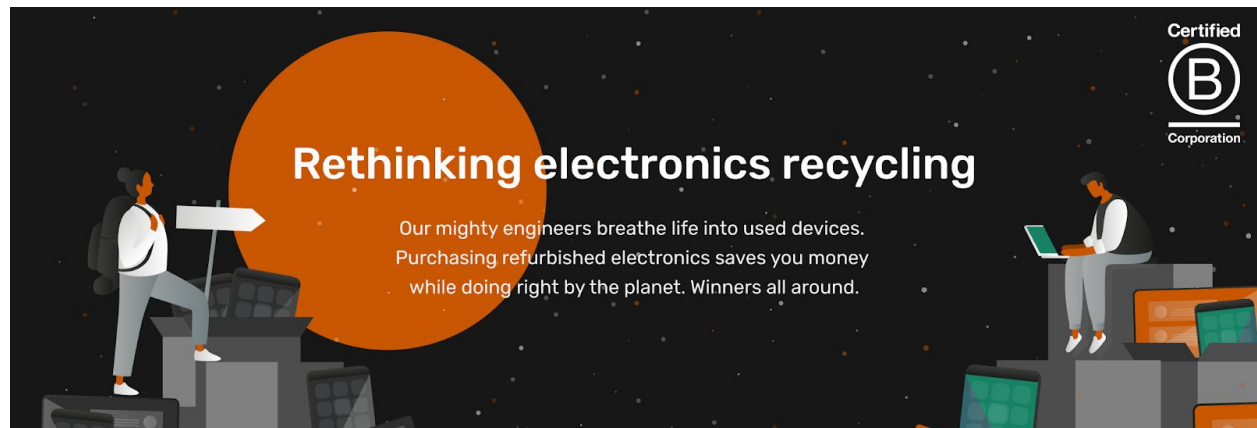




[Your company logo here]

Example ICT Sustainability Report

Prepared by Reconome for [your name here]

Introduction

Reconome is a [certified B Corp](#) on a mission to end electronic waste. As a B Corp, our business decisions consider the potential impact on workers, customers, suppliers, community, and the environment. The company supports businesses in the UK to increase the sustainability of IT hardware throughout its lifecycle, diverting redundant equipment from landfill while reducing procurement costs by $\frac{1}{3}$ and carbon footprint by $\frac{2}{3}$.

4 out of 5 devices received by Reconome are repaired and redeployed. These refurbished devices are given a new lease of life with those needing affordable and reliable technology such as charities, SMEs, and schools. The company keeps valuable resources in circulation, saving the planet energy, raw materials and emissions. At a time when Waste Electronics and Electrical Equipment (WEEE) is the fastest growing waste stream in the world, reuse is the most sustainable framework for managing WEEE.

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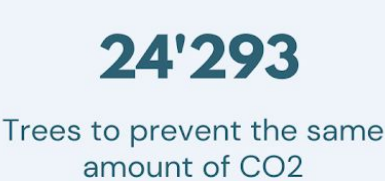
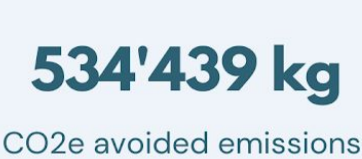
Total Impact



WEEE Collection



Green Procurement



Sustainability Reporting

The majority of this report can be made ready within 30 days from any single collection or to coincide with quarterly reporting. Data on the final destination of the inventory will take longer as certain equipment may require time to be responsibly placed back into utility.

Reconome's sustainability reporting combines the positive impact of recycling initiatives and green procurement. Reconome's database of device lifecycle emissions is used to calculate an accurate picture of the resulting, avoided emissions.

The report clearly highlights avoided carbon emissions and diverted waste as a result of responsible disposal and sustainable procurement, as well as granular data on the downstream path of the equipment. Following feedback and any requested iterations, the report can be shared internally, with your clients, for case studies, white papers and for marketing/PR purposes.

Scope 3 Reporting

All applicable tonnages and granular data for Scope 3 reporting, related to procurement and disposal of IT hardware will be provided to the [your company] sustainability team in a convenient, evidence-based, pre-agreed format. Analysis and benchmarking showing how [your company] ranks against industry data can also be provided.

