Japan EPD Program by SuMPO
Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

Hitachi, Ltd. Hitachi Virtual Storage Platform One Block 28

(30TB NVMe drive support)

Functional unit

Per sales unit (per unit)

System boundary

■ final products □intermediate products

Main specifications of the product

All-Flash Array

- Controller chassis

  HT-40SN-MNENNA

  Up to 24 NVMe SSD

  Up to 1 unit

- Drive box

  HT-F40SN-DBN2E

  Up to 24 NVMe SSD

  Up to 2 units

- Assumed operating years : 5years

* The specifications listed are subject to change without notice due to product improvements.

Registration#	JR-BF-24003C-A
PCR number	PA-520000-BF-04
PCR name	IT equipments
Publication date	5/29/2024
Verification date	3/12/2024
Verification method	Product-by-product
Verification#	JV-BF-24003
Expiration date	3/11/2029

PCR review was conducted by:

Approval date	8/15/2023
PCR review panel chair	Ken Yamagishi
	Sustainable Management Promotion Organizetion

Third party verifier*

	Takahiro Atou

Independent verification of data & declaration in accordance with ISO/TS14067

□internal ■external

*Auditor's name is stated if system certification has been performed.

Company Information

Hitachi, Ltd.

+81-3-5471-2745

Carbon Footprint of Products
CFP Declaration

Registration number : JR-BF-24003C-A

Japan EPD Program by SuMPO
Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
https://ecoleaf-label.jp/

1. Quantification results, and contents of the declaration

CFP quantification unit :

Parameter			Unit
CFP Quantification results		**79,000**	**kg-CO_2eq**
Breakdown	Raw material acquisition	3,000	kg-CO_2eq
	Production	900	kg-CO_2eq
	Distribution	54	kg-CO_2eq
	Use & maintenance	75,000	kg-CO_2eq
	End-of-Life	32	kg-CO_2eq
Value on CFP mark		**79,000**	**kg-CO_2eq**
Unit for the value on CFP mark		**Per sales unit (per unit)**	
Value on CFP mark		**7.3**	**kg-CO_2eq/TB・Year**
Unit for the value on CFP mark		**Per TB・Year*1**	

*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

*1 The amount of CO_2 emissions per unit function. Divided CFP results by the storage capacity (TB) and the assumed service life (Years).

3. Supplementary environmental information

2. Additional information

<Products>

・Product Name : Hitachi Virtual Storage Platform One Block 28

・Conditions for calculating CO_2eq emissions :
Calculated using 1 controller chassis (HT-40SN-MNENNA) with 24 NVMe SSDs installed.
and 2 drive boxes (HT-F40SN-DBN2E) with the maximum installed of 48 NVMe SSDs

・Product type name of the scenario used :
Disk array (Solid State Drive(SSD) installed)

<Product main specifications>
Storage capacity*1 : 2,160TB
Operating years*2 : 5 years
Drive type : Solid State Drive (NVMe SSD)
Drive interfaces : NVMe
Installed drives : 72 units

・CO_2eq emissions :
-Per product : 79 t-CO_2eq
-Per 1TB・1Year : 7.3 kg-CO_2eq/TB・Year

・Measurement conditions :
-Power during use is measured by the measurement method specified by certified PCR (PA-520000-BF-04)

*1 The capacity is calculated as 1TB = 1,000,000,000,000 bytes
*2 The operating years were assumed to be the statutory useful life(5 years for computer/others)

4. Interpretation

・ Greenhouse gas emissions at the use and maintenance stages are the largest, accounting for about 95% of the entire life cycle, and the influence of power consumption during use is large, so it can be said that energy-saving performance during use is a very important factor. Please note that the usage and maintenance stage may not be thesame as the customer's terms of use because general conditions have been set and evaluated.

・ In calculating CFP, we use our data for the amount of raw materials used, but since it is difficult to collect data at the time of manufacturing thousands of parts, we use general data at the time of manufacturing raw materials. Therefore, it may not reflect the unique characteristics of this product.

5. Assumptions of secondary data used

IDEA V2.1.3 , complemented by CO_2 Emissions Intensity v1.15.

6. Remarks

March 12, 2025 Added identifier to registered product name.

- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
  (Reference URL : https://ecoleaf-label.jp/regulation/)
- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.

Registration number : JR-BF-24003C-A