

Environmental product declaration – EPD

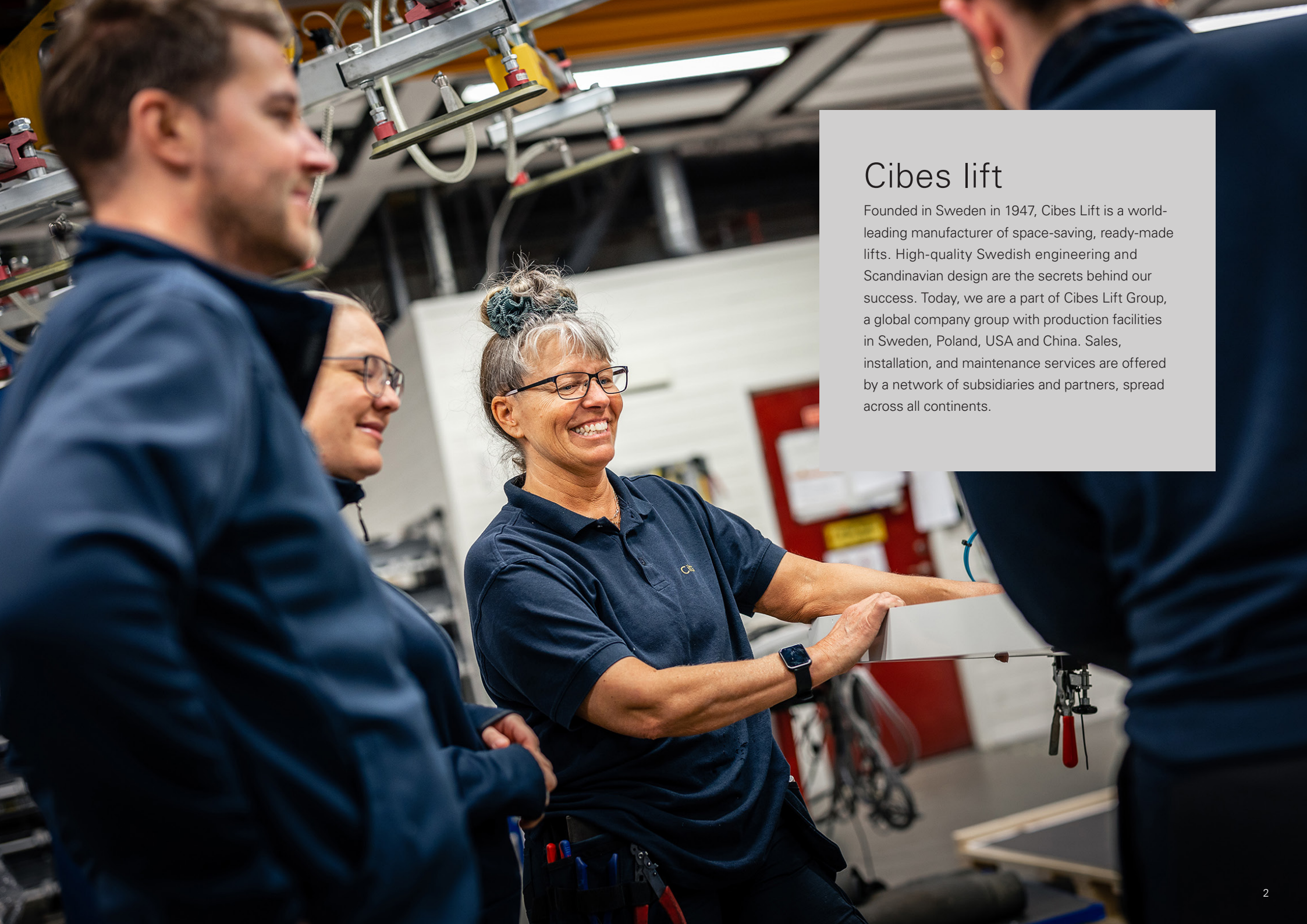
IN ACCORDANCE WITH ISO 14025:2006 AND EN 15804:2012+A2:2019/AC:2021 for:
CIBES C1 Pure from CIBES LIFT GROUP AB

Cibės Lift Group



An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer/service provider
EPD registration number:	EPD-IES-0025751:001
Version date:	2025-10-16
Validity date:	2030-10-15



Cibes lift

Founded in Sweden in 1947, Cibes Lift is a world-leading manufacturer of space-saving, ready-made lifts. High-quality Swedish engineering and Scandinavian design are the secrets behind our success. Today, we are a part of Cibes Lift Group, a global company group with production facilities in Sweden, Poland, USA and China. Sales, installation, and maintenance services are offered by a network of subsidiaries and partners, spread across all continents.

General information

PROGRAMME INFORMATION

Programme	The International EPD® System
Address	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website	www.environdec.com
E-mail	info@environdec.com

Product Category Rules (PCR): Construction products, 2019:14, version 2.0.1

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

PCR review was conducted by:

The Technical Committee of the International EPD® System.

See www.environdec.com for a list of members.

Review chair: Rob Rouwette (chair), Noa Meron (cochair).

The review panel may be contacted via the Secretariat www.environdec.com/contact

c-PCR: 2019:14-c-PCR-008 – Lifts (elevators) (c-PCR to PCR 2019:14), (Version 1.0.1) 1.0.1

Third-party Verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

☒ **Individual EPD verification without a pre-verified LCA/EPD tool**

Third-party verifier: Hudai Kara PhD

Approved by: International EPD System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

Information about EPD owner

Owner of the EPD: Cibes Lift Group AB

Address: Utmarksvägen 13, 802 91 Gävle, Sverige

Contact: cibesliftgroup.com, +46 (0) 26 17 14 00

Address and contact information of the LCA practitioner commissioned by the EPD owner:

Miljögiraff AB

Bläsgatan 2, 414 63 Göteborg, Sweden

Miljogiraff@miljogiraff.se

Description of the organisation: Cibes Lift Group AB is a global manufacturer of space-efficient vertical transportation solutions, headquartered in Sweden. The company specializes in lifts designed for residential and commercial applications, with operations in over 70 countries worldwide.

Product-related or management system-related certifications: Cibes Lift Group products are type approved and certified by a Notified Body. All our products are built according to existing safety standards and relevant parts of the European Machinery Directive 2006/42/EC taken into account any additional remarks mentioned in our certificates. Cabin lift with shaft based on the following standard: EN81-41:2010 and parts of EN 81-20:2020.

Third party verifier: Hudai Kara PhD Metsims
Sustainability Consulting, Oxford, U.K.

Approved by: The International EPD® System



Hudai Kara PhD

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Product information

Product name: Cibes C1 Pure

Product identification: The Cibes C1 Pure is a Cabin lift with automatic control and is available with ready-made shaft of glass or steel, but can also be placed in a site-built shaft.

