Environmental Product Declaration

In accordance with ISO 14025:2006, EN 15804:2012+A2:2019 / AC:2021 and c-PCR-018 Ventilation components (Adopted from NPCR 030:2021) for:

TD EVO PF ECOWATT

EPD of multiple products, based on a representative product.
Products included:

- TD EVO-100 PF ECOWATT
- TD EVO-125 PF ECOWATT
- TD EVO-150 PF ECOWATT
- TD EVO-160 PF ECOWATT
- TD EVO-200 PF ECOWATT
- TD EVO-250 PF ECOWATT
- TD EVO-315 PF ECOWATT

From:

S&P Sistemas de Ventilación, S.L

Programme:	The International EPD® System, www.environdec.com
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

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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
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Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.3.4 published on 2024.04.30 and c-PCR-018 Ventilation components (Adopted from NPCR 030:2021).
PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact
Life Cycle Assessment (LCA)
LCA accountability: Martí Roig Rabadà, *Product Sustainability Manager, Soler & Palau.*

Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: Elisabet Amat Guasch (Greenize Projects) (eamat@greenize.es) Approved by: The 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 registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

- **Owner of the EPD:** S&P SISTEMAS DE VENTILACIÓN, SL; Calle Llevant, 4 - Polígono Industrial Llevant; 08150 Parets del Vallès (Barcelona).
- **Contact**: Martí Roig Rabadà (mroig@solerpalau.com), Product Sustainability Manager.
- **Description of the organisation:** Committed to improving indoor air quality and making it accessible to everyone, S&P develops highly energy-efficient, reliable, and durable ventilation solutions that benefit both our customers and the planet. Easy installation is a key pillar of our innovation, ensuring our products meet the needs of both users and installers. We also prioritize human well-being, which is why we are dedicated to designing exceptionally quiet equipment.

- **Product-related or management system-related certifications:** ISO 9001 (ES-257/2001) and ISO 14001 (ES-2001/0052).
- **Production site(s):** The product is manufactured at two facilities of the S&P SISTEMAS DE VENTILACIÓN, SL group, located in the provinces of Barcelona and Girona.

Soler&Palau Ventilation Group

Product information

- **Product name:** TD EVO PF ECOWATT.
- **Product identification:** The TD EVO PF ECOWATT is an in-line mixed-flow fan, low profile, for circular ducts. Therefore, it is classified as a construction product that is also an Electronic or Electrical Equipment (EEE) product.
- **Product description:** The TD EVO PF ECOWATT range consists of in-line mixed-flow fans, low profile, for circular ducts. This product range includes seven diameters, all sharing the same function and manufacturing processes, covering a flow range from 190 to 1.780 m^3/h. The design of the support bracket allows the motor and impeller assembly to be fitted or removed without dismantling the adjacent ducting. The optimized design of the impeller, guide vane, and outlet diffuser enhances performance while reducing noise levels.
- **UN CPC code:** Ventilation and air-conditioning equipment installation services (CPC 54632, version 2.1 dated 2015).
- **Geographical scope:** LCA downstream scenario considered is Europe, however product can be used globally.
- **Included products:** This EPD covers multiple products and is based on the TD EVO-200 PF ECOWATT, chosen as the representative model due to its status as the best-selling in the range. The products included in this EPD are:

