



FUTURE
LIGHTING

CASE
STUDY



NAIRN
COURT
LONDON SM6

ROI:
44
MONTHS

NAIRN COURT

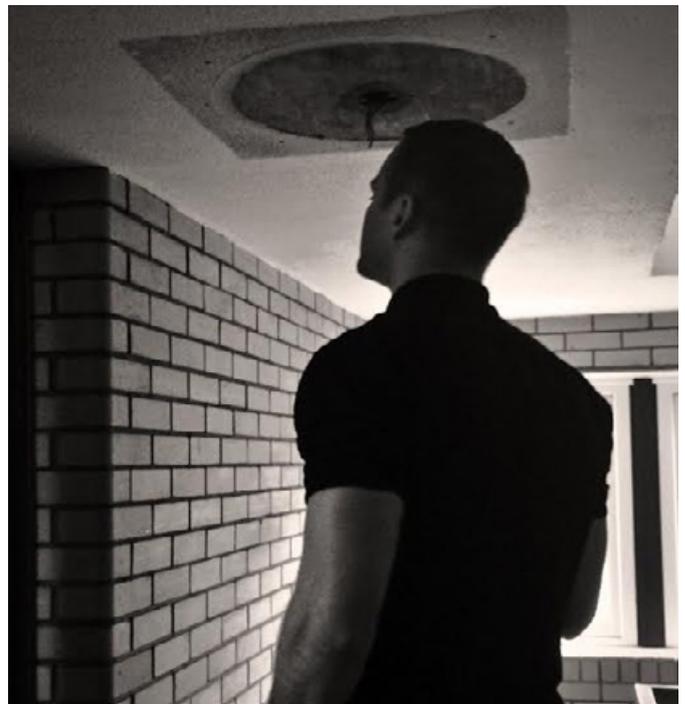
Sutton Housing Society

With changing demographics in the area, Sutton Housing Society provides good quality, affordable rented housing for people with housing needs. These people reside in, or are connected with, the London Borough of Sutton. The association owns 450 properties and just under 300 are dedicated to older people.

The Nairn Court development is a sheltered accommodation block of apartments accommodating, in the main, older people. It is built over three floors with two staircases, communal drying rooms and a passenger lift.

The Problem

- Reduction of energy consumption
- Lighting level improvement
- Control lighting during occupied periods only
- Undertake the work without upsetting vulnerable residents
- Carry out work quickly with minimum disruption and noise
- To eradicate ongoing maintenance costs for the next 5 years.



“ Having improved light levels, saved us vast wasted energy and on-going maintenance costs; Future Lighting have designed and installed a superb lighting system at a development we manage for the elderly in Sutton. Fantastic feedback given by residents on professionalism of contractors, and the speed and standard of work carried out ”

Natalie Stappers - Sutton Housing Society



BUILDING TYPE :
RESIDENTIAL



NUMBER OF DWELLINGS
26



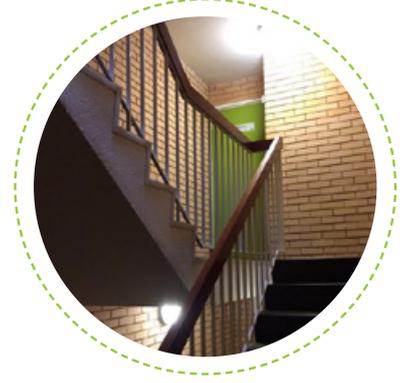
TECHNOLGY USED
LED & CONTROLS



MONEY SAVED
£1882.00

Future Lighting's Solution

- Remove all old technology fluorescent light fittings and remote 8W emergency Bulkheads from the entire communal areas including the rear external façade
- Replace all luminaries with LED technology bulkheads with combined emergency packs and integral microwave occupancy and LUX Level detection.
- Replace internal lighting with new LED Combined Emergency
- Install bulkheads with integral Occupancy Detectors, preventing wasted energy during unoccupied periods
- Replace all external lights with directional weatherproof LED bulkhead lights with integral Dusk-till-Dawn photocells to control lighting during dusk and dark periods only
- Supply 5 Years Guarantee documents



Results

- This upgrade has dramatically improved general light levels by at least 25% and is now showing considerable wasted energy savings and eliminated ongoing maintenance requirements.
- Please see energy saving analysis summary later in this document.
- The existing lighting to the rear car park and landscaped areas were standard 25W Fluorescent Bulkheads, without directional diffusers, resulting in 50% of the light output being wasted.
- All existing fittings were replaced with new directional, vandal-resistant, decorative wall mounted bulkheads that were fit for purpose.
- These are now saving over 65% of the energy used and have improved light levels dramatically. These fittings have integral dusk-till-dawn sensors and are only switched on throughout the hours of darkness, and will not require any adjustment of settings throughout the year.



CO₂ SAVED(T)

7.4



RETURN ON INVESTMENT

44 MONTHS

Future Lighting Case Study

SUMMARY OF LAMP & FITTINGS						
Area / Location	Fitting & Lamp Type	Wattage	No of Lamps (per fitting)	Total Wattage (per fitting)	Amount of fittings	Total Area Wattage (used)
Lobby, Stairs & Drying Room	28W 2D	28	1	34	32	1088
External	28W 2D	28	1	34	7	238
	Recessed Spot	60	1	60	2	120
Bin Store	Twin 58W	58	2	133	1	133
TOTALS					42	1579

COST SAVING CALCULATIONS		
ENERGY / COST SAVING CALCULATION	PRE	POST
Cost per kWh	0.14p	0.14p
Watts used (ph)	1579	602
Kwh's Used (pA)	13,832	396
Voltage	230	230
CO2 Emissions pA (tonnes)	7.53	0.22

ELECTRICITY USED £'s		
Hour	£0.22	£0.08
Day	£5.31	£0.15
Month	£164.47	£4.56
Year	£1,973.62	£55.46

SUMMARY OF COSTS, SAVINGS and ROI		
Item	Cost	Savings
Installation (parts and materials)	£8,912.00	
Annual Electricity Saved		£1881.10
Annual Maintenance Cost (lighting only)		£500.00 EST
Total	£8,912.00	£2,381.10

ROI: 44 MONTHS



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