

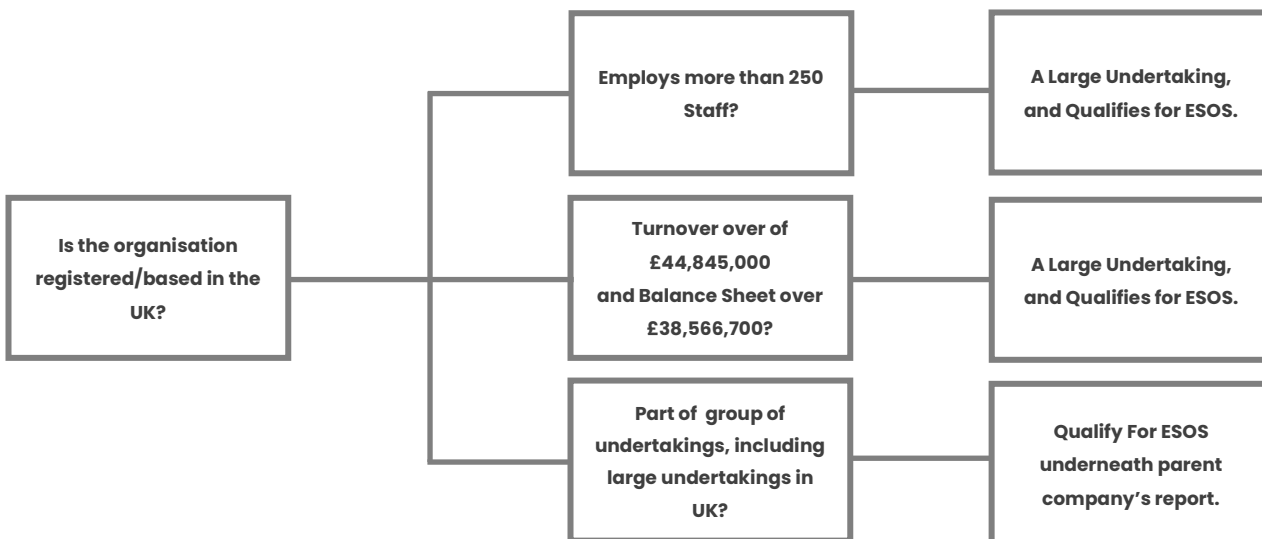
SecuriGroup Limited

ESOS Phase 3 Compliance Report

Purpose of The report

The following document has been prepared on behalf of, by Green Energy Consulting as accredited ESOS Lead Assessors, to produce an Energy Saving Opportunity Report for Phase 3 of the Energy Savings Opportunity Scheme in order to ensure retrospective compliance with ESOS Phase 3 Regulations, a UK legislative enactment of the Energy Efficiency Directive (2012/27/EU).

Qualification Criteria - By 31st December 2023



Routes To Qualification

ESOS Audit
Energy audit work, together with data collation, signed off by Lead Assessor and sent to EA.

ISO 50001
Alternative to ESOS, more in-depth than ESOS, but above minimum requirements.

DECS & Reports
Low cost option, but restricted in measurement, and would be required for each site.

Regulatory Context

The Energy Efficiency Directive (2012/27/EU) (the directive) sets rules and obligations to help the European Union (EU) meet its energy efficiency targets. As a result of this, EU member countries are required to transpose the directive into national law in order to enforce “Article 8: Energy Audits and Energy Management Systems”.

The UK response to the directive is the ESOS regulations 2014 (the regulations) which give effect to the directive. The regulations require that any qualifying organisation (see qualification criteria below) undertakes ESOS assessments every 4 years and audit the energy use of their processes, buildings and transport in order to identify cost effective energy saving measures.

Qualifying Criteria

The ESOS qualification criteria established by the Environment Agency, requires that all companies classified on the qualification date of 31 December 2022 as a “Large Undertaking” comply with the ESOS Scheme.

Companies and organisations classed as large undertakings are defined as either:

- any UK company that on the 31st of December 2022 employed 250 or more people, or had an annual turnover in excess of 50 million euro (£44,845,000), and an annual balance sheet total in excess of 43 million euro (£38,566,700), or
- an overseas company with a UK registered establishment which on the 31st December 2022 had 250 or more UK employees (paying income tax in the UK).

