



Borough, Economy & Infrastructure
EAB
13th September- Electric Vehicles

Information

Range

- New electric cars have a range of 100-150 miles
- Tesla's sports car has a range of 334 miles

Journeys

- 50% of journeys are 1 to 5 miles
- 38% of journeys are 5 to 25 miles
- 2% of journeys are 50 miles or more

Battery Life

Five years (60,000 miles) to Eight year (100,000 miles)

Types of Charging

Charging need	Where	Type of charging	Type of charger	Provider
Home (60% of homes have access to off street parking)	Private off-street or on the highway	Need to fully charge but parking times are long	Slow to medium – different solution maybe required on street	Householder, Highway authority , Energy company,
Destination	Work place, car parks, leisure venues	Stays of a few hours -	Fast - 2-3hours 80% charge	Site owner
Booster	Near major roads	Need for rapid charging	Rapid – 20-30 mins charge	Highways England , Highway authority, site owner

Surrey County Council's Policy

SCC want to see a co-ordinated network of charging points that will give residents and businesses the confidence to use electric vehicles in Surrey. Key questions.

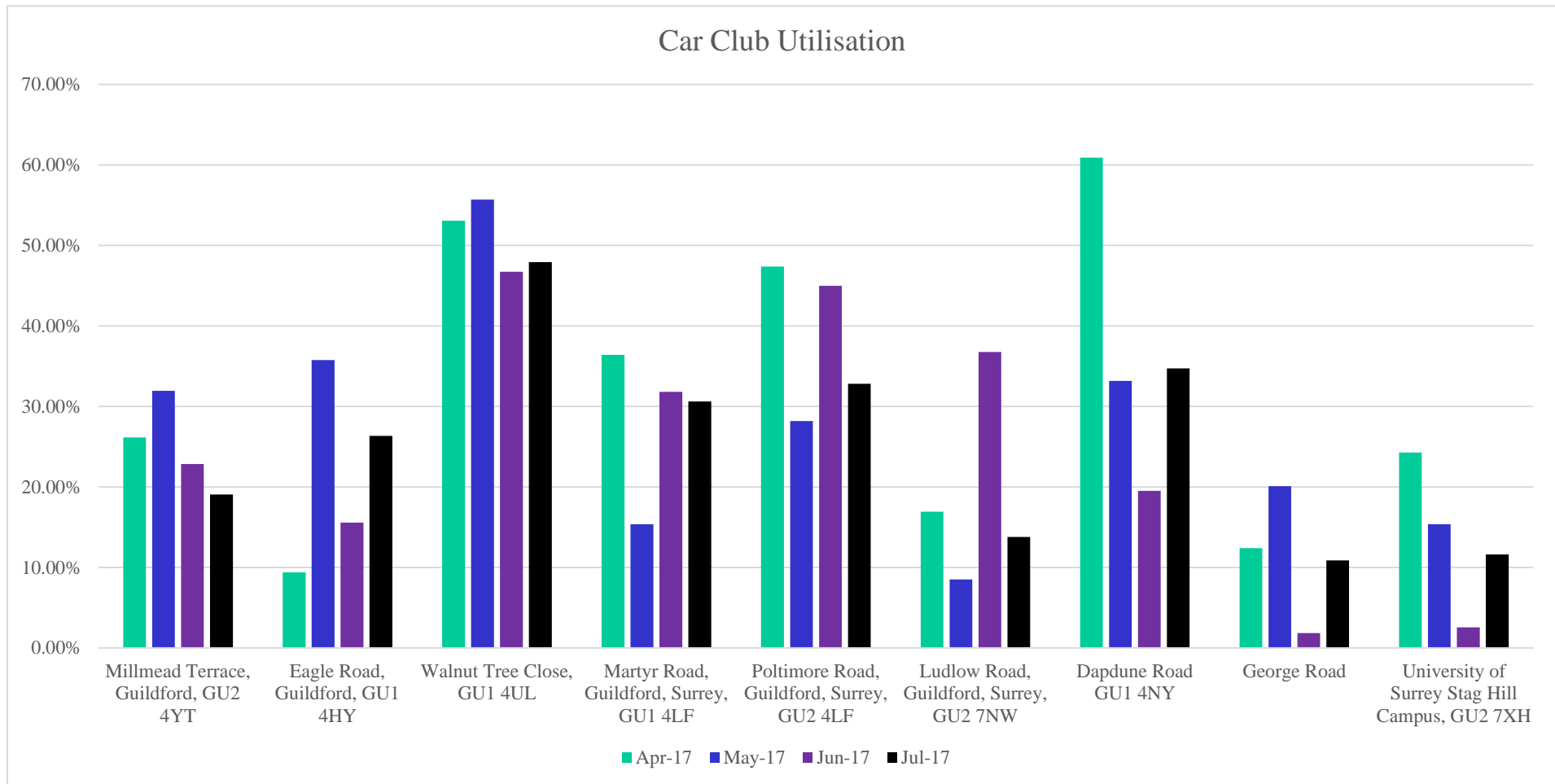
- Where should charging points be located to provide the greatest possible benefit to users?
- Which type of charging points are most needed – rapid (30mins) or fast (3-4 hours) and how many ?
- Should the council own and run public charging points or should the network be run by another organisation ?
- How will they be funded and maintained ?
- Should parking spaces be reserved for electric vehicles ?
- What will the impact be on the electricity network?

We expect a strategy to be in place March 2018.

Current Concessions in Guildford for Electric Cars

- On-street permits
 - 20% discount for vehicles under 1200cc or running on electricity or solely on an alternative fuel source
- Off-street car parks green permit scheme
 - Free parking in specific small bays in Bedford Road MSCP
 - Three hours free parking on top of an time purchased in a park and display car park
 - Free parking at Ash Vale station car park

Car Club Utilisation



Our Parking Strategy

Year	2007-11	2012	2013	2014	2015	2016	2017
No. joining scheme	4	3	5	14	21	12	15
Total in scheme	4	7	13	27	48	60	75

- **Encourage greater use of electric and “ultra low vehicles” by providing charging points in key interceptor car parks, parking concessions and discounted permits for residents with cars which qualify.**
- **To establish “fast” charging points which provide 80% charge in 2 to 3 hours in town centre locations and large new developments.**

Charging Points in the Guildford Area

Current

- Waitrose
- Bedford Road (by arrangement)
- Slyfield
- Ripley White Hart Meadows
- RHS Wisley
- University of Surrey

Proposed

- Millbrook
- G-Live
- Lawn Road
- Guildford Park
- As demand increases

Strategy – **Rapid** charge points near major roads - 80% charge in 20 mins

Fast charging points in the town centre - 80% charge in 2 to 3 hours

£1,000 to convert a lamppost



The Future ?