Visual representation (e.g., an image) of the product:



UN CPC code: 4354 Lifts

Product description: The product under study is the Cibes C1 Pure, designed to transport passengers and goods between the floors of a building. The lift is available in several configurations, varying in travel height, number of stops, cabin dimensions, and shaft design. For this LCA, the selected configuration is a 2-stop C1 lift with a travel height of 3.5 meters and a total height of 6.1 meters. The lift is equipped with a cabin with 1400 x 1100 mm floor size and a custom ready-made shaft with steel panels. This configuration is representative for Environmental Product Declaration (EPD) purposes as it is one of the most common models that Cibes deliver to their customers.

Name and location of production site(s): Sweden, Gävle

Product Specification

Index	Values	Representatives values chosen in case of ranges
Type of installation	New generic lift	
Commercial name	Cibes C1 Pure	
Main purpose	Transport of passengers	
Type of lift	Low speed cabin lift	
Type of drive system	Leadscrew	
Rated load (fixed or range)	630 kg	
Rated speed (fixed or range)	0,15 m/s	
Number of stops (fixed or range)	2	
Travelled height (fixed or range)	3.5 m	
Number of operating days/year (fixed or range)	260 days	
Applied usage category (UC) according to ISO 25745-2	1	50 trips per day
Designed Reference Service Life (RSL)	25 years	
Transportation performance (TP)	53.7 tkm	
Geographic region of intended installation	Europe	
Additional information		
Recommended application (main market)	Low-rise residential/ commercial	
- Building rise (typical)		
- Building type		
Additional requirements	N/A	
Standby power requirement	24 W	

Content declaration

This part describes all the different components and packaging materials. The product does not contain any Substances of Very High Concern (SVHC).

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-%	kg C/declared unit
Steel	961,1			0
MDF	92,5		82%	34,2
Aluminium	87,2	5%		0
Plastic	41,5			0
Electric motor	30,4			0
Wood	13,0		100%	5,7
Copper	11,0			0
Rubber	7,1			0
Electronics, other	3,1			0
Battery	3,0			0
Metal other	2,1			0
Oil	1,3			0
PCB	0,5			0
Paper	0,5		90%	0,2
TOTAL	1256	0%	7%	40,1
Packaging materials				
Wood	444,0		100%	195,4
Cardboard	2,0		90%	0,8
Plastic	1,6			0,0
TOTAL	447,6	0%	100%	196,2

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

LCA information

Functional unit and transportation performance:

The function of a lift is the transportation of persons and/or freight. For this study, in accordance with the c-PCR (EPD International, 2020), the functional unit was thus defined to be the transportation of a load over a distance, expressed as one tonne transported vertically over one kilometre, (i.e. 1 tonne*kilometre or tkm). The term “transportation performance (TP)” used to indicate the total amount of tkm is identical both in meaning and in calculation approach to the term “total number of FU” used in EPDs based on PCR 2015:05.

Parameter	How to calculate	Calculation
TP = (Transportation Performance)	Average car load (Qav) multiplied by the distance travelled by the lift during the service life (sRSL)	0.04725 tonnes * 1140 km = 53.7 tkm
Q_{av} = average car load	Rated load (in tonnes) multiplied by the corresponding percentage from Table 3 of ISO 25745-2	0.63 tonnes * 0.075 = 0.04725 tonnes
s_{RSL} = Distance travelled by the lift during the service life	One-way average travel distance (sav) * number of trips per day (nd) * number of operating days per year (dop) * Reference Service Life (RSL)	3.5 meters * 50 trips/day * 260 days/year * 25 years = 1140 km

Reference service life: The reference service lifetime (RSL) is set to 25 years, in alignment with the PCR.

Time representativeness: The data collection period is for the year 2024.

Geographical scope: The geographical coverage of the data chosen reflects the physical reality of the product system modelled. The geographic region of intended installation is Europe. The end-of-life stage can be evaluated using one or several scenarios representing the specific geographical scope of choice.

Database(s) and LCA software used: Ecoinvent 3.11 and SimaPro

EPD/LCA Tool used: Not Applicable

LCIA method: The LCIA method follows the standard for Construction Products EN 15804:2012+A2:2019/AC:2021. EN 15804:2012+A2:2019/AC:2021 uses the impact categories and characterization factors of the LCIA methods used in Environmental Footprint 3.1 (EF 3.1), with the only difference that biogenic carbon dioxide uptake is calculated as -1 and biogenic carbon dioxide emissions as +1, where EF 3.1 calculates this as 0 and 0, respectively.

In addition to the climate impact indicator required in EN 15804:2012+A2:2019/AC:2021, the PCR for Construction Products requires reporting of climate impact with the GWP-GHG

indicator, where the characterization factor for biogenic carbon dioxide is set to zero. This is calculated with the IPCC 2021 GWP 100 method.

Allocation: Allocation follows a physical causality in line with EN 15804.

For manufacturing data for one of the suppliers that could not be attributed to a specific component (energy, waste, consumables), allocation was performed based on internal sales price, i.e. the price that CIBES Gävle pays for each component, compared to the total sales value for the data collection period.

Cut-off criteria: It is common to scan for the most important factors (a “cut off” of 95% is a minimum) to avoid putting time and effort into irrelevant parts of the life cycle. In general, LCA focuses on the essential material and energy flows, while the flows that can be considered negligible are excluded. By setting cut-off criteria, a lower limit is defined for the flows to be included. Flows below the limit can be assumed to have a negligible impact and are thus excluded from the study. For example, cut-off criteria can be determined for inflows concerning mass, energy, or outflows, e.g., waste.

