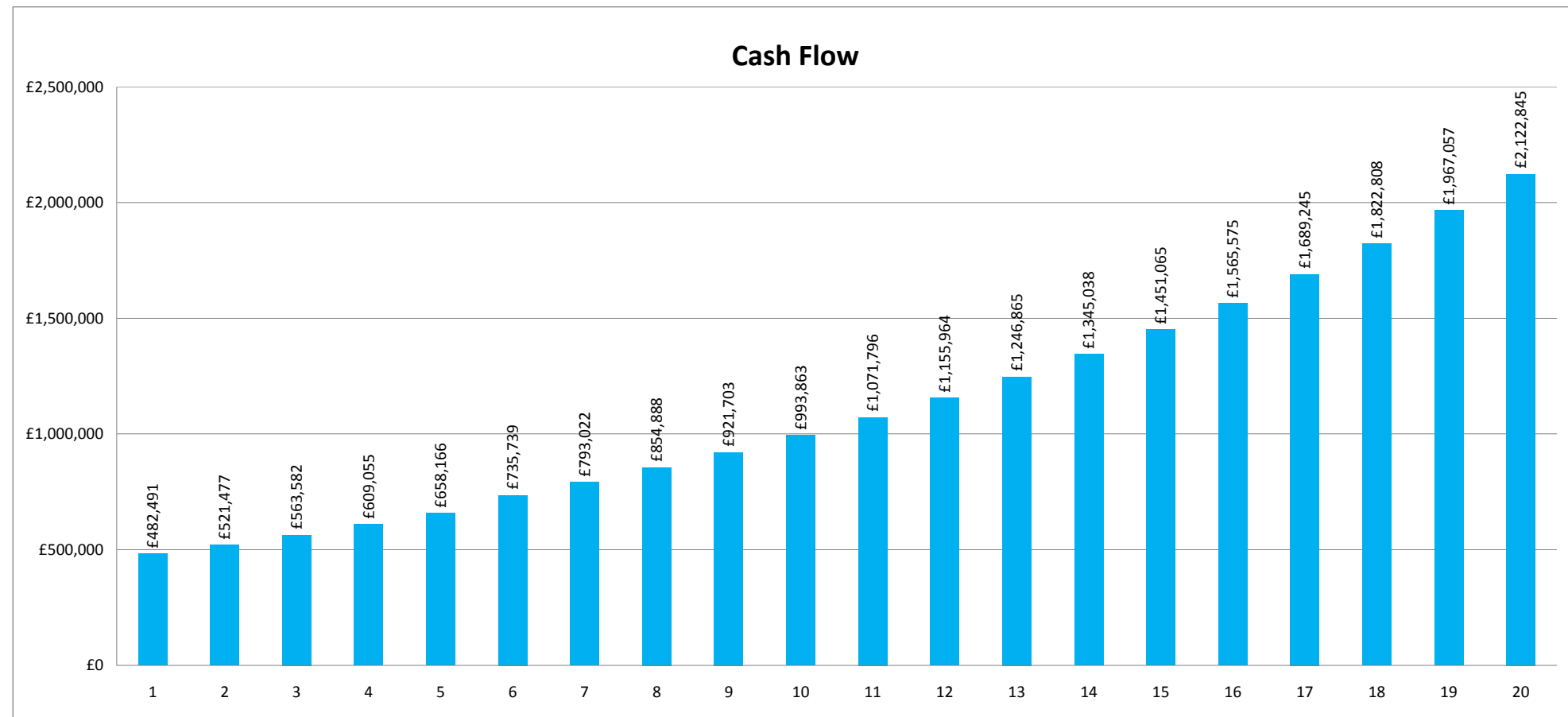


Energy Analysis										
Burning Hours/lantern	4118		CO ² /KWH	0.484	Energy Cost	£	0.1000			
10 mins per day trimming	4058				For LED lanterns, enter the assessed wattage values from the Manufacturer or Elexon spreadsheet.					
Number of Lanterns Removed				Number of LED Lanterns Installed						
Number	Lamp	Wattage	KWH	Number	Lamp	Watts	Using Trimming	KWH	Trimmed Kwh	
412	35w SOX	65	110280							
5517	55w SOX	77	1749363							
1986	90w SOX	122	997758							
733	135w SOX	190	573514	5929	28w LED	28	28	683637	673843	
2265	70W CDMT	86	802145	4891	39w LED	39	39	785504	774250	
849	150W SON	190	664275	2105	42w LED	40	42	346736	341768	
2626	70w SON	90	973248	1917	58w LED	58	58	457864	451304	
119	100w SON	123	60275	1002	85W LED	85	85	350730	345705	
920	250w SON	301	1140357	15844				2624471	2586870	
335	150W CDMT	172	237279							
82	400w SON	449	151617							
15844			7460111							
Previous Installation				LED lanterns utilising trimming						
Total	7460111	kwh		Total	2586870	kwh				
CO ²	3610694	kg		CO ²	1252045	kg				
Cost	£ 746,011.11	per annum for electrical consumption		Cost	£ 258,686.97	per annum for electrical consumption				
Savings										
	Energy Saving	4873241	kwh	65.32%						
	CO ² Saving	2358649	kg							
	Cost Saving	£ 487,324.14								
Energy Savings over life of installation					Carbon Savings over life of installation					
Energy Savings over life of installation (Dimming)					Carbon Savings over life of installation (Dimming)					

Annual Interest Rate 8% (note: for energy prices to double in 10years annual rise is around 8%)
 Energy Cost £0.10

Energy Cost Year	£0.10	£0.11	£0.12	£0.13	£0.14	£0.15	£0.16	£0.17	£0.19	£0.20	£0.22	£0.23	£0.25	£0.27	£0.29	£0.32	£0.34	£0.37	£0.40	£0.43	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Existing	£746,011	£805,692	£870,147	£939,759	£1,014,940	£1,096,135	£1,183,826	£1,278,532	£1,380,815	£1,491,280	£1,610,582	£1,739,429	£1,878,583	£2,028,870	£2,191,179	£2,366,473	£2,555,791	£2,760,255	£2,981,075	£3,219,561	
Proposed	£258,687	£279,382	£301,732	£325,871	£351,941	£380,096	£410,504	£443,344	£478,812	£517,116	£558,486	£603,165	£651,418	£703,531	£759,814	£820,599	£886,247	£957,146	£1,033,718	£1,116,416	
Proposed (Dimming)	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	
Saving	£487,324	£526,310	£568,415	£613,888	£662,999	£716,039	£773,322	£835,188	£902,003	£974,163	£1,052,096	£1,136,264	£1,227,165	£1,325,338	£1,431,365	£1,545,875	£1,669,545	£1,803,108	£1,947,357	£2,103,145	#####
Proposed (Dimming)	£746,011	£805,692	£870,147	£939,759	£1,014,940	£1,096,135	£1,183,826	£1,278,532	£1,380,815	£1,491,280	£1,610,582	£1,739,429	£1,878,583	£2,028,870	£2,191,179	£2,366,473	£2,555,791	£2,760,255	£2,981,075	£3,219,561	#####
Maintenance Savings	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00	£19,700.00
Payments	£24,533	£24,533	£24,533	£24,533	£24,533																
Savings	£482,491	£521,477	£563,582	£609,055	£658,166	£735,739	£793,022	£854,888	£921,703	£993,863	£1,071,796	£1,155,964	£1,246,865	£1,345,038	£1,451,065	£1,565,575	£1,689,245	£1,822,808	£1,967,057	£2,122,845	



Cash Flow