PURESTORAGE®

About Pure Storage

Pure Storage® is a global leader in data storage and management with a mission to redefine the storage experience by simplifying how people consume and interact with data, all while positively impacting customers, partners, employees, communities and the environment.

Introduction

Understanding and managing the carbon footprint of products has become a crucial aspect for businesses committed to environmental sustainability. This report presents an analysis of the carbon footprint of the Pure Storage FlashBlade Family of products.

Pure Storage products are designed with environmental consciousness at its core, intended to offer high performance and reliability, while helping reduce the environmental impact of IT operations. As part of our commitment to transparency and sustainable development, we have used life cycle analysis to quantify the greenhouse gas (GHG) emissions associated with the entire lifecycle of our products.

Our assessment is compliant with the guidelines of the International Organization for Standardization (ISO), specifically ISO 14044. Through the assessment, we identified the key stages in the product life cycle that contribute most significantly to its carbon footprint, thereby uncovering opportunities for further environmental improvements and emissions reduction.

Pure Storage Is Committed to...

NET ZERO — Being net zero by 2040, covering our Scope 1 and market-based Scope 2 emissions

Setting science based targets (SBTi), covering Scope 1, 2, and 3

Reducing use of sold product emissions per effective petabyte by 66% by 2030, against a FY20 baseline

Our Technology

At Pure Storage, we offer a unified storage platform that is far more sustainable than any other available enterprise data storage technology, including other all-flash storage. Compared to competing solutions, our FlashBlade products use 50 to 70% less power and space, significantly reduce e-waste, and deliver superior reliability, for more sustainable operations.[1]
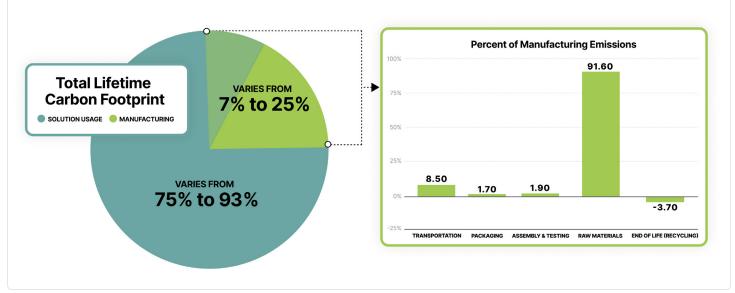
PRODUCT CARBON FOOTPRINT REPORT ASSUMPTIONS	
Use Location	EMEA
Assembly Origin	Pardubice, Czechia
Total Lifecycle	10 years
Rack Space	5 RU per chassis. //E: 2 chassis minimum + 2 RU XFM
Media Count	//S: 7 - 40 DFM, //E: 80+ DFM
Weight (including packaging)	//S: 100+ kg, //E: 208+ kg
Annual Energy Consumption	Varies by model. See details on next page.
Transportation	1000 km, Ground

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FlashBlade Product Family
Estimated Product Carbon Footprint[2]

FlashBlade//S200	7-BLADE	8-BLADE	9-BLADE	10-BLADE	
Product Carbon Footprint—Manufacturing	6,522kg CO2e	6,906kg CO2e	7,290kg CO2e	7,673kg CO2e	
Annual Energy Consumption—Product Use[3]	23,334kWh	25,851kWh	28,324kWh	31,904kWh	
FlashBlade//S500	7-BLADE	8-BLADE	9-BLADE	10-BLADE	
Product Carbon Footprint—Manufacturing	6,522kg CO2e	6,906kg CO2e	7,290kg CO2e	7,673kg CO2e	
Annual Energy Consumption—Product Use[3]	25,790kWh	27,877kWh	30,580kWh	33,604kWh	
FlashBlade//E	E-6000TB	E-12000TB	E-18000TB	E-24000TB	E-30000TB
Product Carbon Footprint—Manufacturing	15,347kg CO2e	30,694kg CO2e	46,040kg CO2e	61,387kg CO2e	76,734kg CO2e
Annual Energy Consumption—Product Use[3]	55,607kWh	103,503kWh	142,801kWh	190,696kWh	238,616kWh

FlashBlade Solution Use and Manufacturing Emissions[4]

CO_2 emissions due to solution use vary from 75% to 93% of the products' carbon footprint depending on the install country. The remaining portion of **CO_2 emissions is due to manufacturing activities which make up 7% to 25%.** The percent of manufacturing emissions due to specific activities are shown in the graph on the right.

Total Lifetime Carbon Footprint
● SOLUTION USAGE   ● MANUFACTURING

VARIES FROM
7% to 25%

VARIES FROM
75% to 93%

Percent of Manufacturing Emissions

TRANSPORTATION	8.50
PACKAGING	1.70
ASSEMBLY & TESTING	1.90
RAW MATERIALS	91.60
END OF LIFE (RECYCLING)	-3.70

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