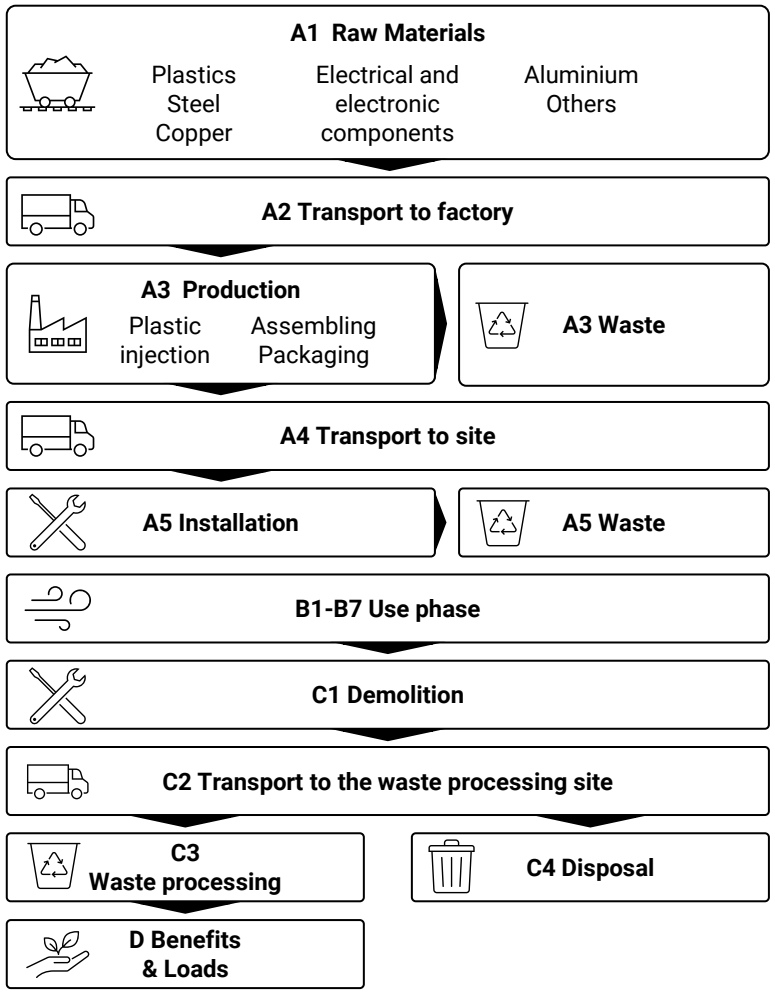
Product name	Weight (Kg)*
TD EVO-100 PF ECOWATT	2,29
TD EVO-125 PF ECOWATT	2,48
TD EVO-150 PF ECOWATT	2,91
TD EVO-160 PF ECOWATT	2,90
TD EVO-200 PF ECOWATT	4,32
TD EVO-250 PF ECOWATT	6,24
TD EVO-315 PF ECOWATT	9,40

*Including packaging except wooden pallet.

LCA information

- **Declared unit:** 1 unit of TD EVO-200 PF ECOWATT maintained for 17 years.
- **Reference service life:** The product is maintained for 17 years. The period has been selected to seek present and future harmonization with other international environmental product declaration programs as for example PEP Ecopassport.
- **Technical service life:** 25 years.
- **Time representativeness:** All specific data related to the production plants and use, used for the study date from 2023.
- **Database(s) and LCA software used:** The primary inventory data has been obtained from S&P, corresponding to the references listed above, produced in 2023 at S&P's production site in Torelló (Barcelona, Spain). The secondary data has been extracted from the Ecoinvent version 3.10.1 database, included in the OneClick LCA software and internationally recognized. Whenever possible, inventory data related to Spain has been selected; otherwise, data from Europe in general has been used.
- **Description of system boundaries:** Cradle to gate with options, modules A4-A5, modules B1-B7, modules C1-C4, and module D.
- **Cut-off rules:** In accordance with the provisions of the PCR 2019:14 construction products, version 1.3.4 and the standard UNE-EN 15804:2012+A2:2020, at least 95% of total inflows and outflows (mass and energy) per module have been included. The "polluter pays" principle has been applied. Additionally, the following processes have been excluded from the study scope:
  - Manufacture of equipment used in production.
  - Business trips.
  - Maintenance activities at the production plants.
  - Transportation of personnel to and within the plants.
  - Diffuse particle emissions during the transport and storage of raw materials.

- **System diagram:**



- **Hypothesis and considerations applied:**

  PRODUCT STAGE (A1-A3): Encompasses the manufacturing of raw materials, their transportation to the production facility, and all stages of the product manufacturing process.