Under the qualifying criteria, SecuriGroup Limited has been identified as a large undertaking and is required to comply with the regulations. SecuriGroup Limited has chosen Green Energy Consulting to act as their consultants in achieving compliance with the regulations through the energy audit route.

Routes To Compliance

The organisation is not ISO 50001 accredited, nor does it maintain up-to-date Display Energy Certificates. Therefore, the most appropriate option to ensure compliance is to carry out ESOS energy audits and complete an ESOS report write-up. Green Energy Consulting has been appointed to carry out such work on behalf of SecuriGroup Limited, through a signed agreement and an up to date Letter of Authority to conduct such works.

Auditing Strategy

SecuriGroup Limited has commissioned Green Energy Consulting to perform ESOS energy audits at the following sites: 349 Bath Street. The above auditing strategy satisfies the recommended ESOS Phase 3 sampling criteria as operations at these sites are representative of all of SecuriGroup Limited's operations.

Transport has been audited with the aid of annual expenditure and mileage data. All transport data was provided directly to Green Energy Consulting by SecuriGroup Limited.

Auditing Standard & Scoping Period

The energy audits performed by Green Energy Consulting are deemed to be sufficient to comply with the ESOS regulations having been carried out in alignment with British Standard EN 16247.

The scoping period for the ESOS audit & report is 1st October 2022 – 30th September 2023 and includes the qualification date of 31st of December 2022. A breakdown of SecuriGroup Limited's total energy consumption during this period is provided on page 7.

Appointed Lead Assessor & Audit Team

Green Energy Consulting has appointed Glen Clement as the ESOS Lead Assessor. Sustainability Consultant Olivia Fields carried out the site audits and the subsequent data analysis and the preparation of this report.

The results of the energy audit and energy saving recommendations are detailed in the site summary within this report. The energy saving recommendations have been presented against existing costs and where appropriate payback periods for each suggestion have been calculated using simple payback period cost analysis (SPP).

Data Source

Data used for the 12 month period of analysis was gathered from SecuriGroup Limited. The period requested was from 1st October 2022 – 30th September 2023.

This data was deemed appropriate by the Lead Assessor in order to provide a compliant overview of 12 months energy usage. All details can be found in the associated Evidence Pack.

Overview

Introduction To The Organisation

SecuriGroup Limited is one of the UK's leading security companies, ranked within the Security Industry Authority's top tier of UK security providers. They have over 3,000 staff deployed across 450 contracts throughout the UK. They have a wide ranging portfolio of prestigious clients who rely on them to safeguard their assets, employees and customers.

UK Parent Company Details

Company Details	
Company Name	SecuriGroup Limited
Company Number	SC346167
Company Type	Private Limited Company
SIC Code	80100—Private Security Activities

This report and corresponding evidence pack provides ESOS Phase 3 compliance for United Living Holdings Limited.

UK Company Structure



Group Portfolio

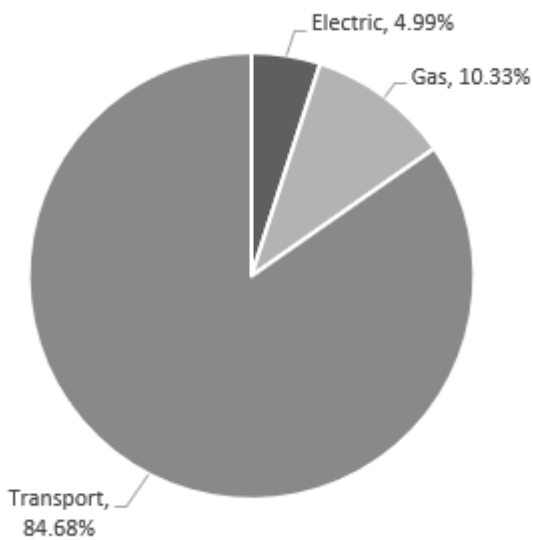
As of the ESOS compliance date, 31st December 2022, the groups portfolio consisted of the sites and meters outlined in the table below.

Site Name	Fuel	kWh/Annum
349 Bath Street, Glasgow, G2 4AA	Electricity	46,994
349 Bath Street, Glasgow, G2 4AA	Gas	125,089
9 Breadalbane Street, Edinburgh, EH6 5JJ	Electricity	10,994
7 Elmbank Gardens, Glasgow, G2 4NQ	Electricity	2,460

Overview of Total Energy Consumption

Overview of Total Energy Consumption

Between 01/10/22 & 30/09/23, SecuriGroup Limited consumed 1,210,860 kWh of energy. This is broken down to 60,448 kWh of electricity, 125,089 kWh of gas, and 1,025,322 kWh of transport. The below graph provides a breakdown of SecuriGroup Limited total energy consumption across the portfolio.



