



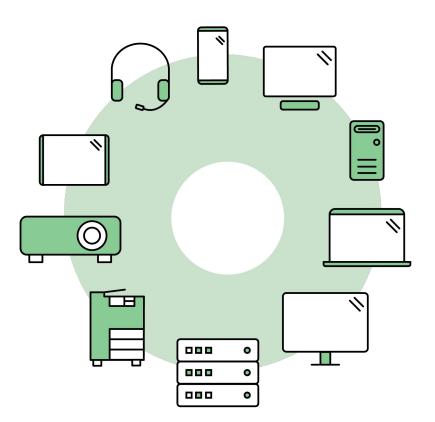
## Next Big Things in 2024

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# Wide choice of certified products from the brands you know

- New generation every three (3) years.
- 4,000+ active certified models.
- 12 product categories.
- Independent verification required on products, factories and brand initiatives.







## **PREVIEW** -

## TCO Certified Report Generator



### **Preview - Report Generator**

Customized IT Product Sustainability Report

Build your product portfolio

Metrics / language on:

- Climate Carbon emissions (scope 2,3)
   Product Carbon footprint
- Substances Inclusion of safer substances
- Circularity Material footprint, lifetime extension and e-waste reduction potential
- Supply chain social, environmental responsibility









Guidance 🗸

Ask a questi



Product Finder

Weglot switcher

### Report Generator

### Create Report

select the contents that your customized report will be based on

Report name	Test report for PAF
Organization	TCO Development
Region of use	Sweden
Created by:	demo@test.org

Select products from your product list Add products to your product list using Product Finder

Include in report	Category Brand		Model	Certified according to	Quantity	Planned use life		
~	Displays	HP	HP P27h G5 FHD Monitor	TCO Certified Displays 9	200	4 v Years		
~	Notebooks	Lenovo	ThinkPad P1 Gen 5	TCO Certified Notebooks 9	160	2 v Years		
✓ N	Notebooks	FUJITSU	LIFEBOOK E5512A	TCO Certified Notebooks 9	40	3 V Years		
		HP	HP V27ie G5 FHD Monitor	TCO Certified Edge Displays				
~	Desktops	Lenovo	ThinkStation P360 Ultra	TCO Certified Desktops 9	40	4 v Years		

Was TCO Certified cited in your procurement specifications for these products?



I have read and accepted the <u>Terms and agreements</u> of using Report Generator, and content generated while using it.

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**Generate Report** 





Report ID: RG23110955

Date: 2023-11-15 10:30:41

Region: Sweden

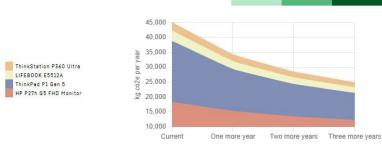
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### C. Annualized e-waste reduction potential, by product

A significant percentage of an IT product's carbon footprint occurs before its first use. Raw material extraction, manufacturing and transport account for around 80-90% of lifetime emissions. Below, you can see how using products longer than your initial planned use life reduces climate impact...

Product name	Product category	Number of I		Yearly Product carbon footprint (PCF)	Use for one more year		Use for two more years		Use for three more years	
					Yearly PCF	Reduction	Yearly PCF	Reduction	Yearly PCF	Reduction
HP P27h G5 FHD Monitor	Displays	200	4	18028.2	15065.2	16 %	13208.9	27 %	11985.0	34 %
ThinkPad P1 Gen 5	Notebooks	160	2	20502.5	14020.5	32 %	10885.1	47 %	9088.4	56 %
LIFEBOOK E5512A	Notebooks	40	3	3466.5	2669.8	23 %	2207.7	36 %	1913.0	45 %
ThinkStation P360 Ultra	Desktops	40	4	2834.7	2310.4	18 %	1968.8	31 %	1731.5	39 %
Totals		440		44831.9	34065.9	24.0%	28270.5	36.9 %	24717.9	44.9 %



#### Methodology

- Carbon emissions are estimates based on a combination of typical product configurations, use patterns, and averages. All data are independently verified for accuracy. A complete description of the methodology is available on our website\*.
- Scope 2 calculations are based on ENERGY STAR TEC values for typical configurations of each product model4 and the 2021 average of Co2e per consumed kWh of electricity in the selected region of use, provided by Electricity Maps\*.
- 3. Scope 3 calculations are based on the research on carbon footprint by Justin Sutton-Parker, Warwick University.

