

## Avrenim Carbon Reduction Plan Policy

### Commitment to achieving Net Zero

This Carbon Reduction Plan defines our carbon management programme of activity for the coming years. It sets the strategic context and the case for action, our estimated current carbon emissions, a programme of proposed projects and actions to reduce our emissions and the governance arrangements to keep the programme on track.

Avrenim is committed to continue to reduce, reuse and recycle to decrease the environmental impact of our activities. Avrenim Group is committed to achieving Net Zero emissions by 2040 as it aligns with the Liverpool City Region Zero-Carbon strategy which targets 2040 as net zero carbon emissions ahead of UK Government target of 2050.

Our overarching ambitions are to support and educate our employees, our customers and people that interact with our services to achieve our carbon reduction ambitions.



### Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

This plan is concerned with Climate Change Mitigation, which means reducing the emissions of greenhouse gases from our activities as a manager of services, buildings and facilities. Climate change mitigation is necessary due to mainly human activities such as burning of fossil fuels which has resulted in the global average temperature rising by 0.6°C over the last 115 years. The temperature rise has affected the UK climate with increased frequency of rain, wind, fewer frosts, rising sea levels and sporadic cold/hot spells resulting in stratospheric ozone depletion and environmental changes in areas such as

desertification, flooding, biodiversity, farming, and air quality. Such bad weather disrupts peoples' livelihoods, receipt of services and transport.

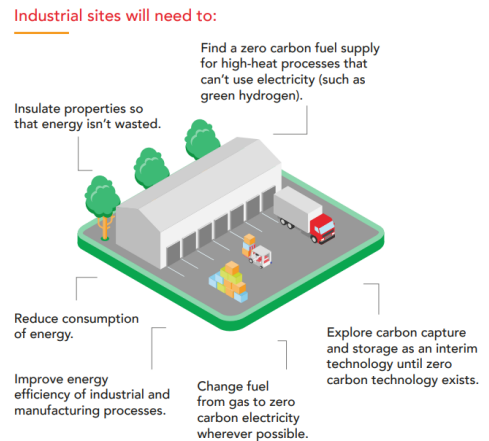
The methodology employed in mobilising and implementing this result driven Carbon Reduction Plan is illustrated in the five step process diagram below:



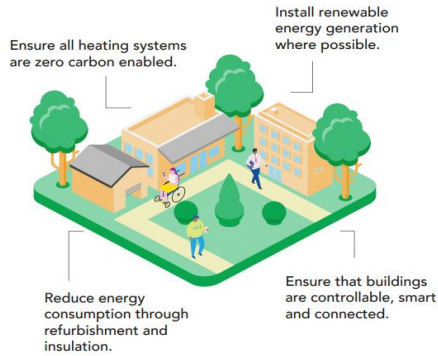
As an organisation Avrenim continually strive to support our employees, our customers and the general public to focus on their carbon impact daily.

We educate that the facilities as depicted within these diagrams take differing approaches to achieve a carbon reduction that is truly meaningful in the fight against climate change.

Industrial sector sites are generally heavy energy consumers and key attributes of their sites can be addressed to minimise their baseline emissions as shown here. Reducing carbon impact isn't a default to replacing plant and equipment with new technology and fuel. Site use and building fabric plays an equally important part.



Public buildings, offices, leisure and retail buildings will need to:



Public and commercial buildings offer slightly different challenges, but the principles applied are the same. Explore building use and fabric to establish baseline energy demand. Reduce the baseline and then add new technology to support that demand as efficiently as possible with the most minimal carbon impact achievable.

Scope and Data Sources

The globally accepted carbon accounting standard known as the Greenhouse Gas Protocol (GHG) defines direct and indirect emissions as follows:

- Direct GHG emissions from sources that are owned or controlled by Avrenim.
- Indirect EHG emissions are emissions that are a consequence of the activities of Avrenim but occur at sources owned or controlled by another organisation.

The GHG Protocol further categorises these direct and in direct emissions into three broad scopes:

Scope 1: All direct GHG emissions such as gas, wood pellets.

Scope 2: Indirect GHG emissions from consumption of purchased electricity, heat, or steam.

Scope 3: Other indirect emissions, such as the extraction and production of purchased materials and fuels, transport-related activities in vehicles not owned or controlled by Avrenim, electricity related activities not covered in scopes 1 and 2 such as outsourced activities, waste disposal and water consumption and treatment.

<b>Baseline Year: 31<sup>st</sup> October 2007/ 1<sup>st</sup> November 2008</b>
<b>Additional Details relating to the Baseline Emissions calculations.</b>
Avrenim Group is embedded within the Liverpool University Hospitals NHS Foundation Trust buildings. As such the Avrenim group closely aligns itself with the Trust to lower its carbon emissions as a company.

