

Option 1 – Replace Existing Older Lanterns with LED, upgrade Zx1 lanterns with LED gear trays (Conventional Gear)											
Item	Quantity	Wattage		Total Energy-Kwhs		Energy Saving	Energy Rate (£)	Savings £	Total unit Cost (£)	Total Scheme Cost (£)	Payback (yrs)
		Existing	New	Existing	New						
LED lanterns	2827	90	11.5	721431.54	92182.92	629248.62	0.126	£79,285.33	140.00	£395,780.00	3.78
Gear Trays	5118	90	11.5	1306984.50	167003.58	1139980.93	0.126	£143,637.60	106.00	£542,508.00	4.99
Totals	7945					1769229.55		£222,922.92		£938,288.00	4.21
Option 2 – Replace Existing Lanterns with LED (Conventional Gear)											
Item	Quantity	Wattage		Total Energy-Kwhs		Energy Saving (Kwhs)	Energy Rate (£)	Savings £	Total unit Cost (£)	Total Scheme Cost (£)	Payback (yrs)
		Existing	New	Existing	New						
LED lanterns	7945	90	11.5	2028416.04	259186.49	1769229.55	0.126	£222,922.92	140.00	£1,112,300.00	4.99
Option 3 – Replace Existing Lanterns with LED (Electronic Gear)											
Item	Quantity	Wattage		Total Energy-Kwhs		Energy Saving (Kwhs)	Energy Rate (£)	Savings £	Total unit Cost (£)	Total Scheme Cost (£)	Payback (yrs)
		Existing	New	Existing	New						
LED lanterns	1289	79	11.5	289211.021	42100.339	1769229.55	0.126	31135.95	140.00	£180,460.00	5.80