

Appendix 1 LED lighting replacement (lot 1)

Bj's Leisure and Skegness aquarium internal lighting

Bj's Leisure;

Current (old) Lighting Situation						
Room ID	Existing	Quantity	Watts per Unit	Total installed Watts	Estimated Operating hours	Electricity consumption
		[x]	[W]	[W]	[h/a]	[kWh/a]
Cloakroom	T8 6-ft single	1	81	81	3,360	272
Atrium	Metal Halide Bulb 2000W	10	2,200	22,000	3,360	73,920
Arcade	Light Bulb 60W	17	60	1,020	3,360	3,427
High cash	CFL 2D/square	20	28	560	3,360	1,882
Bar	Metal Halide Bulb 150W	14	160	2,240	3,360	7,526
Showbar	Metal Halide Bulb 150W	12	160	1,920	3,360	6,451
Workshop	T8 2-ft (4 panel) 600x600	3	84	252	3,360	847
Ground floor toilets	CFL 2D/square	1	28	28	3,360	94
1st floor drinks lockup	T8 6-ft single	2	81	162	3,360	544
Back Stage	T8 4-ft	4	41	164	3,360	551
Back Stage	CFL 2D/square	3	28	84	3,360	282
Soft Play area	T8 6-ft twin	1	162	162	3,360	544
External	CFL 2D/square	5	16	80	3,360	269
External	CFL 2D/square	3	28	84	3,360	282
External	Floodlight 2x32W	7	74	518	3,360	1,740
External	Halogen floodlight 150W	9	173	1,557	3,360	5,232
Rear of Bowling alley	T8 4-ft	2	41	82	3,360	276
Total		114		27,821		93,479

The savings potential was carried out as a like for like replacement within a desktop audit. Alternative replacement options that use more or less lights, but fulfill the lighting requirements at the site are welcomed. Replacement options need to save a significant amount of energy while still offering a good quality light, which is adequate to the requirements of each room.

Skegness Aquarium;

Lights at the aquarium have specific requirements in terms of quantity and quality of the emitted light. Suggested replacements should take this into account.

Current (old) Lighting Situation						
Room ID	Existing	Quantity	Watts per Unit	Total installed Watts	Estimated Operating hours	Electricity consumption
		[x]	[W]	[W]	[h/a]	[kWh/a]
Triphosor (Misc)	T8 6-ft twin	51	162	8,262	3,640	30,074
Total		51		8,262		30,074

Appendix 2 Neon replacement (Lot 2)

Bj's Leisure neon lighting replacement

Saving potential was estimated in a desktop audit using a count of the transformers and an estimated average transformer power consumption. Exact dimensioning and layout of the neon installation will need to be confirmed on site.

Current (old) Lighting Situation						
Room ID	Existing	Quantity	Watts per Unit	Total installed Watts	Estimated Operating hours	Electricity consumption
		[x]	[W]	[W]	[h/a]	[kWh/a]
Horizontal Stripes	Neon transformer	125	300	37,500	3,360	126,000
L Shaped	Neon transformer	10	300	3,000	3,360	10,080
C Shaped	Neon transformer	23	300	6,900	3,360	23,184
Total		158		47,400		159,264

The vast majority of the neon fixtures are located outside of the building, however some are internal.

The positioning of the retrofitted LED neons may differ slightly due to works.

The neon replacement may require additional fixtures (these will be quoted for in addition to the funded lot)

The neon replacement may be subject to a site survey to clarify positioning and colouration.

Appendix 3 neon and LED signage replacement (Lot 3)

Bj's Leisure neon lighting replacement

Saving potential was estimated in a desktop audit using a count of the transformers and an estimated average transformer power consumption. Exact dimensioning and layout of the neon signs and LED sign installation will need to be confirmed on site.

The following bespoke signs of unknown wattage are to be replaced with an energy efficient alternative.



All of the main signage fixtures are located outside of the building.

The positioning of the retrofitted Signs may differ slightly due to works.

The signage replacement may require additional fixtures (these will be quoted for in addition to the funded lot)

The signage replacement may be subject to a site survey to clarify positioning and colouration.