

E4012 PRODUCT CARBON FOOTPRINT REPORT



Intelligent Data Infrastructure is Sustainable Data Infrastructure. Sustainability starts with data, and NetApp provides customers with energy efficient and resilient solutions for their data infrastructures.

NetApp® E4012 hybrid systems deliver cost-effective performance and reliability for diverse workloads such as video surveillance, enterprise backup targets, and remote office mixed workloads. The E4012 storage system features dual active controllers in a compact 2U chassis and scales up to 2.3PB with seven 2U12 expansion shelves, making it an excellent choice for businesses with space constraints and growing data needs.

Data centers are significant consumers of electricity and contribute to global greenhouse gas emissions. NetApp provides lifetime carbon footprint estimates for its storage solutions to help customers understand the environmental impacts of these systems.

NetApp uses the Product Attribute to Impact Algorithm (PAIA) to calculate the carbon emissions associated with a product through its lifecycle, encompassing raw material acquisition, manufacturing, distribution, product use, and final disposition. PAIA is a streamlined product carbon footprint methodology developed by the Materials Systems Laboratory at the Massachusetts Institute of Technology (MIT) and is recognized globally for assessing the environmental impacts associated with the entire lifecycle of a product.

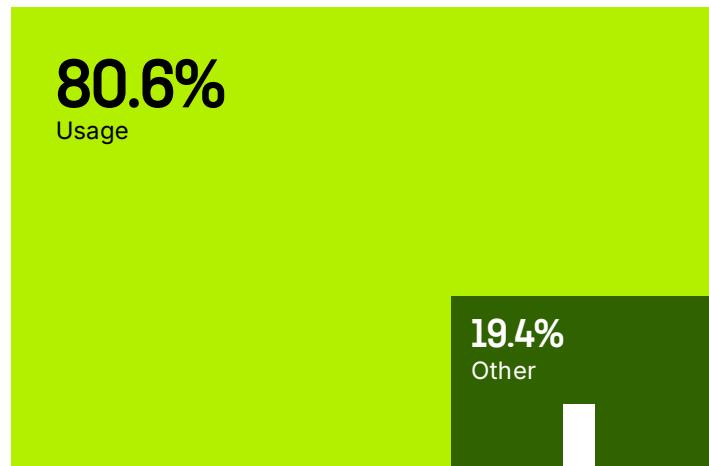
PAIA PCF analysis estimates are not intended for comparing products from different suppliers. For more information about PAIA, see this [overview](#).

Estimated lifetime carbon footprint

for E4012 systems:

9,576 kg CO₂e¹

The majority of a product's lifetime carbon footprint is from its use. "Other" includes activities from upstream manufacturing/supply chain and downstream end of life.



Assumptions used in this analysis are shown below.²



Use location³
EU



Country of origin
Hungary



Usage life
4 years



Memory (HA)
64GB



CPU cores (HA)
4



HDD count
12



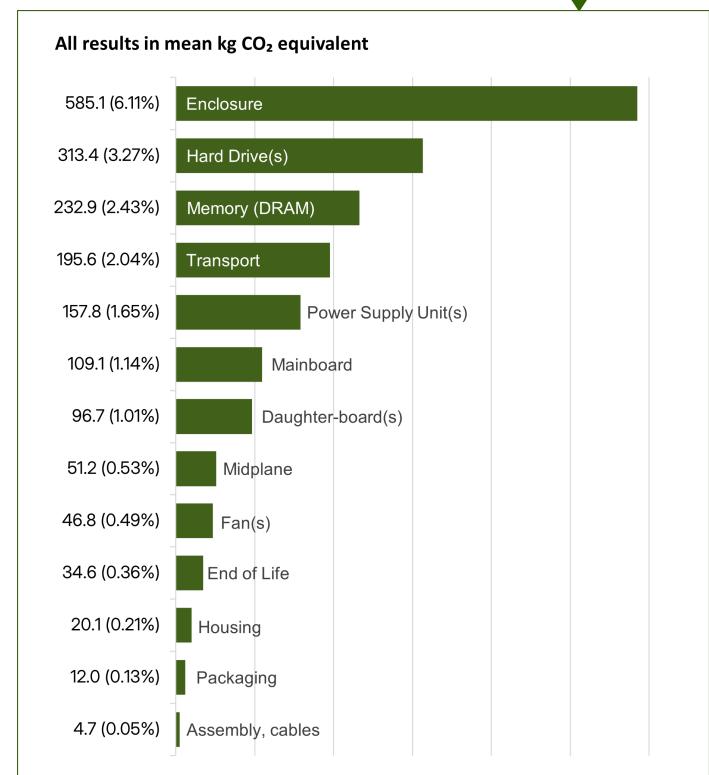
Weight
29.2 kg



Transportation
1,500 km/air
600 km/truck



Total energy
consumption⁴
3,902 kWh/year



Footnotes

1 All estimates of environmental impact and/or carbon footprint are uncertain. PAIA analyses provide reasonable estimates of the carbon impact of products, along with a range of uncertainty of the results. Standard deviation for this analysis is +/- 5,126 kg CO₂e.

2 This analysis used PAIA version 1.5.2. Future results could change as the tool is updated.

3 Use location for this PAIA analysis is EU; actual emissions calculations are dependent on where the equipment is used (specific state/country).

4 Total energy consumption is estimated based on the typical power rate. The E4012 field population used in our power consumption analysis focus on the most common configuration used by customers. Various configuration options will have different power consumption rates reflected in the usage phase data. Concise power consumption and environmental analysis of your E4012 storage systems are available in the NetApp Console Sustainability Dashboard, which uses telemetry from your system in its analysis. Learn about our sustainability initiatives [here](#).



Contact Us

About NetApp

NetApp is the intelligent data infrastructure company, combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, harnessing observability and AI to enable the industry's best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility. In addition, our data services create a data advantage through superior cyber resilience, governance, and application agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and AI. No matter the data type, workload, or environment, with NetApp you can transform your data infrastructure to realize your business possibilities. Learn more at www.netapp.com or follow us on X, LinkedIn, Facebook, and Instagram.