Avoided Carbon Emissions: an Example

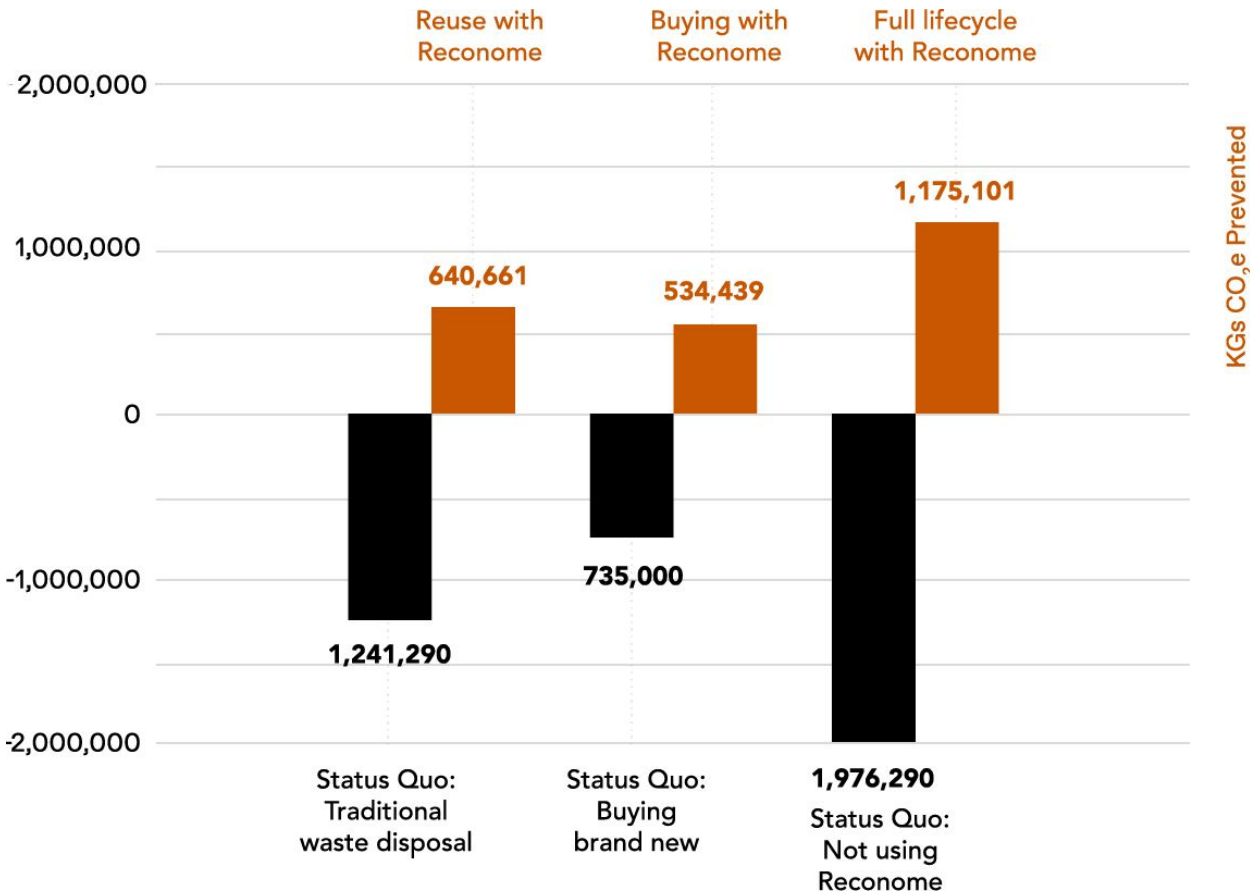
Below are potential sustainability improvements from a partial refresh of the [your company]’s IT assets through Reconome’s IT Lifecycle Programme. Here we assume a **disposal and collection of:**

- Tower PCs - 1000 units
- Monitors - 1000 units
- Peripherals - 1021 units
- Cabling - 200KG

We assume the **procurement of:**

- Laptops - 1000 units, refurbished HP Elitebook 840 G3
- Monitors - 1000 units, refurbished HP EliteDisplay E232

Carbon Savings: 1'175'101 kg CO₂e emissions



The environmental benefits of Reconome’s lifecycle model are obvious.