Energy Type	Total (kWh)	%
Total Annual Electric Consumption	60,448	4.99%
Total Annual Gas Consumption	125,089	10.33%
Total Annual Transport Consumption	1,025,322	84.68%
Total Annual Energy Consumption	1,210,860	100%

Energy Intensity Metric

Energy Intensity Metric - Buildings

Energy Intensity Metric - Buildings	
Total Energy Consumption (kWh)	185,537
Site Area (sq. ft.)	9,455
Energy Intensity Metric (kWh/Area)	19.62

Energy Intensity Metric - Transport

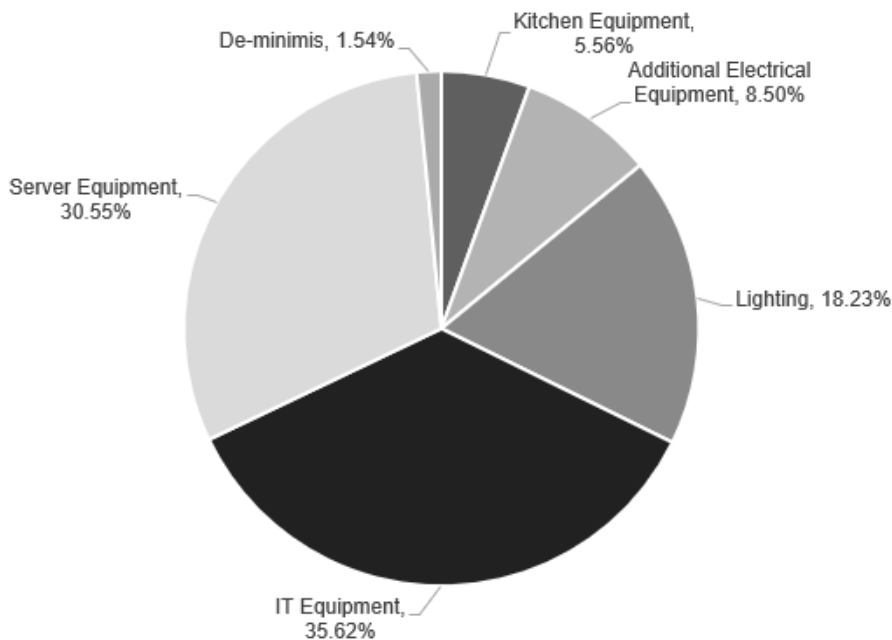
Energy Intensity Metric - Transport	
Total Energy Consumption (kWh)	1,025,322
Person Miles Travelled	919,127
Energy Intensity Metric (kWh/Miles Travelled)	1.12

N.b. Person miles travelled is based on an average vehicle occupancy of one person per vehicle.

Significant Energy Consumers—Electric

Group Significant Energy Consumers (SECs) - Electric

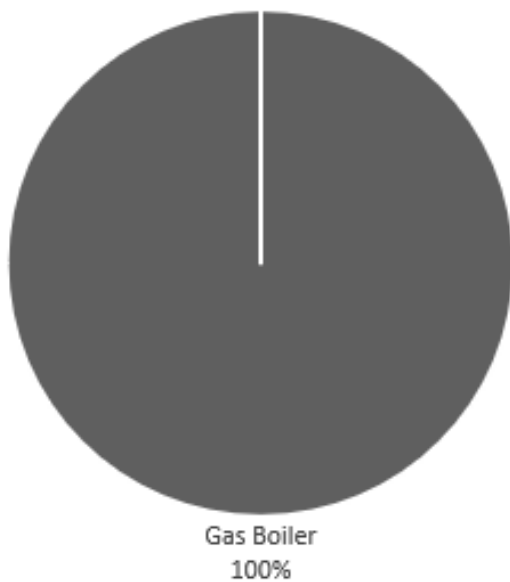
Utilising the data gathered through the energy auditing process carried out on the sample sites, Green Energy Consulting has provided an outline of the significant electricity consuming activities across the audited sites. This has been achieved by analysing the combined electricity consumption for different activities across each of the audited sites. The results below can be taken as a representative sample of group significant energy consumers.