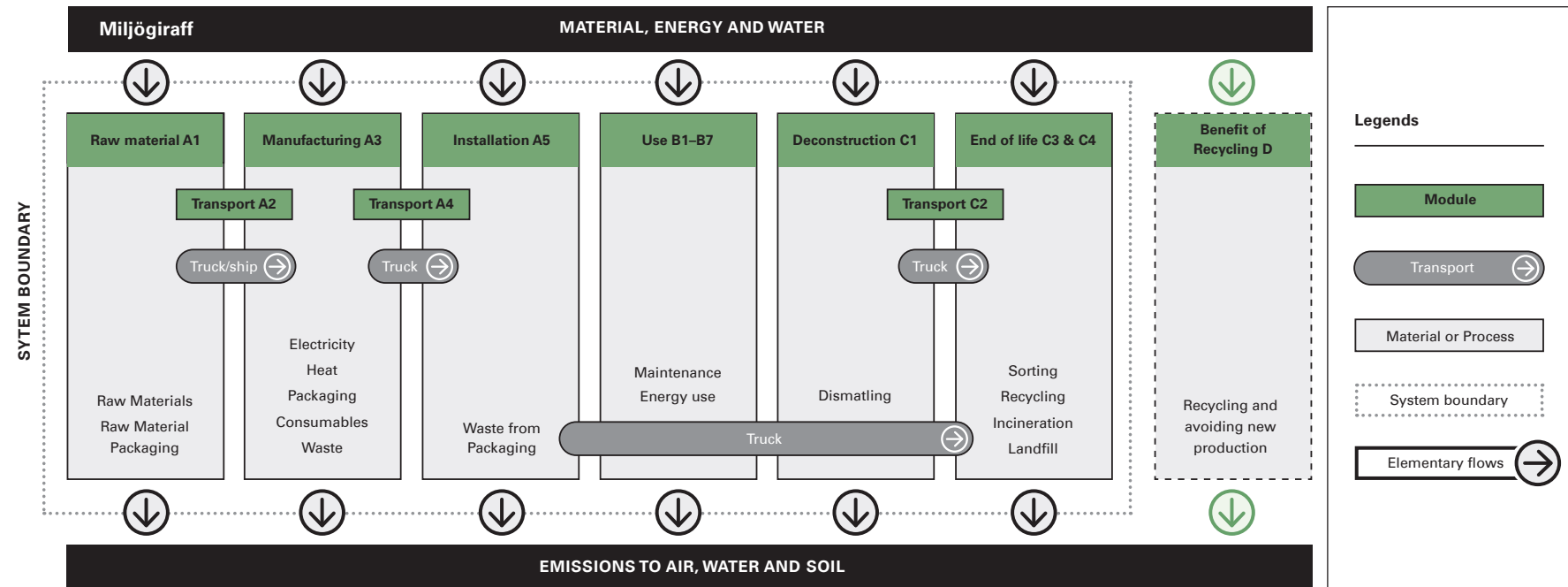
In this study, the infrastructure and capital goods are included in the LCA analysis since it is not possible within reasonable effort to subtract the data on infrastructure/capital goods.

Description of system boundaries: The system boundary for the study is defined as cradle-to-grave. The following type of EPD is developed based on this LCA report:

c) Cradle-to-grave with modules (A + B + C + D)

The modules are defined according to the PCR 2019:14. Construction products. Version 2.0.1, chapter 2.2.2 (EPD International, 2025b)

Process flow diagram:



(A1) There are several materials and components sourced from many different suppliers, some of the main suppliers are located in Sweden, Baltics, and Poland.

(A3) Cibes manufacturing takes place in Gävle, Sweden. The electricity modelled for A3 is made with specific certificates purchased from Gävle energi, whereas electricity for B6 is modelled with a dataset representing a low-voltage european mix. The global warming potential per kWh is presented below.

	Source	Unit	Value
Electricity in A3	Ecoinvent 3.11	Kg CO2-eq./kWh	0,017
Electricity in B6	Ecoinvent 3.11	Kg CO2-eq./kWh	0,34

(A4) The finished products with packaging are loaded onto a truck and transported from Gävle 1600 km to an average customer (in central Europe, approximated as Amsterdam).

(B6) The lift uses 282 kWh of electricity per year. The electricity is modelled to represent an average European user.

(C1-C4) The end-of-life modules are modelled using a European scenario, as most customers are located in this region.

(D) Module D accounts for the potential environmental benefits or burdens resulting from material recycling and energy recovery during incineration.

Data quality summary: Specific data for Cibes manufacturing was gathered in 2025 and represents the production for 2024. Specific data about supplier processing were collected from main Tier-1 suppliers of components and packaging, e.g. energy- and material consumption. The suppliers were selected based on the bill of material (BOM) where the most important suppliers were identified, together providing components that make up 78 wt-% of the total lift (excluding packaging). All data that have been gathered have been checked by Cibes.

Specific data has been collected from suppliers regarding their manufacturing processes, including raw materials, waste, energy consumption, and transport. However, the overall share of specific data becomes relatively lower because the raw materials used in their production are not classified as specific data under PCR 2019:14. When summarising what can be classified as specific data, it is manufacturing processes for main components, transport of raw materials/components to core manufacturing and core manufacturing. These contribute to **19% of the GWP-GHG results in A1-A3**.

Below is the declaration of data sources, reference years, data categories, and share of primary data of the GWP-GHG result A1-A3. All processes contributing to more than 10% of GWP-GHG result A1-A3 are included along with processes where primary data have been collected. Furthermore, manufacturing processes in module A3 (core) is included).

Generic data that have been used in the study is based on ecoinvent 3.11. The DQA of these datasets according to EN 15804, this uses a classification of the data which is divided into a five-level grading, “very good”, “good”, “fair”, “poor”, and “very poor” (see Annex E, table E.1, in EN 15804 for further explanation). The classification is based on geographical, technical, and time representativeness.

See the summary for the DQA according to EN 15804 below:

Geographical – Majority of the dataset are good since the chosen datasets are assumed to be representative for chosen region.

Technical – Where GLO market dataset has been used the representativeness is estimated to be poor since the technology level in these datasets are unknown. For more regionalized datasets the technological representativeness is estimated to be good since these represent current technology used.

Time – The data assessed were still valid in 31/12/2024, which means good represented.

Process	Source type	Source	Reference year	Data category	Contribution to GWP-GHG results for A1-A3 (including raw materials from ecoinvent)	Share of primary data, of GWP-GHG results for A1-A3
Transport of raw materials/ components to core manufacturing	Collected data	EPD owner	2024	Primary data	2%	2%
Core manufacturing	Collected data	EPD owner	2024	Primary data	3%	3%
Component K	Collected data	Supplier	2024	Primary data	21%	1%
Component B	Collected data	Supplier	2024	Primary data	19%	9%
Other components manufacturing	Collected data	Suppliers	2024	Primary data	20%	4%
Total share of primary data, of GWP-GHG results for A1-A3						19%

**Modules declared, geographical scope, share of primary data (in GWP-GHG results)
and data variation (in GWP-GHG results):**

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	GLOBAL	GLOBAL	SE	EU 27	EU 27	EU 27	EU 27	EU 27	EU 27	EU 27	EU 27	EU 27	EU 27				EU 27
Share of primary data	19%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental performance

LCA results of the product – main environmental performance results. Results are presented both per functional unit (1 tkm) and per declared reference service life (25 years) for transparency. The RSL-based results are supplementary information and not for comparison.