  - **Raw materials supply (A1):** This stage includes the procurement of raw materials and pre-assembled components used in the product's manufacturing.
  - **Transport (A2):** This stage accounts for the transportation of raw materials and pre-assembled components from direct suppliers to S&P production site.
  - **Manufacturing (A3):** The TD EVO PF ECOWATT is manufactured and assembled almost entirely in-house. This stage covers motor construction, plastic injection molding of all components, full product assembly, and quality testing, which is performed on all manufactured units.

    Mass allocation has been applied to accurately determine the share of resources.

    Electricity used during the manufacturing process is backed by a certificate of origin issued by the National Commission on Markets and Competition (CNMC), guaranteeing that it is sourced entirely from renewable energy, specifically wind (16%), hydro (26%), and solar power (58%). The modelled energy mix for A3 module has an emission factor of 0,044 kg CO_{2eq}/kWh. The transformation losses have been included.

    Water consumption during manufacturing is negligible, as the process uses a closed-loop system.

  CONSTRUCTION PROCESS STAGE (A4-A5): The construction process stage includes the transportation of the product to the installation site and the processes required for its installation.

  - **Transportation to site (A4):** Transportation to the installation site is calculated based on the sales distribution of the product during 2023. The distance to the site has been estimated according to the geographic location of sales, 993 Km are considered. It is assumed that transport is conducted using freight lorries of 16-32 metric tons, EURO6.
  - **Installation (A5):** The installation process has a negligible impact, as it is performed manually.

    The impact of the product packaging generated as waste during this phase is considered. Recycling processes have been modeled based on EUROSTAT statistics.

  USE STAGE (B1- B7): Includes all impacts associated with the operation, maintenance, and repair of the product throughout its lifespan.

  - **Use, Maintenance, Repair, Replacement, and Refurbishment (B1-B5):** These submodules are considered negligible because the product does not generate additional impacts during its use, requires only manual cleaning maintenance, and is not expected to need repairs, replacements, or refurbishments during its operational life.
  - **Operational Energy Use (B6):** The operational energy consumption (B6) has been calculated at a typical and realistic operating point, corresponding to the energy consumed when supplying its reference flow rate at the reference pressure. The equipment is assumed to operate continuously (24 hours per day) for 17 years. The annual energy consumption of one unit under these conditions is 280 kWh. For more information on equipment consumption, please visit our website where you can find all the technical data.

    As the ventilation units are used all over Europe, an average market dataset for European low voltage electricity is used. The emission factor for the used dataset is 0,33 KgCO_{2eq}/kWh.
  - **Operational Water Use (B7):** This submodule is negligible, as the product does not require water for its operation.

END OF LIFE STAGE (C1-C4): Includes all processes related to the product's disposal, such as deconstruction, transport, waste processing, and final disposal.

- **Deconstruction (C1):** Deconstruction impacts are assumed to be zero, as the equipment is manually removed from buildings.
- **Transport (C2):** A transport distance of 50 km has been assumed for waste from the product deinstallation point to the waste management facility. It is assumed that transport is conducted using freight lorries of 16-32 metric tons, EURO6 - Europe.
- **Waste processing and disposal (C3-C4):** Waste management has been modeled using a conservative and realistic scenario, although the recyclability potential of the equipment is higher than what is stated in the LCA.

  The percentages for recycling, incineration (with or without energy recovery), and landfill disposal have been defined based on the norm EN 50693.

  These are as follows for the entire product: 40% of the product is recycled, 25% of the equipment is incinerated (with or without energy recovery), and 35% of the equipment is landfilled.

BENEFITS AND LOADS (D): Accounts for the potential environmental benefits and loads associated with the reuse, recycling, or energy recovery of materials after the product's end-of-life. These benefits are reported beyond the system boundaries.

- **Benefits and loads (D):** To ensure a realistic and evidence-based approach in modeling the impacts of Module D, data points generated by OneClick LCA and based on ECOINVENT data have been used. The quantities imputed to the different datapoints correspond only to waste that does not go to landfill (C3).

