

# **SO01 Energy us and Energy Efficiency opportunities**

Current estimated energy use and split of energy uses[[1]](#footnote-1)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Electricity** |  |  |  |  |
| **Significant Electricity User** | **Consumption** |  | **Cost** |  |
| **[kWh]** | **[% of Billed Consumption]** | **[£]** | **[% of Billed Cost]** |
| Lighting | 6,660 | 9% |  £809.60  | 9% |
| HVAC | 0 | 0% |  £-  | 0% |
| ICT | 294 | 0% |  £35.71  | 0% |
| Refrigeration | 65,603 | 85% |  £7,975.34  | 85% |
| Other Electrical Equipment | 0 | 0% |  £-  | 0% |
| **Total (Significant Energy Users)** | **65,603** | **85%** |  **£7,975.34**  | **85%** |
| Unaccounted for Shortfall (Excess) | 11,635 | 15% |  £1,414.47  | 15% |
| **Total Billed Amount in Year** | **77,238** | **-** |  **£9,389.81**  | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Thermal Energy** |  |  |  |  |
| **Significant Fuel User** | **Consumption** |  | **Cost** |  |
| **[kWh]** | **[% of Billed Consumption]** | **[£]** | **[% of Billed Cost]** |
| Boilers | 22,458 | 100% |  £610.19  | 100% |
| **Total (Significant Energy Users)** | **22,458** | 100% |  **£610.19**  | 100% |
| Unaccounted for Shortfall (Excess) | 0 | 0% |  £610.19  | 100% |
| **Total Billed Amount in Year** | **22,458** | **-** |  **£610.19**  | - |

**Key energy efficiency opportunities[[2]](#footnote-2)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Location/opportunity type** | **Current equipment** | **Current annual energy cost** | **Proposed action** | **New annual energy cost** | **Replacement cost (£ Inc VAT)** | **Estimated annual energy savings** | **Investment break even (years)** |
| Shop floor lighting | Strip plighting: 28x 4ft T8 Fluorescent tubes (58w) | £700 (approx.) | 28x 4ft T8 LED replacement tubes (22w equivalent) | £220 (approx.) | £250 (approx.) | **£480 (approx.)** | 0.5 (6 months) |
| Shop floor | Fish display counters (x2, 2.95m x 1m) | £2200 (approx.) | Retrofit glass door/lid | £1350 (approx.) | N/A | **£850 (approx.)** | N/A |
| Shop floor | 2x display freezers located under awning | £550 (approx.) | Move both displays to back of shop | £500 | £0 | **£50** | N/A |

1. Please note these estimates are approximations based on data collected on-site and desk research to estimate energy costs. For several elements complete data was not available, so the estimates should be treated as an approximate guideline only. Details of assumptions used are available on request. [↑](#footnote-ref-1)
2. Please note energy efficiency opportunities are approximations based on data collected on-site and desk research to estimate energy costs. For several elements complete data was not available, so the estimates should be treated as an approximate guideline only. Details of assumptions used are available on request. [↑](#footnote-ref-2)