Potential environmental impact per functional unit (1 tkm) – mandatory indicators according to EN 15804

Results per 1 tkm vertical transport by the CIBES C1 lift																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,31E+02	9,47E+00	3,12E+00	0,00E+00	1,83E-01	0,00E+00	0,00E+00	0,00E+00	4,41E+01	0,00E+00	9,32E-03	3,83E-01	4,08E+00	1,39E-01	-4,10E+01
GWP-fossil	kg CO ₂ eq.	1,35E+02	9,47E+00	3,30E-01	0,00E+00	1,83E-01	0,00E+00	0,00E+00	0,00E+00	4,38E+01	0,00E+00	9,31E-03	3,83E-01	1,56E+00	7,38E-02	-4,07E+01
GWP-biogenic	kg CO ₂ eq.	-4,58E+00	2,02E-03	2,79E+00	0,00E+00	1,78E-04	0,00E+00	0,00E+00	0,00E+00	1,01E-01	0,00E+00	1,03E-06	8,07E-05	2,52E+00	6,47E-02	-4,96E-02
GWP-luluc	kg CO ₂ eq.	1,94E-01	3,19E-03	3,90E-04	0,00E+00	1,26E-04	0,00E+00	0,00E+00	0,00E+00	1,29E-01	0,00E+00	9,53E-07	1,27E-04	5,88E-05	2,64E-05	-2,57E-01
ODP	kg CFC 11 eq.	2,23E-06	2,07E-07	6,43E-09	0,00E+00	1,14E-08	0,00E+00	0,00E+00	0,00E+00	8,20E-07	0,00E+00	1,38E-10	8,36E-09	1,80E-09	1,40E-09	-3,95E-07
AP	mol H ⁺ eq.	8,20E-01	2,03E-02	1,72E-03	0,00E+00	8,01E-04	0,00E+00	0,00E+00	0,00E+00	2,52E-01	0,00E+00	8,32E-05	1,23E-03	1,10E-03	3,77E-04	-3,27E-01
EP-freshwater	kg P eq.	7,23E-02	6,57E-04	7,05E-05	0,00E+00	3,91E-05	0,00E+00	0,00E+00	0,00E+00	4,21E-02	0,00E+00	3,00E-07	2,61E-05	2,42E-05	3,48E-05	-3,24E-02
EP-marine	kg N eq.	1,51E-01	4,90E-03	2,28E-03	0,00E+00	1,40E-04	0,00E+00	0,00E+00	0,00E+00	4,02E-02	0,00E+00	3,87E-05	4,14E-04	5,36E-04	4,99E-04	-4,14E-02
EP-terrestrial	mol N eq.	1,66E+00	5,29E-02	7,80E-03	0,00E+00	1,46E-03	0,00E+00	0,00E+00	0,00E+00	3,56E-01	0,00E+00	4,24E-04	4,50E-03	5,33E-03	1,58E-03	-4,55E-01
POCP	kg NMVOC eq.	5,27E-01	3,22E-02	2,56E-03	0,00E+00	3,63E-03	0,00E+00	0,00E+00	0,00E+00	1,14E-01	0,00E+00	1,27E-04	1,86E-03	1,48E-03	5,65E-04	-1,53E-01
ADP-minerals & metals*	kg Sb eq.	4,51E-03	3,25E-05	7,77E-07	0,00E+00	1,57E-06	0,00E+00	0,00E+00	0,00E+00	5,83E-04	0,00E+00	3,32E-09	1,29E-06	1,33E-07	1,37E-07	-2,04E-03
ADP-fossil*	MJ	1,73E+03	1,35E+02	4,35E+00	0,00E+00	7,37E+00	0,00E+00	0,00E+00	0,00E+00	1,00E+03	0,00E+00	1,21E-01	5,43E+00	1,52E+00	1,14E+00	-5,44E+02
WDP*	m ³	3,33E+01	5,29E-01	2,36E-03	0,00E+00	4,07E-02	0,00E+00	0,00E+00	0,00E+00	1,06E+01	0,00E+00	2,59E-04	2,11E-02	1,20E-02	1,92E-02	-4,83E+00

Acronyms GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

**Potential environmental impact for the complete product over its Reference Service Life
(25 years, with a total transportation performance of 53.7 tkm) – mandatory indicators according to EN 15804**

Results per Cibes C1 lift for 25 years																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	7,00E+03	5,09E+02	1,80E+02	0,00E+00	9,83E+00	0,00E+00	0,00E+00	0,00E+00	2,37E+03	0,00E+00	5,01E-01	2,06E+01	2,31E+02	7,45E+00	-2,20E+03
GWP-fossil	kg CO2 eq.	7,26E+03	5,09E+02	1,78E+01	0,00E+00	9,82E+00	0,00E+00	0,00E+00	0,00E+00	2,36E+03	0,00E+00	5,01E-01	2,06E+01	8,39E+01	3,97E+00	-2,19E+03
GWP-biogenic	kg CO2 eq.	-2,70E+02	1,09E-01	1,62E+02	0,00E+00	9,57E-03	0,00E+00	0,00E+00	0,00E+00	5,42E+00	0,00E+00	5,56E-05	4,34E-03	1,47E+02	3,48E+00	-2,66E+00
GWP-luluc	kg CO2 eq.	1,04E+01	1,71E-01	2,10E-02	0,00E+00	6,79E-03	0,00E+00	0,00E+00	0,00E+00	6,95E+00	0,00E+00	5,12E-05	6,82E-03	3,16E-03	1,42E-03	-1,38E+01
ODP	kg CFC 11 eq.	1,20E-04	1,11E-05	3,46E-07	0,00E+00	6,11E-07	0,00E+00	0,00E+00	0,00E+00	4,41E-05	0,00E+00	7,44E-09	4,49E-07	9,69E-08	7,52E-08	-2,12E-05
AP	mol H+ eq.	4,41E+01	1,09E+00	9,23E-02	0,00E+00	4,30E-02	0,00E+00	0,00E+00	0,00E+00	1,35E+01	0,00E+00	4,47E-03	6,61E-02	5,93E-02	2,02E-02	-1,76E+01
EP-freshwater	kg P eq.	3,89E+00	3,53E-02	3,79E-03	0,00E+00	2,10E-03	0,00E+00	0,00E+00	0,00E+00	2,26E+00	0,00E+00	1,61E-05	1,41E-03	1,30E-03	1,87E-03	-1,74E+00
EP-marine	kg N eq.	8,10E+00	2,63E-01	1,22E-01	0,00E+00	7,53E-03	0,00E+00	0,00E+00	0,00E+00	2,16E+00	0,00E+00	2,08E-03	2,23E-02	2,88E-02	2,68E-02	-2,23E+00
EP-terrestrial	mol N eq.	8,91E+01	2,84E+00	4,19E-01	0,00E+00	7,85E-02	0,00E+00	0,00E+00	0,00E+00	1,91E+01	0,00E+00	2,28E-02	2,42E-01	2,87E-01	8,48E-02	-2,44E+01
POCP	kg NMVOC eq.	2,83E+01	1,73E+00	1,37E-01	0,00E+00	1,95E-01	0,00E+00	0,00E+00	0,00E+00	6,11E+00	0,00E+00	6,82E-03	1,00E-01	7,98E-02	3,04E-02	-8,25E+00
ADP-minerals & metals*	kg Sb eq.	2,42E-01	1,75E-03	4,17E-05	0,00E+00	8,46E-05	0,00E+00	0,00E+00	0,00E+00	3,13E-02	0,00E+00	1,79E-07	6,94E-05	7,14E-06	7,35E-06	-1,10E-01
ADP-fossil*	MJ	9,31E+04	7,23E+03	2,34E+02	0,00E+00	3,96E+02	0,00E+00	0,00E+00	0,00E+00	5,40E+04	0,00E+00	6,52E+00	2,92E+02	8,18E+01	6,12E+01	-2,92E+04
WDP*	m³	1,79E+03	2,84E+01	1,27E-01	0,00E+00	2,19E+00	0,00E+00	0,00E+00	0,00E+00	5,69E+02	0,00E+00	1,39E-02	1,13E+00	6,46E-01	1,03E+00	-2,60E+02
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption															

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Note: Biogenic carbon in packaging is balanced in A1–A3.