The responsible collection of equipment and procurement of refurbished devices will together prevent the total amount of **1’175’101 kg CO₂e emissions**, which is equivalent to the amount of CO₂ that **53’414 trees** would normally sequester over one year.

For calculation methodology, please see [Appendix](#).

Reconome Sustainable IT Reuse Programme

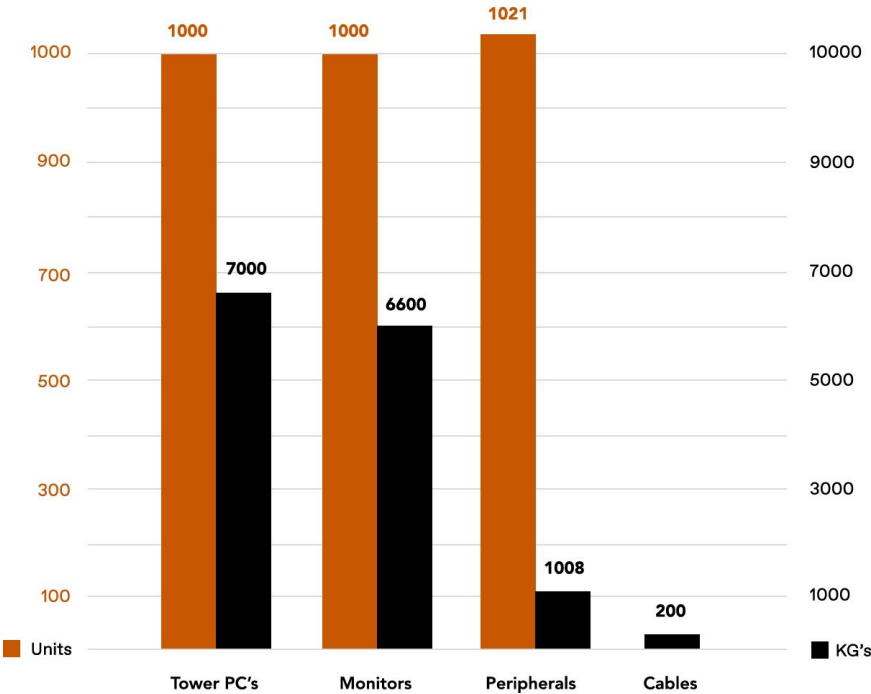
Carbon Savings from Reuse and Recycling: 640’661kg CO₂e
WEEE diverted from landfill through Reuse and Recycling: 14’808 kg

The manufacturing of electronics contributes nearly 80% of a devices’ lifecycle GHG emissions. Making the decision to refurbish and reuse devices extends their life and prevents not only the further release of emissions (see appendix for calculations), but also the use of water, fossil fuels and minerals.

To produce just one laptop, over 190,000 litres of water are required and 1200kg of waste material are produced in mining for critical minerals and manufacturing.

3021 devices were collected through Reconome’s sustainable reuse programme, preventing **14’808 kg** of EEE from entering the electronic waste stream, especially from landfill.

Breakdown of the amount of IT equipment collected in number of units and by weight.



