

Ecolabels drive sustainability in procurement.

TCO Certified
for the Purchase of IT Goods

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TCO Development

TCO Certified - a Global Sustainability Certification

Environmental and supply chain social responsibility beyond legislation

Mandatory independent verification - products, factories, brand initiatives.
20 000+ hours per year

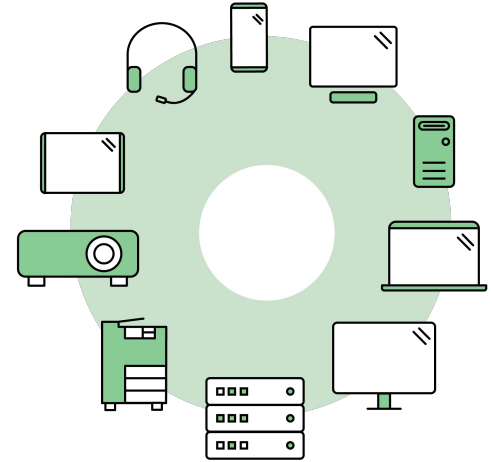
12 product categories in the IT segment

Wide product choice - 3500+ certified models from 25+ brands

Updated every 3 years, ISO 14024 type 1

Independent, non-profit, free to use

First certification 1992



Certified products

25+

Brands

1/3

Notebook
computer
Professional
segment (EU)*

50%

Displays
Global

3500+

Certificates**

FAIRPHONE



Lenovo



acer

FUJITSU

**Approximation based on the number of certified models and quantity of professional notebooks sold in EU*

***Over 9000 in total*




Our vision is
an environmentally and
socially sustainable life
cycle for IT products.

It is the demand for
certified products that
drives change!



Sustainability and IT



Supply chain working
conditions & human rights



Conflict Minerals



Hazardous Substances



E-waste

More than 53.6 Million Metric Tonnes
of e-waste is annually generated,
based on figures from 2020

Over 80% improperly recycled in
countries with no recycling facilities

Source: The Global E-waste Monitor 2020

Learn more

[https://tccertified.com/sustainability-issues-c
onected-to-it-products/](https://tccertified.com/sustainability-issues-connected-to-it-products/)



IT and sustainability

IT can be used to reduce environmental and climate impact in society but ...

IT sector impact

- 2 % of the global CO2 emissions.
- 9% of the global electricity consumption.

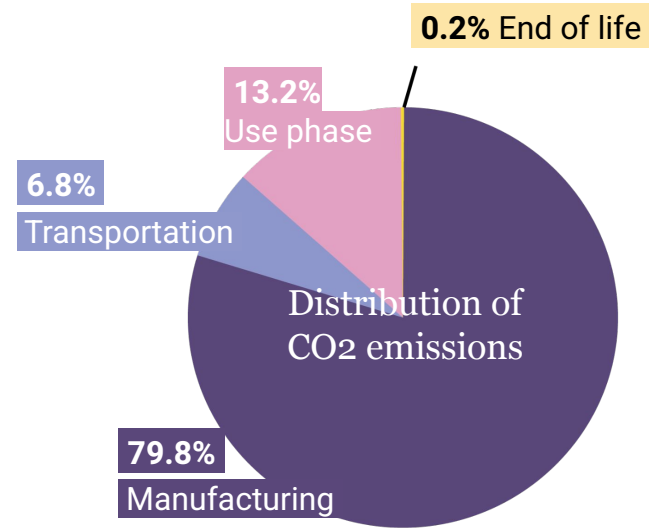
Production of a computer

Consumes

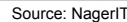
- 22 kilo chemicals
- 1 500 liters of water

Generates

- 1,2 tonnes mining and metal waste
- 80% of CO2 emission in products life cycle



- Complex supply chain
- Manufacturing in low wage countries
- Hazardous substances
- Natural resource intensive
- Hazardous waste
- Scarce resources



Conflict minerals

Gold Tinn Tantalum Tungsten (3TG)

