

District Street Lighting Review

BACKGROUND

- F&H DC owns 1340 street lights - located in car parks, housing land, open spaces and highway
- KCC currently maintain all our street lights
- KCC advised districts in 2018 that they will no longer be able to continue maintenance under current terms
- Lighting stock can be upgraded and transferred to KCC for adoption

SURVEY FINDINGS

- The majority of assets are ageing

Estimated remaining life (years)	Number of assets
0-5	31
6-10	298
11-15	407
16-20	256
25+	44
Not Tested	29

- Recommended repair & maintenance recommendations

Date required	Number of assets
Action required now	31
By May 2022	755
By May 2025	250
Untested	29

PROJECTED COSTS

Asset	Quantity	Costs for upgrades/repairs
District owned columns	1340	
Columns available for upgrade for KCC adoption	684	£500,000
Remaining assets not suitable for adoption but can be LED upgraded for easier maintenance and energy savings	656	£450,000
Columns requiring urgent repair should adoption not go ahead and ownership remains with FHDC	31	£55,000

OPTIONS

Option 1 - Do nothing, the council continues to maintain and replace the assets as and when necessary.

Option 2 - Upgrade and keep all lights, FHDC would upgrade all of its lights to KCC Specification, but keep and maintain them itself

Option 3 – Upgrade all and transfer where possible, FHDC would upgrade all street lights and transfer all adoptable assets (684) to KCC

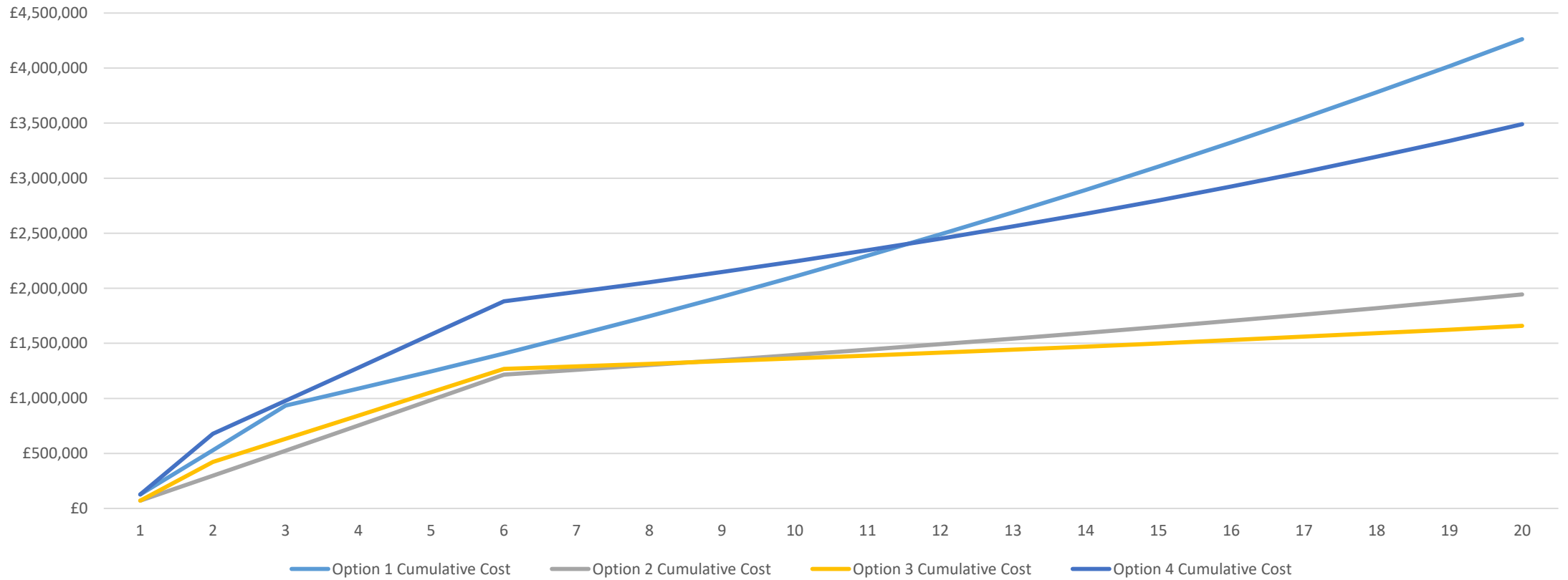
Option 4 – Upgrade transferable assets and transfer, leave others. FHDC would upgrade only the transferable assets and transfer all adoptable assets (684) to KCC.

OPTIONS APPRAISAL

OPTION 1- Do nothing	OPTION 2- Upgrade & keep	OPTION 3- Upgrade & transfer where possible (RECOMMENDED)	OPTION 4- Upgrade only transferable assets, and leave others
Large revenue & capital costs	Reasonable methodology for the future management of the stock	Most appropriate option for the future management of the lights	Remove the burden of transferable assets
Immediate funding of £55k for lights in red status required	Initial investment means a reasonable revenue outgoing for the foreseeable future	Initial investment allows FHDC to remove the burden of half of its stock	The most difficult left in-house so huge revenue costs will continue going forward
Additional funding for light in 'amber' status of £330k 2021-2023	Leaves the district with a large number of lights to maintain long term	Remaining stock will be easier and cheaper to maintain	Works contractor will need to be appointed to manage stock moving forward
Revenue funding of active repairs will remain at £72k pa	No commuted sum but the long term costs will be higher	Huge carbon emissions savings	
Works contractor will need to be appointed to manage stock moving forward	Huge carbon emissions savings	Significant revenue savings long-term	

COST MODEL

Streetlights Cost Model



CARBON EMISSIONS SAVINGS

	Existing	Proposed
Number of Lamps	1144	1144
Average Wattage	58.5	20
Average Burn Time	3918	3918
Watts	66924	22880
kWH	262208.2	89643.84
Co2 per kWH	0.256	0.256
kg Co2	67125.31	22948.82
Tons Co2 per year	66.06822	22.58742
SAVING Co2		43.48079
Average cost per kWh	0.127	0.127
Cost to run	£33300.45	£11384.77
Electricity £ Saving		£21915.68

Questions?