Material	End of Life Stage (C) A5 for packaging C1-C4 for product	Benefits and Loads (D)
Steel	80% is recycled 20% is landfilled	Generation of steel scrap
Aluminium	70% is recycled 30% is landfilled	Generation of aluminium scrap
Copper	60% is recycled 40% is landfilled	Generation of copper scrap
Polypropylene	20% is recycled 40% is incinerated with energy recovery 40% is landfilled	Generation of recycled Polypropylene Energy recovery
Other Plastics	50% is incinerated with energy recovery 25% is incinerated without energy recovery 25% is landfilled	Energy recovery
Electric Components	100% is landfilled	-
Cardboard Paper	83% is recycled 8% is incinerated 9% is landfilled	Generation of recycled cardboard Energy recovery
Wood	32% is recycled 30% is incinerated 38% is landfilled	Generation of recycled wood Energy recovery

Soler&Palau encourages the proper management of the equipment's waste and to increase the recyclability ratio at the end of its useful life, as the **product's recyclability potential is >90%.**

Modules Declared

Module	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
	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	EU	EU	ES	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Specific data used	80% (GWP-GHG)			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	238% (GWP-GHG)			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

The specific data used in A1-A3 is up to 80% because the motor is manufactured in house with primary data.

The variation in GWP-GHG between the products with the lowest (TD EVO-100) and highest (TD EVO-315) environmental impact in stages A1-A3 is 238%, due to a weight difference of approximately 308% (~7Kg).

Content information

None of the components present in the final product and included in the “Candidate List of Substances of Extreme Concert in the authorization procedure” of the REACH regulation has a percentage higher than 0,1%.

100% of the aluminum used in our factories is recycled, with 75% coming from pre-consumer sources and 25% from post-consumer sources.

95% of the polypropylene used for all models comes from post-industrial sources. As EPD rules state that only post-consumer material is declared in the content information, the value is declared as 0 and is not accounted in the LCA.

The wooden pallet is allocated among the units placed on it during transport, considering only a single-use cycle.

Plastic film is allocated at the factory level based on product weight.

Product components	Reference Product Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Steel	0,64	0%	-
Aluminium	0,23	25%	-
Copper	0,22	0%	-
Plastics	1,96	0%	-
Electrical and electronic components	0,10	0%	-
Others	0,29	0%	-
TOTAL	**3,44**	**1,6%**	-

Packaging materials	Reference Product Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Cardboard	0,76	22%	0,37
Paper	0,12	3%	0,06
Wood	0,52	15%	0,23
Plastic film	0,016	0%	-
TOTAL	**1,42**	**41%**	**0,66**

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804

A declared unit of one unit of TD EVO-200 PF ECOWATT (220-240V 50/60HZ) N8 with a weight of 4,32 Kg is considered. The impact assessment is based on EF3.1. 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. Usage of results from A1-A3 without considering the results of module C is not encouraged. When comparing results from different Environmental Product Declarations (EPDs), exercise caution due to varying methodologies and inherent uncertainties across programs.

		Results per declared unit														
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	2,76E+01	9,15E-01	6,96E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,56E+03	0,00E+00	0,00E+00	3,27E-02	2,17E+00	2,31E-01	-2,76E+00
GWP-biogenic	Kg $CO_{2eq.}$	-2,21E+00	1,84E-04	2,21E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,50E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,24E-22	1,53E-02
GWP-luluc	Kg $CO_{2eq.}$	1,36E-01	3,28E-04	4,57E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,79E+00	0,00E+00	0,00E+00	1,17E-05	6,49E-05	4,74E-05	-3,26E-03
GWP-total	Kg $CO_{2eq.}$	2,55E+01	9,16E-01	2,28E+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	3,27E-02	2,17E+00	2,31E-01	-2,75E+00
ODP	kg $CFC11_{eq.}$	6,96E-07	1,82E-08	6,24E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,88E-05	0,00E+00	0,00E+00	6,50E-10	7,38E-10	4,71E-10	-5,62E-08
AP	mol $H^{+}_{eq.}$	2,28E-01	1,90E-03	2,19E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,17E+00	0,00E+00	0,00E+00	6,80E-05	6,18E-04	2,17E-04	-2,98E-02
EP-freshwater	kg $P_{eq.}$	1,99E-02	6,16E-05	1,20E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,45E+00	0,00E+00	0,00E+00	2,20E-06	2,10E-05	1,06E-05	-1,63E-02
EP-marine	kg $N_{eq.}$	2,60E-01	4,57E-04	3,09E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,44E+00	0,00E+00	0,00E+00	1,63E-05	2,58E-04	3,20E-04	-7,55E-03
EP-terrestrial	mol $N_{eq.}$	3,46E-01	4,93E-03	7,51E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,29E+01	0,00E+00	0,00E+00	1,76E-04	2,36E-03	6,83E-04	-1,06E-01
POCP	kg $NMVOC_{eq.}$	1,30E-01	3,17E-03	2,75E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,25E+00	0,00E+00	0,00E+00	1,13E-04	6,29E-04	2,26E-04	-2,53E-02
ADP-minerals&metals*	kg $Sb_{eq.}$	3,16E-03	3,05E-06	2,59E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E-02	0,00E+00	0,00E+00	1,09E-07	1,56E-06	2,17E-07	-2,98E-04
ADP-fossil*	MJ	4,33E+02	1,29E+01	5,53E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,63E+04	0,00E+00	0,00E+00	4,60E-01	6,65E-01	5,25E-01	-5,39E+01
WDP*	m^3	1,18E+01	6,40E-02	1,55E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,89E+02	0,00E+00	0,00E+00	2,29E-03	7,65E-02	1,52E-02	-7,60E-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.

