

Tierre Group S.p.A.



ENVIRONMENTAL PRODUCT DECLARATION



PRODUCT NAME

Plastic fittings for optical fiber NET.Fit:

FXUC07-LC	EFXPF14
FXPF12-LC	EFXGB1P18-8/10
EFXUC05	EV2GB2P07-0,5/5,5-LC
EFXPF05	EV2UC07-LC
EFXUC14	EV2PF07-LC

SITE

**Xingchai, Tianyuan, Cixi, Zhejiang, P.R.
315325 - China**

In accordance with ISO 14025 and EN 15804:2012+A2:2019

Program Operator	EPDIItaly
Publisher	EPDIItaly
Declaration number	EPDTierre_NET.Fit_2024_rev1.0
Registration Number	EPDITALY1165
Release Date	16/12/2025
Valid until	16/12/2030

GENERAL INFORMATION

EPD OWNER

Company Name	Tierre Group S.p.A. (https://www.tierregroup.com/it/ - info@tierregroup.com)
Registered office	Via dell'industria 18 - 20032 Cormano (MI)
Contact for EPD information	Marialuisa di Sacco, Emanuele Caporali - e-mail: marialuisa.disacco@tierregroup.com emanuele.caporali@tierregroup.com - Tel: 02 663 0881

PROGRAM OPERATOR

EPDItaly	Via Gaetano De Castillia n° 10 - 20124 Milano, Italy
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ABOUT THE EPD

Product's Name	Specific EPD for plastic fittings for optical fiber NET.Fit, including the following product codes: FXUC07-LC, FXPF12-LC, EFXUC05, EFXPF05, EFXUC14, EFXPF14, EFXGB1P18-8/10, EV2GB2P07-0,5/5,5-LC, EV2UC07-LC, EV2PF07-LC.
Sites	Xingchai, Tianyuan, Cixi, Zhejiang, P.R. 315325 - China
Brief description and technical information of the product	The 10 selected NET.Fit plastic fittings for optical fiber microducts are high-performance components designed for reliable and versatile optical fiber installation. This set includes products from the NET.Fit, Evolution NET.Fit, Evolution NET.Fit Gas Block, Evo 2.0 NET.Fit Gas Block and Evo 2.0 NET.Fit lines. Manufactured in polymer or composite materials, these fittings ensure durability, precise connections, and tool-free installation. Their modular design allows flexible use across different installation needs, from compact optical systems to complex distribution networks. The selected products provide a comprehensive solution for optical fiber installations, ensuring quick and secure microducts connections and immediate identification of correct installation.
Product application area	Optical fiber installation systems
CPC Code	CPC 3632 - "Tubes, pipes and hoses, and fittings therefor, of plastics"
EPD generation	EPD generated by means of a validated tool: TIERRE LCA-Tool, version 0.0, 12/12/2025

VERIFICATION INFORMATION

PCR	CORE PCR for CONSTRUCTION PRODUCTS AND SERVICES: ICMQ -001 - Issue date 02/12/2019 - Revision 4 (10/11/2025) - Validity 10/11/2030.
EPDItaly Regulation	Regulations of the EPDItaly Programme Revision 7.1. Issue date 05/09/2025
Project Report LCA	<i>Life Cycle Assessment Report</i> - LCA tool report rev.00
Independent Verification Statement	The PCR review was performed by ICMQ S.p.A. Independent verification of the declaration and data carried out in accordance with ISO 14025:2010. ☐ Internal ☒ External Third-party verification carried out by: ICMQ S.p.A., via Gaetano De Castilia n° 10 - 20124 Milan, Italy. Accredited by Accredia
Statement Comparability	Environmental claims published within the same product category, but from different programs, may not be comparable.
Statement Responsibility	The EPD Owner relieves EPDItaly from any non-compliance with environmental legislation. The holder of the statement will be responsible for the information and supporting evidence. EPDItaly declines all responsibility for the information, data and results provided by the EPD Owner for the life cycle assessment.

1. THE COMPANY



Tierre Group S.p.A, founded in 1998, is an Italian company and a leader in the design and production of fittings for pneumatic automation, the food & beverage sector, and telecommunications. Thanks to a comprehensive product range and a continuous focus on quality and innovation, Tierre Group has quickly established itself as an international reference point.

The company concentrates its manufacturing capacity at the Castegnato (BS) plant, specialized in metal fitting production using state-of-the-art CNC machinery, while the headquarters in Cormano (MI) oversees commercial, logistics, and development activities.

In addition to traditional production, Tierre Group has created NET.Fit, the brand dedicated to FTTx fiber optic network systems. NET.Fit offers innovative and reliable solutions for cable installation using *blown fibres* technology, with products manufactured in collaboration with the Xingchai plant in Tianyuan, Cixi, Zhejiang (China). All fittings undergo rigorous international testing and certification, ensuring high performance and maximum reliability.

Tierre Group maintains high-quality standards throughout its entire supply chain, as demonstrated by ISO 9001:2015 certification for process quality and ISO 14001:2015 for environmental management. The company is committed to combining innovation, sustainability, and reliability, establishing itself as a trusted partner in the global fittings industry.

2. THE PRODUCT

The 10 selected NET.Fit plastic fittings for optical fiber microducts are high-performance components designed for reliable and versatile optical fiber installation. Manufactured from durable polymer and composite materials, these fittings ensure precise connections, durability, and tool-free installation, making them suitable for both compact systems and more complex distribution networks.

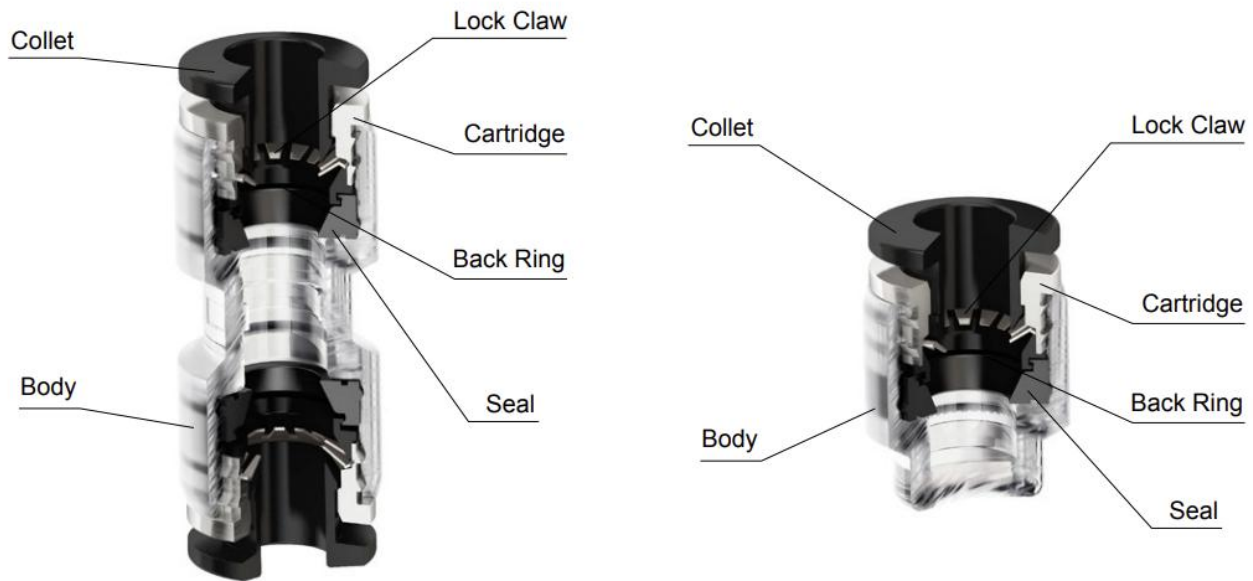
Their modular design allows easy integration in multiple configurations, simplifying installation and ensuring flexibility in any optical fiber application.

The selected products included in this EPD are:

- FXUC07-LC (NET.Fit)
- FXPF12-LC (NET.Fit)
- EFXUC05 (Evolution NET.Fit)
- EFXPF05 (Evolution NET.Fit)
- EFXUC14 (Evolution NET.Fit)
- EFXPF14 (Evolution NET.Fit)
- EFXGB1P18-8/10 (Evolution NET.Fit Gas Block)
- EV2GB2P07-0,5/5,5-LC (Evo 2.0 Net.Fit Gas Block)
- EV2UC07-LC (Evo 2.0 Net.Fit)
- EV2PF07-LC (Evo 2.0 Net.Fit)

This combination of build quality, modularity, and flexible configurations makes the selected NET.Fit plastic fittings an ideal solution for optical fiber installation systems, providing reliable and precise performance even in demanding installation and operational conditions.

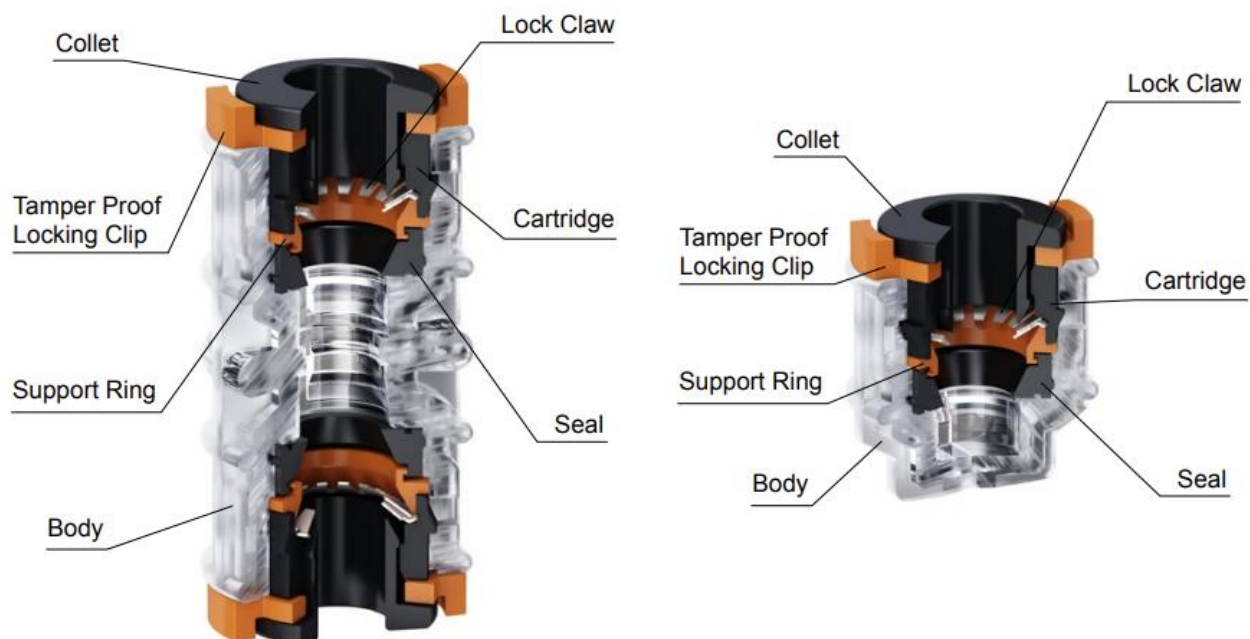
NET.Fit



Technical data:

