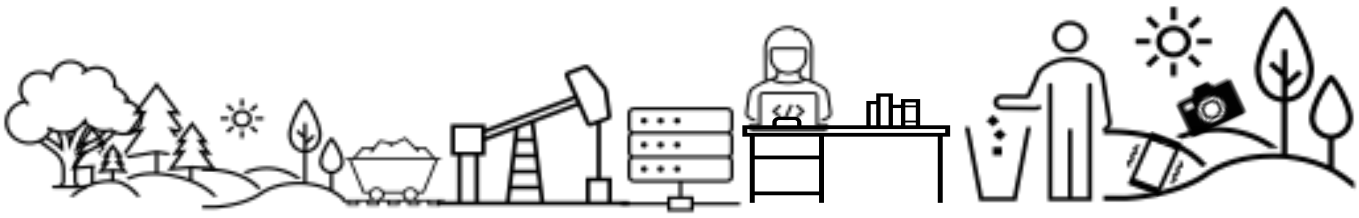
Cistor
Part of the Circularity First Group.

Carbon Report



Circularity First Customer

Date Range: 2023-Q1 to 2023-Q4

Who are Circularity First

The way IT is managed and used has impacts. Circularity First uses a circular mindset to take a more sustainable approach to IT.

We design, build, and manage infrastructures that perform in demanding environments, whilst offering solutions that provide the greatest return of investment.

With your carbon emissions, net zero, resource use and e-waste targets in mind, we help balance the needs of your business with the needs of humanity.

99%

Sustainable products delivered

Of the networking products we sell, 99% of are sourced from remanufactured, reused and redeployed authorised programmes.

25%

of energy returned to UK grid

Our UK facility is powered by renewable energy and is carbon neutral. 25% of the energy generated by our solar panels is surplus to requirements so it's supplied to the grid.

845

Tonnes of eWaste prevented

From 2016 to March 2022, we prevented 845 tonnes of technology equipment from becoming eWaste.

Proudly, we're on track to prevent more than 1,000 tonnes of IT equipment from becoming eWaste before the end of 2023.

43%

of leaders know their organisation's IT carbon footprint.

We'll help you reduce the carbon impact of your IT today.

Carbon Curious?

Book a sustainable IT discovery session with your account manager today.

Anthony.Levy@circularity-first.com
Soren.Sorensen@circularity-first.com

Circularity First

visit us
circularity-first.com

Call us
+44 (0)20 3988 8355
+1 (916) 246-6082
+45 89 87 62 44

Circularity First Customer
John Doe
123 Maple Street
Apartment 2
New York, NY 10001
USA

Date Range: 2023-Q1 to 2023-Q4

Your Data part 1

Circularity First

Carbon report

All data is Indicative and based on our ground-breaking research 'The Tear Down'

Your Hardware

Quantities of remanufactured & new

Remanufactured		New		Total Quantities
401	+	472	=	873

Your Carbon

Total tCO2e Cradle-to-Gate

Remanufactured		New		Total Carbon
11.13	+	73.60	=	84.73

Your Savings

tCO2e saved on remanufactured vs new

Remanufactured		New		Carbon Saved
11.13	v	29.18	=	18.05

eWaste Avoided

Total eWaste avoided from remanufactured purchases of hardware

eWaste Avoided
910 Kg

Circularity First

visit us
circularity-first.com

Call us
+44 (0)20 3988 8355
+1 (916) 246-6082
+45 89 87 62 44

Circularity First Customer
John Doe
123 Maple Street
Apartment 2
New York, NY 10001
USA

Date Range: 2023-Q1 to 2023-Q4

Your Data part 2

Carbon Numbers

Remanufactured and New

Total: 84.73 tCO2e (11.13 *rf / 73.60 *new) from 873 (401 *rf / 472 *new) products

Our carbon tool has measured the greenhouse gas (GHG) emissions associated with your new and remanufactured products. Data below shows your total carbon, which includes raw materials, assembly and transport for cradle-to-grave.