Green Procurement

Carbon Savings from Green Procurement: 534'439 kg of CO₂e

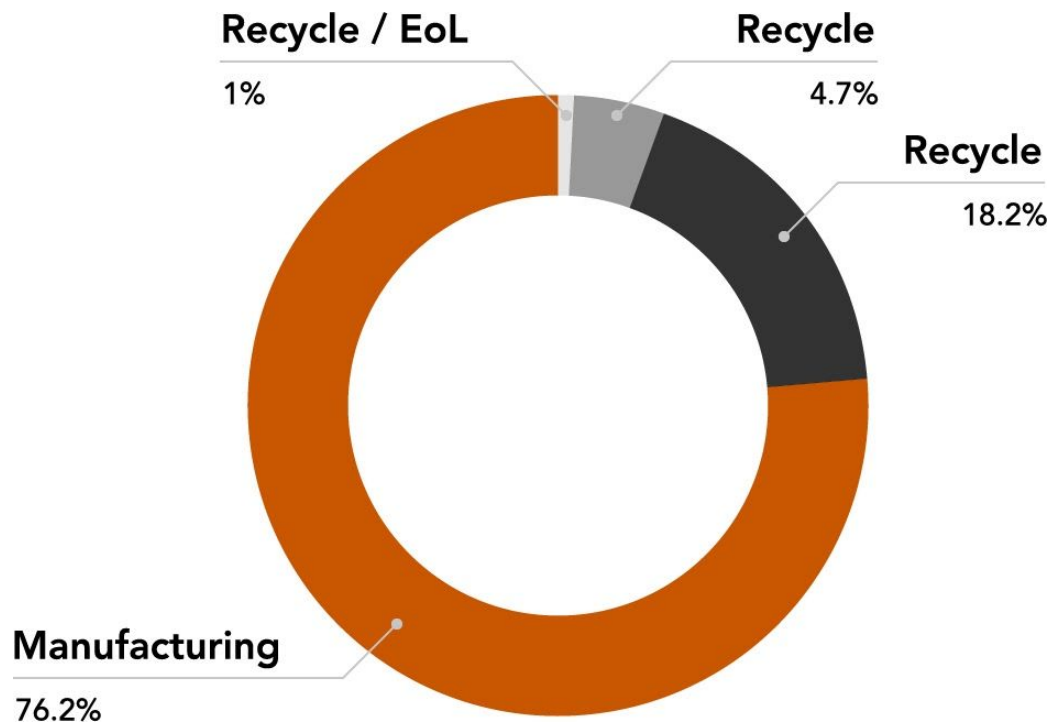
By making the choice to procure refurbished equipment alongside its existing buying strategy, [your company] has helped reduce the release of emissions, wastewater, and waste material.

The following refurbished IT equipment has been supplied to [your company] by Reconome:

1000 laptops (HP Elitebook 840 G3)	
1000 monitors (HP EliteDisplay E232)	

The Carbon Footprint of a Laptop

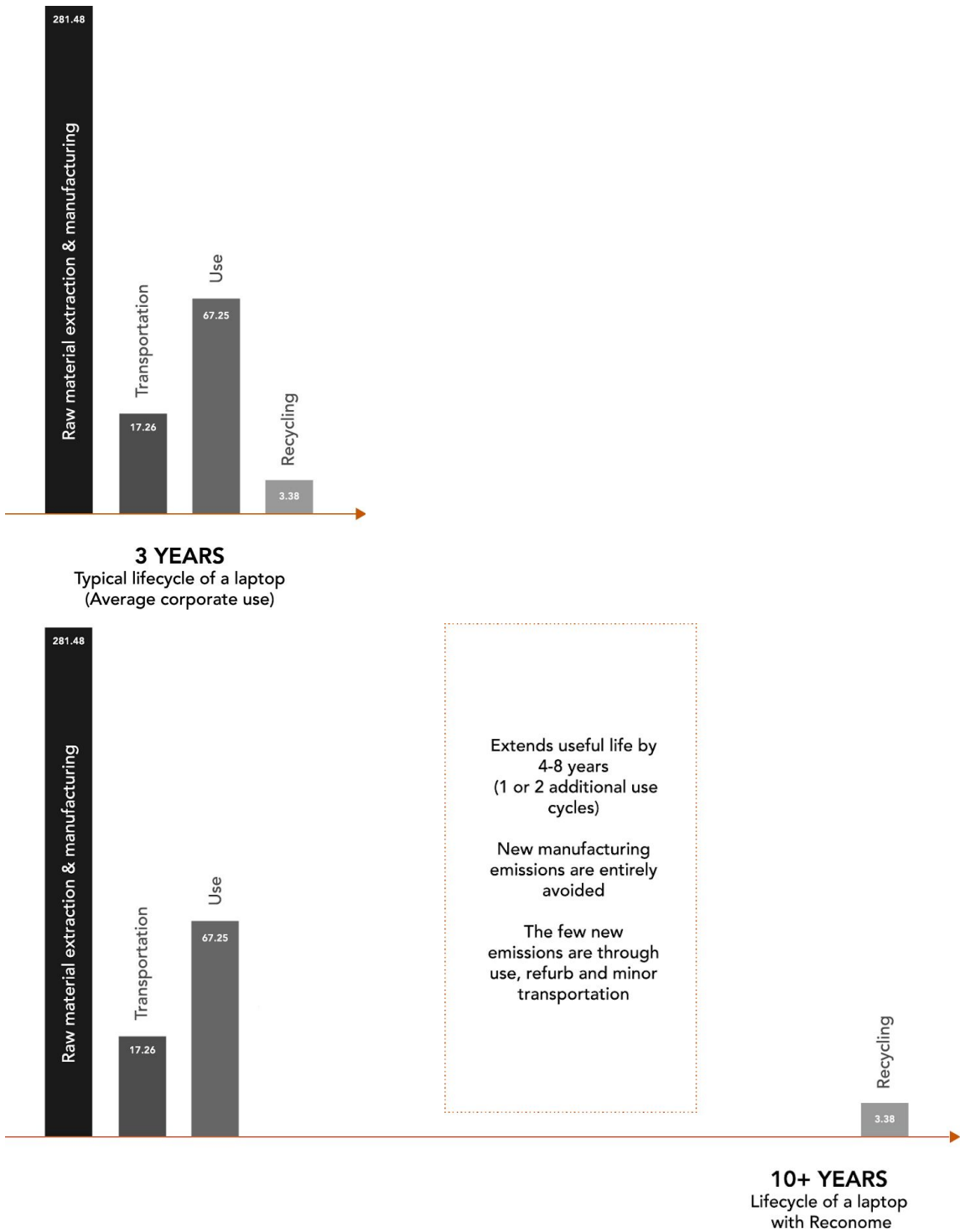
Taking the lifecycle of a laptop as an illustrative example, the average laptop contributes **369.49 kg of CO₂e** emissions, broken down into 4 phases: Manufacturing, Use, Transportation and Recycling. Manufacturing contributes the vast majority of emissions (**281.48 kg of CO₂e** or **76.18%** of the total).