Feature	Value / Specification
Operating temperature	-20 °C ÷ +50 °C
Working pressure	20 bar
Short-term blowing pressure (10")	25 bar
Burst pressure (all diameters)	>45 bar
Medium	Air
Body	Transparent HP Polymer
Cartridge	Nickel Plated Brass
Collet	Techno Polymer
Seal	NBR
Lock Claw	Stainless Steel
Back Ring	Techno Polymer
Safety Locking Clip	Techno Polymer
Anti Shock Cover	Semi-transparent Techno Polymer
Certifications / Compliance	REACH compliant (EC 1907/2006), RoHS3 (EU 2015/863)
Standards / Tests	EN 50411-2-8, EN 61300-2-1, EN 61300-2-4, EN 61300-2-37, EN 61300-2-5, EN 61300-2-10, EN 60794-1-2 Method E4, EN 61300-2-33, EN 61300-2-22, EN 61300-2-23, EN 61300-2-26, EN 61300-2-34, EN 50411-2-8 Annex C/D/E, EN 60529 IP68, EN 61386-22, EN 61386-24

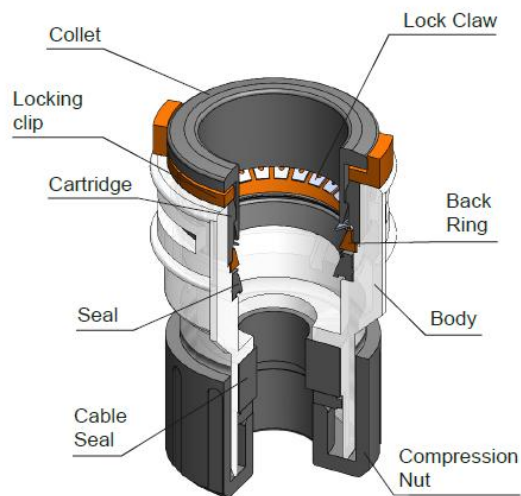
Evolution NET.Fit



Technical data:

Feature	Value / Specification
Operating temperature	-20 °C ÷ +50 °C
Working pressure	15 bar
Short-term blowing pressure (10")	25 bar
Burst pressure	According to EN 50411-2-8
Medium	Air
Body	Transparent HP Polymer
Cartridge	Techno Polymer
Collet	Techno Polymer
Seal	NBR
Lock Claw	Stainless Steel
Support Ring	Techno Polymer
Rubber Cover	Dark Silicon
Tamper-Proof Locking Clip	Techno Polymer
Certifications / Compliance	REACH compliant (EC 1907/2006), RoHS3 (EU 2015/863)
Standards / Tests	EN 50411-2-8, EN 61300-2-1, EN 61300-2-4, EN 61300-2-37, EN 61300-2-5, EN 61300-2-10, EN 60794-1-2 Method E4, EN 61300-2-33, EN 61300-2-22, EN 61300-2-23, EN 61300-2-26, EN 61300-2-34, EN 50411-2-8 Annex C/D/E, EN 60529 IP68, EN 61386-22, EN 61386-24

Evolution NET.Fit Gas Block



Technical data:

Feature	Value / Specification
Operating temperature	-20 °C ÷ +50 °C
Working pressure	20 bar
Short-term blowing pressure (10")	25 bar
Burst pressure (all diameters)	>45 bar
Medium	Air
Body	Transparent HP Polymer
Cartridge	Techno Polymer
Collet	Techno Polymer
Seal	NBR
Lock Claw	Stainless Steel
Cable Seal	Silicone
Compression Nut	Techno Polymer
Back Ring	Techno Polymer
Tamper-Proof Locking Clip	Techno Polymer
Certifications / Compliance	REACH compliant (EC 1907/2006), RoHS3 (EU 2015/863)
Standards / Tests	EN 50411-2-8, EN 61300-2-1, EN 61300-2-4, EN 61300-2-37, EN 61300-2-5, EN 61300-2-10, EN 60794-1-2 Method E4, EN 61300-2-33, EN 61300-2-22, EN 61300-2-23, EN 61300-2-26, EN 61300-2-34, EN 50411-2-8 Annex C/D/E, EN 60529 IP68, EN 61386-22

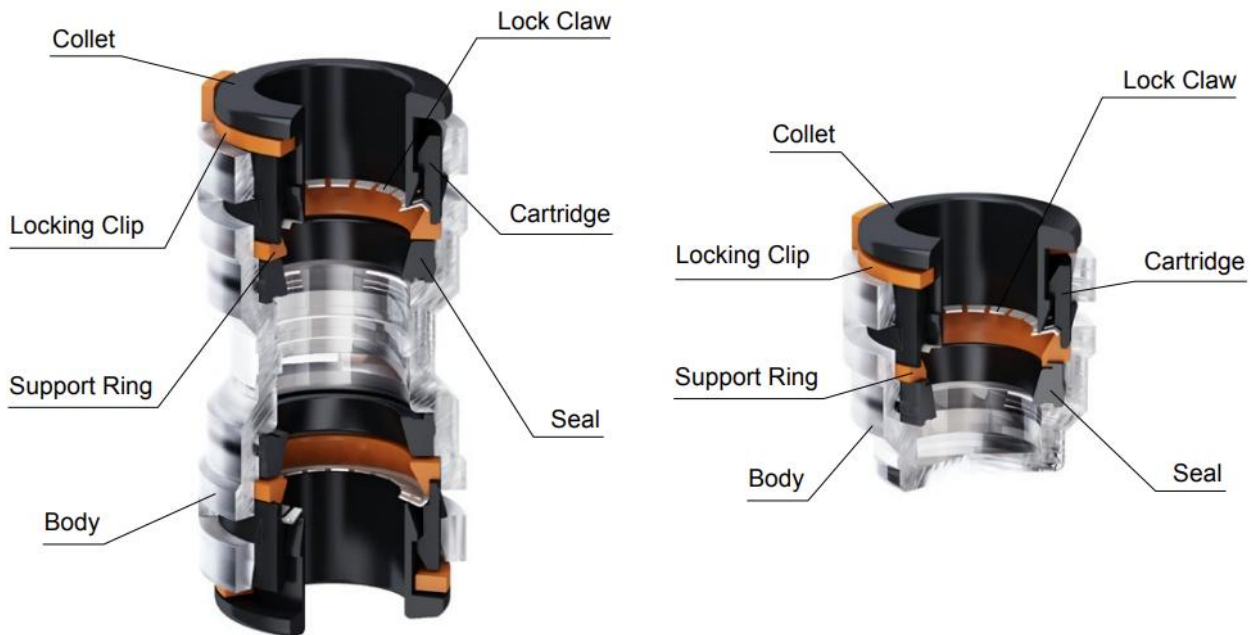
Evo2.0 NET.Fit Gas Block



Technical data:

Feature	Value / Specification
Operating temperature	-20 °C ÷ +50 °C
Working pressure	20 bar
Short-term blowing pressure (10")	25 bar
Burst pressure (all diameters)	>45 bar
Medium	Air
Body	Transparent HP Polymer
Cartridge	Techno Polymer
Collet	Techno Polymer
Seal	NBR
Lock Claw	Stainless Steel
Cable Seal	Silicone
Compression Nut	Techno Polymer
Back Ring	Techno Polymer
Safety Locking Clip	Techno Polymer
Certifications / Compliance	REACH compliant (EC 1907/2006), RoHS3 (EU 2015/863)
Standards / Tests	EN 50411-2-8, EN 61300-2-1, EN 61300-2-4, EN 61300-2-37, EN 61300-2-5, EN 61300-2-10, EN 60794-1-2 Method E4, EN 61300-2-33, EN 61300-2-22, EN 61300-2-23, EN 61300-2-26, EN 61300-2-34, EN 50411-2-8 Annex C/D/E, EN 60529 IP68, EN 61386-22

Evo 2.0 NET.Fit



Technical data:

Feature	Value / Specification
Operating temperature	-20 °C ÷ +50 °C
Working pressure	15 bar
Short-term blowing pressure (10")	25 bar
Burst pressure (all diameters)	According to EN 50411-2-8
Medium	Air
Body	Transparent HP Polymer
Cartridge	Techno Polymer
Collet	Techno Polymer
Seal	NBR
Lock Claw	Stainless Steel
Support Ring	Techno Polymer
Locking Clip	Techno Polymer
Certifications / Compliance	REACH compliant (EC 1907/2006), RoHS3 (EU 2015/863)
Standards / Tests	EN 50411-2-8, EN 61300-2-1, EN 61300-2-4, EN 61300-2-37, EN 61300-2-5, EN 61300-2-10, EN 60794-1-2 Method E4, EN 61300-2-33, EN 61300-2-22, EN 61300-2-23, EN 61300-2-26, EN 61300-2-34, EN 50411-2-8 Annex C/D/E

2.1. COMPOSITION

The compositions of the 10 products in the NET.Fit range are presented below, detailing the materials used for each plastic fiber optic connector.