Cobalt

Industrial mining employs 7-9 million workers

Small-scale artisanal mining employs

100 million workers in 80 countries



Hazardous substances

Hormone disrupting and cause cancer

- Added to product
- Used in manufacturing
- Over 140 million chemicals in CAS-registry
- 25 000 nya chemicals added daily
- 350 000 chemicals on the market
- 1 procent have known properties



E-waste

- Over 53,6 million tonnes/year
- 80% recycled in countries with no proper recycling facilities

Export of e-waste



Source: Greenpeace, Basel Action Network
The Global E-waste Monitor 2020



TCO Certified helps avoid

Greenwash

False or unverified claims connected to the environmental aspects of a product

Bluewash

False or unverified claims connected to the social aspects of a product.

40 % of online environmental claims are false or misleading*

A credible label/certification drives responsibility and transparency

*according to a [global study](#) led by [International Consumer Protection and Enforcement Network \(ICPEN\)](#)



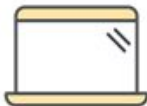
Criteria for a sustainable life cycle



Socially responsible
manufacturing

Hazardous
substances

Climate impact



Climate impact

Prolong life length

Good user properties

Circularity



Hazardous substances

Product take back

Product and packaging
designed for recycling

SPIs for reporting

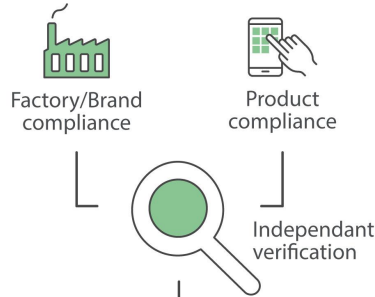
All certified products are listed in Product Finder