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### 3. Circularity

The best way to drive greater circularity in the IT product ecosystem is to circulate products and their materials longer. In practical terms, this means designing products and materials for durability and longer life, repairing and reusing products, along with reducing e-waste. This report provides data on three aspects that help your organization enable a more circular approach: material footprint, product weight and e-waste reduction potential when extending the use life.

Section A provides the material footprint by product model and for your total product portfolio, including product weight, plastic weight, and recycled plastic content. Section B provides a breakdown of product weight by category, and material type, as a percentage of your product portfolio. Section C shows the e-waste reduction potential, based on extending the use life of your product portfolio, beyond the planned use life entered in Report Generator.

### Verified data

### A. Material footprint, by product and aggregated

Date: 2023-11-15 10:30:41

Product name	Product category	Number of units	Total Weight	Weight Plastics	Weight Recycled Plastics	Recycled Plastics
HP P27h G5 FHD Monitor	Displays	200	1160.0 kg	32663.4 kg	16840.2 kg	52%
ThinkPad P1 Gen 5	Notebooks	160	288.0 kg	311.2 kg	10.4 kg	3%
LIFEBOOK E5512A	Notebooks	40	73.6 kg	165.5 kg	1.4 kg	1%
ThinkStation P360 Ultra	Desktops	40	144.0 kg	668.4 kg	382.6 kg	57%
Total	- 1	440	1665.6 kg	33808.5 kg	17234.6 kg	51.0%

### B. Breakdown of product portfolio weight

## Product weight by category Diaplaya (69.5%) Notebooks (21.7%) Deaktops (8.6%) Deaktops (8.6%) Weight by material type PCR plastics [1034.7%) Virgin plastics [995.3%] other materials (-1929.8%)

#### Methodology

The certification process for TCO Certified requires the following information for each product model:

- 1. Percentage of post-consumer recycled plastics by weight versus the total weight of all plastics.
- A verification report from an approved independent verifier documenting post-consumer recycled content of all parts with a weight above 0.5g.



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### 4. Supply chain

Social and environmental responsibility in the supply chain is essential to a more sustainable. IT product lifecycle. Regulatory and stakeholder requirements for supply chain due dilligence mean that all organizations must address working conditions, social protections and responsible practices connected to the products they buy. In TOO Certified, supply chain due dilligence, factory assessments, and ongoing monitoring are mandatory for every certified product model. All final assembly factories manufacturing certified models are included in the TOO Certified Accepted Factory List and our system for ongoing code of conduct compliance monitoring.

### Verified claims

Affected workers in the final assembly of your products:

Products included in this report are manufactured in factories where working conditions are independently verified to comply with all social and environmental supply chain criteria in TCO Certified. 8182 Workers

"In our procurement of IT products, we specify that products must carry the TOO Certified sustainability certification. This means that the supply chair/manufacturing conditions for the devices we source are independently verified and monitored for compliance with the following conventions. Standards: and criteria.

- Supply chain responsibility, including compliance with:
- ILO Core Conventions 29 (Forced labor), 87 (Freedom of Association), 98 (Right to Organize), 100 (Equal Remuneration), 105 (Forced Labor), 111(Discrimination), 138 (Minimum Age), 182 (Child Labor).
- . UN Conventions on the Rights of the Child, article 32.
- . Worker health and safety legislation in the country of manufacture.
- Maximum 60-hour work week, including overtime.
- · Responsibly sourced minerals identification of smelters and refiners in accordance with OECD.
- Process chemicals management worker protection, identification and use of safer substitutions (in accordance with Clean Electronics
- Production Network CEPN\* and GreenScreen® for Safer Chemicals\*).

   Anti-bribery management system in accordance with ISO 37001\*.
- Environmentally responsible manufacturing final assembly factories must be certified in accordance with ISO 14001\*.
- . Energy efficient manufacturing final assembly factories must be certified in accordance with ISO 50001\*.

Epplanatory note - the number of affected workers cited in this report refers to the sum of workers in final assembly factories manufacturing product models selected for inclusion in this report. The number of workers is rounded to the nearest hundred, as taken at the most necern factory audit. When citing from this data, please be advised that a final assembly factory often manufactures products for maintenance.

