



ETE Select Committee

HCC's Programme of Electric Vehicles and Energy Reduction Initiatives

15 January 2019

**Presentation by
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Property Services**

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Agenda Item 9

Energy and Carbon Reduction Programme

- A successful programme commenced in 2010 which is exceeding its targets
- Carbon Management Strategy approved by Cabinet in 2010
- Phase 1 : 20% reduction by 2015 (23% achieved)
- Phase 2 : 40% reduction by 2025 (Achieved early by 2018)

Energy Cost Savings Achieved (For County Council and Schools)

- £30 million total since 2010
- Carbon Tax Charges reduced by £385,000
- Carbon consumption reduced from 54,200 to 32,400 tonnes since 2010

How has this been achieved?

- Reduced number of office buildings (Workstyle Programme)
- Streetlighting modernisation programme
- Boiler Controls and other modern technology
- Photovoltaic roof installations
- Energy Performance Programmes (building improvements)
- Major LED lighting replacement programme

Financial and Skills Strategy

- Up-front capital investment of around £5 million delivering long term revenue savings
- Prioritise programmes that have a sustainable pay-back – around 5 to 7 years
- Take advantage of Government interest free loans – Salix
- Energy purchased in bulk to get best prices
- Property Services specialist team – all funded from the programme investment

Looking Forward

- Further LED lighting programmes
- Further EPP programmes
- Battery Technology testing project
- Schools EPP delivery programme – self-funded and at no cost to them
- Electric Vehicle Charging and Fleet replacement



Property Services and HTM Driving Transition to Electric Vehicles

- Background
- Electric Vehicle Trend
- Vehicle Suitability
- HCC Activity

Background

- Government Policy
- Benefit of EV Vehicles
- Existing HCC EV Charge Points
- HCC Existing Vehicle Fleet
- Grey mileage

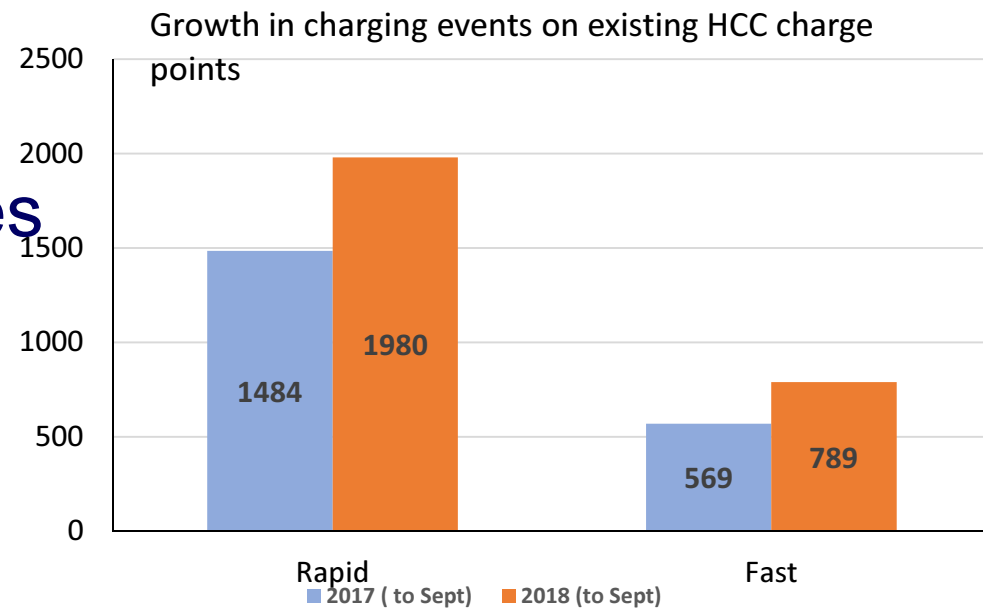


Electric Vehicles and Charging - Trend

- EV Charging Growth in Hampshire

- ULEV Vehicle Sales

- Public Sector Pressures



Vehicle Suitability

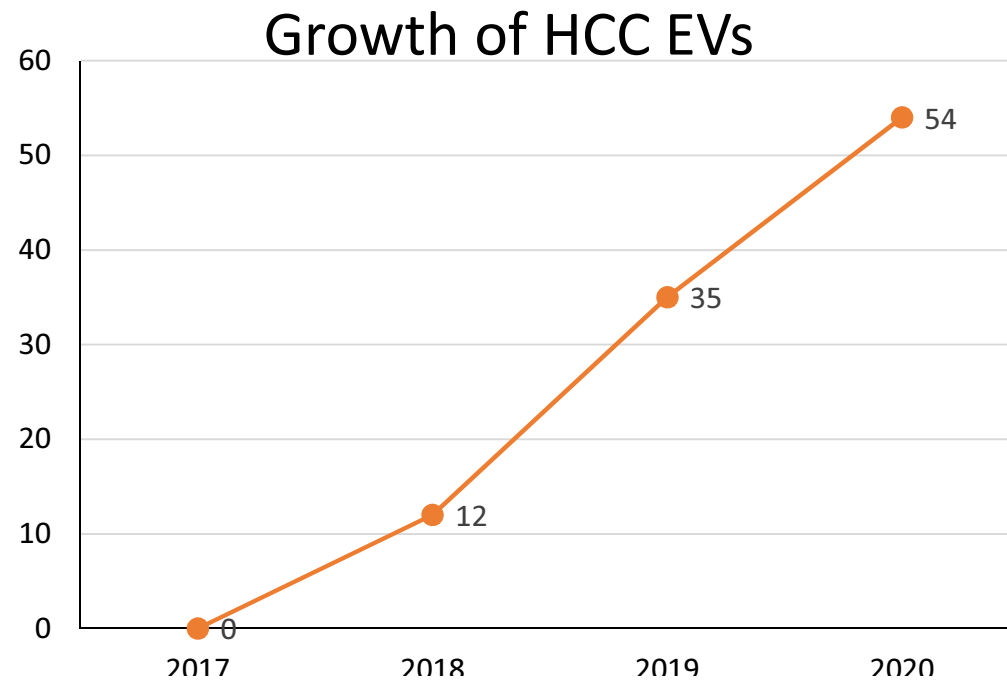
- Journey length
- Business purpose
- Market availability



