

Carbon Reduction Plan

Supplier name: Lifebit Biotech Limited

Publication date: December 7th 2021

Commitment to achieving Net Zero

Lifebit Biotech Ltd is committed to achieving Net Zero emissions by 2050.

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.

Baseline Year: December 2020-November 2021

Additional Details relating to the Baseline Emissions calculations: *We note that not all emissions data were available at the time of creation, including data prior to 2020, so we have used 2020 as our baseline year and made estimates where needed. This is being actively addressed via external consultation with an environmental consultancy and this document will be revised with this data as soon as it becomes available.*

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1*	0
Scope 2	6.15
Scope 3 (i.e. Sources**: 3, 4, 6, 7)	807.62

Total Emissions	813.77
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**There are no direct emission from our business activities*

***The following Scope 3 categories are not addressed in our analysis as they were not relevant to our business or industry: Category 5: Waste generated in operations and Category 9: Downstream transportation and distribution, as such the tCO₂e is zero for these sources. Total CO₂e is taking into account the 6 greenhouse gases as defined in the Kyoto Protocol.*

***We note that Scope 3 Business travel is projected to be higher in the coming years than the 2020-2021 period shown above given travel restrictions that have been in place over this period.*

Current Emissions Reporting

Reporting Year: December 2020-November 2021

EMISSIONS	TOTAL (tCO₂e)
Scope 1*	0
Scope 2	6.15
Scope 3 (Included Sources**: 3, 4, 6, 7)	807.62
Total Emissions	813.77

**There are no direct emission from our business activities*

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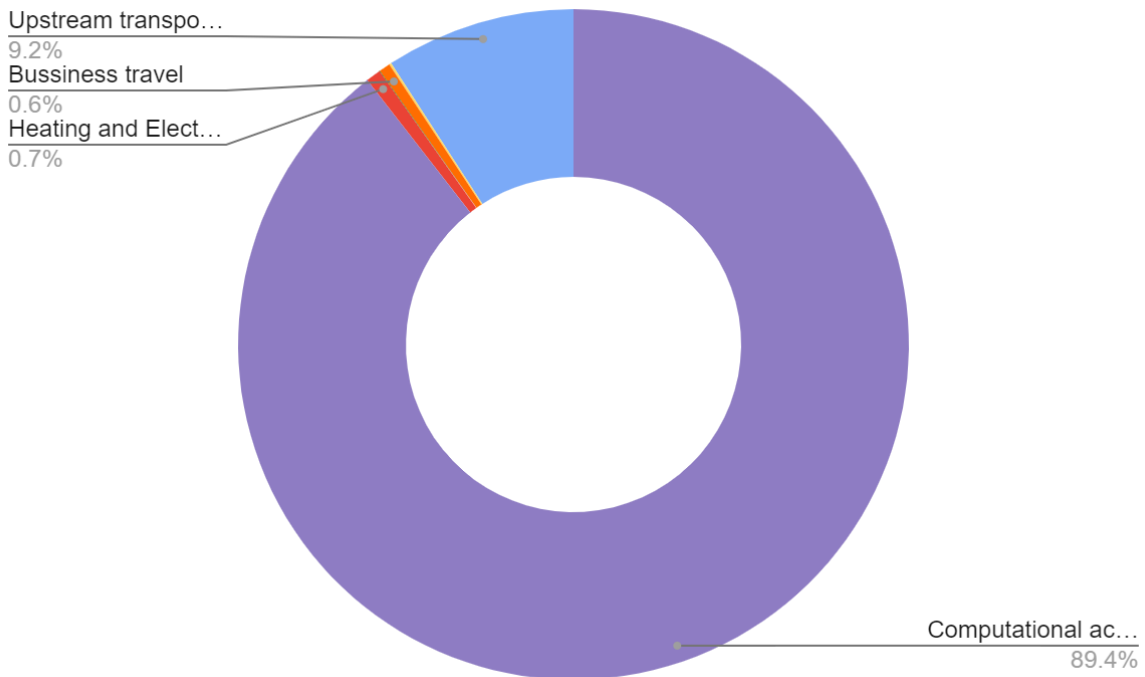


Figure 1. Lifebit current emissions from the year December 2020-November 2021. Calculated using the [Carbon footprint™ carbon calculator](#).