Factors

Emissions factor projection: **Linear reduction projection**

Geography: **European Average**

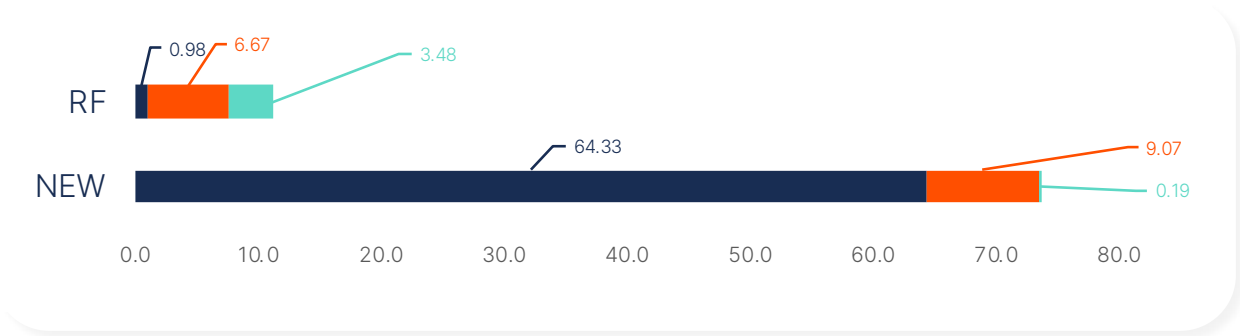
Life Cycle lengths: **5**

Number of cycles: 1

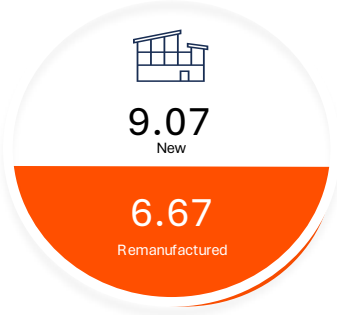
End of life treatment: **Recycling**

tCO2e

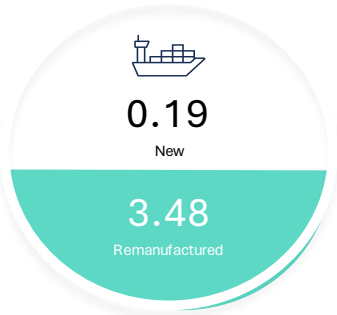
Your purchases



Raw materials



Assembly



Transport

Circularity First

Circularity First Customer
John Doe
123 Maple Street
Apartment 2
New York, NY 10001
USA

visit us
circularity-first.com

Call us
+44 (0)20 3988 8355
+1 (916) 246-6082
+45 89 87 62 44

Date Range: 2023-Q1 to 2023-Q4

Your Data part 3

Carbon Savings

Remanufactured vs New

Total saving: 18.05 tCO2e

Our tool compares the carbon involved from the extraction of raw materials, the assembly of the product and the transport (including the shipping of components), between remanufactured and new of identical products.

The data below represents your remanufactured purchases and compares them to new.

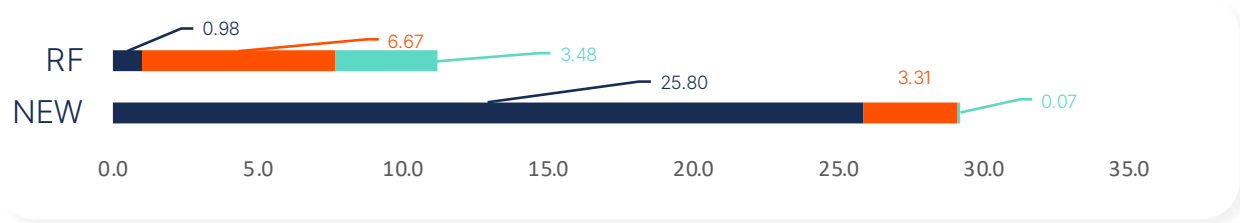
Savings

- Raw material saving: **24.82 tCO2e**
- Assembly saving: **-3.37 tCO2e**
- Transport saving: **-3.41 tCO2e**

62%
Carbon saved

tCO2e

Compared (RF vs NEW)



Carbon Savings

tCO2e saved by choosing remanufactured over new

18.05
tCO2e

Environment Savings

Oak trees that didn't need to be planted over a 10-year period to sequester the carbon

1,101
Trees

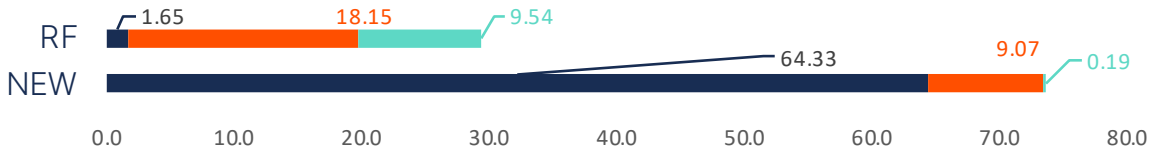
Equivalent Kilometres

The equivalent kilometres in an average petrol car

103,524
Kilometres

3
times around the world

The data below represents your new purchases and compares them to remanufactured.