SEC Type (Electric)	Audited Annual Energy Consumption (kWh)	Percentage Split (%)
Kitchen Equipment	2,612	5.56%
Additional Electrical Equipment	3,995	8.50%
Lighting	8,568	18.23%
IT Equipment	16,740	35.62%
Server Equipment	14,356	30.55%
De-minimis	724	1.54%
Total	46,994	100%

Group Significant Energy Consumers (SECs) - Gas

Utilising the data gathered through the energy auditing process carried out on the sample sites, Green Energy Consulting has provided an outline of the significant gas consuming activities across the audited sites. This has been achieved by analysing the combined gas consumption for different activities across each of the audited sites. The results below can be taken as a representative sample of group significant energy consumers.



SEC Type (Gas)	Audited Annual Energy Consumption (kWh)	Percentage Split (%)
Gas Boilers	125,089	100%
Total	125,089	100%

Overview of De-Minimis Consumption

Overview of De-Minimis Consumption - Audited Sites

Electric Consumption (kWh)				
Site	Total AQ (kWh)	Audited (kWh)	De-Minimis (kWh)	% De-Minimis
349 Bath Street	46,994	46,250	744	1.58%

Gas Consumption (kWh)				
Site	Total AQ (kWh)	Audited (kWh)	De-Minimis (kWh)	% De-Minimis
349 Bath Street	125,089	125,089	0	0%

Transport Consumption (kWh)				
Site	Total AQ (kWh)	Audited (kWh)	De-Minimis (kWh)	% De-Minimis
Grey Fleet and Business Vehicles	1,025,322	1,025,322	0	0%

Overview- All Energy Types (kWh)				
Site	Total AQ (kWh)	Audited (kWh)	De-Minimis (kWh)	% De-Minimis
Overview	1,197,405	1,196,661	744	0.06%

Overview of Site



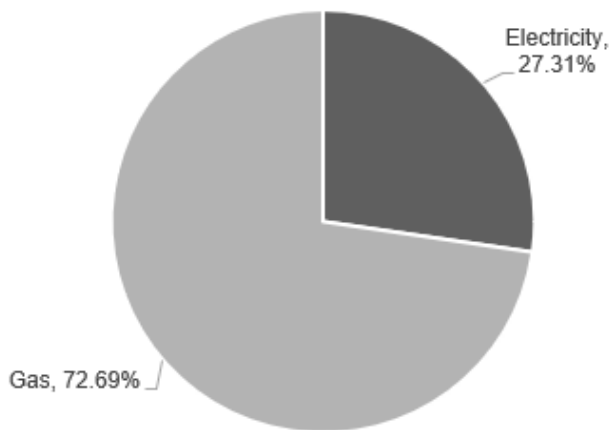
Site Address		Audit Details	
Site Name	SecuriGroup Limited	Audit Date	23/05/2023
Address	349 Bath Street, Glasgow, Scotland	Auditor	Olivia Fields
Postcode	G2 4AA	Site Contact	Samantha Lang

Site Operations

The site operates as the headquarters for SecuriGroup Limited sales, marketing and operational functions. Located in Central Glasgow, this site houses the majority of SecuriGroup administration UK's Staff.

Energy Consumption Overview

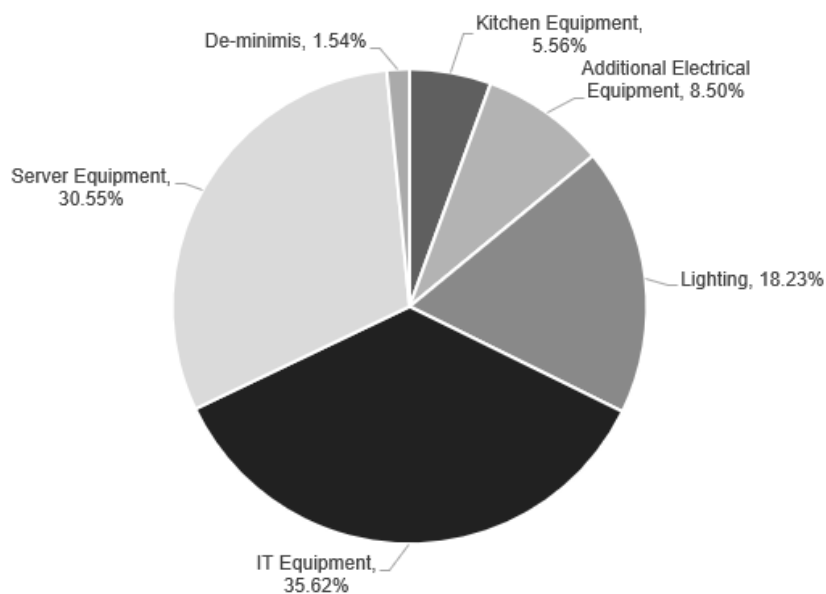
The below graph provides an overview of the energy consumption at site, for the 12 month period between 1st October 2022 and 31st September 2023.