Emissions reduction targets

In order to achieve Net Zero, we are going to adopt the following carbon reduction targets. We have set an emission reduction target so that carbon emissions will decrease over the next five years to 651tCO₂e by 2026. This is a reduction of 20%.

The following areas were identified as our primary source of carbon emissions:

- Computational Activity. (Scope 3)** | Our company’s computational activity is the largest contributor within our footprint. Our software requires computing resources to process large amounts of data for our customers. This activity includes both our internal use of our software as well as our customers’ use of our products. Both our internal computing operations, and those of many of our customers, are hosted with major cloud computing providers around the world (e.g. AWS).
- Computers and other Technical Hardware. (Scope 3)** | As a software company, all our employees are equipped with laptops, and we purchase additional hardware for various purposes. The carbon footprint of these devices is our next largest source of carbon impact after computational activity.
- Energy Consumption. (Scope 2)** | The energy usage of our office is the third largest component of our carbon footprint.

- **Business Travel. (Scope 3)** | Business travel primarily includes customer outreach, attending conferences and symposia, and implementation of software at customer sites.

Reducing Our Impact

We are committed to eliminating as much of our carbon footprint as possible and to regularly reporting our progress. In Figure 2 we present a projected estimate of how we will reach these targets year-on-year to reach carbon zero by 2050. This shows that we will need to reduce the average carbon emissions by approximately 28 tons each year in order to reach zero by 2050.

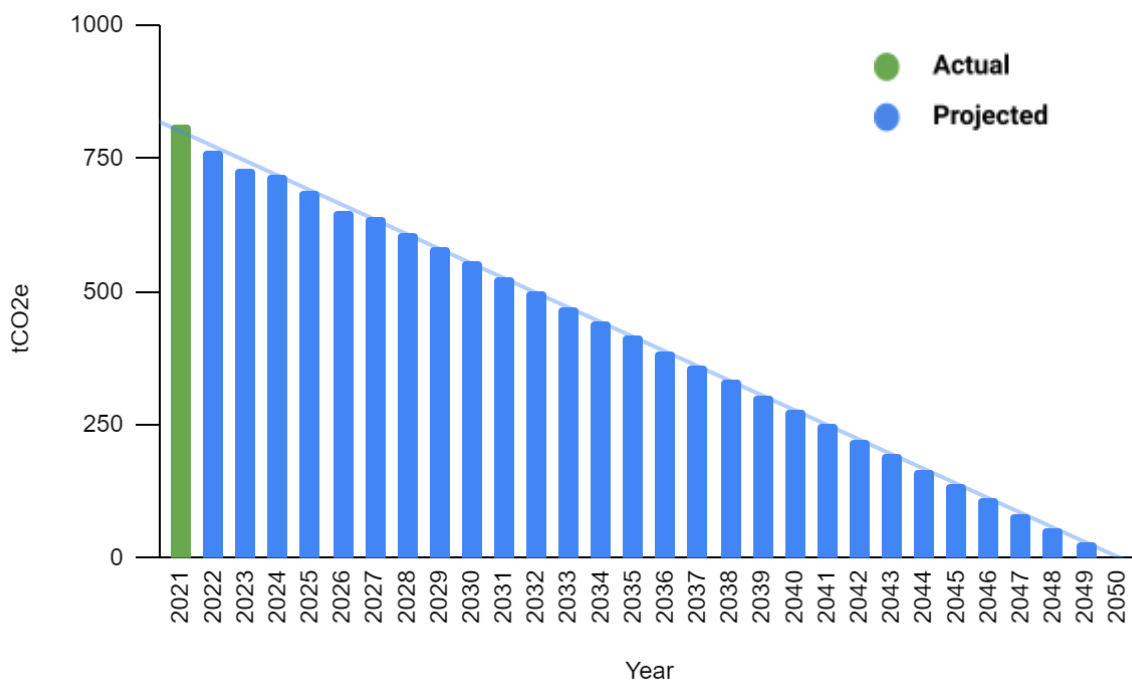


Figure 2. Lifebit 2021-2050 carbon reduction graph: Projected vs Actual. We note that this graph will be reviewed annually (or more frequently) as we accrue more data on our carbon emissions and gain a more granular breakdown of our emission outputs.

