

Life Cycle Assessment

SE2726HS

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At Dell Technologies, we're working to reduce the impact of our business and products on the environment. Reducing the carbon footprint of our products is a critical consideration in our product designs and it also enables our customers to achieve their own sustainability goals.

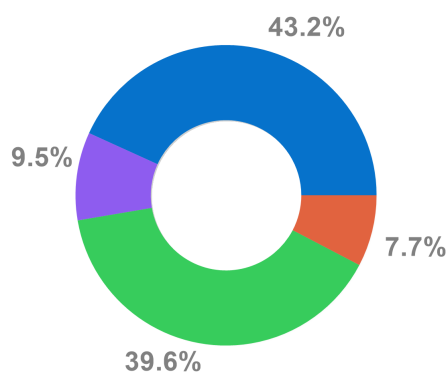
This document summarizes the Life Cycle Assessment (LCA) study of a SE2726HS. It was created using DELL's Product Carbon Footprint Calculator Version 2, an ISO14040 certified parametric LCA modeling tool powered by Sphera's LCA Calculator. The goal of this LCA is to quantify the product carbon footprint (aka global warming potential) of a single product system. Learn more about the calculation methodology please reference the report on our website.

The system's impacts were calculated across the products full life cycle (cradle-to-grave), including the extraction of raw materials, production of components, transportation, use of the product, and "end-of-life". Further assumptions and limitations to this approach are addressed in the greater methodology referenced above. The following assumptions were used to estimate the product impacts:

Assumptions for calculating PCF:

Product Weight	8.19 kg	Product Lifetime	5 yrs
Display Diagonale	27 in	Energy Demand (Yearly TEC)	44.7 kWh/a
Display Ratio	16:9	Manufacturing Location	China
Resolution	1920*1080	Assembly Location	China
Ports	HDMI1.4*2	Use Location	Europe

Total Carbon Footprint (EU Baseline): **173 kg CO₂-eq.** (excl. end of life credits)



■ 1. Manufacturing
 ■ 2. Transportation
 ■ 3. Use
 ■ 4. End-of-life

Manufacturing breakdown

Manufacturing Total	100%
Panel (incl. Peripherals)	74%
Mechanical Components	10%
Mainboard	5%
Power Supply Board	6%
Electromechanical Components	3%
Packaging	2%
Other (keyboard, USB-Board, etc.)	0%

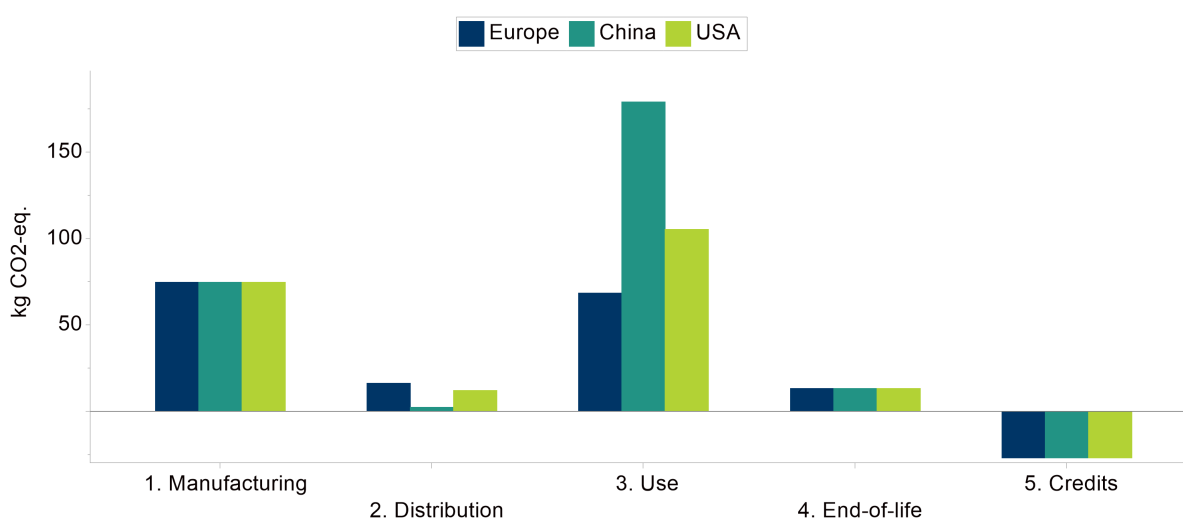
*Rounding can lead to deviations

The selected impact assessment methodology for the life cycle impact assessment (LCIA) is "EF 3.0 Climate Change - total" using the indicator global warming potential 100 (GWP100) measured in CO2-equivalents. Use stage conditions are calculated using the following formula: [(power in "on mode" (w) + power in "standby mode") * hours used per day * days used per year]/1000 = kWh consumption/year.

Depending on the end of life allocation approach used in a life cycle assessment, credits can be given to a product in its end-of-life stage if the environmental benefits from recycling the material are higher than the burdens of the recovery of the material. The Total Carbon Footprint above excludes end-of-life credits. Therefore, the end-of-life impacts only represent the transportation and disposal of the materials at the end of the product's useful life. An alternative end of life scenario which includes credits is presented below in addition to the assumptions made around material recovery.

Within the ICT industry, product carbon emissions are generally driven by the manufacturing and use lifecycle stages. Total product emissions will vary depending on the country/region of use due to the grid mix used (coal-based, nuclear-based, renewable-based, etc.) to produce the energy needed to operate the system over its lifetime. These location-based grid mixes will yield a different emission factor per kWh of consumption. To demonstrate this sensitivity, the following diagram and table shows different use location scenarios and how they would influence the total product carbon footprint.

Sensitivity Analysis on Use Location of Product (incl. end of life credits)



Note: 5. is negative based on the avoided environmental burdens due to the material recovery in the End-of-lifescenario (see further information below).

All values are to be understood as kg CO₂-eq.

	1. Manufacturing	2. Distribution	3. Use	4. End-of-life	5. Credits
Europe	74.81	16.40	68.63	13.30	-27.08
China	74.81	2.45	179.29	13.30	-27.08
USA	74.81	12.20	105.51	13.30	-27.08

For the alternative end-of-life scenario resulting in credits, it is assumed that all components made of steel, aluminum, or plastic are sent for material recycling. This, combined with the collection rate and material composition, results in a 19.6% share of the total weight entering recycling processes. The remaining portion is incinerated to recover released energy.

For material recycling, the LCA model employs a substitution approach. Open scrap inputs from production are subtracted from end-of-life scrap, yielding the net scrap output. This net scrap undergoes material recycling. The burden of the primary material input is allocated between current and subsequent life cycles, using the mass of recovered secondary material to scale the substituted primary material. This credits the substitution, distributing burdens appropriately across different life cycles. This alternative approach was presented to demonstrate how different assumptions can influence the results of the analysis.

These steps, based on industry average inventories, are modeled using a parametric LCA calculator tool that references a range of products representing the majority of manufactured notebooks. The tool combines and modifies individual modules of these products. The analysis acknowledges uncertainties in manufacturing impacts due to technical deviations, such as variations in passive components on various PWBs. The LCA study focuses exclusively on the GWP of the products, noting that a more comprehensive environmental profile analysis requires considering additional impact categories. The LCA models were created using LCA for Experts (LCA FE) 10 Software system for life cycle engineering, developed by Sphera®. The Sphera Managed LCA Content (MLC - formerly GaBi) database provides the life cycle inventory data for several of the raw and process materials obtained from the background system. Results shown here are subject to change as the model is updated.