* EPD International 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 mandatory and voluntary impact category indicators

Results per declared unit																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG (1)	Kg $CO_{2eq.}$	2,77E+01	9,15E-01	6,96E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,56E+03	0,00E+00	0,00E+00	3,27E-02	2,17E+00	2,31E-01	-2,76E+00
PM	Disease inc.	1,78E-06	6,74E-08	3,48E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,27E-05	0,00E+00	0,00E+00	2,41E-09	6,25E-09	2,91E-09	-2,46E-07
IRP (2)	kBq U-235_{eq}	6,69E+00	1,66E-02	2,60E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,00E+03	0,00E+00	0,00E+00	5,93E-04	2,74E-03	2,84E-03	-5,00E-01
ETP-fw (3)	CTUe	1,20E+03	1,71E+00	1,13E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,53E+03	0,00E+00	0,00E+00	6,12E-02	1,20E+00	1,31E+01	-1,84E+02
HTP-c (3)	CTUh	2,90E-08	1,54E-10	3,29E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,27E-07	0,00E+00	0,00E+00	5,48E-12	1,21E-10	2,39E-11	-4,25E-10
HTP-nc (3)	CTUh	1,35E-06	8,14E-09	1,75E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,73E-05	0,00E+00	0,00E+00	2,91E-10	4,97E-09	2,10E-09	1,07E-09
SQP (3)	Pt	5,46E+02	7,78E+00	4,63E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,07E+03	0,00E+00	0,00E+00	2,78E-01	8,83E-01	6,35E-01	-2,40E+01

Acronyms: **GWP-fossil = GWP-GHG**: Global warming potential-Greenhouse gas; **PM**= particulate matter; **IRP** =Ionizing radiation, human health; **ETP-fw**=Ecotoxicity tap water-organic; **HTP-c**= human health, carcinogenic effects; **HTP-nc**= human health , non-carcinogenic effects; **SQP** = Land use related impacts/ Soil quality.

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 refers to the eventual impacts of low amounts of ionizing radiation on human health from the nuclear fuel cycle. It does not consider the effects due to possible nuclear accidents or occupational exposure due to possible nuclear accidents or occupational exposure due to radon or from some construction materials.

3)The results of this environmental impact category must be used wisely, as the uncertainties in the results are elevated and the results are elevated and the experience with this parameter is limited.