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

Additional mandatory and voluntary impact category indicators

Results per 1 tkm vertical transport by the CIBES C1 lift																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO2 eq.	1,36E+02	9,47E+00	6,05E-01	0,00E+00	1,83E-01	0,00E+00	0,00E+00	0,00E+00	4,41E+01	0,00E+00	9,32E-03	3,83E-01	1,56E+00	1,39E-01	-4,10E+01
PM	disease inc.	9,37E-06	7,09E-07	3,46E-08	0,00E+00	7,42E-09	0,00E+00	0,00E+00	0,00E+00	8,92E-07	0,00E+00	2,38E-09	3,06E-08	2,00E-08	9,46E-09	-3,11E-06
IR	kBq U-235 eq	9,29E+00	1,62E-01	8,29E-03	0,00E+00	1,60E-02	0,00E+00	0,00E+00	0,00E+00	2,79E+01	0,00E+00	5,17E-05	6,48E-03	1,12E-02	1,86E-03	-6,49E+00
ETP – FW*	CTUe	8,79E+02	1,81E+01	9,71E-01	0,00E+00	6,19E-01	0,00E+00	0,00E+00	0,00E+00	1,43E+02	0,00E+00	6,58E-03	7,20E-01	3,20E+00	2,20E+00	-2,71E+02
HTP – C*	CTUh	1,47E-07	1,58E-09	1,27E-10	0,00E+00	4,44E-11	0,00E+00	0,00E+00	0,00E+00	1,21E-08	0,00E+00	9,47E-13	6,50E-11	1,03E-10	3,83E-11	-7,25E-08
HTP – NC*	CTUh	2,82E-06	8,45E-08	8,47E-09	0,00E+00	1,94E-09	0,00E+00	0,00E+00	0,00E+00	6,78E-07	0,00E+00	1,49E-11	3,39E-09	4,62E-09	6,20E-10	-1,74E-06
Land use, SQP*	Pt	1,69E+03	8,08E+01	2,53E+00	0,00E+00	6,52E-01	0,00E+00	0,00E+00	0,00E+00	1,95E+02	0,00E+00	8,05E-03	3,21E+00	1,86E-01	1,87E+00	-2,89E+02
Acronyms		GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index														

Results per Cibes C1 lift for 25 years																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG1	kg CO2 eq.	7,29E+03	5,09E+02	3,25E+01	0,00E+00	9,83E+00	0,00E+00	0,00E+00	0,00E+00	2,37E+03	0,00E+00	5,01E-01	2,06E+01	8,39E+01	7,45E+00	-2,20E+03
PM	disease inc.	5,03E-04	3,81E-05	1,86E-06	0,00E+00	3,99E-07	0,00E+00	0,00E+00	0,00E+00	4,80E-05	0,00E+00	1,28E-07	1,65E-06	1,07E-06	5,08E-07	-1,67E-04
IR ²	kBq U-235 eq	4,99E+02	8,73E+00	4,46E-01	0,00E+00	8,61E-01	0,00E+00	0,00E+00	0,00E+00	1,50E+03	0,00E+00	2,78E-03	3,48E-01	6,03E-01	9,98E-02	-3,49E+02
ETP – FW*	CTUe	4,73E+04	9,70E+02	5,22E+01	0,00E+00	3,33E+01	0,00E+00	0,00E+00	0,00E+00	7,70E+03	0,00E+00	3,53E-01	3,87E+01	1,72E+02	1,18E+02	-1,45E+04
HTP – C*	CTUh	7,91E-06	8,50E-08	6,83E-09	0,00E+00	2,39E-09	0,00E+00	0,00E+00	0,00E+00	6,49E-07	0,00E+00	5,09E-11	3,49E-09	5,56E-09	2,06E-09	-3,90E-06
HTP – NC*	CTUh	1,51E-04	4,54E-06	4,55E-07	0,00E+00	1,04E-07	0,00E+00	0,00E+00	0,00E+00	3,64E-05	0,00E+00	8,00E-10	1,82E-07	2,48E-07	3,33E-08	-9,37E-05
Land use, SQP*	Pt	9,10E+04	4,34E+03	1,36E+02	0,00E+00	3,50E+01	0,00E+00	0,00E+00	0,00E+00	1,05E+04	0,00E+00	4,33E-01	1,73E+02	1,00E+01	1,01E+02	-1,55E+04
Acronyms		GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index														

¹This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.

²This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

*** Disclaimer:** The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

Resource use indicators

Results per 1 tkm vertical transport by the CIBES C1 lift																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERM	MJ	1,78E+02	0,00E+00	-1,45E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,31E+01	0,00E+00	0,00E+00
PERT	MJ	1,78E+02	0,00E+00	-1,45E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,31E+01	0,00E+00	0,00E+00
PENRE	MJ	-2,77E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRM	MJ	2,77E+01	0,00E+00	-8,49E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,68E+01	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	0,00E+00	-8,49E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,68E+01	0,00E+00	0,00E+00
SM	kg	4,03E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	1,05E+00	2,02E-02	2,35E-03	0,00E+00	8,72E-04	0,00E+00	0,00E+00	0,00E+00	3,08E-01	0,00E+00	8,86E-06	8,07E-04	2,76E-03	1,08E-03	-2,30E-01

Acronyms

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

Resource use indicators

Results per Cibes C1 lift for 25 years																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERM	MJ	1,04E+04	0,00E+00	-8,47E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,93E+03	0,00E+00	0,00E+00
PERT	MJ	1,04E+04	0,00E+00	-8,47E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,93E+03	0,00E+00	0,00E+00
PENRE	MJ	-1,62E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRM	MJ	1,62E+03	0,00E+00	-4,96E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,57E+03	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	0,00E+00	-4,96E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,57E+03	0,00E+00	0,00E+00
SM	kg	2,35E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	5,64E+01	1,09E+00	1,26E-01	0,00E+00	4,68E-02	0,00E+00	0,00E+00	0,00E+00	1,66E+01	0,00E+00	4,76E-04	4,34E-02	1,49E-01	5,82E-02	-1,24E+01

Acronyms

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

Waste indicators

Results per 1 tkm vertical transport by the CIBES C1 lift																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-hazardous waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Radioactive waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Results per Cibes C1 lift for 25 years																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-hazardous waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Radioactive waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Output flow indicators