<https://tcocertified.com/product-finder/>



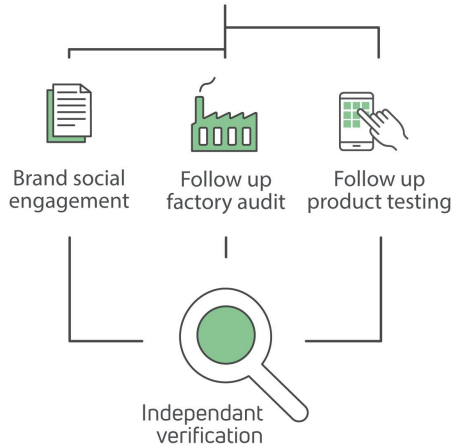
1. Pre certification

Verification of compliance with criteria before we certify a product



Application

Brand owner applies for TCO Certified



2. Post Certification

Annual follow up verification after certification of product

The certification process

Independent verification of

- products
- factories
- brand initiatives

Corrective Action Plan

Closure of non-conformities
ISO 17021 / 25



Transparency and quality assurance

Based on research

Transparent development process

TCO Development determine

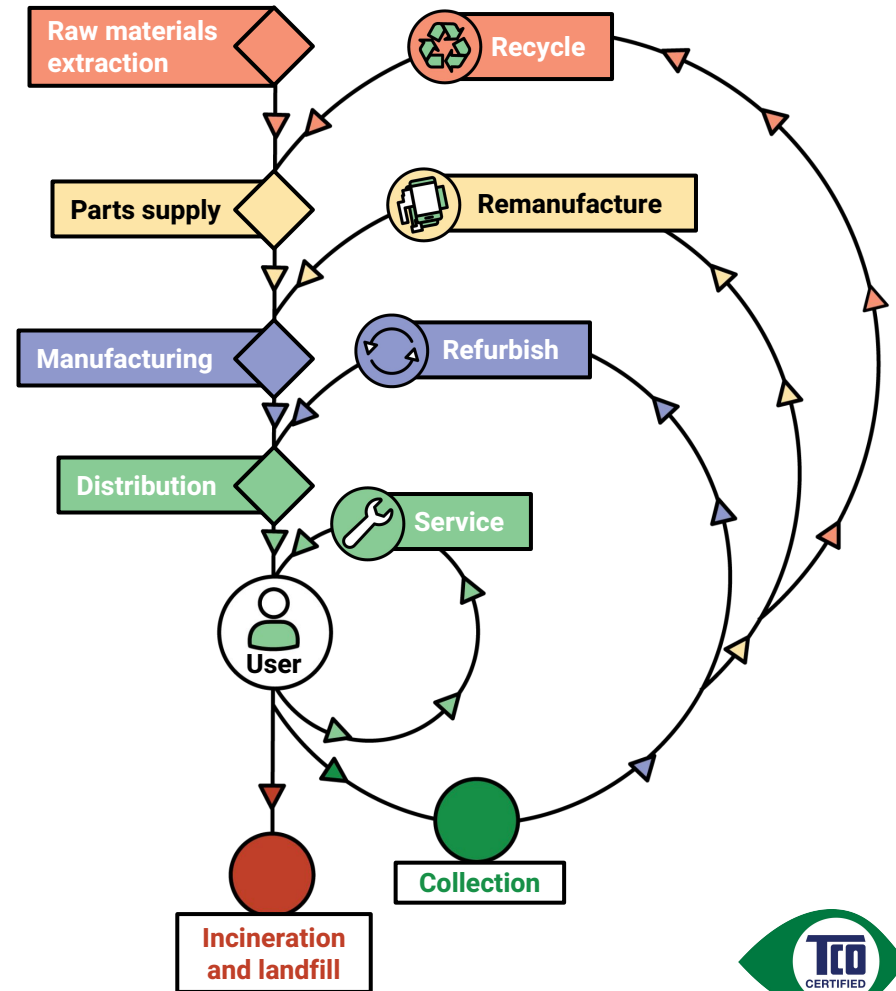
New generation every third year

Publicly available – download free of charge

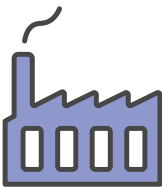


Extend product life

- Product with capacity to meet needs for a long time
- Durable product that can be repaired, and upgraded
- High quality, replaceable battery
- Availability of critical spare parts
- Software for safe data removal
- Extended product warranty



Reduced environmental impact



Environmental management system

Process chemicals

Recycled material content in product

Climate impact from manufacturing



Extended product lifetime

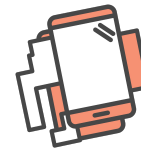
Energy efficient product– Energy Star or equivalent

Declared product weight

Battery – performance, smart charging, change

Firmware for safe data removal

Standardized connectors



Minimize environmental substances in product and packaging

Safer substitutes to forbidden chemicals, on TCO Certified Accepted Substance List based on **GreenScreen® For Safer Chemicals**

Designed for recycling

Responsible take back of products



Safer substitution

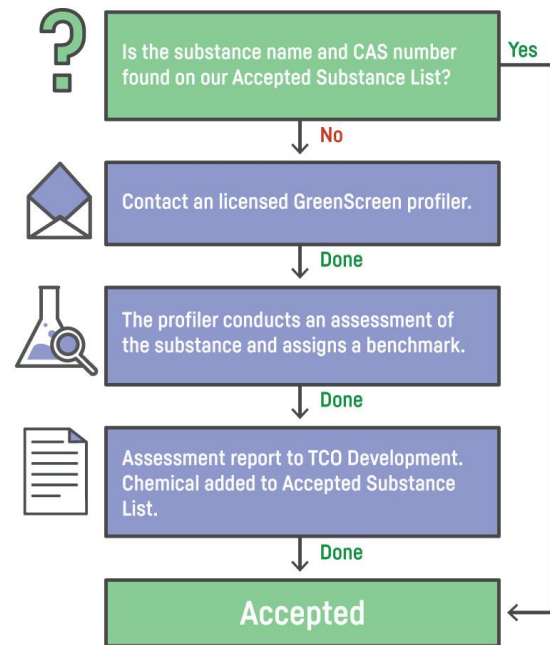
Restrictions \neq use of safer substances

TCO Certified Accepted Substance List

Non halogenated Flame retardants, softeners, and process chemicals

- GreenScreen® benchmark 2, 3 or 4
- Assessed by independent licensed toxicologists

