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Commitment to achieving Net Zero

Novumgen is committed to achieving Net Zero emissions by 2045.

Journey to Net Zero

This document provides a starting point on Novumgen's efforts to enhance our sustainability initiatives. As our company continues to grow and evolve, it is important that we set out a baseline and periodically reassess and recalibrate our environmental goals to ensure they remain both ambitious and achievable.

In line with the Global dedication to environmental sustainability, Novumgen is initiating its carbon reduction plan (CRP). Through this CRP, we aim to significantly decrease our environmental impact, contribute to global efforts in combating climate change, and promote a more sustainable future.

This baseline assessment accurately sets out the commencement of our journey, acknowledging our focus on our emissions reduction. To progress towards Net Zero, we have initially set carbon reduction targets to 2035. After 2035, we will set our targets for the remaining period to ensure we reach Net Zero by 2045.

Carbon Reduction Targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets in line with those of the NHS.

Novumgen's targets to achieve net zero greenhouse gas emissions are challenging but we are determined to meet them. For emissions we control directly (the Novumgen Carbon Footprint), our target is net zero by 2040, with an 80% reduction by 2028 to 2032.

For emissions we can influence (our NHS Carbon Footprint Plus), our target is net zero by 2045, with an 80% reduction between 2036 and 2039.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and will be the reference point against which Novumgen's emissions reduction can be measured.

Baseline Reporting Period: Calendar Year 1st January 2024 – 31st December 2024.

Additional Details relating to the Baseline Emissions calculations

We have undertaken an independent review of our carbon reduction plan through our consultants with CLS Energy. CLS Energy have not been provided the 2023 data but have been provided with 2024 data. This is now the basis of the company's baseline data set.

We have identified opportunities to refine our targets in alignment with our expanding operations and evolving understanding of sustainability best practices. This includes expanding our scope 3 aspects, defining our geographical boundaries to the UK, and confirming our reporting period as calendar year 2024.

This strategic re-baselining of our carbon reduction plan reflects our commitment to a greener future and corporate responsibility. By setting and reporting new, and accurate targets based on our data and methodologies, we are reaffirming our dedication to reducing our carbon footprint.

Our baseline year provides our first accurate reporting on our carbon emissions. We are excited to embark on this next phase of our sustainability journey and remain grateful for your ongoing support and partnership as we work together to build a more sustainable future for generations to come.

Greenhouse Gas Emissions

Greenhouse gases are accepted as predominantly responsible for the greenhouse effect and consequent global climate change. Figures are aggregated to give total greenhouse gas emissions in CO₂ equivalents (CO_{2e} also known as greenhouse gases or GHGs).

The sources of greenhouse gas emissions that this report is based upon are as follows:

Novumgen Energy Consumed 2024	Scope
Mains Gas	1
Transport Fuel	1
Fugitive Emissions	1
Electricity	2
Grey (Private) Fleet	3
Public Transport	3
Commuting	3
Upstream & Downstream Transport	3
Pharma Testing	3
Water S&T	3
Home Working	3
Waste	3

Grouping by 'scope'

Greenhouse gas emissions are identified as one of three groups, known as scopes. These relate to their means of control:

Scope 1: Direct emissions - GHG from the Company's owned buildings/assets – such as gas or fuel where the company has direct control over its purchase and consumption.

Scope 2: Indirect (e.g., GHG emissions from other organisations that produced the electricity, district heat, steam, or cooling that the Company bought to use but has little or no control over.

Scope 3: Other indirect emissions – GHG emissions because of the Company's actions (e.g., grey fleet)

Exclusions: All other sources have been excluded as these are scope 3 emissions. Such exclusions include water and waste.

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.

The company's emissions are set out in the report that follows:

Baseline Year: 2024

Additional Details relating to the Baseline Emissions calculations.

This report represents the first independently audited and published Carbon Reduction plan for Novumgen. It has a baseline year of 1st Jan to 31st Dec 2024.

Due to the nature of the operations which are largely outsourced, we have included as many Scope 3 emissions as possible. For some of our current Tier 1 suppliers, this is the first time they have been asked for such data. We intend to work in partnership with them going forward to improve the quality of these data which form their scopes 1 and 2 data.