A reused laptop will save **298.75 kg of CO₂e** emissions (**80.85%** of the total carbon footprint). Reuse means the manufacturing and the significant international journey of a new device is avoided, preventing further emissions related to these phases.

Total Carbon Footprint	Carbon savings by reusing
369.49 kg of CO ₂ e	298.75 kg of CO ₂ e (80.85% of the total)

By **choosing to extend the productive life** of useful devices, [your company] is helping to spread the significant emissions that were generated from the manufacturing and transportation phases over a x3 longer lifecycle.



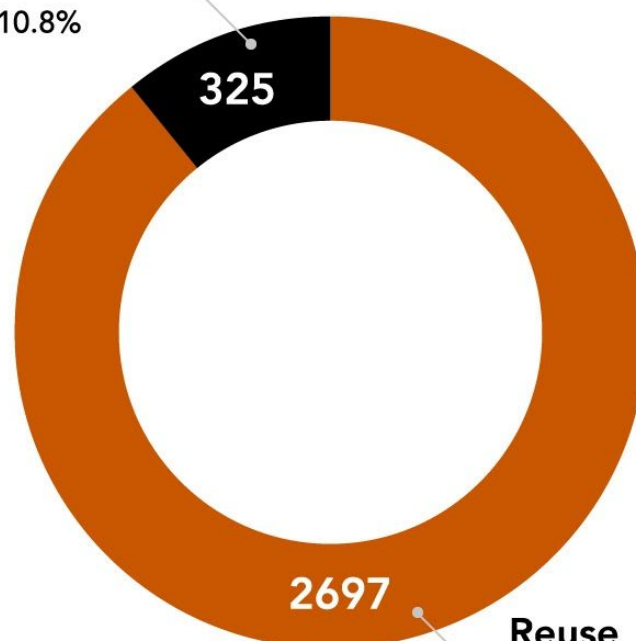
Destination of Devices

89% of the collected devices will be placed back into reuse after being sanitised, tested and fully refurbished by our engineers.

10.8% of the devices will be stripped of useful parts, segregated into high-value material streams, and sent for specialist WEEE recycling. Reconome services are strictly **zero-waste to landfill**.