#### Methodology

The certification process for TCO Certified requires the following:

- Verified compliance with all criteria listed in the claims section in this chapter and as fully specified in the TCO Certified criteria document
- All final assembly factories manufacturing certified product models are included in the TCO Certified Accepted Factory List\*\* and are assigned a risk category for continued factory monitoring.

#### Criteria and compliance in accordance with:













As we'll as ILO's core conventions, United Nations Convention on the Rights of the Child, OECD Due Diligence Guidance and ISO standards 14024, 14001, 56,691137989, at 1cocertified.com/report-generator/info.



## **TCO Certified Generation 10**





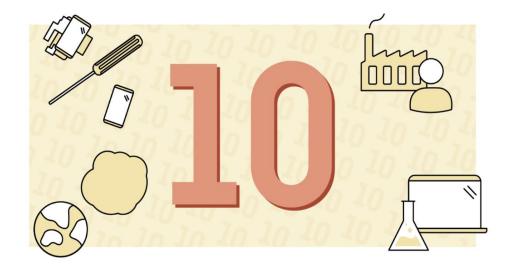


# TCO Certified, generation 10

**LAUNCHES IN DECEMBER 2024** 

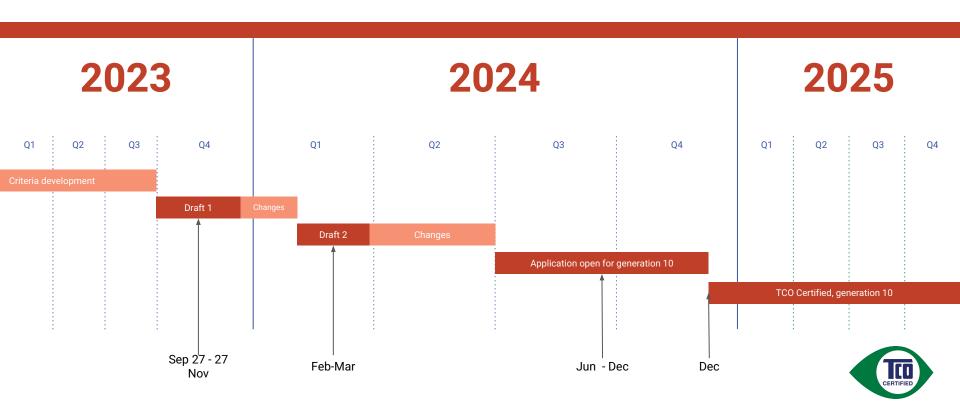
The first draft of TCO Certified, generation 10 is now released. The development process is open to all stakeholders, and we invite you to contribute by providing feedback before 27 November. Criteria must be challenging, driving and relevant. Your feedback helps us find the right level.

DOWNLOAD DRAFT 1 DOCUMENTS ❖

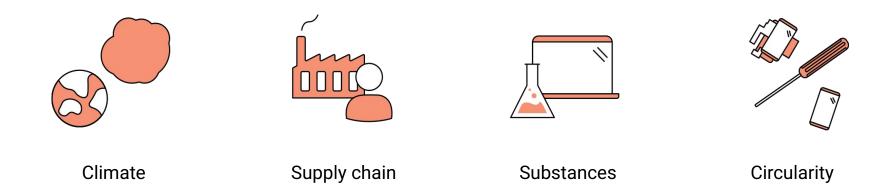




### **Timeline** – Development of generation 10

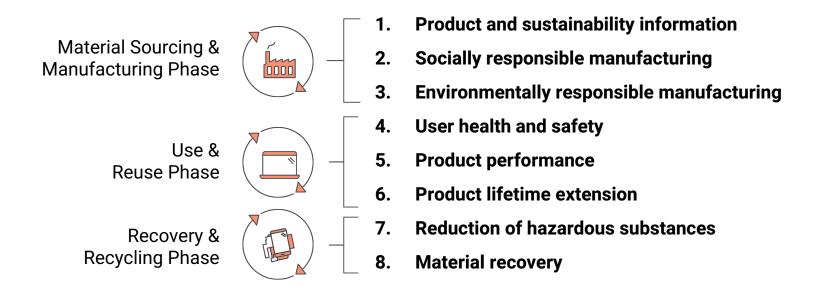


## The main themes for TCO Certified, generation 10





### **Chapters - TCO Certified generation 10**





## Thank you!