Baseline year emissions:

Current Emissions Reporting

Reporting Year: Jan to Dec 2024	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	0.25
Scope 2	0.18
Scope 3 (Included Sources)	102.73
Total Emissions	103.16

Novumgen's emission for 2024 are set out below:

Source	Total (tCO ₂ e)	CO ₂ (tonnes)	CH ₄ (tonnes)	N ₂ O (tonnes)	HFCs (tonnes)	PFCs (tonnes)	SF ₆ (tonnes)
Emissions from combustion of gas (Scope 1).	0.18	0.18	0.00	0.00	N/A	N/A	N/A
Fugitive emissions (Scope 1).	0.00	Unstated	Unstated	Unstated	Unstated	Unstated	Unstated
Emissions from combustion of fuel for transport purposes (Scope 1).	0.07	0.07	0.00	0.00	N/A	N/A	N/A
Emissions from purchased electricity (Scope 2 location based)	0.18	0.18	0.00	0.00	N/A	N/A	N/A
Grey Fleet (Scope 3)	7.17	7.12	0.01	0.04	N/A	N/A	N/A
Public Transport (Scope 3)	0.33	0.24	0.33	0.00	N/A	N/A	N/A
Commuting	37.78	37.51	0.05	0.23	N/A	N/A	N/A
Water Supply and Treatment (Scope 3)	0.10	Not used	Not used	Not used	Not used	Not used	Not used
Waste	3.27	Not used	Not used	Not used	Not used	Not used	Not used
Home Working	0.08	Not used	Not used	Not used	Not used	Not used	Not used
Laboratory Testing	0.10	Not used	Not used	Not used	Not used	Not used	Not used
Upstream and Downstream Transport (Scope 3)	53.89	Not used	Not used	Not used	Not used	Not used	Not used
Total gross tCO₂e based on above	103.16	60.40	0.06	0.41	0	0	0

Emissions Reduction Targets

2024 is the first year in which we have been able to accurately assess our UK emissions. This report therefore serves as our baseline. In order to both commence and continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

Targets

We have elected to follow the NHS targets, and have set these as our targets, specifically:

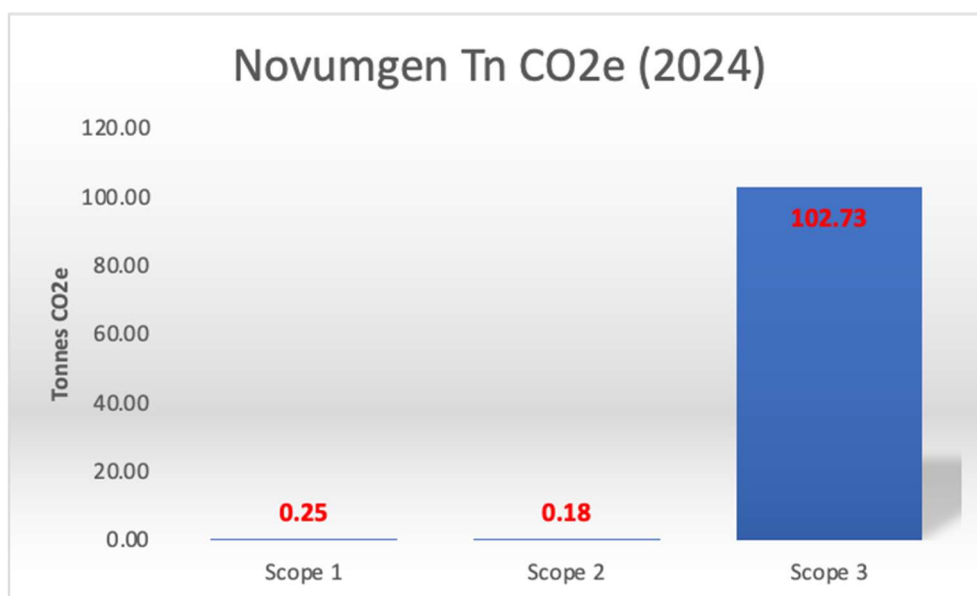
- For the emissions we control directly (the NHS Carbon Footprint), we will reach net zero by 2040, with an ambition to reach an 80% reduction by 2028 to 2032.
- For the emissions we can influence (our NHS Carbon Footprint Plus), we will reach net zero by 2045, with an ambition to reach an 80% reduction by 2036 to 2039.

We have factored the five scope 3 requirements of the NHS and also gone beyond this to include such aspect as home working and process electricity consumption for our outsourced drug testing.