• FXUC07-LC (NET.Fit)

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,009260	64,22%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,003240	22,47%	0,00	0,00	0,00
TOTAL	0,012500	86,69%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000170	1,18%
Labels	0,000040	0,28%
Cardboard boxes	0,000640	4,44%
Wooden pallet	0,001060	7,35%
Packing belt (PP)	0,000010	0,07%
TOTAL	0,001920	13,31%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00077

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

• FXPF12-LC (NET.Fit)

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,009080	56,82%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,004290	26,85%	0,00	0,00	0,00
TOTAL	0,013370	83,67%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	1,49%
Labels	0,000050	0,32%
Cardboard boxes	0,000872	5,46%
Wooden pallet	0,001437	8,99%
Packing belt (PP)	0,000012	0,08%
TOTAL	0,002610	16,33%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

- EFXUC05 (Evolution NET.Fit)

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,000080	1,00%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,005350	66,54%	0,00	0,00	0,00
TOTAL	0,005430	67,54%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	2,96%
Labels	0,000050	0,63%
Cardboard boxes	0,000872	10,85%
Wooden pallet	0,001437	17,87%
Packing belt (PP)	0,000012	0,15%
TOTAL	0,002610	32,46%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

- **EFXPF05 (Evolution NET.Fit)**

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,000040	0,75%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,002710	50,56%	0,00	0,00	0,00
TOTAL	0,002750	51,31%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	4,44%
Labels	0,000050	0,94%
Cardboard boxes	0,000872	16,27%
Wooden pallet	0,001437	26,81%
Packing belt (PP)	0,000012	0,23%
TOTAL	0,002610	48,69%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

- **EFXUC14 (Evolution NET.Fit)**

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,000360	1,86%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,016360	84,64%	0,00	0,00	0,00
TOTAL	0,01672	86,50%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	1,23%
Labels	0,000050	0,26%
Cardboard boxes	0,000872	4,51%
Wooden pallet	0,001437	7,43%
Packing belt (PP)	0,000012	0,06%
TOTAL	0,002610	13,50%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

• **EFXPF14 (Evolution NET.Fit)**

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,00018	1,63%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,00826	74,75%	0,00	0,00	0,00
TOTAL	0,00844	76,38%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	2,15%
Labels	0,000050	0,46%
Cardboard boxes	0,000872	7,89%
Wooden pallet	0,001437	13,00%
Packing belt (PP)	0,000012	0,11%
TOTAL	0,002610	23,62%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

- **EFXGB1P18-8/10 (Evolution NET.Fit Gas Block)**

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,000310	1,02%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,027410	90,37%	0,00	0,00	0,00
TOTAL	0,027720	91,40%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	0,78%
Labels	0,000050	0,17%
Cardboard boxes	0,000872	2,88%
Wooden pallet	0,001437	4,74%
Packing belt (PP)	0,000012	0,04%
TOTAL	0,000238	0,78%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00104	0,00383

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

- **EV2GB2P07-0,5/5,5-LC (Evo 2.0 NET.Fit Gas Block)**

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,000100	0,70%	0,00	0,00	0,00
Metal-Non ferrous	0,000000	0,00%	0,00	0,00	0,00
Plastic materials	0,011490	80,92%	0,00	0,00	0,00
TOTAL	0,011590	81,62%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	1,68%
Labels	0,000050	0,35%
Cardboard boxes	0,000872	6,14%
Wooden pallet	0,001437	10,12%
Packing belt (PP)	0,000012	0,09%
TOTAL	0,002610	18,38%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00104	0,00383

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

• EV2UC07-LC (Evo 2.0 NET.Fit)

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,0001	1,56%	0,00	0,00	0,00
Metal-Non ferrous	0	0,00%	0,00	0,00	0,00
Plastic materials	0,00371	57,79%	0,00	0,00	0,00
TOTAL	0,00381	59,35%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	3,71%
Labels	0,000050	0,79%
Cardboard boxes	0,000872	13,58%
Wooden pallet	0,001437	22,38%
Packing belt (PP)	0,000012	0,19%
TOTAL	0,0026097	40,65%

Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

- EV2PF07-LC (Evo 2.0 NET.Fit)

Product content	Mass, kg	Mass-% (versus total including packaging)	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Metal-ferrous	0,00005	1,08%	0,00	0,00	0,00
Metal-Non ferrous	0	0,00%	0,00	0,00	0,00
Plastic materials	0,00196	42,43%	0,00	0,00	0,00
TOTAL	0,00201	43,51%	0,00	0,00	0,00

Packaging materials	Mass kg	Mass-% (versus total including packaging)
Plastic bags (LDPE)	0,000238	5,15%
Labels	0,000050	1,09%
Cardboard boxes	0,000872	18,88%
Wooden pallet	0,001437	31,11%
Packing belt (PP)	0,000012	0,27%
TOTAL	0,002610	56,49%

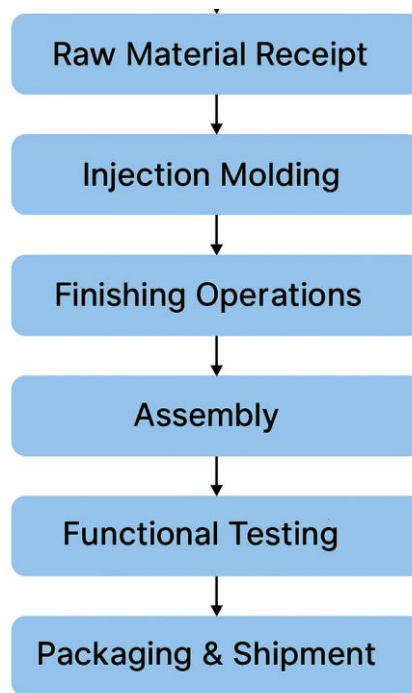
Biogenic material in the product, kg C/product or declared unit	Biogenic material in the packaging, kg C/product or declared unit
0,00	0,00104

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

2.2. DESCRIPTION OF THE PRODUCTION PROCESS

The production process at the Chinese plant involves the production of various lines of NET.Fit fittings, made of polymer or composite materials. The main phases can be described as follows:

1. Receipt of raw materials: polymer granules and composite materials are stored for production.
2. Injection molding: plastic components are produced in-house using injection molding processes, while other vulcanized rubber or sheet-based elements are produced using dedicated processes.
3. Any finishing processes: molded parts are subjected to quality controls and, if necessary, secondary finishing treatments.
4. Assembly: plastic components are assembled together with other functional elements, resulting in complete fittings.
5. Functional testing: verification tests are performed to ensure product technical and performance compliance.
6. Packaging and shipping: finished products are packaged and sent to the Milan warehouse for distribution.



2.3. REFERENCE SERVICE LIFE (RSL)

The Reference Service Life (RSL) is not applicable in this case, as products made of brass and plastic, due to their durability and corrosion resistance, do not have a defined service life. Their longevity strongly depends on the specific application and operating conditions, making the indication of an RSL not meaningful for this category of materials.

3. SCOPE AND TYPE OF EPD

This is a specific product EPD, compliant with ISO 14025 and EN 15804:2012+A2:2019, developed within the EPDItaly program, for 10 products of the plastic fiber optic connectors range. The study is based on an LCA methodology with "cradle to gate with options" boundaries (modules A1-A3, C1-C4, D) and additional modules (A4 and A5), in accordance with ISO 14040 and ISO 14044. The geographical scope of the data is global, as the products are primarily manufactured in China and distributed across Europe. The reference year is 2025. Results were generated using SimaPro 10.2.0 modeling software with the Ecoinvent 3.11 database Cut-off, U. The method used for data analysis is compliant with EF 3.1.

Representativeness	Scope
Spatial	World
Year	2024

3.1. FUNCTIONAL UNIT

The declared unit is 1 fitting (1 single piece).

Product name	Declared product mass (kg, excl. packaging)
FXUC07-LC (NET.Fit)	0,01250
FXPF12-LC (NET.Fit)	0,01337
EFXUC05 (Evolution NET.Fit)	0,00543
EFXPF05 (Evolution NET.Fit)	0,00275
EFXUC14 (Evolution NET.Fit)	0,01672
EFXPF14 (Evolution NET.Fit)	0,00844
EFXGB1P18-8/10 (Evolution NET.Fit Gas Block)	0,02772
EV2GB2P07-0,5/5,5-LC (Evo 2.0 NET.Fit Gas Block)	0,01159
EV2UC07-LC (Evo 2.0 NET.Fit)	0,00381
EV2PF07-LC (Evo 2.0 NET.Fit)	0,00201

PRINCIPLE OF MODULARITY AND ENVIRONMENTAL RESPONSIBILITY (PPP)

In the LCA study, the principle of modularity was adopted, which allows the product life cycle to be broken down into different phases, assigning specific environmental impacts to each of them. This approach facilitates a clear attribution of environmental responsibilities at every stage of the production process, ensuring greater transparency and traceability of data.

In addition, the PPP (Polluter Pays Principle) has been complied with, according to which the entity causing an environmental impact is also the one responsible for the related mitigation or repair costs. This principle ensures that environmental costs are not passed on to the community, but are correctly attributed to those who generated them, promoting greater responsibility and incentivizing the adoption of more sustainable practices throughout the supply chain.

3.2. SYSTEM BOUNDARIES

In this LCA study, the system boundaries have been defined according to the PCR for construction products. The analysis covers the entire life cycle of the metal fittings, broken down into the life cycle stages and information modules as specified by the standard:

- **Product stage (A1-A3, "cradle to gate"):** Includes the supply of raw materials (A1), their transport to the production site in Xingchai, Tianyuan, Cixi, Zhejiang, P.R. 315325 - China (A2), and the manufacturing processes at the plant (A3). Energy, water, and auxiliary consumption, as well as emissions to air, water, and soil, and waste management at the production site are included. For electricity modelling, the process *"Electricity, medium voltage {CN-ECGC} | market for electricity, medium voltage | Cut-off, U"* from the Ecoinvent 3.11 database was used (China, East Grid).
- **Construction process stage (A4-A5):** Covers the distribution of the products (A4) and the disposal of packaging during the installation phase (A5).
- **Use stage (B1-B7):** Not relevant for this type of product, as it does not involve significant energy or water consumption during use.
- **End-of-life stage (C1-C4):** Includes deconstruction and demolition (C1), end-of-life transport (C2), waste treatment (C3), and disposal (C4).
- **Module D - Benefits and loads beyond the system boundary:** Accounts for potential benefits from reuse, recovery, and recycling of materials, or from energy recovery, including avoided processes resulting from these practices.

The system boundaries define which processes, activities, and flows of materials and energy are included in the analysis and which are excluded. For this LCA study, modules A1-A3, A4-A5, C1-C4, and D are included, while the use stage B1-B7 is excluded.

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
		Raw material supply	Transport	Production	Transport from the gate to the site	Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/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
Module declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X

3.2.1. ALLOCATION RULES

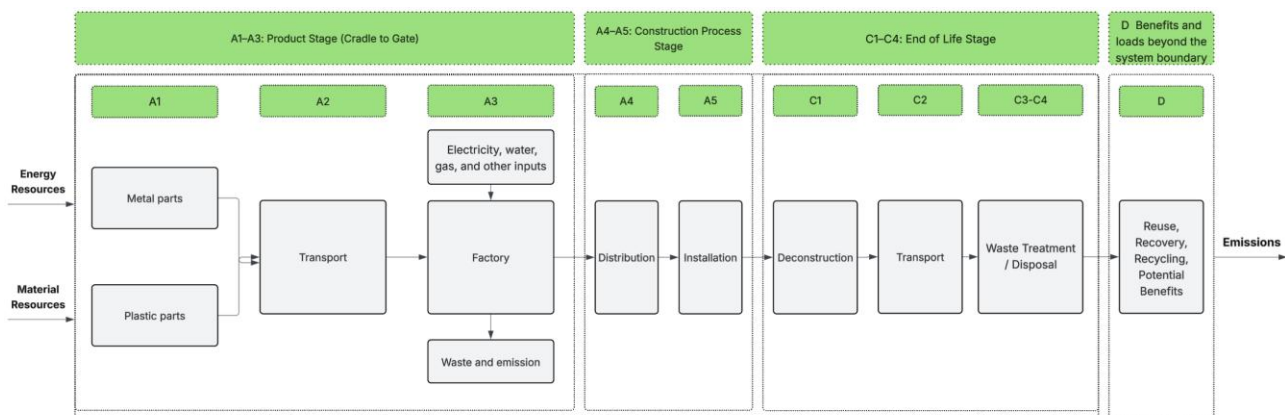
The allocation of inputs and outputs in the production phase was based on the annual quantity (pieces) of products, considering the standardized activities and the uniformity of the production process.

