

HLE EV Charging Station

Background

Survey carried out in 2017/18,

	Houses	Flats	Total	No access
Total Universe	274	528	802	
Response rate	44%	9%	21%	
% believe HLEC should invest in EV	73%	51%	67%	79%
% believe it is important to be near home	67%	44%	60%	70%
% believe important to be in HLE - rather than SL				
Very important	56%	35%	50%	66%
Some Importance	17%	23%	19%	18%
If EV Charger on HLE %'age change in intention to own / buy an EV	50 -> 63	19 -> 25	42 -> 54	37 -> 70
% upgrading likelihood to buy an EV	28%	11%	22%	40%
% HLE EV charger stn increases likelihood to buy	50%	39%	47%	79%
% likely to use HLE EV Charger	31%	20%	28%	46%
Addn % saying may use	31%	38%	33%	38%

Source, analysis 30-Oct-18

Actions Since last meeting

Planning Application (2019/1265/P) submitted 7-Mar for charging station capable of supplying 66 kW through 6 charge points, each rated at up to 22 kW. Location, south side of Makepeace Avenue, west (chosen due to central location). Initially only 2 bays would be marked out, other bays added as demand warrants. Decision expected May

Revised quotation from UKPN for connection to grid. New supplier, ChargePoint, quoted, have very comprehensive back-office enabling;

- users to be restricted to those approved by HLEC (residents)
- users to book slots, be notified when points free, when car fully charged
- charges to be either based on time or amount of electricity drawn (latter better)
- charges to be set by HLEC
- charges for over-staying (blocking)
- App, PC or RFID base

Costs

CAPEX						
			Total	NET	VAT	Comments
	UKPN Connection	£	4,458.90	3,715.75	743.15	
	Civils	£				in Chargers
	Charging Stations	£	24,656.47	20,547.06	4,109.41	Includes
	TOTAL	£	29,115.37	24,262.81	4,852.56	
REVENUE						
	Maintenance (5yrs)	£	3,165.36	2,637.80	527.56	Paid 5yrly
	Annual equiv	£	633.07			

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Costs Recovery

Grants

GLA funded the Planning Application - £1.K Camden have stated doesn't qualify for a grant from their Climate Change Fund, being challenged.

Recovery from users

Costs are to be recovered from the users via a margin on the electricity selling price. In the example below the assumptions are;

Electricity purchase price	15p	/kWh
HLEC markup	7.5p	50%
ChargePoint fee	2.25p	10%
Total	24.75p	

This is slightly less than the amount SourceLondon charge (25.9p/29.2p, St Alban's Road) and is not time related which can significantly increase the cost, either because the charging rate slows as battery nears full or one forgets to move.

		No of years to payback									
		1	2	3	4	5	6	7	8	9	10
Operational Year	1	162%	55%	28%	17%	12%	9%	7%	5%	4%	4%
	2		110%	56%	34%	23%	17%	13%	10%	8%	7%
	3			84%	52%	35%	26%	20%	15%	13%	11%
	4				69%	47%	34%	26%	21%	17%	14%
	5					58%	43%	33%	26%	21%	18%
	6						51%	39%	31%	25%	21%
	7							46%	36%	29%	25%
	8								41%	34%	28%
	9									32%	26%
	10										29%

Required Utilisation (4x 7kW charge points)

The ChargePoint salesman said they typically expect 20% utilisation of their charge points.

Other

HLEC becoming a Service Provider

Estate solicitor believes no, points are available to all.

Insurance

To be discussed with broker.

Next Steps

To be discussed at the HLEC, method of gaining Estate's approval
Explore possibility of other grants to reduce risk