These are agreed as our first and current baseline CO_{2e} footprint in terms of scope is tabled below:

Novumgen Scope 2024	Tn CO _{2e}	CO _{2e} (%age)
Scope 1	0.25	0.24
Scope 2	0.18	0.18
Scope 3	102.73	99.58
Total	103.16	100.00

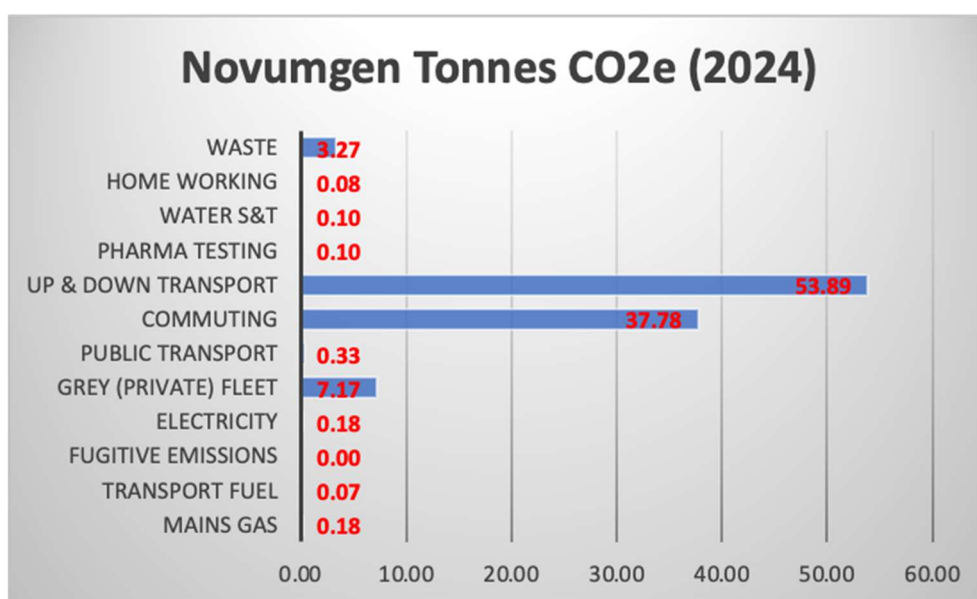
And graphed as below:



We recognise that as an organisation, our scope 3 transport is our largest emitter. This is apparent in the following table:

Novumgen Energy Consumed 2024	Scope	Tonnes CO2e
Mains Gas	1	0.18
Transport Fuel	1	0.07
Fugitive Emissions	1	0.00
Electricity	2	0.18
Grey (Private) Fleet	3	7.17
Public Transport	3	0.33
Commuting	3	37.78
Upstream & Downstream Transport	3	53.89
Pharma Testing	3	0.10
Water S&T	3	0.10
Home Working	3	0.08
Waste	3	3.27
Total		103.16

With the following graph exemplifying this:



Progress against these targets will be seen in the future iterations of the company's Carbon Reduction Plan.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented prior to and since our 2024 baseline. The carbon emission reduction achieved by these schemes is significant. These measures will be in effect when performing our operations.

Novumgen outsource all our manufacturing, distribution, and other core operations to external global partners. This approach allows us to leverage specialised expertise and reduces our direct environmental footprint. As these activities are managed by third parties, the associated emissions fall outside our direct control and responsibility and thus are not classified as our Scope 1 or Scope 2 emissions.

However, recognising that these scope 3 activities are occurring as a result of our actions, we take responsibility to assist in addressing them. We are therefore focusing our attention on all of the Scope 3 activity that can be addressed at this time.

We now encourage virtual meetings (including board meetings) to reduce unnecessary commuter travel (which we measure and report upon). We also have a hybrid working policy operating on flexible hours. This encourages staff and consultants to avoid the commute and work from home using energy efficient laptops and equipment with power saving settings. We capture and report home working as separate emissions.

When face-to-face meetings or office work are necessary, we rent office space at Regus Breakspair Park in Hemel Hempstead. This facility operates a shuttle bus to and from the station and over 100 bicycle racks for staff. The site is LED lit and controlled with movement detectors.

We utilise cloud-based services and platforms for storage, collaboration, and computing needs. This provides reduced emissions as a result of economies of scale and optimised resource utilisation. We intend to include these emissions in future years when data is available.

Electricity is purchased on a 100% renewable energy tariff. This addresses our office-related activities Scope 2 market-based emissions. Naturally, our location-based emissions are based on actual activity and are captured within our data. These are benchmarked from data provided by or Landlord and from calculations conducted against square meters area and energy consumption per m² for a building of this type in the UK. Our lack of site meter control means that whilst any savings we make, do not directly benefit Novumgen, they do reduce overall emissions.

Since waste data is not currently captured for the site, our consultant has run calculations for an operation of this scale and excluded paper recycling from the figures. This is to replicate an office site that is both printer-less and paperless through a policy of digitisation and the use of online collaboration tools to facilitate document sharing. The Landlord endeavours to ensure that waste is recycled where possible and that minimal volumes are sent any waste to landfill.