Recycle

10.8%



Reuse

89.2%

Reuse by sector

Households

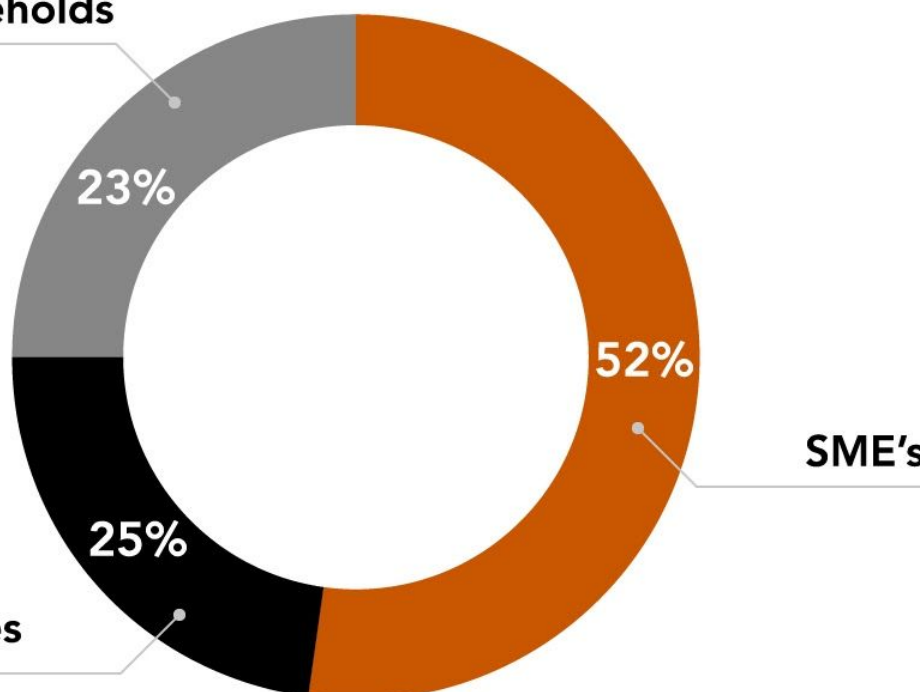
23%

Schools & Charities

25%

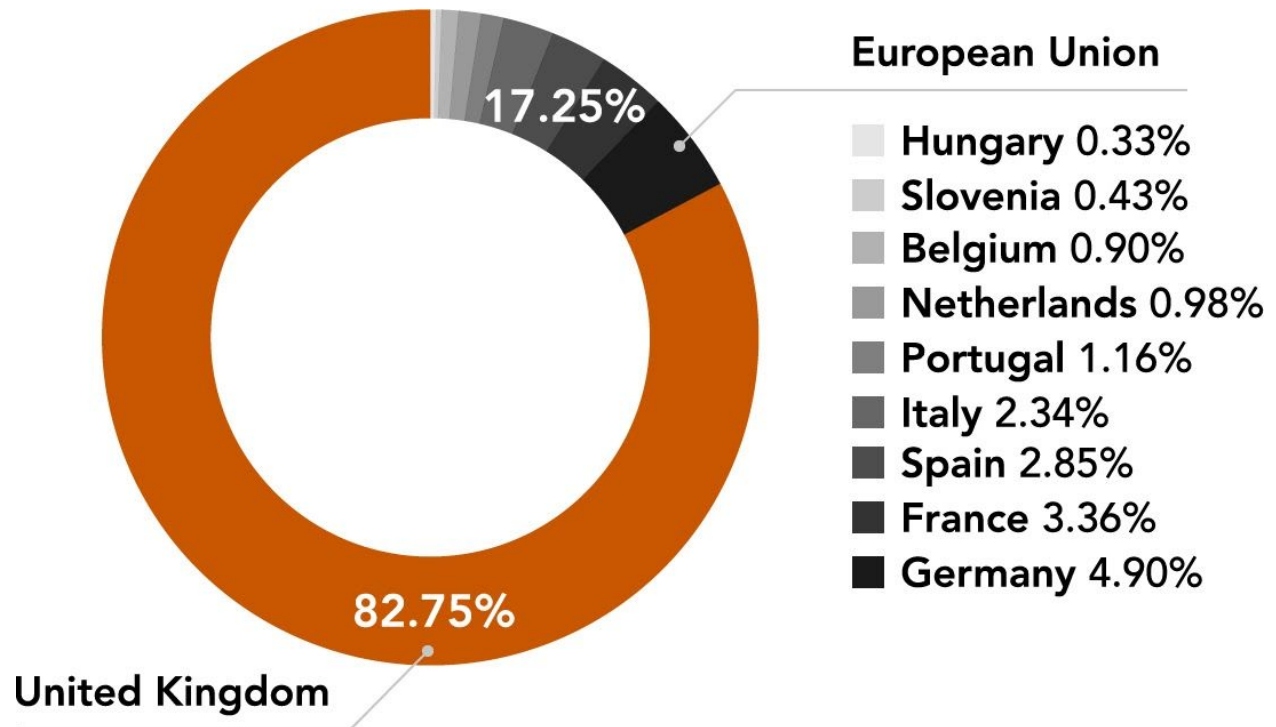
52%

SME's



Reuse by geography

- 83% reused in the United Kingdom.
- 17% reused in the EU



Scope 3 Calculations

[your company] has been able to positively impact its Scope 3 emissions by using Reconome services. The categories impacted by using Reconome are the following:

- Category 1: Purchased goods and services
- Category 5: Waste generated in operations

The emissions from equipment can be reported in two ways:

- as avoided emissions, reported separately from Scope 3.
- as emissions related to the IT equipment.

Avoided emissions

The avoided emissions should not be reported in Scope 1, 2 or 3, but should be reported separately as suggested by the GHG protocol. In order to report the emissions in this way [your company] should report also:

- The methodology of the calculations (see Appendix)
- Sources of the data (provided by Reconome)
- Any other data which support the claim that the emissions were avoided (sustainability reporting provided by Reconome)

Emissions related to refurbished IT equipment

The emissions related to procurement of IT equipment are the emissions related only to the second lifecycle of the device in the case of refurbished equipment.

In the case of disposal of devices through Reconome it is justifiable to calculate only avoided emissions.

Category 1: Purchased goods and services

The purchased equipment from Reconome falls under category 1: Purchased goods and services.

Purchased goods	Quantities	Kg CO ₂ e emissions	Kg CO ₂ e emissions avoided
laptops (HP Elitebook 840 G3)	1000 units 1480 kg	200'561	534'439
monitors (HP EliteDisplay E232)	1000 units 5700 kg		
(total)	200 units 7180 kg		

The **avoided emissions** are what have been avoided by choosing to reuse devices through Reconome.

