start on electrification – we have a multi-award winning fleet electrification strategy
- ✓ Initial help in getting the business cases completed including addressing political, financial and operational concerns by using our own, real-world data
- ✓ Reduced lead times and purchase prices
- ✓ Security that you are going to get a vehicle which is right for the job
- ✓ Increase local authority buying power
- ✓ Specifications which have been tested in a local authority environment
- ✓ Aftercare including advice on integrating the EV in to your operation
- ✓ Advice and even install of electric vehicle charge points
- ✓ Creates a network of EV authorities with shared lessons learned
- ✓ Allows a direct order to be placed or run a mini-competition to ensure the buyer gets the right vehicle for their locality's needs
- ✓ Maintenance advice from our experienced, IMI Level 4 qualified EV Mechanics

Our suppliers include



Moving Forward – “Depot of the Future”

- Vehicle to Grid
- Battery storage
- Micro grid
- PV canopies
- Bike, ebike, ecargo bike, escooter storage and repair



EVE Project: info.nottinghamcity.gov.uk/workplace-travel-service/expression-of-interest

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