Energy Source	Annual Consumption (kWh)
Electricity	46,994
Gas	125,089

Overview of Significant Electrical Consuming Equipment Onsite

The below graph and table provide an overview of the significant electrical consuming equipment onsite.

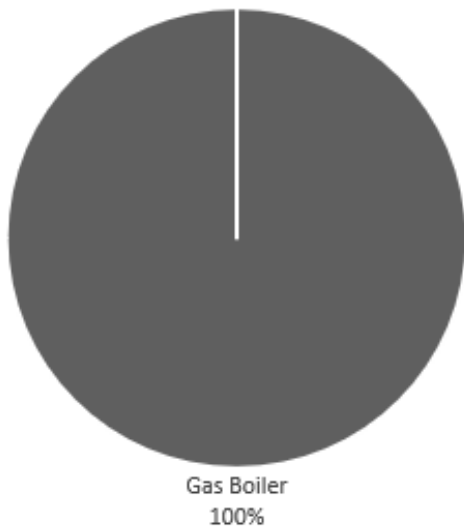


SEC	Annual Consumption (kWh)	Percentage Split (%)
Kitchen Equipment	2,612	5.56%
Additional Electrical Equipment	3,995	8.50%
Lighting	8,568	18.23%
IT Equipment	16,740	35.62%
Server Equipment	14,356	30.55%
De-minimis	724	1.54%
Total	46,994	100%

Please note that this is an indicative guide only and is based on observations made by the auditor during the site visit and discussions with staff onsite around hours of operation.

Overview of Significant Gas Consuming Equipment Onsite

The below graph and table provide an overview of the significant gas consuming equipment onsite.



SEC	Annual Consumption (kWh)	Percentage Split (%)
Gas Boiler	125,089	100%
Total	125,089	100%

Please note that this is an indicative guide only and is based on observations made by the auditor during the site visit and discussions with staff onsite around hours of operation.

Gas Boiler

The below provides a breakdown of the gas boilers throughout this site.

Model	Quantity	Output (kW)	Area Served (Space Heating)	Area Served (DHW)	Heat Delivery	Controls
Worcester Greenstar 8000 Life	1	35	Offices	Toilets, Kitchens	Hot Water Radiators	In-Built
Ferrolti Bluehelix Hitech RRT 34 C	1	34	Offices	Toilets, Kitchens	Hot Water Radiators	In-Built

As outlined below, non HVAC space heating and DHW is provided by 1 X 35 kW Worcester Greenstar 8000 Life and 1 X 34kW Ferrolti Bluehelix Hitech RRT 34 C. Heat is distributed by radiators.

Lighting

Lighting onsite is comprised entirely of LED's. There are approximately 115 LED fittings onsite ranging from LED T8s to LED 1200mm/1200mm. This is widely regarded as the most efficient form of lighting.

IT Equipment

IT Equipment onsite includes but is not limited to the following:

TV	Monitors	Laptops	Printers	ID Printer	Projectors	Microsoft Tablets
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Server Equipment

Server equipment onsite includes but is not limited to:

Switches	Servers	Ethernet	Network	Routers
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Kitchen Equipment

Kitchen equipment onsite includes but is not limited to:

Dishwasher	Microwave	Fridge	Hot Water Dispenser	Kettle
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Additional Equipment

Additional equipment onsite includes but is not limited to:

Hand Dryer	Electric Heaters	Desk Fans
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ECM 1: Energy Walk Around

It is recommended that checks are carried out to ensure all non essential equipment is turned off when not in use. This particularly relates to end of day checking as IT equipment may be left on overnight / during the weekends. To practically achieve this, it is advised that members of staff are assigned the responsibility to conduct an energy walk-around. This recommendation is particularly applicable to the tenants within in their own areas.

