

All contractor costs in £ and exclude VAT Carbon emissions calculated using conversion rate of 0.233kWh				VOLKER									ENERVEO										
OPTIONS:				current annual costs		annual cost		one off costs			environmental savings				annual cost		one off costs			environmental savings			
£	£	Kg		£	£	£	£	£	years	Kg	Kg	%	£	£	£	£	years	Kg	Kg	%			
electricity bill	maintenance	annual carbon emissions		estimated electricity bill	maintenance	LED upgrade	Remove & decommission lights	annual savings	pay back time	annual carbon emissions	CO2 saved at conversion rate 0.233/kWh	carbon savings	estimated electricity bill	maintenance	LED upgrade	Remove & decommission lights	annual savings	pay back time	annual carbon emissions	CO2 saved at conversion rate 0.233/kWh	carbon savings		
<b>do nothing</b>				2,219	1,134	1,581,110																	
<b>1) upgrade all non-LED lights (ie 30) to LED</b> 1, 3, 5, 6, 7A, 11, 13, 14, 15, 18, 19, 20, 21, 23, 24, 26, 27, 31, 32, 33, 34, 35, 36, 37, 38, 39, 28, 30, 22, 6A				788	1240	16,561		1,325	12	560,852	1,020,258	64.5%	550	682	<b>15,080</b>		1,883	8	392,337	1,188,773	75.2%		
<b>2) Trial - keep 13 lights on and switch off 25</b> this year upgrade any non-LED lights required in the trial to LED 5, 6, 7A, 14, 19, 26, 33, 36, 38, 28 & 22 & switch off 25 lights 1, 2, 3, 4, 6A, 7, 9, 11, 13, 15, 18, 20, 21, 23, 24, 25, 27, 29, 30, 31, 32, 34, 35, 37 & 39 next year decommission & remove 25 lights				278	425	8,270	35,910	2,928	15	197,622	1,383,488	81.6%	188	240	7,631	19,415	3,113	9	133,960	1,447,149	91.5%		
<b>3) Trial - keep 13 lights on and switch off 25</b> this year upgrade any non-LED lights required in the trial to LED 5, 6, 7A, 14, 19, 26, 33, 36, 38, 28 & 22 & switch off 25 lights 1, 2, 3, 4, 6A, 7, 9, 11, 13, 15, 18, 20, 21, 23, 24, 25, 27, 29, 30, 31, 32, 34, 35, 37 & 39 next year convert any non-LED lights of the 25 switched off in the trial (ie19) to LED & switch back on				278	1240	18,455	0	2,113	9	197,622	1,383,488	81.6%	188	682	<b>17,080</b>	0	2,671	6	133,960	1,447,149	91.5%		
<b>NOTES</b>																							
Voker quote based on photos of each light sent to them - no site visit. Enerveo based on knowledge of our lights as they currently do the maintenance																							
THIS IS FOR ENERVEO - WHEN DOES VOLKER QUOTE RUN TO??????????																							
The quote is based on all work being carried out prior to 31st March 2024. Work carried out after this date will be subject to review and possible price adjustment. Therefore any work in the trial that is carried out after this date would be subject to a new quote.																							
The figures here are for decommission & removal of 25 lights and is based on the current quote																							
Volker have quoted to supply LED lights with min wattage 27 , Enerveo have quoted to supply nearly all of the LED lights with wattage of 16. Therefore the environmental savings are different.																							
Lights 2,4,7,8,9,10,25,29 are currently LED and are not included in any upgrade in this project. However the temperature colour is not 2700 kelvin, they are not shaded as the upgraded lights will be and also the wattage of them is higher than the upgraded ones. Therefore it may be that in the future these lights should be re-visited for upgrading.																							
The wattage of the current LED bulbs are as follows:																							
light 2 - 55																							
light 4 - 29																							
light 7 - 7																							
light 8 - 30																							
light 9 - 30																							
light 10 - 30																							
light 25 - 14																							
light 29 - 7																							
Volker quote to upgrade all of these LED lights is																							
Enerveo quote is																							