



## Commitment to achieving Net Zero

Supplier Name - Seqirus UK Ltd

Publication Date – 28<sup>th</sup> March 2022

### 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.

<b>Baseline Year: 2019</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
We have formalised our approach to meet the requirements of PPN-06/21 and can report against these requirements from 2019.	
<b>Baseline year emissions:</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	<b>4,145.58 t CO<sub>2</sub>e</b>
<b>Scope 2</b>	<b>4,892.52 t CO<sub>2</sub>e</b>
<b>Scope 3 (Included Sources)</b>	<b>3,920.72 t CO<sub>2</sub>e</b>
<b>Total Emissions</b>	<b>12,958.82 t CO<sub>2</sub>e</b>



<b>Reporting Year: 2020</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
We have formalised our approach to meet the requirements of PPN-06/21 and can report against these requirements from 2019.	
<b>Baseline year emissions:</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	<b>4,438.85 t CO<sub>2</sub>e</b>
<b>Scope 2</b>	<b>3,239.62 t CO<sub>2</sub>e</b>
<b>Scope 3 (Included Sources)</b>	<b>2,471.38 t CO<sub>2</sub>e</b>
<b>Total Emissions</b>	<b>10,149.86 t CO<sub>2</sub>e</b>

## Current Emissions Reporting

<b>Reporting Year: 2021</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	<b>4,807.84 t CO<sub>2</sub>e</b>
<b>Scope 2</b>	<b>49.21 t CO<sub>2</sub>e</b>
<b>Scope 3 (Included Sources)</b>	<b>2,052.85 t CO<sub>2</sub>e</b>
<b>Total Emissions</b>	<b>6,909.91 t CO<sub>2</sub>e</b>



## Emissions reduction targets

Seqirus UK Ltd is committed to achieving Net Zero emissions by 2050.

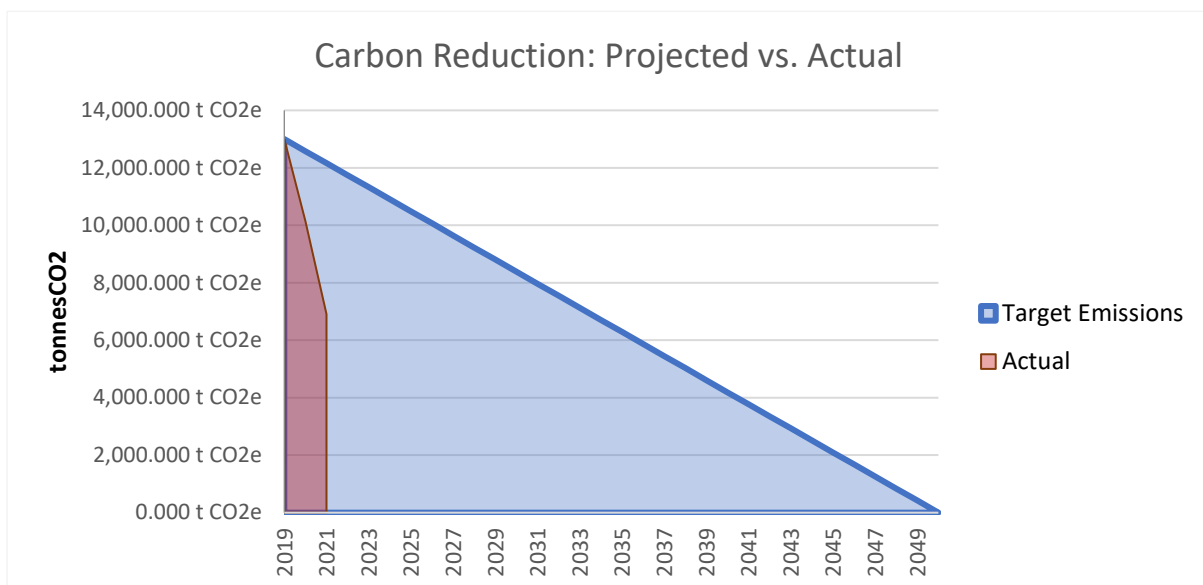
In the UK it operates as Seqirus UK Ltd, a commercial head office entity, supported by Seqirus Vaccines Ltd, as its sub-contracted production site. The combined entities are hereinafter referred to as 'Seqirus'. This plan largely relies on reduction of emissions from Seqirus' manufacturing site in Liverpool "Seqirus Vaccines Ltd" given its relative contribution to the combined emissions for the two entities.