Circularity First

visit us
circularity-first.com

Call us
+44 (0)20 3988 8355
+1 (916) 246-6082
+45 89 87 62 44

Circularity First Customer
John Doe
123 Maple Street
Apartment 2
New York, NY 10001
USA

Date Range: 2023-Q1 to 2023-Q4

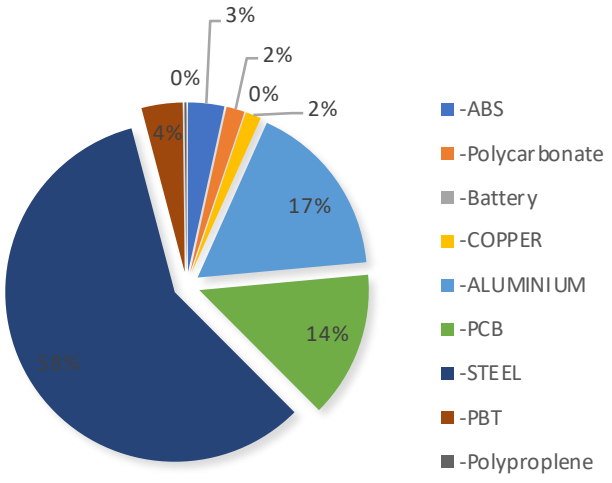
Your Data part 4

eWaste Avoided

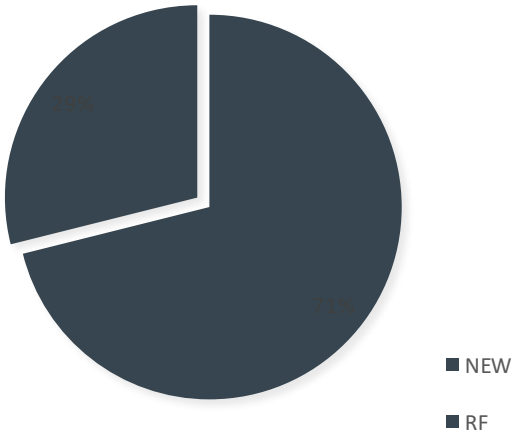
Remanufactured

Total: 910 Kg

Our carbon tool has measured the weight of the raw materials for each remanufactured product, to produce the total weight of eWaste avoided from your sustainable purchases, by diverting products from landfill.



Raw materials



eWaste avoided

Why this data is useful

This gives you insight into the following areas so you can make a more informed choice around the use of sustainable IT in your business

Avoided emissions

Quantifying the positive impact of using remanufactured technology or extending the life of technology is possible as a result of our work.

Sustainability Goals

The data supports you to build a business case for a more sustainable approach to how IT is sourced and used in your organisation.

Sustainability Goals

Aligns your department with your organisation's sustainability goals, allowing you to share your positive impact.

Change your behaviour

Starts to quantify the material impacts on the earth's resources and supply chains of always defaulting to new.

Change your behaviour

Sharing this data leads to more conscious consumption,

Proof

It's tangible evidence of the positive impacts your sourcing decisions have.

Circularity First

Carbon Reporting Tool

Our carbon tool, which is grounded in **more than 2 years of research** was born out of our desire to know exactly what goes into new IT hardware. At present there is a gap in knowledge as vendors do not provide this level of insight.

We took it upon ourselves to breakdown hardware into its individual components and pieces. With this we're able to build up a holistic picture of the GHG emissions that go into producing new IT hardware, giving you a comparison against reused.

Breaking down and building up

Armed with screw drivers, drills and hammers, we stripped hardware back to its individual components. We then traced these components back from assembly to manufacture and then raw material extraction.

Using this method we could see that a piece of hardware assembled in Texas, was built from components produced on the East Coast of China using minerals extracted across Mainland China. We then totalled the carbon emissions involved in the extraction, transportation, processing and production of the hardware in its entirety.

Data in Action

Our carbon tool allows users to amend assumptions on how often the product is replaced or remanufactured, the energy efficiency between different generations, the country the technology is used in and the end-of-life treatment.

This data can be used to align technology choices to **decarbonisation (NetZero), circular economy** and **waste reduction** goals.

Not only that, second life technology is often more cost effective and easier to integrate into existing networks.

contact@circularity-first.com

Circularity First Limited
Lexicon House
Third Avenue
Poynton
Cheshire
SK12 1YL

+44 (0)20 3988 8355

Circularity First
1010 Winding Creek Road
STE 180
Roseville
CA 95678

+1 (916) 246-6082

Circularity First ApS
Atletikvej 11C
9230 Svenstrup J
Denmark

+45 89 87 62 44