ECM 2: Energy Efficient Equipment Procurement

It is recommended that a regular review of ageing equipment is undertaken to determine the associated financial cost of replacing existing equipment with more efficient alternatives. This applies to a range of equipment, including IT equipment, server equipment and kitchen equipment.

Additionally when equipment comes to the end of its life, it is recommended that the energy performance of replacements are considered as part of the procurement process. Most manufactures list power ratings within the technical specifications of products which will give an indication of typical consumption and running costs. When weighing up replacement options, it is important to consider the energy performance in order to reduce energy consumption over the lifespan of the equipment.

ECM 3: PIR Sensors

During the audit, it was observed that there were some areas of the site with varying levels of occupancy, which would often be left unoccupied and lit unnecessarily. Particularly the toilets, kitchens and the conference rooms.

PIR sensors will detect movement and automatically turn the lights on when the area is occupied. After a period of time where no movement is recorded, the lights will switch off, thus avoiding unnecessary energy consumption. Based on a conservative estimate, a 20% saving could be made.

ECM 4: Server Management and Mapping

Since the servers at this site consumed 30.55% of electricity, it is recommended that servers are maintained at the most efficient state. To better manage server usage, it is suggested that the number of applications running on each server is tracked and efficiently run. Mapping applications to the physical servers on which they are running can help identify unused appliances.

Savings cannot be quantified as an in depth understanding of operating load and temperature profiles are required. However, if the above is carried out, potential reduction in energy consumption may be achieved.

ECM 5: Cloud Computing

Large corporations such as Netflix, Xerox, Instagram and many more have moved on to cloud computing in the recent past. Cloud computing companies offer safe, secure and reliable methods of data storage services. Multiple platforms are available which are tailor made for each companies specific requirements.

Since more than half of this site's electricity consumption can be associated with servers, it is suggested that such services be considered by SecuriGroup Limited in order to achieve lower electricity consumption.

ECM 6: Staff Training & Energy Saving Strategy

The Energy Hub can prepare and deliver a Staff Training and Energy Saving Strategy for SecuriGroup Limited. The table below outlines the associated cost for this and the potential savings that could be made. Typically savings of 5% are achievable from a well implemented staff training and energy saving strategy. The Carbon Trust states that typically savings of 5% are achievable from a well implemented staff training and energy saving strategy. The below savings and payback have been calculated based on the assumption of a 5% electricity saving.

CAPEX	Annual Energy Saving (kWh)	Annual Saving (£)	Payback Period (Yrs)
£2,500.00	2,350	£741.57	3.4

**Based on an average UK unit rate of 31.56p/kWh.*

The table below outlines a potential energy saving strategy which could be adapted into the organisation's operations.

Stage	Overview
Creating Baselines & KPI's	This will allow for current performance to be quantified and provide quantifiable and verifiable figures to compare improvements against.
Research	Gain an understand of current energy related practices.
Energy Action Plan	Produce strategy to improve energy performance.
Implementation	Implement changes outlined in action plan.
Responsibility	Assign Green Champion and Green Team.
Staff Training & Energy Awareness	Conduct staff training to inform staff of new strategy.
Review	Review of key performance indicators to quantify effectiveness of action plan.

Detailed breakdown of the above is provided on the next page.

ECM 6: Staff Training & Energy Saving Strategy Continued

Stage of Methodology	Components
Creating Baselines & KPI's	This will allow for current performance to be quantified and provide quantifiable and verifiable figures to compare improvements against. Realistic KPI's can also be produced i.e. reduce total annual electricity consumption by 5% against 2019 baseline.
Research	Conduct initial meeting with senior management to discuss current energy related areas i.e., operating hours of HVAC, staff attitudes and education levels relating to energy management.
Energy Action Plan	This should include specific projects and method to achieve, for example: Project - Reduce HVAC based electricity consumption Methodology - Reduce operating hours of AC units. Action plans should relate to KPI's outlined above.
Implementation	Implement changes outlined in action plan i.e. modify BMS, install LED lighting.
Responsibility	To ensure action plans are implemented a Green Champion can be appointed as the person with overall responsibility for this . It is also advised that a 'Green Team' is also created. Green Team members can monitor if action plans are being carried out i.e. ensure unoccupied areas are not being lit, computers are turned off etc. This method provides accountability and therefore increases the potential for action plans to succeed.
Staff Training & Energy Awareness	To aid the above staff training can be carried out to inform all staff members of the sites energy strategy. This can be done in a presentation format (5 staff members at time for example) outlining the fundamentals of the scheme, describing green initiatives and introducing the Green Champion and team. Progress presentations/meetings can also be implemented to update staff on achievements or areas for improvement. Lastly, Green strategies can be communicated in future staff inductions to provide an understanding of the scheme from the outset.
Review	Conduct regular review meetings to:- track performance against KPI's, quantify effectiveness of action plans, highlight successes, identify areas for improvements and modify the strategy where necessary.