<b>Baseline year emissions:2007/2008</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	51
<b>Scope 2</b>	40,163
<b>Scope 3 (Included Sources)</b>	10,963
<b>Total Emission s</b>	51,177

Scope 3 Category	Category description	Estimated Emissions
Upstream transportation and distribution	<p>Transportation and distribution of products purchased by Avrenim between our tier 1 suppliers and our own operations (in vehicles and facilities not owned or controlled by Avrenim)</p> <p>Transportation and distribution services purchased by Avrenim including inbound logistics, outbound logistics and transportation and distribution between our own facilities (in vehicles and facilities not owned or controlled by Avrenim)</p>	<b>58.4 t CO2</b>
Waste generated in operations	Disposal and treatment of waste generated in Avrenim operations (in facilities not owned or controlled by Avrenim)	<b>275 t CO2</b>
Business travel	Transportation of employees for business related activities during the year (in vehicles not owned or operated by Avrenim)	<b>22.8 t CO2</b>
Employee commuting	Transportation of employees between their homes and their worksites during the reporting year (in vehicles not owned or operated by Avrenim)	<b>55.1 t CO2</b>
Downstream transportation and distribution	Transportation and distribution of products sold by Avrenim in the year between our operations and our customers (if not paid for by Avrenim), including retail and storage (in vehicles and facilities not owned or controlled by Avrenim)	<b>20.4t CO2</b>

Current Emissions Reporting

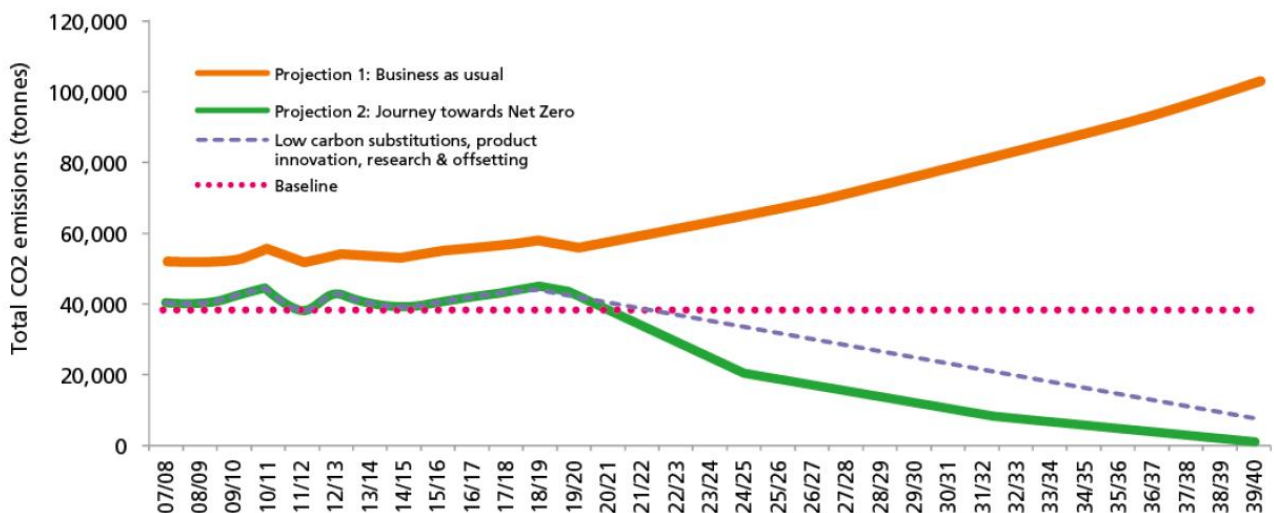
Reporting Year: 31 <sup>st</sup> October 2022/ 1 <sup>st</sup> November 2023	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	60
Scope 2	42,428 (increased workload)
Scope 3 (Included Sources)	9,824
<b>Total Emissions</b>	<b>52,312</b>

Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

We project that carbon emissions will decrease over the next four years to 22,000 tCO<sub>2</sub>e by 2027. This is a reduction of circa 40%

Progress against these targets can be seen in the graph below:



As can be seen in the graph above the 50% reduction in carbon emissions is the target for the next 5 years.

### Carbon Reduction Projects

#### Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2007/2008 baseline. The carbon emission reduction achieved by these schemes equate to 9,000 tCO<sub>2</sub>e, a 20%ge reduction against the 2007/2008 baseline and the measures will be in effect when performing the contract. These reductions were created by implementing onsite electricity generation via CHP's. these CHP's are natural gas fired and as such over the last 4 years, since the de-carbonisation of the grid electricity, have not contributed to carbon reduction as these did when first operational.

In the future we hope to implement further measures such as:

1. Existing CHP's are to be converted from natural gas fired to hydrogen fired, the current CHP's are to be replaced within the next 5 to 7 years and in this time the Northwest Hydrogen network should be available to connect to.
2. Avrenim Group's fleet of company cars and service vans are being renewed with electric or hybrid (phev) vehicles from 2023 onwards

### Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard<sup>3</sup>.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body). It is intended for 2023 to align our carbon reporting within our financial year reporting period (calendar year Jan 1<sup>st</sup> – Dec 31<sup>st</sup>)

*Signed*



*Simon Harris*

*CEO Avrenim Group*

*Date: November 6th 2023*

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<sup>1</sup><https://ghgprotocol.org/corporate-standard>

<sup>2</sup><https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

<sup>3</sup><https://ghgprotocol.org/standards/scope-3-standard>