Results per 1 tkm vertical transport by the CIBES C1 lift																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	4,32E-01	0,00E+00	2,57E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,31E-03	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	6,06E-01	0,00E+00	1,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,11E+01	0,00E+00	0,00E+00
Exported energy, thermal	MJ	1,41E+00	0,00E+00	4,40E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,58E+01	0,00E+00	0,00E+00

Results per Cibes C1 lift for 25 years																
Indicator	Unit	A1–A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	2,53E+01	0,00E+00	1,50E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,10E-01	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	3,54E+01	0,00E+00	1,10E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,45E+02	0,00E+00	0,00E+00
Exported energy, thermal	MJ	8,25E+01	0,00E+00	2,57E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,51E+03	0,00E+00	0,00E+00

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Recycling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	3,18E+00	9,33E-03	3,56E-01	2,41E-01	0,00E+00	-4,61E+01
GWP-fossil	kg CO2 eq.	1,70E-01	9,33E-03	3,56E-01	9,07E-02	0,00E+00	-4,58E+01
GWP-biogenic	kg CO2 eq.	3,01E+00	0,00E+00	1,78E-04	1,50E-01	0,00E+00	0,00E+00
GWP-luluc	kg CO2 eq.	4,66E-04	9,53E-07	1,18E-04	5,77E-05	0,00E+00	-3,05E-01
ODP	kg CFC 11 eq.	3,78E-09	1,39E-10	7,77E-09	1,38E-09	0,00E+00	-4,75E-07
AP	mol H+ eq.	7,08E-04	8,32E-05	1,14E-03	7,43E-04	0,00E+00	-3,61E-01
EP-freshwater	kg P eq.	1,37E-05	3,00E-07	2,42E-05	1,79E-05	0,00E+00	-3,41E-02
EP-marine	kg N eq.	3,00E-04	3,87E-05	3,85E-04	3,22E-04	0,00E+00	-4,71E-02
EP-terrestrial	mol N eq.	2,87E-03	4,25E-04	4,19E-03	3,48E-03	0,00E+00	-5,21E-01
POCP	kg NMVOC eq.	1,01E-03	1,27E-04	1,73E-03	1,05E-03	0,00E+00	-1,88E-01
ADP-minerals & metals*	kg Sb eq.	4,93E-07	3,33E-09	1,20E-06	6,26E-08	0,00E+00	-2,27E-03
ADP-fossil*	MJ	2,44E+00	1,21E-01	5,05E+00	1,36E+00	0,00E+00	-6,15E+02
WDP*	m³	1,85E-02	2,59E-04	1,96E-02	5,77E-03	0,00E+00	-5,75E+00

Acronyms

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Incineration)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	7,09E-01	9,33E-03	5,80E-01	3,37E+00	3,60E-01	-9,95E+00
GWP-fossil	kg CO2 eq.	4,00E-01	9,33E-03	5,79E-01	3,22E+00	3,59E-01	-9,91E+00
GWP-biogenic	kg CO2 eq.	3,09E-01	0,00E+00	1,78E-04	1,50E-01	0,00E+00	0,00E+00
GWP-luluc	kg CO2 eq.	5,18E-05	9,53E-07	1,92E-04	1,75E-05	1,74E-04	-4,00E-02
ODP	kg CFC 11 eq.	6,00E-09	1,39E-10	1,26E-08	1,25E-09	7,49E-09	-2,27E-07
AP	mol H ⁺ eq.	2,14E-03	8,32E-05	1,86E-03	9,57E-04	2,01E-03	-5,51E-02
EP-freshwater	kg P eq.	4,71E-05	3,00E-07	3,95E-05	1,84E-05	2,63E-04	-8,47E-03
EP-marine	kg N eq.	1,03E-03	3,87E-05	6,26E-04	5,42E-04	7,69E-04	-1,10E-02
EP-terrestrial	mol N eq.	1,03E-02	4,25E-04	6,80E-03	4,82E-03	8,40E-03	-1,14E-01
POCP	kg NMVOC eq.	3,02E-03	1,27E-04	2,81E-03	1,20E-03	2,89E-03	-3,24E-02
ADP-minerals & metals*	kg Sb eq.	8,79E-07	3,33E-09	1,96E-06	1,69E-07	1,01E-06	-1,02E-05
ADP-fossil*	MJ	3,93E+00	1,21E-01	8,19E+00	6,89E-01	5,88E+00	-2,23E+02
WDP*	m ³	2,76E-02	2,59E-04	3,18E-02	1,51E-02	1,57E-01	-2,05E+00

Acronyms

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Landfilling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	5,56E-01	9,33E-03	3,56E-01	9,07E-02	3,59E-01	-2,85E+00
GWP-fossil	kg CO2 eq.	2,48E-01	9,33E-03	3,56E-01	9,07E-02	2,09E-01	-2,83E+00
GWP-biogenic	kg CO2 eq.	3,09E-01	0,00E+00	1,78E-04	0,00E+00	1,50E-01	0,00E+00
GWP-luluc	kg CO2 eq.	8,19E-05	9,53E-07	1,18E-04	5,77E-05	8,88E-05	-1,64E-02
ODP	kg CFC 11 eq.	5,87E-09	1,39E-10	7,77E-09	1,38E-09	4,79E-09	-6,00E-08
AP	mol H+ eq.	1,26E-03	8,32E-05	1,14E-03	7,43E-04	1,28E-03	-1,54E-02
EP-freshwater	kg P eq.	8,29E-05	3,00E-07	2,42E-05	1,79E-05	4,10E-05	-2,22E-03
EP-marine	kg N eq.	3,28E-03	3,87E-05	3,85E-04	3,22E-04	1,16E-03	-3,04E-03
EP-terrestrial	mol N eq.	5,46E-03	4,25E-04	4,19E-03	3,48E-03	5,46E-03	-3,18E-02
POCP	kg NMVOC eq.	2,14E-03	1,27E-04	1,73E-03	1,05E-03	1,96E-03	-9,80E-03
ADP-minerals & metals*	kg Sb eq.	6,16E-07	3,33E-09	1,20E-06	6,26E-08	2,87E-07	1,61E-06
ADP-fossil*	MJ	4,28E+00	1,21E-01	5,05E+00	1,36E+00	4,12E+00	-6,00E+01
WDP*	m³	-3,43E-02	2,59E-04	1,96E-02	5,77E-03	1,31E-01	-4,86E-01