3.3. DATA QUALITY

This EPD covers products manufactured by Tierre Group S.p.A. at its production site in China. The plant provided complete primary data for the reporting year 2024. The production process involves the extrusion of plastic materials for the production of some components and the overall assembly of the product. The life cycle inventory is based on data sets representative of the processes with the greatest contribution to environmental impacts, particularly phase A1 (approximately 60%) and phase A2 (approximately 30%). The underlying data were drawn from the Ecoinvent 3.11 database to ensure consistency, transparency, and methodological robustness. Upstream and downstream processes, such as raw material transport and end-of-life management, were modeled using representative European scenarios. The data quality assessment was conducted in accordance with EN 15804:2012+A2:2019, Annex E (E.2). The quality of the relevant data used for this EPD, in terms of temporal, geographical, and technological representativeness, is rated as mostly "Good."

4. LIFE CYCLE INVENTORY ANALYSIS (LCIA)

The Life Cycle Inventory (LCI) lists and quantifies all inflows and outflows at all declared life cycle stages of the product within the system boundary considered in relation to the scope of the study.



4.1. Product Stage A1-A3 (Cradle to Gate)

The A1 - Supply of raw materials and packaging was modelled based on the bill of materials (BOM) and the information provided directly by Tierre Group S.p.A. All materials have been included, covering both raw materials and packaging materials used in production as well as for the finished product.

The A2 - Transport of raw materials and packaging was modelled based on the geographical origin of suppliers, as specified by Tierre Group S.p.A., and considers different transport modes (road, maritime and rail) for both domestic and imported components.

The A3 - Assembly was modelled based on the internal production process, including electricity and water consumption, as well as the use of auxiliary materials (e.g., lubricants and greases). Packaging waste and other production-related waste are also considered, with their treatment modelled using reference databases. Within A3, the transport related to the supply of auxiliary materials and waste management is also included, based on the information provided by Tierre Group S.p.A.

The electricity used in the manufacturing process (module A3) is modelled using a regional production mix from medium-voltage electricity, including the production of transmission lines as well as direct emissions

and grid losses. The dataset applied is '*Electricity, medium voltage {CN-ECGC} | market for electricity, medium voltage | Cut-off, U'*', with a global warming potential (GWP_{total}) of 0,7589 kg CO₂ eq per kWh

4.2. Construction process Stage (A4-A5)

The **A4 - Distribution** was modelled based on the transport of the finished product from the production plant in Xingchai, Tianyuan, Cixi, Zhejiang, P.R. China to the distribution warehouse (Cormano (IT)) indicated by Tierre Group S.p.A., using routes and percentages representative of the company's logistics flows. Road, maritime, and rail transport are included.

The **A5 - Installation** includes the disposal of the product packaging at the time of commissioning, modelled according to the EUROSTAT scenario. Transport of the packaging to the treatment facilities was also considered. In the absence of specific data, a precautionary transport distance of 100 km was applied.

4.3. End of life Stage (C1-C4)

C1 - Deconstruction / Dismantling No contributions are considered, as component dismantling is manual and does not generate significant impacts.

C2 - Transport This module includes the transport of the product to the treatment facility. Based on the product's net weight without packaging, a precautionary distance of 100 km has been assumed.

C3-C4 - Waste Treatment / Disposal The data used consider the material composition of the products and the percentages of recovery, recycling, and disposal according to **EUROSTAT** (Eurostat. (2024). *Treatment of waste-by-waste category, hazardoussness and waste management operations* [env_wastrt__custom_13931644]. Last update: 30/09/2024).

5. RESULTS

In this section, the results of the study are presented, divided by different impact parameters and by the phases of the study that constituted the LCA.

Environmental impacts were calculated using the EN 15804 + A2 (adapted), Cumulative Energy Demand (LHV), and Selected LCI results (additional) methodologies, as indicated in the SimaPro Methods library.

5.1. ENVIRONMENTAL IMPACTS

5.1.1. FXUC07-LC (NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	2,4E-01	1,1E-02	1,7E-03	0,0E+00	2,5E-04	3,9E-03	1,4E-05	-5,0E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	3,5E-01	1,1E-02	3,1E-04	0,0E+00	2,5E-04	3,6E-03	1,4E-05	-5,0E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,2E-01	2,0E-05	1,1E-01	0,0E+00	8,0E-08	3,3E-04	1,5E-08	-3,1E-04
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	4,9E-04	1,0E-05	1,4E-07	0,0E+00	1,1E-07	1,9E-06	3,8E-10	-8,6E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	5,7E-09	1,2E-10	2,7E-12	0,0E+00	3,2E-12	2,3E-11	4,9E-14	-4,8E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	5,7E-03	1,0E-04	8,4E-07	0,0E+00	8,6E-07	6,9E-06	1,1E-08	-2,0E-03
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	2,8E-05	2,5E-07	4,9E-09	0,0E+00	3,1E-09	6,8E-08	1,3E-11	-9,4E-06
Eutrophication potential - marine	EP - marine	kg N eq.	5,7E-04	3,9E-05	2,7E-07	0,0E+00	2,7E-07	1,8E-06	1,6E-08	-1,2E-04
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	6,9E-03	4,3E-04	2,9E-06	0,0E+00	3,0E-06	1,7E-05	4,9E-08	-1,7E-03
Photochemical ozone creation potential	POCP	kg NMVOC eq.	2,4E-03	1,2E-04	9,6E-07	0,0E+00	1,2E-06	5,5E-06	2,1E-08	-4,8E-04
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	6,4E-05	2,8E-08	9,7E-10	0,0E+00	8,3E-10	1,4E-08	3,2E-12	-3,0E-05
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	6,2E+00	1,4E-01	2,2E-03	0,0E+00	3,5E-03	2,0E-02	3,8E-05	-6,8E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,8E-01	1,1E-03	3,6E-05	0,0E+00	1,6E-05	3,2E-04	-7,6E-07	-4,0E-02

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Particulate matter emissions</i>	PM	Disease incidence	2,7E-08	1,6E-09	1,5E-11	0,0E+00	1,9E-11	6,1E-11	2,6E-13	-5,5E-09
<i>Ionizing radiation, human health</i>	IRP ¹	kBq U235 eq.	9,1E-03	1,5E-04	8,1E-06	0,0E+00	1,1E-06	1,2E-04	2,8E-08	-1,9E-03
<i>Eco-toxicity - freshwater</i>	ETP-fw ²	CTUe	8,3E+00	3,0E-02	1,3E-03	0,0E+00	6,4E-04	1,1E-02	4,3E-05	-3,4E+00
<i>Human toxicity, cancer effect</i>	HTP-c ²	CTUh	7,2E-10	2,7E-12	9,7E-14	0,0E+00	4,2E-14	8,0E-13	5,8E-16	-2,3E-10
<i>Human toxicity, non-cancer effects</i>	HTP-nc ²	CTUh	4,6E-08	7,1E-11	4,1E-12	0,0E+00	2,2E-12	2,7E-11	8,5E-14	-2,1E-08
<i>Land use related impacts/Soil quality</i>	SQP ²	dimensionless	1,7E+01	8,8E-02	8,7E-04	0,0E+00	2,1E-03	1,5E-02	9,1E-05	-6,7E-01

Indicators describing resource use	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-2,1E+01	6,5E-03	2,5E-04	0,0E+00	4,7E-05	3,7E-03	1,1E-06	-1,1E-01
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	2,3E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,2E+00	6,5E-03	2,5E-04	0,0E+00	4,7E-05	3,7E-03	1,1E-06	-1,1E-01
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	4,5E+00	1,4E-01	2,2E-03	0,0E+00	3,5E-03	2,0E-02	3,8E-05	-6,6E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	1,7E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-2,6E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	6,2E+00	1,4E-01	2,2E-03	0,0E+00	3,5E-03	2,0E-02	3,8E-05	-6,8E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	4,6E-03	3,7E-05	1,4E-06	0,0E+00	4,8E-07	1,4E-05	-7,0E-07	-1,0E-03

Environmental information describing waste categories	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	7,9E-04	3,3E-06	9,7E-06	0,0E+00	9,5E-08	1,1E-04	3,2E-09	-1,6E-04
<i>Non-hazardous waste disposed</i>	NHWD	kg	4,5E-02	1,6E-03	8,5E-05	0,0E+00	1,6E-04	7,7E-04	1,7E-04	-6,4E-03
<i>Radioactive waste disposed</i>	RWD	kg	5,9E-06	1,0E-07	6,5E-09	0,0E+00	6,9E-10	9,5E-08	1,6E-11	-1,2E-06