Progress against Net Zero commitment will be tracked annually, and the graph below will be updated.

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

We project that scope 1 and 2 carbon emissions will decrease over the next five years to 4,195.05 tCO<sub>2</sub>e by 2027. This is a further reduction of 13.6% on our current 2021 scope 1 and 2 emissions.

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





## Carbon Reduction Projects

### Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to 4,184.093 t CO<sub>2</sub>e, a 54% reduction in Scope 1 & 2 emissions against the 2019 baseline and the measures will be in effect when performing the contract.

The initiatives undertaken were:

- The commitment to purchase electricity from known renewable sources, backed by a Power Purchase Agreement and Renewable Energy Guarantees of Origin Certificates.
- Optimising facilities managed assets through a structured process, identifying the scale of inefficiencies across individual assets, systems, and recognising viable energy improvement opportunities.
- Seqirus completed various energy management projects in 2021 whilst reducing our carbon emissions by 166 tCO<sub>2</sub>e. These projects ranged from external street LED Lighting retrofit Installations, to replacing all compact fluorescent light fittings to intelligent LED lighting. This now enables Seqirus to monitor all Lighting failures on a electronic Portal within our Downstream manufacturing Area.
- Seqirus Continue to monitor all waste streams from Liverpool and Maidenhead with Mitie waste Management. Looking at innovations to reduce our waste costs from production following our recent £60 Million investment on a fully automated Fill finish, inspection and packaging line installed for Liverpool Main manufacturing Site in 2021.
- No waste from Liverpool sites goes to landfill.
- In 2021 Seqirus produced 12,648.72 Tonnes of waste in total. 1,339.9 Tonnes were sent for recycling/recovery. This is a recovery rate of 9.44%.
- In 2021 We produced 8,521.78 Tonnes of Thiomersal bulk liquid waste sent for treatment. In February 2022 we implemented an Operational excellence continuous improvement plan to re-route some of the waste effluent and waste water coming from Primary Manufacturing to the foul drain and not to bulk liquid tankers. We estimate this will reduce this waste stream by 90%. In 2022.this will also reduce our Waste Emissions by 86.4 tCO<sub>2</sub>e

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

- We are presently Defining a strategy for the purchase of carbon offsets
- Achieving ISO 14001 Environmental Management, ISO 45001 OHS Safety, ISO 50001 Energy Management system certifications, we consider this an evaluation of our existing strategy and aim to adopt a ISO model of continuous improvement.



- BMS Optimisation project reducing our carbon emissions by 238 tCO<sub>2</sub>e  
Achieving HVAC energy reduction through BMS optimisation and reducing the steam demand to AHU's. Calculate each AHU discharge air temp based on cooling demand. Introducing room temperature dead bands. Control humidifiers and room humidity. Managing the introduction of a New control strategy.
- Heat recovery on 15 AHUs. Estimated saving of 425 tCO<sub>2</sub>e  
15 Air Handling Unit's with run around heat recovery systems will be upgraded. Replacing dirty filters, Installing new filters into empty filter housings. Install filtration onto supply air ducts, AHU 110,112. Install new filter box onto main supply air duct in plantroom 2. Clean all air intakes coils. Perform overhaul maintenance of all 15 recirculation pump systems.
- We are re-evaluating working practices to reduce carbon emissions further from April 2022 by allowing office based staff to reduce their office attendance to minimum of 25% and optimise Digitalisation technologies to remotely support the business creating a greater agile working environment for Seqirus Employees.
- Seqirus UK Ltd will continue to review our scope 3 emissions to establish further carbon reduction opportunities.
- Seqirus have a watching brief to convert our industrial Boilers currently fed by natural gas to Green Hydrogen when the supply network becomes available.
- Continue partnering with Schneider electric to build a pipeline of carbon reduction projects to support our commitment to meet Carbon zero by 2050.
- We are working with our facilities management providers to ensure that they are aligned with Seqirus in adopting their own carbon reduction strategies and working towards net zero by 2050.

## 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

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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>



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).

**Signed on behalf of the Supplier:**

DocuSigned by:  
*Sharon McHale*  
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Sharon McHale, Director

31-Mar-22  
Date: .....

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