Acronyms

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per Cibes C1 lift for 25 years (100% Recycling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	1,71E+02	5,01E-01	1,91E+01	1,29E+01	0,00E+00	-2,48E+03
GWP-fossil	kg CO2 eq.	9,14E+00	5,01E-01	1,91E+01	4,87E+00	0,00E+00	-2,46E+03
GWP-biogenic	kg CO2 eq.	1,62E+02	0,00E+00	9,57E-03	8,07E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO2 eq.	2,50E-02	5,12E-05	6,33E-03	3,10E-03	0,00E+00	-1,64E+01
ODP	kg CFC 11 eq.	2,03E-07	7,44E-09	4,17E-07	7,40E-08	0,00E+00	-2,55E-05
AP	mol H+ eq.	3,80E-02	4,47E-03	6,14E-02	3,99E-02	0,00E+00	-1,94E+01
EP-freshwater	kg P eq.	7,36E-04	1,61E-05	1,30E-03	9,62E-04	0,00E+00	-1,83E+00
EP-marine	kg N eq.	1,61E-02	2,08E-03	2,07E-02	1,73E-02	0,00E+00	-2,53E+00
EP-terrestrial	mol N eq.	1,54E-01	2,28E-02	2,25E-01	1,87E-01	0,00E+00	-2,80E+01
POCP	kg NMVOC eq.	5,43E-02	6,82E-03	9,31E-02	5,62E-02	0,00E+00	-1,01E+01
ADP-minerals & metals*	kg Sb eq.	2,65E-05	1,79E-07	6,44E-05	3,36E-06	0,00E+00	-1,22E-01
ADP-fossil*	MJ	1,31E+02	6,52E+00	2,71E+02	7,28E+01	0,00E+00	-3,30E+04
WDP*	m³	9,91E-01	1,39E-02	1,05E+00	3,10E-01	0,00E+00	-3,09E+02

Acronyms

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per Cibes C1 lift for 25 years (100% Incineration)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	3,81E+01	5,01E-01	3,11E+01	1,81E+02	1,93E+01	-5,34E+02
GWP-fossil	kg CO2 eq.	2,15E+01	5,01E-01	3,11E+01	1,73E+02	1,93E+01	-5,32E+02
GWP-biogenic	kg CO2 eq.	1,66E+01	0,00E+00	9,57E-03	8,07E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO2 eq.	2,78E-03	5,12E-05	1,03E-02	9,38E-04	9,35E-03	-2,15E+00
ODP	kg CFC 11 eq.	3,22E-07	7,44E-09	6,78E-07	6,73E-08	4,02E-07	-1,22E-05
AP	mol H+ eq.	1,15E-01	4,47E-03	9,97E-02	5,14E-02	1,08E-01	-2,96E+00
EP-freshwater	kg P eq.	2,53E-03	1,61E-05	2,12E-03	9,87E-04	1,41E-02	-4,55E-01
EP-marine	kg N eq.	5,53E-02	2,08E-03	3,36E-02	2,91E-02	4,13E-02	-5,91E-01
EP-terrestrial	mol N eq.	5,52E-01	2,28E-02	3,65E-01	2,59E-01	4,51E-01	-6,12E+00
POCP	kg NMVOC eq.	1,62E-01	6,82E-03	1,51E-01	6,43E-02	1,55E-01	-1,74E+00
ADP-minerals & metals*	kg Sb eq.	4,72E-05	1,79E-07	1,05E-04	9,08E-06	5,41E-05	-5,49E-04
ADP-fossil*	MJ	2,11E+02	6,52E+00	4,40E+02	3,70E+01	3,16E+02	-1,20E+04
WDP*	m³	1,48E+00	1,39E-02	1,71E+00	8,11E-01	8,42E+00	-1,10E+02

Acronyms

GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

100% Recycling/Incineration/Landfilling Scenario for modules C1-C4 & D
Mandatory impact category indicators according to EN 15804

Results per Cibes C1 lift for 25 years (100% Landfilling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	2,99E+01	5,01E-01	1,91E+01	4,87E+00	1,93E+01	-1,53E+02
GWP-fossil	kg CO2 eq.	1,33E+01	5,01E-01	1,91E+01	4,87E+00	1,12E+01	-1,52E+02
GWP-biogenic	kg CO2 eq.	1,66E+01	0,00E+00	9,57E-03	0,00E+00	8,07E+00	0,00E+00
GWP-luluc	kg CO2 eq.	4,40E-03	5,12E-05	6,33E-03	3,10E-03	4,77E-03	-8,81E-01
ODP	kg CFC 11 eq.	3,15E-07	7,44E-09	4,17E-07	7,40E-08	2,57E-07	-3,22E-06
AP	mol H+ eq.	6,79E-02	4,47E-03	6,14E-02	3,99E-02	6,89E-02	-8,25E-01
EP-freshwater	kg P eq.	4,45E-03	1,61E-05	1,30E-03	9,62E-04	2,20E-03	-1,19E-01
EP-marine	kg N eq.	1,76E-01	2,08E-03	2,07E-02	1,73E-02	6,21E-02	-1,63E-01
EP-terrestrial	mol N eq.	2,93E-01	2,28E-02	2,25E-01	1,87E-01	2,93E-01	-1,71E+00
POCP	kg NMVOC eq.	1,15E-01	6,82E-03	9,31E-02	5,62E-02	1,05E-01	-5,26E-01
ADP-minerals & metals*	kg Sb eq.	3,31E-05	1,79E-07	6,44E-05	3,36E-06	1,54E-05	8,64E-05
ADP-fossil*	MJ	2,30E+02	6,52E+00	2,71E+02	7,28E+01	2,21E+02	-3,22E+03
WDP*	m³	-1,84E+00	1,39E-02	1,05E+00	3,10E-01	7,01E+00	-2,61E+01

Acronyms GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Note: Biogenic carbon in packaging is balanced in A1-A3.)

* **Disclaimer:** The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

Additional mandatory and voluntary impact category indicators

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Recycling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	1,74E-01	9,33E-03	3,56E-01	9,07E-02	0,00E+00	-4,62E+01
PM	disease inc.	1,76E-08	2,38E-09	2,85E-08	1,92E-08	0,00E+00	-3,99E-06
IR ²	kBq U-235 eq	6,52E-03	5,18E-05	6,01E-03	1,16E-02	0,00E+00	-5,14E+00
ETP-FW*	CTUe	3,09E-01	6,57E-03	6,69E-01	8,94E-02	0,00E+00	-3,00E+02
HTTP-C*	CTUh	2,09E-11	9,48E-13	6,03E-11	9,96E-12	0,00E+00	-8,36E-08
HTTP-NC*	CTUh	1,22E-09	1,49E-11	3,15E-09	2,35E-10	0,00E+00	-1,92E-06
Land use, SQP*	Pt	-8,86E-01	8,06E-03	2,98E+00	1,20E-01	0,00E+00	-1,96E+03
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Incineration)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	4,00E-01	9,33E-03	5,79E-01	3,22E+00	3,59E-01	-9,96E+00
PM	disease inc.	3,69E-08	2,38E-09	4,62E-08	6,24E-09	6,63E-08	-4,49E-07
IR ²	kBq U-235 eq	-2,09E-03	5,18E-05	9,78E-03	2,31E-03	6,87E-03	-6,28E+00
ETP-FW*	CTUe	1,51E+00	6,57E-03	1,09E+00	6,80E+00	5,33E+00	-2,27E+01
HTTP-C*	CTUh	2,31E-10	9,48E-13	9,81E-11	2,07E-10	4,19E-10	-3,33E-09
HTTP-NC*	CTUh	1,52E-08	1,49E-11	5,12E-09	9,63E-09	2,87E-09	-8,34E-08
Land use, SQP*	Pt	1,69E+00	8,06E-03	4,84E+00	1,75E-01	6,72E+00	-2,72E+02
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