Environmental information describing output flows

	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	2,8E-03	0,0E+00	1,3E-03	0,0E+00	0,0E+00	1,2E-02	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	1,0E-03	0,0E+00	6,7E-04	0,0E+00	0,0E+00	6,7E-04	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.2. FXPF12-LC (NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	2,5E-01	1,2E-02	2,2E-03	0,0E+00	2,7E-04	5,0E-03	1,9E-05	-5,6E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	3,7E-01	1,2E-02	4,2E-04	0,0E+00	2,7E-04	4,7E-03	1,9E-05	-5,5E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,2E-01	2,2E-05	1,1E-01	0,0E+00	8,6E-08	3,6E-04	2,0E-08	-3,2E-04
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	4,9E-04	1,1E-05	2,0E-07	0,0E+00	1,2E-07	2,5E-06	5,0E-10	-8,8E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	5,3E-09	1,3E-10	3,7E-12	0,0E+00	3,4E-12	2,9E-11	6,4E-14	-5,8E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	5,7E-03	1,1E-04	1,1E-06	0,0E+00	9,2E-07	8,6E-06	1,5E-08	-2,0E-03
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	2,8E-05	2,7E-07	6,7E-09	0,0E+00	3,4E-09	8,7E-08	1,7E-11	-9,3E-06
Eutrophication potential - marine	EP - marine	kg N eq.	5,9E-04	4,3E-05	3,7E-07	0,0E+00	2,9E-07	2,2E-06	2,1E-08	-1,2E-04
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	7,2E-03	4,7E-04	4,0E-06	0,0E+00	3,2E-06	2,1E-05	6,5E-08	-1,7E-03
Photochemical ozone creation potential	POCP	kg NMVOC eq.	2,4E-03	1,4E-04	1,3E-06	0,0E+00	1,3E-06	6,8E-06	2,8E-08	-4,9E-04
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	6,3E-05	3,1E-08	1,3E-09	0,0E+00	8,9E-10	1,7E-08	4,2E-12	-2,9E-05
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	6,0E+00	1,5E-01	3,1E-03	0,0E+00	3,7E-03	2,6E-02	5,0E-05	-7,7E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,8E-01	1,2E-03	4,9E-05	0,0E+00	1,7E-05	4,2E-04	-1,0E-06	-4,0E-02
Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	2,9E-08	1,7E-09	2,1E-11	0,0E+00	2,1E-11	7,3E-11	3,4E-13	-5,6E-09
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	8,7E-03	1,7E-04	1,1E-05	0,0E+00	1,2E-06	1,5E-04	3,7E-08	-2,0E-03
Eco-toxicity - freshwater	ETP-fw ²	CTUe	8,1E+00	3,4E-02	1,7E-03	0,0E+00	6,9E-04	1,4E-02	5,7E-05	-3,3E+00
Human toxicity, cancer effect	HTP-c ²	CTUh	7,3E-10	2,9E-12	1,3E-13	0,0E+00	4,5E-14	1,0E-12	7,6E-16	-2,3E-10
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	4,5E-08	7,9E-11	5,6E-12	0,0E+00	2,3E-12	3,4E-11	1,1E-13	-2,0E-08
Land use related impacts/Soil quality	SQP ²	dimensionless	1,7E+01	9,6E-02	1,2E-03	0,0E+00	2,2E-03	1,7E-02	1,2E-04	-6,6E-01

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-2,1E+01	7,2E-03	3,4E-04	0,0E+00	5,0E-05	4,8E-03	1,4E-06	-1,1E-01
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	2,3E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,2E+00	7,2E-03	3,4E-04	0,0E+00	5,0E-05	4,8E-03	1,4E-06	-1,1E-01
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	4,6E+00	1,5E-01	3,1E-03	0,0E+00	3,7E-03	2,6E-02	5,0E-05	-7,3E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	1,4E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-3,7E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	6,0E+00	1,5E-01	3,1E-03	0,0E+00	3,7E-03	2,6E-02	5,0E-05	-7,7E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	4,5E-03	4,0E-05	1,9E-06	0,0E+00	5,2E-07	1,8E-05	-9,3E-07	-1,0E-03

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	9,1E-04	3,6E-06	1,3E-05	0,0E+00	1,0E-07	1,1E-04	4,2E-09	-1,5E-04
<i>Non-hazardous waste disposed</i>	NHWD	kg	5,1E-02	1,8E-03	1,2E-04	0,0E+00	1,7E-04	9,3E-04	2,2E-04	-6,4E-03
<i>Radioactive waste disposed</i>	RWD	kg	5,7E-06	1,1E-07	8,9E-09	0,0E+00	7,4E-10	1,2E-07	2,1E-11	-1,2E-06

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	2,7E-03	0,0E+00	1,8E-03	0,0E+00	0,0E+00	1,2E-02	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	1,4E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	8,8E-04	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.3. EFXUC05 (Evolution NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	1,4E-01	6,0E-03	2,2E-03	0,0E+00	1,1E-04	5,6E-03	2,4E-05	-2,6E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	3,1E-01	6,0E-03	4,2E-04	0,0E+00	1,1E-04	5,4E-03	2,4E-05	-2,6E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,7E-01	1,1E-05	1,7E-01	0,0E+00	3,5E-08	2,0E-04	2,5E-08	-3,3E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	3,6E-04	5,3E-06	2,0E-07	0,0E+00	4,9E-08	2,9E-06	5,8E-10	-2,3E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	6,7E-09	6,2E-11	3,7E-12	0,0E+00	1,4E-12	3,1E-11	7,8E-14	-7,4E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	1,3E-03	5,3E-05	1,1E-06	0,0E+00	3,7E-07	8,9E-06	1,8E-08	-9,8E-05
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	8,5E-06	1,3E-07	6,7E-09	0,0E+00	1,4E-09	9,8E-08	2,1E-11	-7,3E-07
Eutrophication potential - marine	EP - marine	kg N eq.	3,1E-04	2,1E-05	3,7E-07	0,0E+00	1,2E-07	1,9E-06	2,6E-08	-1,8E-05
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	3,4E-03	2,3E-04	4,0E-06	0,0E+00	1,3E-06	2,1E-05	7,9E-08	-2,0E-04
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1,6E-03	6,5E-05	1,3E-06	0,0E+00	5,1E-07	6,8E-06	3,4E-08	-8,9E-05
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	1,3E-06	1,5E-08	1,3E-09	0,0E+00	3,6E-10	1,6E-08	5,2E-12	-1,5E-07
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	6,3E+00	7,5E-02	3,1E-03	0,0E+00	1,5E-03	2,9E-02	6,0E-05	-4,8E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,2E-01	5,8E-04	4,9E-05	0,0E+00	7,1E-06	4,9E-04	-1,4E-06	-5,5E-03

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	1,8E-08	8,3E-10	2,1E-11	0,0E+00	8,5E-12	6,5E-11	4,1E-13	-1,1E-09
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	6,2E-03	8,0E-05	1,1E-05	0,0E+00	4,8E-07	1,8E-04	4,6E-08	-5,1E-04
Eco-toxicity - freshwater	ETP-fw ²	CTUe	2,0E+00	1,6E-02	1,7E-03	0,0E+00	2,8E-04	1,4E-02	7,0E-05	-4,0E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	3,0E-10	1,4E-12	1,3E-13	0,0E+00	1,8E-14	1,0E-12	9,4E-16	-1,8E-11
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	2,2E-09	3,8E-11	5,6E-12	0,0E+00	9,4E-13	3,5E-11	1,4E-13	-1,8E-10
Land use related impacts/Soil quality	SQP ²	dimensionless	2,3E+01	4,7E-02	1,2E-03	0,0E+00	8,9E-04	1,0E-02	1,5E-04	-5,5E-02

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	3,5E-03	3,4E-04	0,0E+00	2,0E-05	5,6E-03	1,8E-06	-2,0E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,8E+00	3,5E-03	3,4E-04	0,0E+00	2,0E-05	5,6E-03	1,8E-06	-2,0E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	4,2E+00	7,5E-02	3,1E-03	0,0E+00	1,5E-03	2,9E-02	6,0E-05	-4,5E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,1E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-2,6E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	6,3E+00	7,5E-02	3,1E-03	0,0E+00	1,5E-03	2,9E-02	6,0E-05	-4,8E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	3,0E-03	2,0E-05	1,9E-06	0,0E+00	2,1E-07	2,2E-05	-1,2E-06	-1,6E-04

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	6,3E-04	1,7E-06	1,3E-05	0,0E+00	4,1E-08	3,6E-05	5,2E-09	-1,2E-05
<i>Non-hazardous waste disposed</i>	NHWD	kg	4,5E-02	8,7E-04	1,2E-04	0,0E+00	7,0E-05	8,6E-04	2,6E-04	-1,3E-03
<i>Radioactive waste disposed</i>	RWD	kg	4,3E-06	5,4E-08	8,9E-09	0,0E+00	3,0E-10	1,5E-07	2,6E-11	-3,6E-07

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	2,4E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	4,1E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	1,7E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	1,1E-03	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.4. EFXPF05 (Evolution NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	9,4E-02	3,8E-03	2,2E-03	0,0E+00	5,6E-05	2,8E-03	1,2E-05	-1,3E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	2,7E-01	3,8E-03	4,2E-04	0,0E+00	5,6E-05	2,7E-03	1,2E-05	-1,3E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,7E-01	6,9E-06	1,7E-01	0,0E+00	1,8E-08	9,9E-05	1,3E-08	-1,4E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	3,3E-04	3,4E-06	2,0E-07	0,0E+00	2,5E-08	1,5E-06	2,9E-10	-1,1E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	5,8E-09	4,0E-11	3,7E-12	0,0E+00	7,1E-13	1,6E-11	4,0E-14	-3,6E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	1,2E-03	3,4E-05	1,1E-06	0,0E+00	1,9E-07	4,5E-06	9,0E-09	-4,9E-05
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	7,7E-06	8,4E-08	6,7E-09	0,0E+00	6,9E-10	4,9E-08	1,0E-11	-3,6E-07
Eutrophication potential - marine	EP - marine	kg N eq.	2,6E-04	1,3E-05	3,7E-07	0,0E+00	5,9E-08	9,7E-07	1,3E-08	-9,3E-06
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	2,9E-03	1,4E-04	4,0E-06	0,0E+00	6,5E-07	1,1E-05	4,0E-08	-1,0E-04
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1,4E-03	4,2E-05	1,3E-06	0,0E+00	2,6E-07	3,4E-06	1,7E-08	-4,4E-05
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	1,1E-06	9,6E-09	1,3E-09	0,0E+00	1,8E-10	8,3E-09	2,6E-12	-7,4E-08
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	5,6E+00	4,8E-02	3,1E-03	0,0E+00	7,7E-04	1,4E-02	3,0E-05	-2,4E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,2E-01	3,7E-04	4,9E-05	0,0E+00	3,6E-06	2,5E-04	-6,9E-07	-2,8E-03
Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	1,6E-08	5,3E-10	2,1E-11	0,0E+00	4,3E-12	3,3E-11	2,1E-13	-5,2E-10
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	5,8E-03	5,1E-05	1,1E-05	0,0E+00	2,4E-07	9,2E-05	2,3E-08	-2,6E-04
Eco-toxicity - freshwater	ETP-fw ²	CTUe	1,6E+00	1,0E-02	1,7E-03	0,0E+00	1,4E-04	7,1E-03	3,6E-05	-1,9E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	2,8E-10	9,1E-13	1,3E-13	0,0E+00	9,3E-15	5,2E-13	4,7E-16	-8,4E-12
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	1,8E-09	2,4E-11	5,6E-12	0,0E+00	4,8E-13	1,8E-11	7,1E-14	-8,8E-11
Land use related impacts/Soil quality	SQP ²	dimensionless	2,3E+01	3,0E-02	1,2E-03	0,0E+00	4,5E-04	5,2E-03	7,4E-05	-2,7E-02