Drives transparency



<https://tcocertified.com/industry/accepted-substance-list/>



Supply chain responsibility

- ! ILO core Conventions, UN Convention on the Rights of the Child & local health, safety and labor laws
- ! Maximum 60 hours working week, including overtime
- ! Health, safety and environmental management systems for continuous monitoring and improvement in the factories
- ! Responsible sourcing for at least 3TG and cobalt
- ! Tracing of risk minerals down to smelters and refiners



Verification of supply chain responsibility

Structured work - officially published supply chain code of conduct

Third party review - at least one report/year/brand, factory review at least every third year

Spot-checks

Deviations are handled through a corrective action plan

■ Tools in TCO Certified

CODE OF CONDUCT

FACTORY AUDIT

CORRECTIVE ACTION PLAN



■ Brand results

RESPONSIBILITY

STRUCTURE

TRANSPARENCY



Specifying TCO Certified in procurement

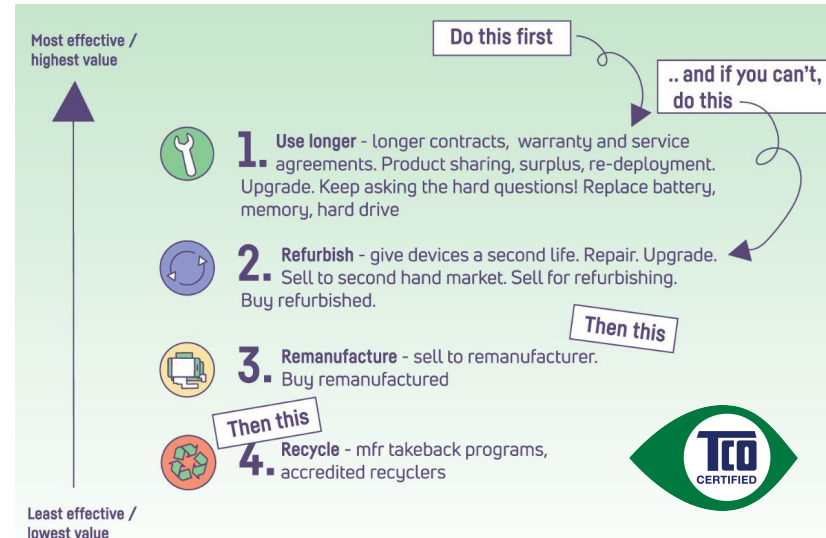
“Notebooks shall be certified according to TCO Certified Notebooks”
or specify underlying criteria

- Ask for proof: The product should be certified according to TCO Certified or equivalent certification
 - Equivalent labels shall be a ISO 14024 type 1 label
 - If label has a more narrow scope differentiate scoring
- Follow up on delivery: Check that products are listed in Product Finder or ask for a certificate
- Ensure that certified products are delivered throughout the contract period.
- Enable legal action if certified products not delivered.
- If certified products not available give a deadline.




Prepare your organization

- Set goals for purchase of eco-labelled products
- Highlight eco-labelled products in tender portals.
- Create a program for circulating IT products in your organization
- Set sustainability requirements for data center infrastructure - your own, colocated and cloud services
- Sign agreement for reuse of products (ITAD)
- Inform colleagues why sustainable IT
<https://tcocertified.com/sustainability-issues-connected-to-it-products/>
- Ask for TCO Certified
- Our reporting tool for sustainability reporting





Product finder





[About](#) [Learning](#) [Get started](#) [Ask a question](#) [Industry section](#) [Log in](#) [Product Finder](#) [English](#)


Product Finder



Displays



Notebooks



Tablets



Smartphones



Headsets



Desktops



All-in-One PCs



Projectors



Network equipment



Data storage



Servers


Imaging equipment

 COMPARE

 WATCH

 SHARE RESULTS

 EXPORT RESULTS

TCO CERTIFIED	BRAND	SALES NAME	CERTIFIED ON	VALID UNTIL



Independent proof



CERTIFICATE

TCO Certified, generation 8
for notebooks



Model name: 123**
Brand name: Example brand
Certification date: 2018-12-12
Expiry date: 2020-12-12

Toward sustainable IT products

With more than 25 years of experience, TCO Certified is the world-leading sustainability certification for IT products. Our comprehensive criteria are designed to drive social and environmental responsibility throughout the product life cycle. Covering eight product categories including displays, computers and mobile devices, compliance is independently verified, both pre and post certification.