Below we outline some of the actions we have identified that can help to reduce our most significant emissions sources:

Computational Activity:

Our software can run either on-premise in our customers’ data centers or on cloud - for example on AWS, Microsoft Azure, and Google Cloud. Generally, cloud computing is significantly more efficient. We have prioritized working with those major cloud providers that have committed to powering their data centers exclusively with renewable energy by 2025 (e.g. AWS) or 2030, including those who are already carbon neutral today. As a

company, Lifebit promotes the implementation of optimised cloud computing for the analysis of large-scale datasets. We note that cloud-based computing reduces energy consumption, waste, and carbon emissions, thereby having a noteworthy impact on both society and the natural environment.

Computers and other Technical Hardware:

As a software company, computer equipment is very important for operational reasons. When buying new equipment, we will always choose the most energy efficient and sustainable (regarding the origin or manpower ethical standards) options. We plan to research and select suppliers that already have a carbon reduction program in place. As an example, for laptops we primarily source these from Lenovo or Apple, Lenovo has an established carbon reduction program and ISO 14001-certification and Apple have committed to 100% carbon neutrality by 2030.

Energy Consumption:

We are planning to reduce energy consumption by an awareness campaign about energy consumption, including a “switch it off” policy for lightbulbs, lowering the heating or the air conditioning and taking devices off plugs when they are not needed. As we rent a co-working office we are not able to action all changes however we will make suggestions to the operations team around replacing lightbulbs with energy-efficient LED alternatives, introduction of smart metres and more energy-efficient heating/cooling systems.

Business Travel:

We plan on reducing the amount of air travel per worker wherever possible. We will develop and implement guidelines to ensure we travel only where it is needed most, including putting in place policies and guidance around ‘remote-first’ meetings and using in-person meetings as a last resort. We will also make recommendations for business trips such as train transport over air transport where possible, combining journeys (i.e. incorporating a number of stops/visits in one trip rather than multiple trips) and assigning staff to attend based on proximity/locality to meeting location.

Carbon Reduction Projects

To commit to a carbon neutral future, Lifebit has sought external environmental consulting expertise to understand how we can work towards achieving widely recognised environmental management/impact standards, for example ISO 14001 and PAS 2060. We will endeavour to become certified across such standards by implementing company-wide changes so that we can demonstrate this commitment to our customers of a carbon neutral future.

In future, we plan to implement further measures which will continue to drive down emissions. This includes:

- Supporting Carbon Offsetting Projects
- Avoiding disposable cups, stirrers, and capsules for the coffee machine and giving kitchen crockery instead

- Reducing the amount of printing, reusing papers as drafts
- Clear guidance on correct sorting of waste for recycling purposes
- As we know, transportation is one of the largest sectors of greenhouse gas emissions. We will be encouraging employees to take public transit, to carpool with other colleagues living in close proximity
- We have a Cycle to Work program in place, however we plan on doing additional work towards encouraging employees to embrace such schemes where possible

*** Lifebit Biotech Ltd notes that this document is a first draft Carbon reduction plan. We are fully committed to achieving net zero carbon by 2050 and reducing our environmental impacts year-on-year. We will be revising this carbon reduction plan on an ongoing basis in collaboration with an external environmental consultancy. In addition, we note that not all emissions data was available at the time of creation so we have made estimates where needed - these are being actively investigated and this document will be revised with actual data as soon as it becomes available. ***

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standards 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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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) Standard³.

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:



Thorben Seeger
Chief Business Development Officer
December 6th, 2021

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

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

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