

# Carbon Footprint Climate Declaration

SuMPO Environmental Label Program

Sustainable Management Promotion Organization General Incorporated Association

1-14-8 Uchikanda, Chiyoda-ku, Tokyo KANDA SQUARE GATE

<https://ecoleaf-label.jp>

Registration Number: SuMPO-EPD-2604-135-1

\*The Climate Declaration expresses greenhouse gas emissions in CO2 equivalents and is not an EPD. EPD stands for <https://ecoleaf-label.jp/>

## Hitachi Vantara, Ltd.

Hitachi Virtual Storage Platform One Block 85

H-65AH-CBXANNN / A-65AH-CBXANNN

## Hitachi Vantara, Ltd.



### GWP (Carbon Footprint)

1.59E+06 kg CO<sub>2</sub>eq

### Product & LCA Information

#### Declaration Unit

Per Sales Unit (1 System)

#### System Boundary

Cradle-to-Grave

#### Product Model

H-65AH-CBXANNN/A-65AH-CBXANNN

#### Key Specifications

Storage Capacity\*1: 17,280 TB

Expected Service Life\*2: 5 years

Drive Type: Solid-state drive (NVMe SSD)

Drive Interface Type/Number of Drives: NVMe/288 units

\*1 Calculated based on 1TB = 1,000,000,000,000 bytes

\*2 Statutory useful life (computers and other equipment: 5 years)

#### EPD Type

Single Product

Specific Site

Specific Value

#### LCI Data and Other Background Data

IDEA 3.1

#### Handling of Biogenic Carbon

0/0 Approach

### EPD Verification Information

#### Registration Number

To be entered after verification

#### Verification Date

2026/4/8

#### Publication Date

2026/4/18

#### Validation Validity Period

2031/4/7

#### Verification Method

Third-party verification by a verifier

#### Test Conductor

Tomoko Fuchigami

#### (Affiliation)

EFPRO LLC

### PCR Information

#### PCR Name

IT Equipment

#### Applicable PCR Number

PA-520000-BF-04

#### Certification Date, etc.

2023/8 /15

#### Review Panel Chair

Ken Yamagishi

### Biogenic Carbon Content

Item	Content (kg-C)	Content (kg-CO <sub>2</sub> -eq)
Bio-based carbon content per product	-	-
Bio-based carbon content of packaging materials provided by the supplier	-	-

#### EPD Link

<https://ecoleaf-label.jp/en/epd/2961>

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## Climate Declaration

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GWP (Carbon Footprint)			
Life cycle stage	Breakdown	Unit	Percentage
Raw Material Procurement Stage	1.15E+06	kg-CO2eq	72%
Manufacturing stage	3.42E+03	kg-CO2eq	0%
Distribution stage	1.32E+02	kg-CO2eq	0%
Use Stage	4.37E+05	kg-CO2eq	27%
End-of-life stage	2.32E+02	kg-CO2eq	0%
<b>Total</b>	<b>1.59E+06</b>	<b>kg-CO2eq</b>	

### Explanation of Calculation Results

#### (1) Product Specifications

• Product Name: Hitachi Virtual Storage Platform One Block 85

• Calculation Conditions

Controller chassis (1 unit each of H-65AH-B1NCBXANNN/A-65AH-B3NCBXANNN, H-F65AH-B1NCBXBNN/A-F65AH-B3NCBXBNN: 2 units) and drive enclosures (H-F65AH-B1NNBX/A-F65AH-B3NNBX: 3 units) equipped with the maximum number of NVMe SSDs (288 units)

• Product Type Used in the Scenario

Disk Array (Equipped with solid-state drives)

<Main Product Specifications>

-Storage Capacity\*1: 17,280 TB

-Expected Service Life\*2: 5 years

-Drive Type: Solid-state drive (NVMe SSD)

-Drive Interface Type: NVMe

-Number of Drives: 288

• Measurement Conditions: Power consumption during operation is measured using the method specified in the certified PCR (PA-520000-BF-04).

\*1 This capacity is calculated based on 1TB = 1,000,000,000,000 bytes.

\*2 The estimated service life is calculated based on the statutory useful life (5 years for computers and other equipment).

#### (2) Explanation of Interpretation and Limitations of Calculation Results

• The usage and maintenance stages were evaluated under general conditions and may therefore differ from the customer's specific usage conditions.

• For EPD calculations, we use our company's data for raw material usage; however, since it is difficult to collect manufacturing data for thousands of individual parts, we utilize general data from raw material manufacturing processes. Consequently, this may not fully reflect the specific characteristics of this product.

• Activity data related to the manufacturing of "parts and accessories" is collected in units of mass, price, and quantity, aligned with the standard units.

## Additional Environmental Information

Production and assembly are carried out at an ISO 14001-certified factory, and waste is properly disposed of.

In accordance with the Hitachi Group Green Procurement Guidelines, the product complies with the European RoHS Directive, the European REACH Regulation, the POPs Convention, the U.S. TOSCA, and other national hazardous substance regulations, and contains no hazardous substances.

Hitachi Group Green Procurement Guidelines:

<https://www.hitachi.co.jp/procurement/csr/environment/pdf/green.pdf>

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## About the Climate Declaration

This declaration is based on the results of an LCA conducted to prepare an EPD in accordance with ISO 14025, and discloses only the impact on global warming (carbon footprint). Indicators other than the carbon footprint may be of equal or greater importance in terms of their impact on global warming, and extreme caution is required when interpreting and communicating this declaration. This figure is derived from a subset of verified data, and the declaration itself has not been verified under the SuMPO Environmental Labeling Program. Please refer to the QR code below to view the EPD compliant with ISO 14025.

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## Contact Information

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## EPD Link

