# 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 26

(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-40SP-MNDNNA

Up to 24 NVMe SSD

Up to 1 unit

- Drive box

HT-F40SP-DBN2E

Up to 24 NVMe SSD

Up to 2 units

Registration#	JR-BF-24004C			
PCR number	PA-520000-BF-04			
PCR name	IT equipments			
<b>Publication date</b>	5/29/2024			
Verification date	3/12/2024			
Verification method	Product-by-product			
Verification#	JV-BF-24004			
<b>Expiration date</b>	3/11/2029			
PCR review was conducted by:				
Approval date	8/15/2023			
PCR review	Ken Yamagishi			
panel chair	Sustainable Management Promotion Organizetion			
Third party verifier*				
	Takahiro Atou			
Independent verification of data & declaration in accordance with ISO/TS14067				
	ernal <b>e</b> xternal			

<sup>\*</sup>Auditor's name is stated if system certification has been performed.

# **Company Information**

Hitachi, Ltd.

+81-3-5471-2745

Registration number: JR-BF-24004C

<sup>-</sup> Assumed operating years : 5years

<sup>\*</sup> The specifications listed are subject to change without notice due to product improvements.



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# 1. Quantification results, and contents of the declaration CFP quantification unit:

Parameter			Unit
CFP Quantification results		74,000	kg-CO₂eq
Breakdown	Raw material acquisition	2,900	kg-CO₂eq
	Production	880	kg-CO₂eq
	Distribution	54	kg-CO₂eq
	Use & maintenance	70,000	kg-CO₂eq
	End-of-Life	32	kg-CO₂eq
Value on CFP mark		74,000	kg-CO₂eq
Unit for the value on CFP mark		Per sales unit (per unit)	
Value on CFP mark		6.9	kg-CO₂eq/TB · Year
Unit for the value on CFP mark		Per TB · Year*1	

<sup>\*</sup>Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

# 3. Supplementary environmental information

# 2. Additional information

### <Products>

- · Product Name: Hitachi Virtual Storage Platform One Block 26
- $\cdot$  Conditions for calculating CO<sub>2</sub>eq emissions : Calculated using 1 controller chassis (HT-40SP-MNDNNA) with 24 NVMe SSDs installed. and 2 drive boxes (HT-F40SP-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<sub>2</sub>eq emissions:

-Per product : 74 t-CO<sub>2</sub>eq

-Per 1TB · 1Year : 6.9 kg-CO₂eq/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)

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

# 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<sub>2</sub> Emissions Intensity v1.15.

# 6. Remarks

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- 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-24004C