The emissions related to the devices are the emissions that those IT devices will produce during their future lifecycle.

Category 5: Waste generated in operations

The collected equipment falls under the category 5 waste generated in operations.

Purchased goods	Quantities	Kg CO ₂ e emissions avoided
Tower PCs	1000 units 7000 kg	640'661
Monitors	1000 units 6600 kg	
Peripherals	1021 units 1008 kg	
Cables	200 kg	
	3021 units 14808 kg	

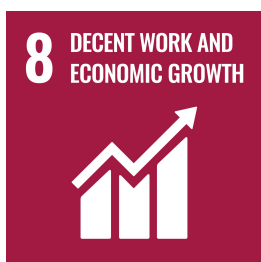
Recommendations, Scope 3

The best way to use our data is to use them as avoided emissions, so these emissions won't appear in any scope. They will not be emissions related to the company, but avoided emissions.

Following this reasoning (stated in the GHG Protocol - [Technical Guidance for Calculating Scope 3 Emissions](#)) the choice of [your company] to use Reconome instead of an ordinarily service is very significant, with total avoided emissions standing at 1'175'101 kg CO₂e.

SDGs alignment

RECONO.ME is aligned with the spirit of the Sustainable Development Goals (SDGs) by helping achieving the listed objectives in the following way:



Decent work and economic growth

Reconome collects WEEE from households and businesses and sends the WEEE to recycling, preventing waste to end up in landfills or from being incinerated. In this way the materials can be reused instead of being extracted from a primary source.

In addition, Reconome indirectly prevents the extraction of a lot of raw materials from the Earth's crust by repairing and refurbishing IT equipment. In such a way a refurbished device does not need to go through a material intensive process where metals are extracted from metal ores, which also consumes fossil energy materials to fuel the manufacturing processes.



Industry, Innovation and Infrastructure

During the Covid pandemic RECONO.ME joined an O2 project aimed at donating thousands of smartphones to digitally disconnected people in a way to increase the access to information and communications technology in the UK.



