## Environment Bid 1 - Appendix 1

## Hudson House car Park - Pay back

										Annual cost		
Existing	Type of fittings	Light on hours/day	Number of fittings		kw/day	kw/wk		Maintenance cost due to vandalism			Quarterly charge	
Existing fittings in area 1 & area 2	Twin 70w 6ft flourescant tube fitting	23	36	140	115.92	811.44	42194.88	£2,504.62	£5,149.04	£208.44		
Existing fittings communual walkway	Angled fluescents 28 watts twin fitting	23	12	56	15.456	108.192	5625.984	0	£686.54	£27.79		
Existing fittings communal walkway ramp	2D 28W ceiling fittings	23	7	28	4.508	31.556	1640.912	0	£200.24	£8.11		
		Tota		£6,035.82	£244.34	£108.80						
		:	£8,893.58									

									Annua	cost			LED Cost			
Proposed	Type of fittings	Light on hours/day	Number of		kw/day	kw/wk	kw/year				Savings per	Fitting unit	Total fittings cost	Labour to install	Total cost	Yrs Payback
Floposeu	Parkalux, textured	110urs/uay	nuings	walls	KW/Udy	KW/WK	Kw/year	Unit charge z/yi	£/year	charge	year	cost	CUSI	Labour to install	TOTALCOST	TIS FAYDACK
Proposed fittings	white, LED Opal.															
area 1 Car park	2000lm, 21 watts	14	24	43	14.45	101.14	5259.07	£641.76	£25.98			£272.95	£6,550.80			
	Emergency lights	14	12	43	7.22	50.57	2629.54	£320.88	£12.99		]	£347.95	£4,175.40			
Propsed fitting	Parkalux angled,										£5.042.28			£3.950.00	£16.942.10	
area 2 communal	textured white, LED										20,042.20				210,042.10	
walkway	Opal, 3000lm,	24	4	28		18.82		£119.40				£267.65	£1,070.60			
	Emergency lights	24	2	28	1.34	9.41	489.22	£59.70	£2.42			£342.65	£685.30			
Communal walkway ramp	Quadrant EML 1400lm	24	3	15	1.08	7.56	393.12	£47.97	£1.94			£170.00	£510.00			
		Tota	I			_	8,867 kw	£1,189.72	£48.16	£108.80					£16,942.10	
Sub total							£1,346.68									

Factors to consider, the existing fittings are vandalised regularly(there is currently less than half of the lights working). They are not fit for purpose and produce very poor light, this is an income generating car park and should be maintained to a decent standard. We have antisocial behavour and drug taking and requrests by the police to upgrade security and lighting. The new fittings are robust vandal resistant by Design Plan lighting, they are double the cost but as proved in Ashley centre car park and Hook road car park, very durable & can last for over 10 years and give a 3 year payback

Hudson house		1	1	1		1		1	1	
	Units	Hours	Wattage	Total KW/day	Total KW/ yr	£ year	Total £ year	Savings	Install cost	Payback yrs
Existing Total	34 12			89.76 21.89			£4,470.39			
Proposed		3 14 3 14 7 14	35 21 21 21	4.41 1.47 5.29 2.06 2.02 1.01	535.08 1926.29 749.11	£58.86 £211.89 £82.40	£650.81	£3,819.58	£13,645.00	3.57
Bourne Hall Existing Proposed	49			137.20 48.02		£5,493.49 £1,922.72		£3,570.77	£20,800.00	5.83
Longmead Existing			80 42 67 80	2.08	757.12 496.86 585.31 1397.76	£83.28 £54.65 £64.38 £153.75	£718.04	£408.45	£7,463.00	18.27
Proposed		6.5 8	34 36	] 3.09 1.63 0.70 ] 2.30	594.05 255.53	£65.35 £28.11	£309.59			
Clock tower										
Existing Proposed	2		250 50	6.00 1.20 0.00	436.80	£48.05	£240.24 £48.05		£2,156.00	11.22
		3 8	80 250	0.64 7.68 6.00 1.12	2184.00	£307.51 £240.24	£618.22	£479.84	£7,670.00	15.98
	23	3 8 3 8				£110.51 £27.87	£138.38			