For more information visit tco-certified.com

No. N818120001


Viktor Wennström
Certification process
TCO Development

This certificate confirms a sample of the certified product, its serial number, has been examined and approved to be compliant with the criteria described in the TCO Certified standard. The certificate holder is subject to the terms of the TCO Certified standard and is responsible for ensuring that the product is compliant with the TCO Certified standard. TCO Certified does not guarantee a lifetime agreement.

Appendix to certificate No. N818120001



Brand name: Example brand
Model name: 123**
*** key description:** 1st: 4 or 5
2nd: 6 or 7
Separate power supply: Yes, Class 1
Operating mode sound level: 4.5 B



35.0 %
Recycled plastic



5.1 kg
Total weight of product



Energy consumption
Short idle: 4.1 Watt
Long idle: 3.1 Watt
Sleep mode: 0.6 Watt
Off mode: 0.2 Watt



Aspect ratio: 16:9
Panel size: 11 in
Min. resolution width: 1920 px
Min. resolution height: 1080 px



Battery longevity:
The main battery in this product is tested to withstand at least: **300** full discharges until it reaches 60% of the initial capacity



Durability
Drop test height: 45 cm
High temp operational: 40° C
Low temp operational: -20° C

Sales name(s):
Sales name: 12345

Measure your progress with our
Sustainability Performance Indicators

Always ask for the certificate


Viktor Wennström
Certification process
TCO Development



Benefits with a robust sustainability label

Driving criteria and independent verification included - free of charge!

Influences directly into the supply chain.

Gather purchaser in a strong collective voice with direct impact

Reduces the risk of accepting false claims

Resource efficient to use marking/certification

- No expert knowledge required
- Only follow up that certified products are delivered



More information about TCO Certified

TCO Certified contains demanding sustainability requirements ready to use in procurement of IT products. Read more

<https://tcocertified.com/criteria-overview/>

Search among 3500 certified products from 25 brands in the Product Finder - <https://tcocertified.com/product-finder/>

Use Reporting tool - <https://tcocertified.com/report-generator/>

Educational platform Sustainable IT for Beginners can be shared within your organization to get your procurement, sustainability and IT teams up to speed - <https://tcocertified.com/sustainable-it-for-beginners/>

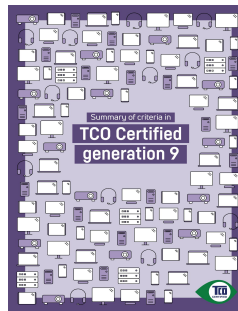
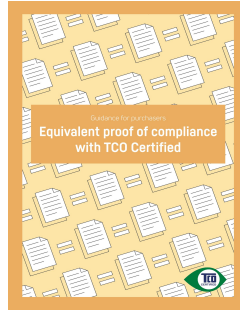
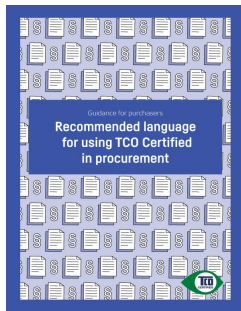
Step-by-step guide for getting started with sustainable IT procurement - <https://tcocertified.com/step-by-step-guide-for-purchasers/>

Impacts and Insights: Circular IT Management in Practice - tips from people on the frontline of circular procurement

<https://tcocertified.com/impacts-and-insights/>

Motivate your organization - tell why sustainable IT is important. Learn about issues targeted

by TCO Certified <https://tcocertified.com/sustainability-issues-connected-to-it-products/>





Ask you questions



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