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	2,2E-03	3,4E-04	0,0E+00	1,0E-05	2,8E-03	9,0E-07	-1,0E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,8E+00	2,2E-03	3,4E-04	0,0E+00	1,0E-05	2,8E-03	9,0E-07	-1,0E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	3,6E+00	4,8E-02	3,1E-03	0,0E+00	7,7E-04	1,4E-02	3,0E-05	-2,2E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,1E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-1,7E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	5,6E+00	4,8E-02	3,1E-03	0,0E+00	7,7E-04	1,4E-02	3,0E-05	-2,4E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	2,8E-03	1,2E-05	1,9E-06	0,0E+00	1,1E-07	1,1E-05	-5,9E-07	-8,2E-05

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	4,3E-04	1,1E-06	1,3E-05	0,0E+00	2,1E-08	1,8E-05	2,6E-09	-5,9E-06
<i>Non-hazardous waste disposed</i>	NHWD	kg	3,1E-02	5,6E-04	1,2E-04	0,0E+00	3,6E-05	4,4E-04	1,3E-04	-6,3E-04
<i>Radioactive waste disposed</i>	RWD	kg	4,0E-06	3,4E-08	8,9E-09	0,0E+00	1,5E-10	7,4E-08	1,3E-11	-1,8E-07

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	1,2E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	2,1E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	8,8E-04	0,0E+00	9,1E-04	0,0E+00	0,0E+00	5,4E-04	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

EFXUC14 (Evolution NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Global warming potential - total</i>	GWP-Total	kg CO2 eq.	3,1E-01	1,5E-02	2,2E-03	0,0E+00	3,4E-04	1,7E-02	7,2E-05	-7,8E-02
<i>Global warming potential - fossil fuels</i>	GWP-Fossil	kg CO2 eq.	4,8E-01	1,5E-02	4,2E-04	0,0E+00	3,4E-04	1,7E-02	7,2E-05	-7,8E-02
<i>Global warming potential - biogenic</i>	GWP-Biogenic	kg CO2 eq.	-1,7E-01	2,7E-05	1,7E-01	0,0E+00	1,1E-07	6,0E-04	7,7E-08	-1,0E-04
<i>Global warming potential - land use and land use change</i>	GWP-Luluc	kg CO2 eq.	4,8E-04	1,3E-05	2,0E-07	0,0E+00	1,5E-07	8,8E-06	1,8E-09	-7,2E-05
<i>Depletion potential of the stratospheric ozone layer</i>	ODP	kg CFC-11 eq.	1,0E-08	1,6E-10	3,7E-12	0,0E+00	4,3E-12	9,5E-11	2,4E-13	-2,2E-09
<i>Acidification potential, accumulated exceedance</i>	AP	mol H+ eq.	2,1E-03	1,3E-04	1,1E-06	0,0E+00	1,2E-06	2,7E-05	5,4E-08	-2,9E-04
<i>Eutrophication potential - freshwater</i>	EP - freshwater	kg P eq.	1,2E-05	3,3E-07	6,7E-09	0,0E+00	4,2E-09	3,0E-07	6,3E-11	-2,2E-06
<i>Eutrophication potential - marine</i>	EP - marine	kg N eq.	4,8E-04	5,2E-05	3,7E-07	0,0E+00	3,6E-07	5,9E-06	8,1E-08	-5,6E-05
<i>Eutrophication potential - terrestrial</i>	EP-terrestrial	mol N eq.	5,3E-03	5,7E-04	4,0E-06	0,0E+00	4,0E-06	6,4E-05	2,4E-07	-6,1E-04
<i>Photochemical ozone creation potential</i>	POCP	kg NMVOC eq.	2,3E-03	1,6E-04	1,3E-06	0,0E+00	1,6E-06	2,1E-05	1,0E-07	-2,7E-04
<i>Abiotic depletion potential - non-fossil resources</i>	ADPE ²	kg Sb eq.	2,1E-06	3,8E-08	1,3E-09	0,0E+00	1,1E-09	5,0E-08	1,6E-11	-4,2E-07
<i>Abiotic depletion potential - fossil resources</i>	ADPF ²	MJ, net calorific value	9,0E+00	1,9E-01	3,1E-03	0,0E+00	4,7E-03	8,7E-02	1,8E-04	-1,4E+00
<i>Water (user) deprivation potential</i>	WDP ²	m3 world eq. deprived	1,5E-01	1,5E-03	4,9E-05	0,0E+00	2,2E-05	1,5E-03	-4,1E-06	-1,6E-02

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Particulate matter emissions</i>	PM	Disease incidence	2,8E-08	2,1E-09	2,1E-11	0,0E+00	2,6E-11	2,0E-10	1,3E-12	-3,1E-09
<i>Ionizing radiation, human health</i>	IRP ¹	kBq U235 eq.	8,2E-03	2,0E-04	1,1E-05	0,0E+00	1,5E-06	5,6E-04	1,4E-07	-1,6E-03
<i>Eco-toxicity - freshwater</i>	ETP-fw ²	CTUe	3,4E+00	4,1E-02	1,7E-03	0,0E+00	8,6E-04	4,3E-02	2,2E-04	-1,1E+00
<i>Human toxicity, cancer effect</i>	HTP-c ²	CTUh	3,7E-10	3,6E-12	1,3E-13	0,0E+00	5,7E-14	3,1E-12	2,9E-15	-4,8E-11
<i>Human toxicity, non-cancer effects</i>	HTP-nc ²	CTUh	3,5E-09	9,6E-11	5,6E-12	0,0E+00	2,9E-12	1,1E-10	4,3E-13	-5,2E-10
<i>Land use related impacts/Soil quality</i>	SQP ²	dimensionless	2,4E+01	1,2E-01	1,2E-03	0,0E+00	2,7E-03	3,2E-02	4,5E-04	-1,6E-01

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	8,7E-03	3,4E-04	0,0E+00	6,3E-05	1,7E-02	5,4E-06	-6,3E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,9E+00	8,7E-03	3,4E-04	0,0E+00	6,3E-05	1,7E-02	5,4E-06	-6,3E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	6,5E+00	1,9E-01	3,1E-03	0,0E+00	4,7E-03	8,7E-02	1,8E-04	-1,3E+00
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,5E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-1,2E-01
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	9,0E+00	1,9E-01	3,1E-03	0,0E+00	4,7E-03	8,7E-02	1,8E-04	-1,4E+00
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	3,7E-03	4,9E-05	1,9E-06	0,0E+00	6,5E-07	6,6E-05	-3,5E-06	-4,9E-04

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	1,5E-03	4,4E-06	1,3E-05	0,0E+00	1,3E-07	1,1E-04	1,6E-08	-3,5E-05
<i>Non-hazardous waste disposed</i>	NHWD	kg	9,7E-02	2,2E-03	1,2E-04	0,0E+00	2,2E-04	2,6E-03	7,9E-04	-3,7E-03
<i>Radioactive waste disposed</i>	RWD	kg	5,6E-06	1,3E-07	8,9E-09	0,0E+00	9,2E-10	4,5E-07	7,8E-11	-1,1E-06

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	1,1E-04	0,0E+00	1,8E-03	0,0E+00	0,0E+00	1,3E-02	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	5,0E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	3,3E-03	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.5. EFXPF14 (Evolution NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	1,8E-01	8,5E-03	2,2E-03	0,0E+00	1,7E-04	8,7E-03	3,6E-05	-4,0E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	3,5E-01	8,4E-03	4,2E-04	0,0E+00	1,7E-04	8,4E-03	3,6E-05	-3,9E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,7E-01	1,5E-05	1,7E-01	0,0E+00	5,4E-08	3,0E-04	3,9E-08	-5,0E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	3,9E-04	7,5E-06	2,0E-07	0,0E+00	7,6E-08	4,4E-06	9,0E-10	-3,6E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	7,6E-09	8,7E-11	3,7E-12	0,0E+00	2,2E-12	4,8E-11	1,2E-13	-1,1E-09
Acidification potential, accumulated exceedance	AP	mol H+ eq.	1,5E-03	7,5E-05	1,1E-06	0,0E+00	5,8E-07	1,4E-05	2,7E-08	-1,5E-04
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	9,5E-06	1,9E-07	6,7E-09	0,0E+00	2,1E-09	1,5E-07	3,2E-11	-1,1E-06
Eutrophication potential - marine	EP - marine	kg N eq.	3,5E-04	2,9E-05	3,7E-07	0,0E+00	1,8E-07	3,0E-06	4,1E-08	-2,8E-05
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	3,9E-03	3,2E-04	4,0E-06	0,0E+00	2,0E-06	3,3E-05	1,2E-07	-3,1E-04
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1,8E-03	9,2E-05	1,3E-06	0,0E+00	7,9E-07	1,0E-05	5,2E-08	-1,3E-04
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	1,5E-06	2,1E-08	1,3E-09	0,0E+00	5,6E-10	2,5E-08	8,0E-12	-2,2E-07
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	7,0E+00	1,1E-01	3,1E-03	0,0E+00	2,4E-03	4,4E-02	9,3E-05	-7,3E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,3E-01	8,1E-04	4,9E-05	0,0E+00	1,1E-05	7,5E-04	-2,1E-06	-8,2E-03
Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	2,1E-08	1,2E-09	2,1E-11	0,0E+00	1,3E-11	1,0E-10	6,4E-13	-1,6E-09
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	6,8E-03	1,1E-04	1,1E-05	0,0E+00	7,4E-07	2,8E-04	7,1E-08	-8,2E-04
Eco-toxicity - freshwater	ETP-fw ²	CTUe	2,3E+00	2,3E-02	1,7E-03	0,0E+00	4,3E-04	2,2E-02	1,1E-04	-5,4E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	3,2E-10	2,0E-12	1,3E-13	0,0E+00	2,9E-14	1,6E-12	1,4E-15	-2,5E-11
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	2,5E-09	5,3E-11	5,6E-12	0,0E+00	1,5E-12	5,4E-11	2,2E-13	-2,6E-10
Land use related impacts/Soil quality	SQP ²	dimensionless	2,3E+01	6,6E-02	1,2E-03	0,0E+00	1,4E-03	1,6E-02	2,3E-04	-8,2E-02

Indicators describing resource use	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	4,9E-03	3,4E-04	0,0E+00	3,2E-05	8,6E-03	2,7E-06	-3,1E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,9E+00	4,9E-03	3,4E-04	0,0E+00	3,2E-05	8,6E-03	2,7E-06	-3,1E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	4,8E+00	1,1E-01	3,1E-03	0,0E+00	2,4E-03	4,4E-02	9,3E-05	-6,7E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,2E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-5,8E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	7,0E+00	1,1E-01	3,1E-03	0,0E+00	2,4E-03	4,4E-02	9,3E-05	-7,3E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	3,2E-03	2,7E-05	1,9E-06	0,0E+00	3,3E-07	3,3E-05	-1,8E-06	-2,5E-04