HCC Activity

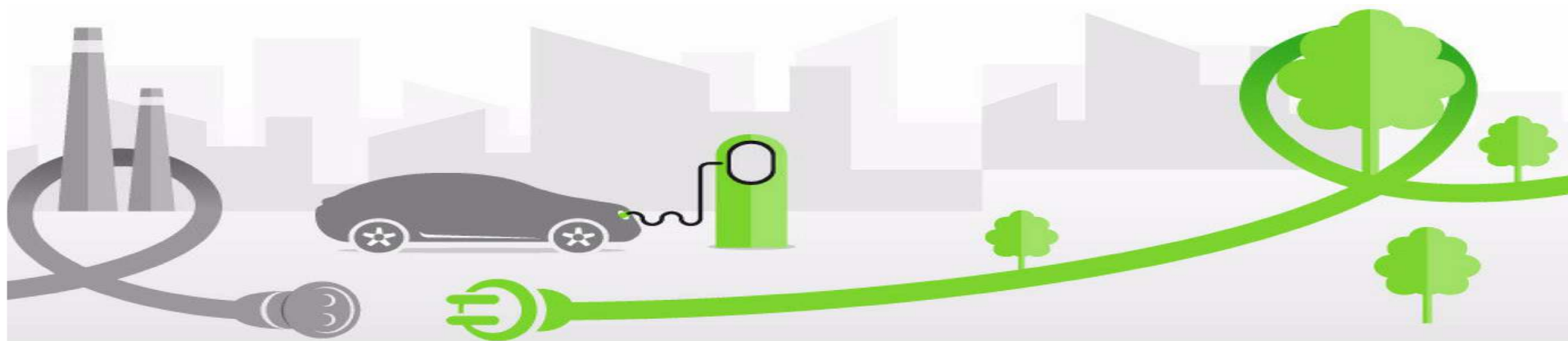
Hampshire Transport Management - Fleet

- Fleet vehicle transition in progress
- How many vehicles?
- Vehicle replacement programme
- Savings



Central Southern Regional Framework

Property Services



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- Charging network required
- CSR EV Framework:
 - Feasibility
 - Installation and deployment
 - Service and Management
 - Adoption of existing charging points
- For Fleet, staff and public
- 30 organisations signed up to use it from Devon to East Sussex and up to Oxford, 1 County outside of Framework area willing to use it - Hertfordshire
- Value £27m

EV Charging

- How it works, and who is paying
- Public charging
- Staff
- Initial £4m external supplier funding



- HCC Fleet – chargers in hubs, depots, etc
- EVs currently used by 8 services:

Asbestos Team	Engineering Consultancy
Adults Services	HTM
Countryside	HC3S
ETE Highways	Corporate H&S Team



On-street challenges

- Parking Spaces
- Signage
- Equipment



- Limitations
- ETE Highways activity

On-street Electric Vehicle Charge Points

Property Services

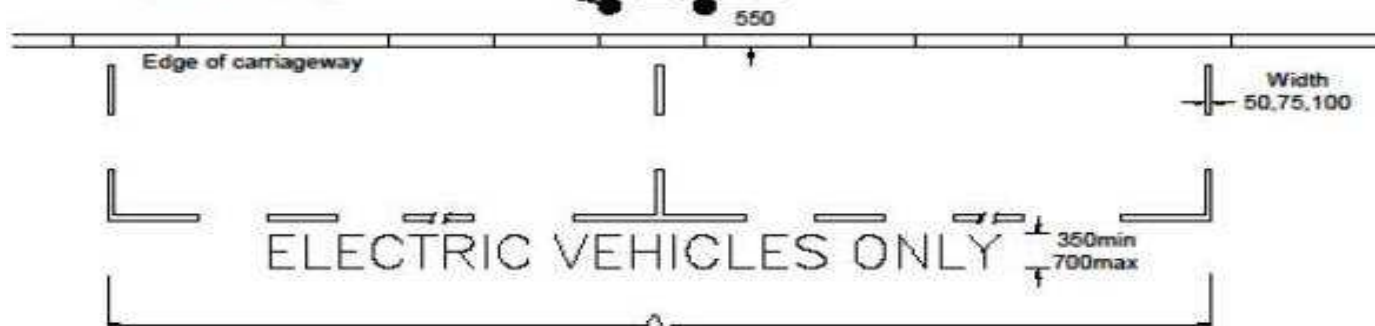
Possible 'Glasdon neapolitan Guardsman' anti ram raid bollard fixing.



Unit centrally located to the bays, set back 550mm from edge of carriageway.

2x bollards installed either side of the charging unit, set back 450mm from edge of carriageway.

Charging point with sign above



The Future



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**WHO
KNOWS?**