

# Sustainable IT Report

**Report prepared for:** NTNU - Norges teknisk-naturvitenskapelige universitet

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**REstepIT order ID:**

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This report summarises your used IT equipment's refurbishment and recycling rates, as well as the e-waste and CO<sub>2</sub> emissions you've avoided thanks to 3stepIT's sustainable services.

### E-waste avoided

Product group	Grade A	Grade B	Grade C	Grade D	Grade E	Total	% Refurbished devices (Grade A-D)	Refurbished weight* (Grade A-D)	Recycled weight* (Grade E)
Copier	0	0	0	0	0	0	0 %	0 kg	0 kg
Data	0	0	0	0	1	1	0 %	0 kg	5 kg
Desktop	35	25	4	42	55	161	66 %	806 kg	418 kg
Laptop	38	166	106	47	71	428	83 %	550 kg	110 kg
Monitor	36	31	10	1	50	128	61 %	461 kg	295 kg
Network	0	0	0	0	5	5	0 %	0 kg	6 kg
Phone	0	4	6	1	41	52	21 %	2 kg	6 kg
Point of sales	0	0	0	0	0	0	0 %	0 kg	0 kg
Printer	0	0	0	0	15	15	0 %	0 kg	156 kg
Scanner	0	0	0	0	0	0	0 %	0 kg	0 kg
Server	0	0	0	0	2	2	0 %	0 kg	47 kg
Tablet	0	0	2	3	9	14	36 %	3 kg	5 kg
<b>Total</b>							<b>69 %</b>	<b>1822 kg</b>	<b>1048 kg</b>

**CO<sub>2</sub> equivalent emissions avoided**

<b>Product group</b>	<b>Refurbished devices (Grade A-D)</b>	<b>CO<sub>2</sub> kg/device**</b>	<b>Total CO<sub>2</sub> kg</b>
Desktop	106	235 kg	24910 kg
Laptop	357	194 kg	69258 kg
Monitor	78	312 kg	24336 kg
Phone	11	50 kg	550 kg
Tablet	5	121 kg	605 kg
<b>Total CO<sub>2</sub> equivalent emissions avoided</b>			<b>119659 kg</b>

## Appendix: E-waste and CO<sub>2</sub> emissions calculation methodology

We classify used IT devices into five categories, from A to E, based on the physical and functional condition of the equipment. Grade A-D devices are refurbished for reuse, grade E devices are recycled in an environmentally friendly manner by our certified partners.

### \*E-waste impact

The e-waste avoidance calculation is reported per product group and is based on the median weight of the most popular models we process within each group.

**The median weight of each product group is as below:**

Product group	Median weight (kg)
Copier	85,10 kg
Data projector	5,00 kg
Desktop	7,60 kg
Laptop	1,54 kg
Monitor	5,90 kg
Network	1,04 kg
Phone	0,14 kg
Point of sales	7,25 kg
Printer	10,40 kg
Scanner	2,34 kg
Server	23,13 kg
Tablet	0,47 kg

### \*\* CO<sub>2</sub> impact

There are many factors that contribute to the carbon footprint of an IT device over its lifetime. This includes the manufacturing process, packaging, shipping, and end-of-life disposal. At 3stepIT, we offer practical solutions that can measurably reduce your carbon footprint.

Our circular approach eliminates the need to manufacture a new device and provides CO<sub>2</sub> savings which are equivalent to the carbon footprint of manufacturing a single product.

We calculate CO<sub>2</sub> avoidance by measuring the median CO<sub>2</sub> emissions for each product group. We base this on manufacturer data for the most popular devices we process within each product group.

#### Example calculation for a phone:

CO <sub>2</sub>	Manufacture	Transport	Use	Recycle
Phone	<b>78 %</b>	3 %	18 %	1 %
65 kg	<b>50 kg</b>	2 kg	12 kg	1 kg

#### Links to manufacturer data:

[HP](#)

[Dell](#)

[Apple](#)

[Lenovo](#)

[Fujitsu](#)

# Better for business Better for the planet



The use and production of IT equipment requires raw materials, energy as well as ensuring compliant end-of-life treatment. Thus, it's important for organisations to also include sustainability aspects in their procurement process, along with financial and technical criteria.

At 3stepIT, we help customers to switch to a sustainable IT consumption model which is rooted in the principles of the circular economy. Our Technology Lifecycle Management and REstepIT solutions are designed to make it simple for businesses to dispose end-of-life devices in a secure and sustainable way that minimises waste, reduces CO2 emissions and promotes material reuse.

Our approach:

- releases value from old technology whilst minimising e-waste and carbon footprint
- provides affordable access to technology in second life while reducing the need for a new manufacture
- A strong circular economy ecosystem helps to preserve Earth's finite resources