Environmental information describing waste categories	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	8,5E-04	2,4E-06	1,3E-05	0,0E+00	6,4E-08	5,6E-05	8,0E-09	-1,8E-05
<i>Non-hazardous waste disposed</i>	NHWD	kg	5,8E-02	1,2E-03	1,2E-04	0,0E+00	1,1E-04	1,3E-03	4,0E-04	-1,9E-03
<i>Radioactive waste disposed</i>	RWD	kg	4,6E-06	7,5E-08	8,9E-09	0,0E+00	4,7E-10	2,3E-07	4,0E-11	-5,7E-07

Environmental information describing output flows	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	5,4E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	6,4E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	2,5E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	1,7E-03	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.6. EFXGB1P18-8/10 (Evolution NET.Fit Gas Block)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	4,7E-01	2,4E-02	2,2E-03	0,0E+00	5,6E-04	2,9E-02	1,2E-04	-1,3E-01
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	7,2E-01	2,4E-02	4,2E-04	0,0E+00	5,6E-04	2,8E-02	1,2E-04	-1,3E-01
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-2,5E-01	4,3E-05	2,5E-01	0,0E+00	1,8E-07	1,0E-03	1,3E-07	-1,8E-04
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	7,2E-04	2,1E-05	2,0E-07	0,0E+00	2,5E-07	1,5E-05	3,0E-09	-1,3E-04
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	1,5E-08	2,5E-10	3,7E-12	0,0E+00	7,1E-12	1,6E-10	4,0E-13	-3,5E-09
Acidification potential, accumulated exceedance	AP	mol H+ eq.	3,0E-03	2,1E-04	1,1E-06	0,0E+00	1,9E-06	4,6E-05	9,1E-08	-4,8E-04
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	1,8E-05	5,3E-07	6,7E-09	0,0E+00	7,0E-09	5,0E-07	1,1E-10	-3,6E-06
Eutrophication potential - marine	EP - marine	kg N eq.	7,2E-04	8,2E-05	3,7E-07	0,0E+00	6,0E-07	9,8E-06	1,4E-07	-9,9E-05
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	7,8E-03	9,0E-04	4,0E-06	0,0E+00	6,6E-06	1,1E-04	4,0E-07	-1,0E-03
Photochemical ozone creation potential	POCP	kg NMVOC eq.	3,4E-03	2,6E-04	1,3E-06	0,0E+00	2,6E-06	3,5E-05	1,7E-07	-4,3E-04
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	2,9E-06	6,0E-08	1,3E-09	0,0E+00	1,8E-09	8,4E-08	2,6E-11	-5,8E-07
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	1,4E+01	3,0E-01	3,1E-03	0,0E+00	7,8E-03	1,5E-01	3,1E-04	-2,4E+00
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	2,2E-01	2,3E-03	4,9E-05	0,0E+00	3,6E-05	2,5E-03	-6,9E-06	-2,6E-02
Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	4,1E-08	3,3E-09	2,1E-11	0,0E+00	4,3E-11	3,3E-10	2,1E-12	-4,7E-09
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	1,2E-02	3,2E-04	1,1E-05	0,0E+00	2,4E-06	9,3E-04	2,4E-07	-2,9E-03
Eco-toxicity - freshwater	ETP-fw ²	CTUe	4,4E+00	6,5E-02	1,7E-03	0,0E+00	1,4E-03	7,2E-02	3,6E-04	-1,3E+00
Human toxicity, cancer effect	HTP-c ²	CTUh	5,3E-10	5,7E-12	1,3E-13	0,0E+00	9,4E-14	5,2E-12	4,8E-15	-6,1E-11
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	5,1E-09	1,5E-10	5,6E-12	0,0E+00	4,8E-12	1,8E-10	7,2E-13	-7,8E-10
Land use related impacts/Soil quality	SQP ²	dimensionless	3,5E+01	1,9E-01	1,2E-03	0,0E+00	4,6E-03	5,3E-02	7,5E-04	-2,6E-01

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-4,7E+01	1,4E-02	3,4E-04	0,0E+00	1,0E-04	2,8E-02	9,1E-06	-1,1E-01
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	5,1E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	4,3E+00	1,4E-02	3,4E-04	0,0E+00	1,0E-04	2,8E-02	9,1E-06	-1,1E-01
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	9,8E+00	3,0E-01	3,1E-03	0,0E+00	7,8E-03	1,5E-01	3,1E-04	-2,1E+00
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	3,8E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-3,1E-01
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	1,4E+01	3,0E-01	3,1E-03	0,0E+00	7,8E-03	1,5E-01	3,1E-04	-2,4E+00
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	5,4E-03	7,8E-05	1,9E-06	0,0E+00	1,1E-06	1,1E-04	-5,9E-06	-8,0E-04

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	2,4E-03	7,0E-06	1,3E-05	0,0E+00	2,1E-07	1,8E-04	2,7E-08	-5,6E-05
<i>Non-hazardous waste disposed</i>	NHWD	kg	1,5E-01	3,5E-03	1,2E-04	0,0E+00	3,6E-04	4,4E-03	1,3E-03	-5,5E-03
<i>Radioactive waste disposed</i>	RWD	kg	8,3E-06	2,1E-07	8,9E-09	0,0E+00	1,5E-09	7,5E-07	1,3E-10	-2,1E-06

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	9,3E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	2,1E-02	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	8,3E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	5,5E-03	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.7. EV2GB2P07-0,55,5-LC (Evo 2.0 NET.Fit Gas Block)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	2,4E-01	1,1E-02	2,2E-03	0,0E+00	2,3E-04	1,2E-02	5,1E-05	-5,4E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	5,2E-01	1,1E-02	4,2E-04	0,0E+00	2,3E-04	1,2E-02	5,1E-05	-5,4E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-2,8E-01	2,0E-05	2,8E-01	0,0E+00	7,4E-08	4,2E-04	5,4E-08	-4,6E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	5,9E-04	9,8E-06	2,0E-07	0,0E+00	1,0E-07	6,2E-06	1,2E-09	-4,7E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	1,1E-08	1,1E-10	3,7E-12	0,0E+00	3,0E-12	6,7E-11	1,7E-13	-1,5E-09
Acidification potential, accumulated exceedance	AP	mol H+ eq.	2,2E-03	9,7E-05	1,1E-06	0,0E+00	8,0E-07	1,9E-05	3,8E-08	-2,1E-04
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	1,4E-05	2,4E-07	6,7E-09	0,0E+00	2,9E-09	2,1E-07	4,4E-11	-1,5E-06
Eutrophication potential - marine	EP - marine	kg N eq.	5,2E-04	3,8E-05	3,7E-07	0,0E+00	2,5E-07	4,1E-06	5,7E-08	-4,0E-05
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	5,7E-03	4,1E-04	4,0E-06	0,0E+00	2,8E-06	4,5E-05	1,7E-07	-4,2E-04
Photochemical ozone creation potential	POCP	kg NMVOC eq.	2,7E-03	1,2E-04	1,3E-06	0,0E+00	1,1E-06	1,5E-05	7,3E-08	-1,9E-04
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	2,2E-06	2,7E-08	1,3E-09	0,0E+00	7,7E-10	3,5E-08	1,1E-11	-3,1E-07
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	1,1E+01	1,4E-01	3,1E-03	0,0E+00	3,2E-03	6,1E-02	1,3E-04	-1,0E+00
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	2,0E-01	1,1E-03	4,9E-05	0,0E+00	1,5E-05	1,0E-03	-2,9E-06	-1,2E-02

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	3,0E-08	1,5E-09	2,1E-11	0,0E+00	1,8E-11	1,4E-10	8,9E-13	-2,2E-09
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	1,0E-02	1,5E-04	1,1E-05	0,0E+00	1,0E-06	3,9E-04	9,9E-08	-1,1E-03
Eco-toxicity - freshwater	ETP-fw ²	CTUe	3,5E+00	3,0E-02	1,7E-03	0,0E+00	6,0E-04	3,0E-02	1,5E-04	-7,9E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	5,1E-10	2,6E-12	1,3E-13	0,0E+00	3,9E-14	2,2E-12	2,0E-15	-3,5E-11
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	3,7E-09	6,9E-11	5,6E-12	0,0E+00	2,0E-12	7,5E-11	3,0E-13	-3,7E-10
Land use related impacts/Soil quality	SQP ²	dimensionless	3,8E+01	8,5E-02	1,2E-03	0,0E+00	1,9E-03	2,2E-02	3,1E-04	-1,2E-01

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-5,3E+01	6,3E-03	3,4E-04	0,0E+00	4,3E-05	1,2E-02	3,8E-06	-4,2E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	5,8E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	4,6E+00	6,3E-03	3,4E-04	0,0E+00	4,3E-05	1,2E-02	3,8E-06	-4,2E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	7,0E+00	1,4E-01	3,1E-03	0,0E+00	3,2E-03	6,1E-02	1,3E-04	-9,2E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	3,6E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-7,7E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	1,1E+01	1,4E-01	3,1E-03	0,0E+00	3,2E-03	6,1E-02	1,3E-04	-1,0E+00
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	4,9E-03	3,6E-05	1,9E-06	0,0E+00	4,5E-07	4,7E-05	-2,5E-06	-3,5E-04

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	1,2E-03	3,2E-06	1,3E-05	0,0E+00	8,8E-08	7,7E-05	1,1E-08	-2,5E-05
<i>Non-hazardous waste disposed</i>	NHWD	kg	8,1E-02	1,6E-03	1,2E-04	0,0E+00	1,5E-04	1,9E-03	5,5E-04	-2,6E-03
<i>Radioactive waste disposed</i>	RWD	kg	6,8E-06	9,8E-08	8,9E-09	0,0E+00	6,4E-10	3,2E-07	5,5E-11	-7,6E-07