Novumgen Limited does not maintain a fleet of company-owned vehicles, further reducing potential sources of Scope 1 emissions. Our employees primarily use public transportation, or other sustainable modes of travel, reinforcing our commitment to reducing our carbon footprint.

With our appointment of CLS Energy, working alongside our Quality Control Engineer, we are continually improving the tracking and monitoring of our data and that of our tier 1 supply chain.

Intensity ratios

Novumgen have elected to use all captures scopes of CO_{2e} (tonnes) by:

- Annual turnover for 2024
- Site Areas (m²)

- Headcount
- Miles travelled

Novumgen have chosen these metrics as common and most practicable business metrics for the industry sector.

As such the current figures are:

Tonnes of scope 1, scope 2 and 3 CO _{2e} per million £ of turnover:	16.2991 tonnes
Tonnes of scope 1, scope 2 and 3 CO _{2e} per m ² of area:	10.3161 tonnes
Tonnes of scope 1, scope 2 and 3 CO _{2e} per headcount:	4.6891 tonnes
Tonnes of scope 1, scope 2 and 3 CO _{2e} per mile:	0.0004 tonnes

The details of these will be graphed in future reports to demonstrate direction of travel, meanwhile tabled below:

Intensity Metrics	Intensity Tn CO _{2e} Per Aspect
Turnover	16.2991
M2	10.3161
Staff Nos or Desk Numbers	4.6891
Miles Travelled	0.0004

Key Elements of Our Commitment:

In our commitment to environmental responsibility, we have set ambitious targets across all three emission scopes to allow progress toward achieving Net Zero. Our strategy encompasses a holistic approach, integrating sustainability, energy and fuel efficiency, across all operations. To drive our sustainability journey, we actively engage and collaborate with our stakeholders, our tier 1 suppliers, our employees, and our partners.

Transparency and accountability are integral to our approach. We provide clear and transparent reporting. We have engaged in a partnership with CLS Energy via our Quality Control Engineer to ensure independent and accurate calculation and verification of our emissions and those of our supply chain. CLS Energy provide specialist advice and guidance on reducing our carbon footprint and assessing and monitoring of our progress. We hold ourselves accountable for our environmental initiatives.

Recognising the dynamic nature of this journey, we prioritise continuous improvement. We remain open to adaptive strategies and innovations that further enhance our environmental impact reduction efforts.

Future Target Measures

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

Employee Education and Engagement: Continue to educate employees about the environmental impact of their actions and encourage them to adopt sustainable practices in their remote work setup, such as minimising energy consumption, reducing waste, and choosing eco-friendly products.

Recognising that Scope 3 emissions have such a large emphasis on what we do, we will work to engage with our current and future suppliers and vendors: This to prioritise and demonstrate sustainability and environmental responsibility. We will select logistics partners that provide sustainable transport fuels and services. Whilst we accept that this will carry a marginal additional cost, it is our firm belief that primary investment here will not only help to tangibly reduce emissions but will also improve local air quality.

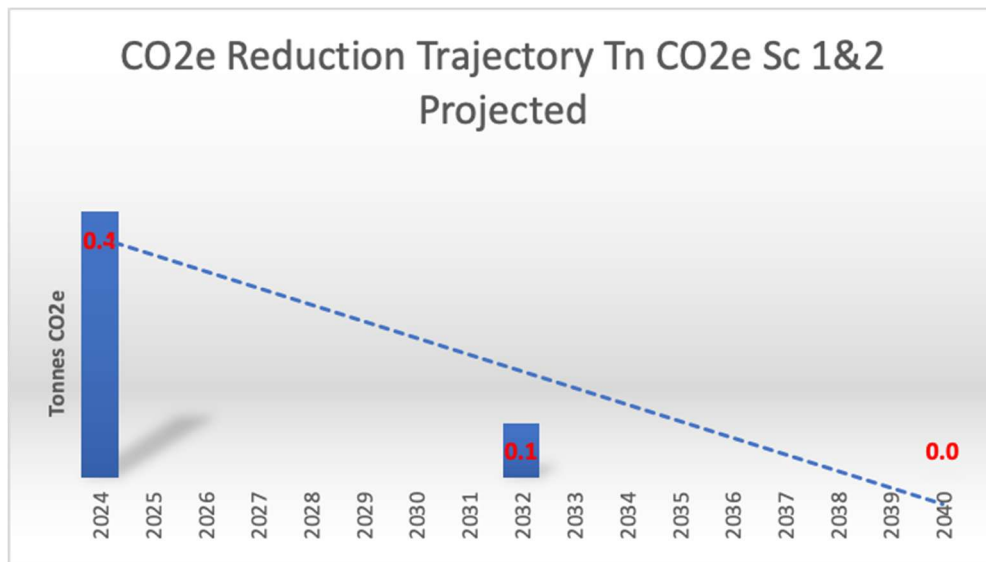
Outsourced Activities: We will ensure that new activities are outsourced to companies with a commitment and demonstrable track record and an auditable trajectory for reducing their energy and fuel consumption and consequent carbon emissions.