Summary of Recommendations

The table below summarises costed recommendations.

ECM	Annual Energy Saving (kWh)	Annual Saving (£)	CAPEX (£)	Payback Period (Years)
Staff Training & Energy Saving Strategy	2,350	£741.57	£2,500	3.4

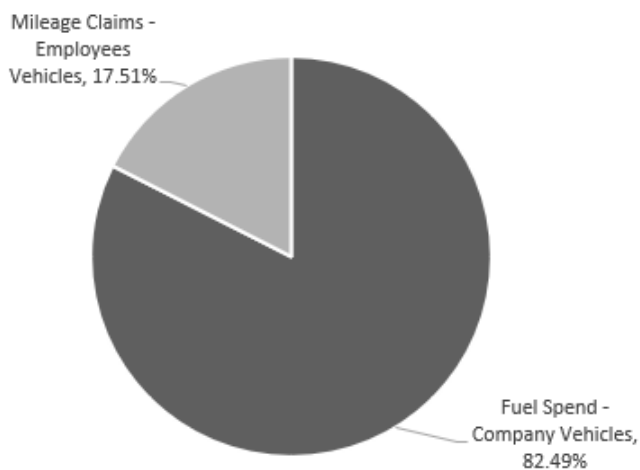
The below summarises non-costed recommendations.

- Energy Walk Around
- Energy Efficient Equipment Procurement
- PIR Sensors
- Server Management and Mapping
- Cloud Computing

Transport Consumption Analysis

Over the compliance period, 1st October 2022 to 31st September 2023, SecuriGroup Limited consumed 845,836 kWh from fuel spend—company vehicles and 179,486 kWh from mileage claims—employee vehicles. Combined, total transportation consumption is 1,025,322 kWh. This equates to 84.68% of SecuriGroup Limited total energy consumption over the compliance period.

The graph below provides an overview of SecuriGroup Limited’s energy consumption from transportation.



Method of Transport	kWh	Percentage Split
Fuel Spend - Company Vehicles	845,836	82.49%
Mileage Claims - Employees Vehicles	179,486	17.51%
Total	1,025,322	100%

ECM 1: Driver Fuel Performance Training

SecuriGroup Limited could consider providing an ECO driving course for staff. This is designed to instil efficient driving practices for example such as utilising ECO mode, shifting to higher gears earlier or using cruise control if possible. The Energy Saving Trust have identified a potential 3% increase in MPG if efficient driving training is conducted.

ECM 2: Tyre Pressure Checks

Encouraging staff to check tyre pressure can increase vehicle energy efficiency, as energy consumption can increase as tyre pressure decreases. It is therefore advised that weekly pressure checks are carried out to negate potential effects of this.

ECM 3: Vehicle Load Management

Transporting excess weight has a negative effect on fuel efficiency. It is therefore advised that staff are informed of this and encouraged to check vehicle loads in order to minimise these where practicable.

ECM 4: Route Planning

It is advised that route reviews are undertaken to facilitate the most efficient route(s). Consumption reduction could be possible if routes are effectively planned. This will ensure transportation is carried out as efficiently as possible by minimising distances travelled.

ECM 5: Maintenance Checks

In order to maximise vehicle efficiency it is recommended that regular maintenance checks are carried out. A checking rota can be developed giving each vehicle a pre defined date for. Checks can then be scheduled at pre defined intervals i.e. 3 monthly basis.

ECM 6: Reduce Engine Idling

Engine idling occurs when a vehicles engine is running without the vehicle moving, meaning the vehicle is burning fuel without any benefit. It is advised that drivers are encouraged to switch off vehicle engines when motionless. For example if traffic conditions mean it's unlikely the vehicle will be moving in the next one to two minutes, the vehicles engine can be switched off in order to minimise fuel / energy consumption, this also has additional benefits such as reducing air and noise pollution.

