

# Climate Declaration

Registration number of EPD : JR-BF-24013E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization  
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan  
<https://ecoleaf-label.jp>

※The Climate Declaration indicates greenhouse gas emissions in CO2 equivalent values and is not an EPD. Please check here for EPD: <https://ecoleaf-label.jp/>

## Hitachi, Ltd. Hitachi Virtual Storage Platform One Block 28

### Declaration unit・Functional unit

Per sales unit (per unit)

### System boundary

final products  intermediate products

① Raw material acquisition ② Production ③ Distribution  
④ Use & maintenance ⑤ End of Life

### Main specifications of the product

All-Flash Array

- Controller box HT-40SN-MNENNA (NVMe up to 24) Up to 1 unit

Cache capacity : 1024 GiB

- Drive box HT-F40SN-DBN2E (NVMe up to 24) Up to 2 units

- Assumed operating years : 5years

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



### EPD Verification information

Registration#	JR-BF-24013E
PCR number	PA-520000-BF-04
Publication date	1st Apr. 2025
Verification date	1st Mar. 2025
Verification method	Product-by-product
Verification#	JV-BF-24013
Expiration date	28 Feb. 2030
Verifier	<input type="checkbox"/> internal <input checked="" type="checkbox"/> external Yuki Sakamoto

### PCR information

PCR name	IT equipments
PCR review panel	
Approval date	15/8/2023
PCR review panel chair	Ken Yamagishi Sustainable Management Promotion Organization

### GWP (Carbon footprint)

Stages of the Life cycle	Breakdown	Unit	Percentage
①Raw material acquisition	2.5E+03 kg-CO <sub>2</sub> eq		3.4%
②Production	8.4E+02 kg-CO <sub>2</sub> eq		1.1%
③Distribution	5.4E+01 kg-CO <sub>2</sub> eq		0.1%
④Use & maintenance	7.1E+04 kg-CO <sub>2</sub> eq		95.3%
⑤End-of-Life	9.4E+01 kg-CO <sub>2</sub> eq		0.1%
<b>Total</b>	<b>7.4E+04 kg-CO<sub>2</sub>eq</b>		

### Additional information

<Products>  
-Conditions for calculating CO<sub>2</sub>eq 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 : 4,320TB  
Operating years\*2 : 5 years  
Drive type : Solid State Drive (NVMe SSD)  
Drive interfaces : NVMe  
Installed drives : 72 units  
-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)

### About the Climate Declaration

This declaration is based on the results of LCA calculations conducted to prepare an EPD in accordance with ISO 14025, and only the global warming impact (carbon footprint) has been isolated and disclosed. Indicators other than carbon footprint may be of equal or greater importance to the impact on global warming, and therefore great care must be taken in the interpretation and communication of this declaration. This figure is a portion of the verified data, and the declaration itself has not been verified by Japan EPD Program by SuMPO. Please check the QR on the right for EPD compliant with ISO14025.

### EPD Link



### EPD Link

<https://ecoleaf-label.jp/en/epd/2100>

### LCI date

Priority to IDEA ver. 3.1.0,  
it was supplemented with the registered basic unit v1.15.

### Company Information

Hitachi, Ltd. +81-3-5471-2745