Additional mandatory and voluntary impact category indicators

Results per 1 tkm vertical transport by the CIBES C1 lift (100% Landfilling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	7,52E-01	9,33E-03	3,56E-01	9,07E-02	3,28E-01	-2,85E+00
PM	disease inc.	3,18E-08	2,38E-09	2,85E-08	1,92E-08	2,89E-08	-1,62E-07
IR ²	kBq U-235 eq	9,46E-03	5,18E-05	6,01E-03	1,16E-02	4,19E-03	-1,57E+00
ETP-FW*	CTUe	4,86E-01	6,57E-03	6,69E-01	8,94E-02	3,60E+00	-6,09E+00
HTTP-C*	CTUh	4,30E-11	9,48E-13	6,03E-11	9,96E-12	3,82E-11	-1,66E-09
HTTP-NC*	CTUh	2,66E-09	1,49E-11	3,15E-09	2,35E-10	1,24E-09	-2,03E-08
Land use, SQP*	Pt	5,83E+00	8,06E-03	2,98E+00	1,20E-01	7,78E+00	-1,36E+02
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

Results per Cibes C1 lift for 25 years (100% Recycling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	9,32E+00	5,01E-01	1,91E+01	4,87E+00	0,00E+00	-2,48E+03
PM	disease inc.	9,44E-07	1,28E-07	1,53E-06	1,03E-06	0,00E+00	-2,14E-04
IR ²	kBq U-235 eq	3,50E-01	2,78E-03	3,23E-01	6,22E-01	0,00E+00	-2,76E+02
ETP-FW*	CTUe	1,66E+01	3,53E-01	3,59E+01	4,80E+00	0,00E+00	-1,61E+04
HTTP-C*	CTUh	1,12E-09	5,09E-11	3,24E-09	5,35E-10	0,00E+00	-4,49E-06
HTTP-NC*	CTUh	6,57E-08	8,00E-10	1,69E-07	1,26E-08	0,00E+00	-1,03E-04
Land use, SQP*	Pt	-4,76E+01	4,33E-01	1,60E+02	6,44E+00	0,00E+00	-1,05E+05
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

Additional mandatory and voluntary impact category indicators

Results per Cibes C1 lift for 25 years (100% Incineration)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	2,15E+01	5,01E-01	3,11E+01	1,73E+02	1,93E+01	-5,35E+02
PM	disease inc.	1,98E-06	1,28E-07	2,48E-06	3,35E-07	3,56E-06	-2,41E-05
IR ²	kBq U-235 eq	-1,12E-01	2,78E-03	5,25E-01	1,24E-01	3,69E-01	-3,37E+02
ETP-FW*	CTUe	8,09E+01	3,53E-01	5,84E+01	3,65E+02	2,86E+02	-1,22E+03
HTTP-C*	CTUh	1,24E-08	5,09E-11	5,27E-09	1,11E-08	2,25E-08	-1,79E-07
HTTP-NC*	CTUh	8,18E-07	8,00E-10	2,75E-07	5,17E-07	1,54E-07	-4,48E-06
Land use, SQP*	Pt	9,06E+01	4,33E-01	2,60E+02	9,40E+00	3,61E+02	-1,46E+04
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

Results per Cibes C1 lift for 25 years (100% Landfilling)							
Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO2 eq	4,04E+01	5,01E-01	1,91E+01	4,87E+00	1,76E+01	-1,53E+02
PM	disease inc.	1,71E-06	1,28E-07	1,53E-06	1,03E-06	1,55E-06	-8,68E-06
IR ²	kBq U-235 eq	5,08E-01	2,78E-03	3,23E-01	6,22E-01	2,25E-01	-8,42E+01
ETP-FW*	CTUe	2,61E+01	3,53E-01	3,59E+01	4,80E+00	1,94E+02	-3,27E+02
HTTP-C*	CTUh	2,31E-09	5,09E-11	3,24E-09	5,35E-10	2,05E-09	-8,90E-08
HTTP-NC*	CTUh	1,43E-07	8,00E-10	1,69E-07	1,26E-08	6,64E-08	-1,09E-06
Land use, SQP*	Pt	3,13E+02	4,33E-01	1,60E+02	6,44E+00	4,18E+02	-7,29E+03
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTTP-C: Human Toxicity Potential – Cancer, HTTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index						

¹ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.

² This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional environmental information

From a life cycle perspective, the environmental impact of the C1 lift can mainly be attributed to the production of materials and components (module A1) as well as electricity consumption in the use phase (module B6).

The single score results are mainly driven by the following impact categories: Resource use, minerals and metals, Climate change, and Resource use, fossils.

It is important to note the sensitivity of the results to the use phase electricity mix. The use-phase electricity was modelled as an average European grid mix. If the lift is used in a country with an electricity mix that largely deviates from the European average, the use phase results could change significantly.

Abbreviations

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CPC	Central product classification
GHG	Greenhouse Gas
PEF	Product Environmental Footprint
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse Gas
GWP	Global Warming Potential (kg CO ₂ eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO ₂ eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO ₂ eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO ₂ eq.)

GWP-total	Total Global Warming Potential (kg CO ₂ eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO ₂ eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H ⁺ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals & metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m ³)

Resource Use Indicators

PERE	Renewable primary energy (excluding as raw materials) (MJ)
PERM	Renewable primary energy used as raw materials (MJ)
PERT	Total renewable primary energy (MJ)
PENRE	Non-renewable primary energy (excluding as raw materials) (MJ)
PENRM	Non-renewable primary energy used as raw materials (MJ)

PENRT	Total non-renewable primary energy (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m³)
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)

Output Flow Indicators

CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)

Lifecycle Stages / Modules

A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential

Other Relevant Terms

SVHC	Substances of Very High Concern
MJ	Megajoule

kg	Kilogram
m³	Cubic Meter
W	Watt
NMVOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO₂ eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO₂ eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared
TP	Transportation Performance
Qav	Average car load
sRSL	Distance travelled by the lift during the service life
m/s	Meter/second
tkm	Tonne kilometer

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Life Cycle Assessment of C1 Lift by Cibes by Emilia Ingemarsdotter,
Marcus Bernhard, Sofia Lindroth, Miljögiraff AB, (2025)

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