In the report that follow is this one, we will set out the environmental management measures and projects that we complete or implement after this 2024 calendar year baseline.

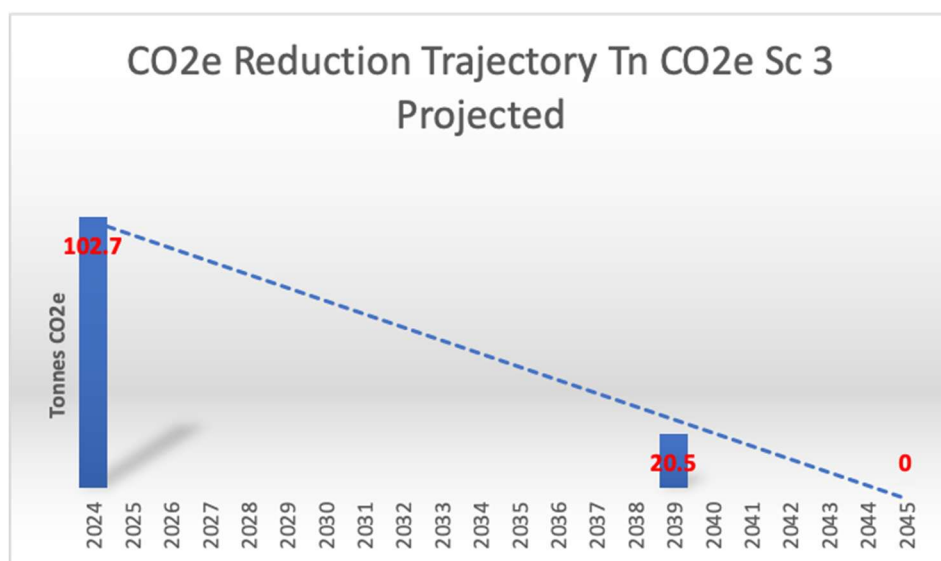
The carbon emission reduction achieved by these schemes will be set out in tnCO_{2e}, and a percentage reduction against this 2024 baseline will be in effect when performing the contract.

Carbon Offsetting: Whilst we recognise that tree planting can only hope to achieve carbon neutrality, we are committed to planting trees through the sponsorship of an environment driven charity to benefit the environment as we progress on our journey to net zero.

Direction of trajectory against these targets can be seen in the graph below. Graph below shows the current direct emissions generated by Novumgen alongside NHS linked targets to new zero 2040:



Graph below shows the current indirect (Scope 3) emissions where Novumgen may influence alongside NHS linked targets to new zero 2040:



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. This report has been summarised as the original report provided by CLS contains confidential commercial information and is considered irrelevant for transparent carbon emission reporting.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard. Calculations use the appropriate Government conversion factors for greenhouse gas company reporting.

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. This Carbon Reduction Plan has been reviewed and signed off by the board of directors.

Nash Patel
Global Sales Director

Next Steps

Having produced this carbon Reduction plan Baseline, we have been careful to work with the company to select appropriate intensity ratios in order that these is comparable and a relevant measure for the company.

It is recommended that the Company continues to act on energy savings opportunities and work to encourage the improvement of its supply chain. This will assist the company to establish:

- Where the significant energy users are.
- Through metering and fleet assessment, what controls and savings can be made.
- What technologies are appropriate to reducing energy use and costs.
- The optimal route towards zero carbon.
- A profiling exercise conducted on the fleet and fleet managers to ascertain potential areas for improvements.

Caveats

Whilst every effort is made to ensure the appropriateness of this process to meet the needs and requirements of the organisation, neither CLS Energy (Consultancy) Ltd or its associates can be held responsible for omissions of data or analysis where this was not made available to us or was not readily or suitably available for the purposes of checking and analysis.

Responsibility for any penalties that may be applied by Government, the Department for Energy Security and Net Zero (DESNZ), or its agents remain entirely with Novumgen.

Similarly, any liability upon CLS Energy (Consultancy) Ltd, or its associates are limited in their entirety to the quoted fee agreed for this piece of work.

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