

Welcome to

CPD for Electric Car
Charging

Whitecode Consulting



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Requirements

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- ▶ Electric car charging points generally required under S106:
 - Residential - 20% of parking spaces now, 20% in future
 - Retail/Commercial- 10% of parking spaces now, 10% in future
- ▶ Previously points not used, now becoming more common in UK:
 - 2015, 50,000 electric vehicles
 - 2017, 833,000 electric vehicles
 - 2020, 2,000,000 electric vehicles



Supplies

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- ▶ Types of charging supply:

Charging Speed	Charge Time	Cable	Possible Use
Slow AC, 3kW (13A)	6-8 hrs	Bring your own	Home/office
Fast AC, 7-22kW (32A)	3-4 hrs	Bring your own	Supermarkets
Rapid AC, 43-50kW (63A)	0.5-1 hr	Tethered	Service Station
Rapid DC, 50kW (125A)	1 hr	Tethered	Service Station

- ▶ No Diversification – all bays could realistically be used at the same time:
 - 'Array charging' – dynamic electrical supply to allow diversification of supply:
 - Variable charge rate
 - Full charge detection

Charger Type Examples – Wall-Mounted

Rolec



Chargemaster



Pod Point



Charger Type Examples – Free Standing

Rolec



Chargemaster



Pod Point



Bay Allocation

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- ▶ There are options to managing electric charging points:
 - Dedicated bay to one tenant with padlock; electricity used charged to tenant:
 - Allocated by management company (not included in deeds of property)
 - Open public parking bay generally use 'smart' billing system:
 - Fobs/Smart card
 - Electronic car 'serial number'
 - Cash/Tokens



Billing

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- ▶ Billing:
 - Private – meter reading by management company; charged to tenant
 - Possibility for variable cost of charging
 - Public – PAYG, direct debit, cash/tokens
 - Smartphone App
 - RFID's



Thank You for Listening

Any Questions?