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	3,0E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	8,7E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	3,5E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	2,3E-03	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.8. EV2UC07-LC (Evo 2.0 NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	1,1E-01	4,7E-03	2,2E-03	0,0E+00	7,7E-05	3,9E-03	1,6E-05	-1,8E-02
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	2,8E-01	4,7E-03	4,2E-04	0,0E+00	7,7E-05	3,8E-03	1,6E-05	-1,8E-02
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,7E-01	8,4E-06	1,7E-01	0,0E+00	2,4E-08	1,4E-04	1,7E-08	-2,5E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	3,5E-04	4,2E-06	2,0E-07	0,0E+00	3,5E-08	2,0E-06	4,0E-10	-1,7E-05
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	6,2E-09	4,8E-11	3,7E-12	0,0E+00	9,8E-13	2,2E-11	5,4E-14	-5,0E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	1,2E-03	4,2E-05	1,1E-06	0,0E+00	2,6E-07	6,2E-06	1,2E-08	-6,7E-05
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	8,0E-06	1,0E-07	6,7E-09	0,0E+00	9,6E-10	6,8E-08	1,4E-11	-5,0E-07
Eutrophication potential - marine	EP - marine	kg N eq.	2,8E-04	1,6E-05	3,7E-07	0,0E+00	8,2E-08	1,3E-06	1,8E-08	-1,3E-05
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	3,0E-03	1,8E-04	4,0E-06	0,0E+00	9,1E-07	1,5E-05	5,5E-08	-1,4E-04
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1,5E-03	5,1E-05	1,3E-06	0,0E+00	3,6E-07	4,7E-06	2,3E-08	-6,0E-05
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	1,1E-06	1,2E-08	1,3E-09	0,0E+00	2,5E-10	1,1E-08	3,6E-12	-9,2E-08
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	5,9E+00	5,9E-02	3,1E-03	0,0E+00	1,1E-03	2,0E-02	4,2E-05	-3,3E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,2E-01	4,5E-04	4,9E-05	0,0E+00	5,0E-06	3,4E-04	-9,4E-07	-3,6E-03

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	1,7E-08	6,5E-10	2,1E-11	0,0E+00	5,9E-12	4,5E-11	2,9E-13	-6,8E-10
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	6,0E-03	6,3E-05	1,1E-05	0,0E+00	3,3E-07	1,3E-04	3,2E-08	-3,8E-04
Eco-toxicity - freshwater	ETP-fw ²	CTUe	1,6E+00	1,3E-02	1,7E-03	0,0E+00	2,0E-04	9,7E-03	4,9E-05	-2,3E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	2,9E-10	1,1E-12	1,3E-13	0,0E+00	1,3E-14	7,1E-13	6,5E-16	-1,0E-11
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	2,0E-09	3,0E-11	5,6E-12	0,0E+00	6,6E-13	2,4E-11	9,7E-14	-1,2E-10
Land use related impacts/Soil quality	SQP ²	dimensionless	2,3E+01	3,6E-02	1,2E-03	0,0E+00	6,3E-04	7,2E-03	1,0E-04	-3,6E-02

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	2,7E-03	3,4E-04	0,0E+00	1,4E-05	3,9E-03	1,2E-06	-1,5E-02
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,8E+00	2,7E-03	3,4E-04	0,0E+00	1,4E-05	3,9E-03	1,2E-06	-1,5E-02
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	3,8E+00	5,9E-02	3,1E-03	0,0E+00	1,1E-03	2,0E-02	4,2E-05	-3,0E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,1E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-2,9E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	5,9E+00	5,9E-02	3,1E-03	0,0E+00	1,1E-03	2,0E-02	4,2E-05	-3,3E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	2,9E-03	1,5E-05	1,9E-06	0,0E+00	1,5E-07	1,5E-05	-8,0E-07	-1,1E-04

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	5,1E-04	1,4E-06	1,3E-05	0,0E+00	2,9E-08	2,5E-05	3,6E-09	-7,9E-06
<i>Non-hazardous waste disposed</i>	NHWD	kg	3,7E-02	6,8E-04	1,2E-04	0,0E+00	4,9E-05	6,0E-04	1,8E-04	-8,2E-04
<i>Radioactive waste disposed</i>	RWD	kg	4,1E-06	4,2E-08	8,9E-09	0,0E+00	2,1E-10	1,0E-07	1,8E-11	-2,7E-07

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	3,0E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	2,9E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	1,2E-03	0,0E+00	9,1E-04	0,0E+00	0,0E+00	7,4E-04	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

5.1.9. EV2PF07-LC (Evo 2.0 NET.Fit)

Core environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Global warming potential - total	GWP-Total	kg CO2 eq.	8,3E-02	3,3E-03	2,2E-03	0,0E+00	4,1E-05	2,1E-03	8,7E-06	-9,4E-03
Global warming potential - fossil fuels	GWP-Fossil	kg CO2 eq.	2,6E-01	3,2E-03	4,2E-04	0,0E+00	4,1E-05	2,0E-03	8,6E-06	-9,4E-03
Global warming potential - biogenic	GWP-Biogenic	kg CO2 eq.	-1,7E-01	5,8E-06	1,7E-01	0,0E+00	1,3E-08	7,2E-05	9,2E-09	-1,3E-05
Global warming potential - land use and land use change	GWP-Luluc	kg CO2 eq.	3,3E-04	2,9E-06	2,0E-07	0,0E+00	1,8E-08	1,1E-06	2,1E-10	-8,7E-06
Depletion potential of the stratospheric ozone layer	ODP	kg CFC-11 eq.	5,6E-09	3,3E-11	3,7E-12	0,0E+00	5,2E-13	1,1E-11	2,9E-14	-2,6E-10
Acidification potential, accumulated exceedance	AP	mol H+ eq.	1,1E-03	2,9E-05	1,1E-06	0,0E+00	1,4E-07	3,3E-06	6,5E-09	-3,5E-05
Eutrophication potential - freshwater	EP - freshwater	kg P eq.	7,5E-06	7,1E-08	6,7E-09	0,0E+00	5,0E-10	3,6E-08	7,6E-12	-2,6E-07
Eutrophication potential - marine	EP - marine	kg N eq.	2,5E-04	1,1E-05	3,7E-07	0,0E+00	4,3E-08	7,0E-07	9,7E-09	-6,8E-06
Eutrophication potential - terrestrial	EP-terrestrial	mol N eq.	2,7E-03	1,2E-04	4,0E-06	0,0E+00	4,8E-07	7,7E-06	2,9E-08	-7,3E-05
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1,3E-03	3,5E-05	1,3E-06	0,0E+00	1,9E-07	2,5E-06	1,2E-08	-3,2E-05
Abiotic depletion potential - non-fossil resources	ADPE ²	kg Sb eq.	1,0E-06	8,1E-09	1,3E-09	0,0E+00	1,3E-10	6,0E-09	1,9E-12	-5,0E-08
Abiotic depletion potential - fossil resources	ADPF ²	MJ, net calorific value	5,4E+00	4,0E-02	3,1E-03	0,0E+00	5,6E-04	1,0E-02	2,2E-05	-1,7E-01
Water (user) deprivation potential	WDP ²	m3 world eq. deprived	1,2E-01	3,1E-04	4,9E-05	0,0E+00	2,6E-06	1,8E-04	-5,0E-07	-1,9E-03

Additional optional environmental impact indicators	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	1,5E-08	4,5E-10	2,1E-11	0,0E+00	3,1E-12	2,4E-11	1,5E-13	-3,7E-10
Ionizing radiation, human health	IRP ¹	kBq U235 eq.	5,7E-03	4,3E-05	1,1E-05	0,0E+00	1,8E-07	6,7E-05	1,7E-08	-2,0E-04
Eco-toxicity - freshwater	ETP-fw ²	CTUe	1,4E+00	8,8E-03	1,7E-03	0,0E+00	1,0E-04	5,1E-03	2,6E-05	-1,2E-01
Human toxicity, cancer effect	HTP-c ²	CTUh	2,8E-10	7,6E-13	1,3E-13	0,0E+00	6,8E-15	3,7E-13	3,4E-16	-5,7E-12
Human toxicity, non-cancer effects	HTP-nc ²	CTUh	1,7E-09	2,1E-11	5,6E-12	0,0E+00	3,5E-13	1,3E-11	5,1E-14	-6,2E-11
Land use related impacts/Soil quality	SQP ²	dimensionless	2,3E+01	2,5E-02	1,2E-03	0,0E+00	3,3E-04	3,8E-03	5,4E-05	-1,9E-02

<i>Indicators describing resource use</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Use of renewable primary energy as energy carrier</i>	PERE	MJ, net calorific value	-3,2E+01	1,9E-03	3,4E-04	0,0E+00	7,5E-06	2,0E-03	6,5E-07	-7,6E-03
<i>Use of renewable primary energy resources used as raw materials</i>	PERM	MJ, net calorific value	3,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Total use of renewable primary energy</i>	PERT	MJ, net calorific value	2,8E+00	1,9E-03	3,4E-04	0,0E+00	7,5E-06	2,0E-03	6,5E-07	-7,6E-03
<i>Use of non-renewable primary energy as energy carrier</i>	PENRE	MJ, net calorific value	3,4E+00	4,0E-02	3,1E-03	0,0E+00	5,6E-04	1,0E-02	2,2E-05	-1,6E-01
<i>Use of non-renewable primary energy resources used as raw materials</i>	PENRM	MJ, net calorific value	2,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	-1,4E-02
<i>Total use of non-renewable primary energy resource</i>	PENRT	MJ, net calorific value	5,4E+00	4,0E-02	3,1E-03	0,0E+00	5,6E-04	1,0E-02	2,2E-05	-1,7E-01
<i>Use of secondary material</i>	SM	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of renewable secondary fuels</i>	RSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Use of non-renewable secondary fuels</i>	NRSF	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Net use of fresh water</i>	FW	m3	2,8E-03	1,1E-05	1,9E-06	0,0E+00	7,8E-08	7,9E-06	-4,2E-07	-5,8E-05

<i>Environmental information describing waste categories</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Hazardous waste disposed</i>	HWD	kg	3,7E-04	9,4E-07	1,3E-05	0,0E+00	1,5E-08	1,3E-05	1,9E-09	-4,2E-06
<i>Non-hazardous waste disposed</i>	NHWD	kg	2,8E-02	4,7E-04	1,2E-04	0,0E+00	2,6E-05	3,2E-04	9,5E-05	-4,4E-04
<i>Radioactive waste disposed</i>	RWD	kg	3,9E-06	2,9E-08	8,9E-09	0,0E+00	1,1E-10	5,4E-08	9,4E-12	-1,4E-07

<i>Environmental information describing output flows</i>	Abbreviation	Unit	Total A1-A3	A4	A5	C1	C2	C3	C4	D
<i>Components for re-use</i>	CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Materials for recycling</i>	MFR	kg	1,5E-05	0,0E+00	1,8E-03	0,0E+00	0,0E+00	1,5E-03	0,0E+00	0,0E+00
<i>Materials for energy recovery</i>	MER	kg	6,6E-04	0,0E+00	9,1E-04	0,0E+00	0,0E+00	3,9E-04	0,0E+00	0,0E+00
<i>Exported electrical energy</i>	EEE	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
<i>Exported thermal energy</i>	EET	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

¹This impact category primarily addresses the potential impact of low dose ionizing radiation on human health from the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure, or the disposal of radioactive waste in underground facilities. Potential ionizing radiation originating from soil, radon, and certain building materials is also not measured by this indicator.

² 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

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