Summary of Recommendations

The following transportation recommendations have been made:

- Driver Fuel Performance Training
- Tyre Pressure Checks
- Vehicle Load Management
- Route Planning
- Maintenance Checks
- Reduce Engine Idling

Action Plan

It is a new requirement for ESOS Phase 3 that all participants are required to prepare an action plan or target plan following the Phase 3 compliance deadline (5th June 2024). It is anticipated that there will be an expectation that participants will have to report against the action plan annually, with a full progress review taking place as part of ESOS Phase 4 in 2027.

The action plan is expected to be required by December 2024. The details on how to complete the action plan will be published in final guidance on gov.uk once the new ESOS regulations have been laid in Parliament in advance of the Phase 3 compliance deadline.

Next Steps

This report provides an indicative programme of energy saving opportunities, where appropriate, associated costings, energy savings and payback periods have been outlined. Green Energy Consulting can provide SecuriGroup Limited with further information on and assistance in implementing all of the recommendations outlined in this report.

As outlined above, there is also now a requirement for participants to prepare an action plan. Once the final details of requirements are published by the UK government, Green Energy Consulting will be able to assist SecuriGroup Limited in preparing a compliant action plan.

The action plan is expected to be required by December 2024. The details on how to complete the action plan will be published in final guidance on gov.uk once the new ESOS regulations have been laid in Parliament in advance of the Phase 3 compliance deadline.

Lead Assessors Summary

Between 1st October 2022 and 30st September 2023, SecuriGroup Limited consumed 1,210,860 kWh of energy. This was split between gas (125,089 kWh - 10.33%), electricity (60,448 kWh - 4.99%) and transport (1,025,322 kWh - 84.68%).

One site was audited in order to achieve compliance with Phase 3 of the ESOS scheme. The site was selected in order to provide a representative sample of group operations and thus energy usage. The selected site was 349 Bath Street.

Across the audited sites, it was determined that the electric Significant Energy Consumers (SEC's) were IT Equipment (35.62%), Server Equipment (21.71%) and Lighting (18.23%). Meanwhile the gas SEC's were gas boilers (100%). Transportation based consumption is attributed to fuel spend - Company Vehicles (82.49%) and mileage claims - employee vehicles (17.51%).

To reduce energy consumption across the portfolio, the following energy saving measures have been identified:

- Energy walk around
- Energy efficient equipment procurement
- PIR Sensors
- Server management and mapping
- Cloud computing
- Staff training and energy saving strategy

In order to reduce energy consumption from transportation, SecuriGroup Limited can consider a number of measures including driver fuel performance training and tyre pressure checks.

ESOS Sign Off Page

To whom it may concern,

The sign off page presented here is to confirm that Green Energy Consulting have been contracted to ensure SecuriGroup Limited's compliance with the Energy Savings Opportunity Scheme (ESOS) legislation.

The report here provides evidence that SecuriGroup Limited has carried out and met this obligation with the help of Green Energy Consulting and their team of assessors and auditors.

Glen Clement has been appointed as the Lead ESOS Assessor (Member No. EES/030237) for Green Energy Consulting, accredited in 2019 through Stroma, and is committed to upholding the standards set out by the ESOS legislation.

In the matter of SecuriGroup Limited's ESOS assessment, it is of the opinion of the lead assessor that the organisation is in compliance with the standards outlined in EN-16427. This report has been reviewed by both the Assessor and an appointed Director at SecuriGroup Limited.

A signature by the Lead Assessor and a board-level Director at SecuriGroup Limited is required and present in this document to confirm that the board at SecuriGroup Limited:

- Have reviewed the recommendations of the organisation's ESOS assessment or alternative routes to compliance.
- Are satisfied, to the best of their knowledge, that the organisation is within the scope of the scheme.
- Are satisfied, to the best of their knowledge, that the organisation is compliant with the scheme.
- Are satisfied, to the best of their knowledge, that the information provided in the organisation's notification is correct and up to date.

Directors Name	Lead Assessors Name
	Glen Clement
Directors Signature	Lead Assessors Signature
Date	Date
Directors Email	Lead Assessors Email
	glen@greenenergyconsulting.co.uk
Directors Contact Number	Lead Assessors Contact Number
	0191 300 6363

Managing Your Net Zero Journey

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