SuMPO EPD
Type III Environmental Declaration (EPD)

Registration number : JR-BF-25002E

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 5200

Functional unit

Per sales unit (per unit)

System boundary

■ final products   ☐ intermediate products

Main specifications of the product

All-Flash Array

- Controller chassis

  H/A-65AG-CBXAAN* up to 1pair

     * "H/A-" means "H-" or "A-"

- Drive box

  H/A-F65AG-B1NSBX (Up to 96 SAS SSD)

     Up to 8 units

  H/A-F65AG-B1NNBX (Up to 96 NVMe SSD)

     Up to 1 units

  *The maximum installed drives represents

   the case of connecting only a single type of drive box.

   The mix of the SAS/NVMe drive is excluded

- Assumed operating years : 5years

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

Company Information

Hitachi, Ltd.

+81-3-5471-2745

Registration#	JR-BF-25002E
PCR number	PA-520000-BF-04
PCR name	IT equipments
Publication date	12/5/2025
Verification date	11/18/2025
Verification method	Product-by-product
Verification#	JV-BF-25002
Expiration date	11/17/2030

PCR review was conducted by:

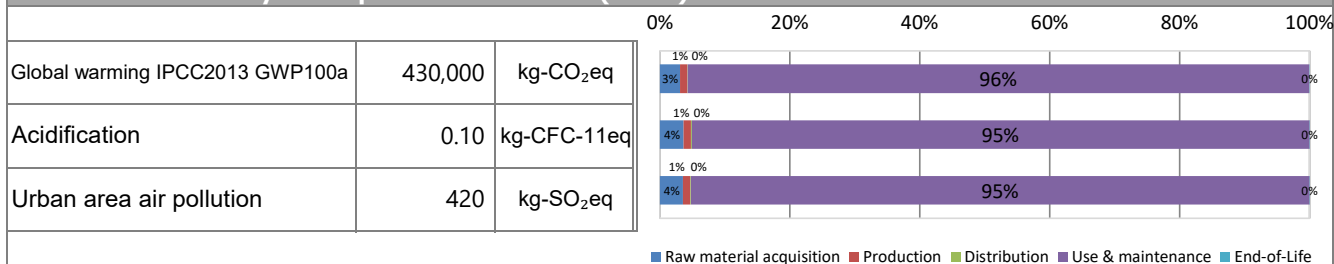|	
Approval date	8/15/2023
PCR review panel chair	Ken Yamagishi
	(Sustainable Management Promotion Organizetion)

Third party verifier*

Yasuo Naito

Independent verification of data & declaration in accordance with ISO14025

☐internal   ■external

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

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1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	430,000	kg-CO_2eq
Acidification	0.10	kg-CFC-11eq
Urban area air pollution	420	kg-SO_2eq

■ Raw material acquisition　■ Production　■ Distribution　■ Use & maintenance　■ End-of-Life

stage / Parameter	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	4.3E+05	1.3E+04	4.9E+03	2.0E+02	4.1E+05	3.5E+02
Ozone layer destruction	kg-CFC-11eq	1.0E-01	1.4E-03	1.2E-03	2.7E-09	9.9E-02	9.8E-06
Acidification	kg-SO_2eq	4.2E+02	1.5E+01	4.8E+00	6.6E-01	4.0E+02	1.6E-01
Urban area air pollution	kg-SO_2eq	3.2E+02	1.2E+01	3.7E+00	2.5E-01	3.1E+02	9.7E-02
Photochemical ozone	kg-C_2H_4eq	8.3E+00	2.8E-01	9.5E-02	1.4E-03	7.9E+00	1.3E-03
Toxic chemicals(cancer)	kg-C_6H_6eq	2.2E+01	1.2E+01	1.1E-01	9.9E-04	9.6E+00	1.0E-02
Toxic chemicals(chronic disease)	kg-C_6H_6eq	1.4E+00	1.4E-01	1.5E-02	6.4E-04	1.2E+00	3.6E-04
Aquatic toxicity	kg-C_6H_6eq	8.6E+02	4.6E+01	9.6E+00	3.2E-05	8.0E+02	8.6E-02
Biological toxity	kg-C_6H_6eq	2.1E+04	1.0E+03	2.3E+02	5.2E-04	1.9E+04	1.9E+00
Eutrophication	kg-PO_4^{3-}eq	1.2E-01	9.8E-02	3.0E-04	2.0E-09	2.5E-02	1.3E-03
Land use(Occupation)	m^2/year	2.2E+03	1.3E+02	2.4E+01	1.7E+01	2.0E+03	1.9E+00
Land use(Transformation)	m^2	5.9E+01	2.0E+00	6.7E-01	3.3E-01	5.6E+01	4.0E-02
Resources consumption	kg-Sbeq	3.9E+00	1.1E+00	3.3E-02	8.3E-04	2.8E+00	5.6E-04

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	7.1E+03	kg
Non-renewable energy resources	1.6E+05	kg
Non-renewable energy resources	6.7E+06	MJ
Renewable material resources	1.6E+03	kg
Renewable primary energy	2.7E+06	MJ
Consumption of freshwater	1.2E+02	m^3

3. Material composition

Material		Unit
All Flash array　Steel	57	%
Other metals	2	%
Plastics	4	%
PCB	4	%
Copper-clad wire,Motors	5	%
Batteries	0	%
PSU	14	%
SSD	14	%
Total	100	%

4. Waste to disposal

Parameter		Unit
Hazardous waste	0.0E+00	kg
Non-hazardous waste.	1.7E+03	kg
Treated MSW for landfill	6.1E-07	kg
Treated industrial waste for landfill	1.7E+03	kg

*Data derived from LCA and not assigned to the impact categories of LCIA

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5. Additional explanation

<Products>
 ・Product Name : Hitachi Virtual Storage Platform 5200
 ・Conditions for calculating :
　 Calculated using 1 controller chassis (H/A-65AG-CBXAAN) and 8 drive boxes (H/A-F65AG-B1NSBX) ,
　 with the maximum installed of SAS SSDs(768 units).
 ・Product type name of the scenario used :
　 Disk array (Solid State Drive(SSD) installed)

<Product main specifications>
　 Physical storage capacity[*1] : 23,113TB

　 Operating years[*2] 　　　　　: 5 years

　 Drive type 　　　　　　　　 : Solid State Drive (SAS SSD)

　 Drive interface 　　　　　 : SAS

　 Installed drives 　　: 768 units
 ・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)

 ・The largest amount of greenhouse gas emissions occurs during the use and maintenance stages, accounting for
approximately 96% of the entire lifecycle. The energy consumption during use has a significant impact, so energy-saving
performance during use is a very important factor. Note that the use and maintenance stages were evaluated under
general conditions, so they may not be the same as the conditions under which the customer uses the product.
 ・In calculating EPD, we use our own data for the amount of raw materials used, but because it is difficult to collect data on
the manufacture of the thousands of parts used, we use data from the manufacture of general raw materials. As a result,
the product's unique characteristics may not be reflected.

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6-1. Supplementary environmental information

・This product is manufactured and assembled at a factory that has obtained ISO14001:2015 certification.

・This product complies with the European RoHS Directive.

・We have established environmentally friendly green procurement guidelines and are working on green procurement with our procurement partners.

7. Assumptions of secondary data used

Primary used IDEA V3.1.0 , complemented by CO2 Emissions Intensity v1.15.

8. 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/)
- This is a selfdeclared translation of EPD that can be accessed at https://ecoleaf-label.jp/epd/2622

 and is published for convenience purposes. Only the original EPD is valid and binding between parties.