Sustainable cities and communities

RECONO.ME is helping to regularly collect a significant amount of WEEE (12 tonnes since June 2018). In this way hazardous waste that may cause damage to the environment and human health is kept away from landfill by being repurposed, repaired or recycled.



Responsible Consumption and production

Since June 2018, RECONO.ME has collected more than 12 tonnes of WEEE—of which 3.2 tonnes was collected in 2019 alone. What is more, the vast majority of WEEE arriving on RECONO.ME premises is tested, refurbished, and resold as whole working electronic devices, diverting large amounts of useful and valuable tech out of the waste stream and back into the economy.

RECONO.ME keeps track of every collected piece of hardware, registering many details of the equipment, like brand, model and weight. The weight is reported to the Environment Agency in order to achieve the annual minimum collection rate set by the WEEE directive for the EU members state.

We provide sustainability reports to our clients when they use Reconome services to responsibly dispose of their Electronic waste. The report shows the environmental benefits of using Reconome services in terms of avoided carbon emissions and preservation of raw materials.

Final Considerations

The Lifecycle programme generated significant environmental benefits for [your company]. 89% of the collected IT equipment was placed back into reuse, and nearly 1200 tonnes of CO₂e were avoided.

Devices like monitors and tower PCs have a large carbon footprint from manufacturing. Reuse presents a major opportunity to prevent further GHG emissions and cut procurement costs.

These gains were enhanced because [your company] has made the choice to procure refurbished equipment, keeping previous materials, water, and fossil fuels in the ground, safe for future generations.

Appendix:

Data Sourcing

We are continuously iterating our database so it is up-to-date with manufacturer-provided data or those found in academic studies. In any case when we do not have the data for a specific model, we would use an average based on the type of device and brand or a similar device.

For this proposal, we have used averages figures for the collected devices and very similar products for the procured devices as follows:

- Data of the HP EliteBook 840 G4 Notebook PC for the Hp Elitebook 840 G3.
- Data of the HP EliteDisplay E233 for the HP EliteDisplay E232.

Calculations Methodology Explained

Carbon Savings - Reuse: The carbon savings were calculated based on the assumption that for every device that is reused it is possible to prevent the carbon emissions of the manufacturing and transportation phases.

The recycling phase is just postponed until the last lifecycle of the product, since it is “embedded” in the device. So, the phase is not included in the calculations.

Any reused device will produce emissions based only on its use phase.

Reuse equation: The following equation has been used to calculate the prevented carbon footprint by reusing the devices:

$$\text{Reuse savings} = (\text{Man} + \text{Tra}) - *(\text{TraR} + \text{Refurb})$$

- Man = carbon footprint of the manufacturing phase
- Tra = carbon footprint of the transportation phase

* When reusing a device two more additional phases are present in the equation:

- TraR = carbon footprint of the Reconome transportation (not significant)
- Refurb = carbon footprint of the refurbishing activities (not significant)

However, these two phases are considered not significant for the final carbon savings calculations. The carbon footprint of Reconome transportation activities (TraR) have been

assessed as not significant compared to the transportation phase of the product. Indeed, the data used by the manufacturer include continental movements of the product, making the Reconome footprint irrelevant in comparison. Equally, the refurbishing activities are considered not significant for the purpose of the calculations.

Recycling: Reuse is a better option than recycling when dealing with electronic waste as it is expressed in the waste hierarchy. The hierarchy is a tool used in waste management to list the most preferred option on how to treat waste. The hierarchy lists the preferred action in this order: prevention, reuse, recycle, recovery and disposal.

Reuse consumes far fewer natural resources than recycling, it emits less carbon emissions and it's able to release the product in the market more quickly than recycling.

However, recycling helps to put back into the market the raw materials used to manufacture the devices, which can be used again for new products.

Methodology explanation: Tree Analogy

We have translated the kg of CO₂ savings into the number of trees it would take to remove the same amount of kg of CO₂e emissions from the atmosphere throughout one year.

The result is that by reusing these electronic devices it is possible to prevent the same amount of CO₂ that these trees would normally sequester over one year.

- 29'121 Trees for the Collection;
- 24'293 Trees for the Purchase.

The result is based on the data expressed by the European Environment Agency (EEA) which says that a tree can absorb as much as 22 kg of CO₂e emissions per year¹.

¹ Source: [Forests, health and climate change — European Environment Agency](#)