

# Product Lifecycle assessment report

Ultrathin 2-in-1 convertible laptop      Portege X30W-J

**Dynabook Inc.**

December 8th, 2021

Toward the creation of a sustainable resource-recycling society, we visualize the environmental impact of our products through life cycle assessment in order to efficiently reduce the environmental impact of our products and realize environmentally conscious products.

This document is the product life cycle assessment information for our Ultrathin 2-in-1 convertible laptop, Portege X30W-J. The calculation of each environmental impact in Lifecycle assessment complies with ISO 14040:2006 and ISO 14044:2006, and the impact assessment methodology is based on GWP (IPCC 2013 GWP100a), Abiotic depletion fossil (van Oers et al, 2002), and Available water remaining 100, UNEP, 2016.

※ Lifecycle assessment: Assessment methodology for Environmental impact



**Portege X30W-J**

## GWP\*

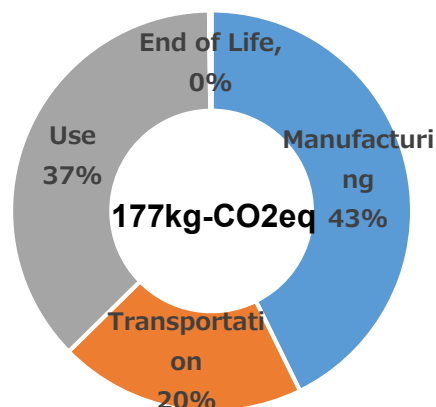
Estimated value per unit of this product:

**177 kg-CO<sub>2</sub>eq**

	[kg-CO <sub>2</sub> eq]
Manufacturing	76
Transportation	35
Use	66
End of Life	0

※ GWP is the global warming potential, which indicates the amount of greenhouse gas emissions during the product life cycle.

## GWP for Portege X30W-J



## ADP\*

Estimated value per unit of this product

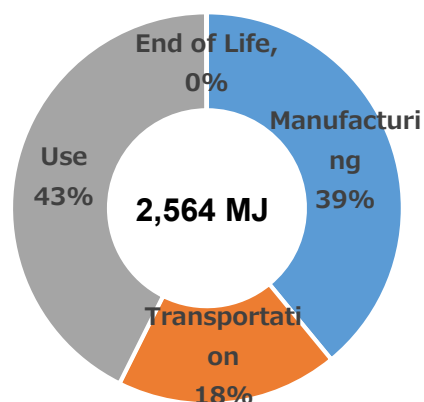
**2,564 MJ**

[MJ]

Manufacturing	1,002
Transportation	470
Use	1,093
End of Life	-1

※ ADP is a coefficient of depletion of non-biological resources and indicates the amount of fossil fuels consumed in lifecycle of a product in MJ (Mega Joules).

## ADP for Portege X30W-J



## Water Use\*

Estimated value per unit of this product:

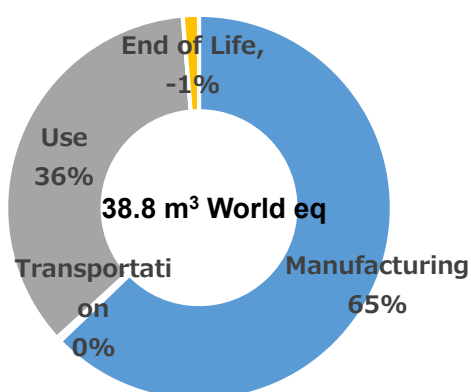
**38.8 m<sup>3</sup> World eq**

[m<sup>3</sup> World eq]

Manufacturing	25.1
Transportation	0.1
Use	14.1
End of Life	-0.5

※ Water Use is the amount of water used during the life cycle of a product, expressed in "m<sup>3</sup> World eq".

## Water use for Portege X30W-J



## Product Specification used for calculation

CPU: Intel® Core™ i7-1165G7 Processor

Memory: 32GB

Screen size: 13.3"

Weight of product: 1.2kg

Weight of packaging: 0.5kg

※ Intel and Intel Core are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

## Assumption

Manufacturing	Assembly location: China The calculated impact of all components, including packaging materials.
Transportation	All the air, sea or land transportation from Dynabook manufacturing facility in China to each distribution site in US is included.
Use	Lifetime of Product: 5 years Use location: USA Use energy consumption: 24.7kWh/Year This value was calculated based on ENERGY STAR <sup>※</sup> .
End of Life	The EoL scenario is assumed in accordance with the statistics those for electronics and packages done by US environmental Protection Agency. Emissions generated during the mechanical destruction, transport of end of life materials and landfill are included in the calculation

※ ENERGY STAR: ENERGY STAR<sup>®</sup> Program Requirements  
Product Specification for Computers Version 8.0  
ENERGY STAR is a registered trademark of US-EPA.

## Used software/Database

Software: GaBi 9

Database: GaBi professional,  
Extension database XI electronics

※ GaBi is a trademark of Sphera Solutions GmbH

## Uncertainty

The estimation of each environmental impact is approximations and can vary widely depending on usage, disposal methods, and other factors. They are also uncertain due to time / technological / geographical limitations of the data used.

## Dynabook Inc.

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