Resource use indicators

Results per declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	4,92E+01	2,25E-01	-2,18E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,96E+03	0,00E+00	0,00E+00	8,05E-03	6,98E-02	4,08E-02	-8,79E+00
PERM	MJ	1,93E+01	0,00E+00	-1,93E+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
PERT	MJ	6,85E+01	2,25E-01	-4,11E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,96E+03	0,00E+00	0,00E+00	8,05E-03	6,98E-02	4,08E-02	-8,79E+00
PENRE	MJ	3,58E+02	1,29E+01	-9,51E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,63E+04	0,00E+00	0,00E+00	4,60E-01	-4,53E+01	-3,06E+01	-5,73E+01
PENRM	MJ	6,07E+01	0,00E+00	-1,25E+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	-4,42E+01	-1,52E+01	1,48E+01
PENRT	MJ	4,19E+02	1,29E+01	-1,34E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,63E+04	0,00E+00	0,00E+00	4,60E-01	-8,95E+01	-4,58E+01	-4,25E+01
SM	kg	1,26E+00	5,98E-03	6,75E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,00E+00	0,00E+00	0,00E+00	2,13E-04	1,82E-03	1,79E-04	7,68E-01
RSF	MJ	6,40E-01	7,56E-05	4,64E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,79E-02	0,00E+00	0,00E+00	2,70E-06	2,58E-05	1,35E-05	-5,91E-04
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	m^3	3,07E-01	1,75E-03	-8,37E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,14E+01	0,00E+00	0,00E+00	6,26E-05	8,67E-04	-2,74E-03	-4,48E-02

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 declared unit																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	3,06E+00	1,87E-02	6,78E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,18E+01	0,00E+00	0,00E+00	6,68E-04	2,52E-02	4,63E-03	-5,08E-01
Non-hazardous waste disposed	kg	1,63E+02	3,95E-01	1,75E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,10E+03	0,00E+00	0,00E+00	1,41E-02	1,03E+00	4,24E+00	-2,40E+00
Radioactive waste disposed	kg	7,85E-03	4,13E-06	6,60E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,58E-01	0,00E+00	0,00E+00	1,47E-07	6,90E-07	6,94E-07	-1,28E-04

Output flow indicators

Results per declared unit																
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	0,00E+00	0,00E+00	9,06E-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	1,15E+00	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	0,00E+00	0,00E+00	6,60E-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	5,79E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	6,05E-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	4,15E+00	0,00E+00	0,00E+00

Variability analysis

TD EVO-100 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-100 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	-53%	-46%	-38%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-52%	-35%
GWP-biogenic	Kg $CO_{2eq.}$	-35%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	0%	0%	0%	-51%
GWP-luluc	Kg $CO_{2eq.}$	-68%	-45%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-49%	-48%	-58%	-21%
GWP-total	Kg $CO_{2eq.}$	-54%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-52%	-35%
ODP	kg $CFC11_{eq.}$	-51%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-49%	-52%	-44%
AP	mol $H^{+}_{eq.}$	-50%	-45%	-36%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-55%	-43%
EP-freshwater	kg $P_{eq.}$	-48%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-58%	-51%
EP-marine	kg $N_{eq.}$	-94%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-49%	-48%	-50%	-46%
EP-terrestrial	mol $N_{eq.}$	-48%	-45%	-36%	0%	0%	0%	0%	0%	-78%	0%	0%	-49%	-48%	-53%	-47%
POCP	kg NMVOC $_{eq.}$	-47%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-49%	-48%	-52%	-45%
ADP-minerals&metals*	kg $Sb_{eq.}$	-42%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-58%	-50%
ADP-fossil*	MJ	-52%	-46%	-35%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-48%	-54%	-41%
WDP*	m^3	-62%	-46%	-36%	0%	0%	0%	0%	0%	-78%	0%	0%	-50%	-49%	-55%	-38%

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.

* EPD International 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.

TD EVO-125 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-125 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	-50%	-18%	-37%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-39%	-40%	-29%
GWP-biogenic	Kg $CO_{2eq.}$	-35%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	0%	0%	0%	-42%
GWP-luluc	Kg $CO_{2eq.}$	-67%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-43%	-56%	-14%
GWP-total	Kg $CO_{2eq.}$	-51%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-39%	-40%	-29%
ODP	kg $CFC11_{eq.}$	-47%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-42%	-47%	-36%
AP	mol $H^{+}_{eq.}$	-48%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-42%	-50%	-41%
EP-freshwater	kg $P_{eq.}$	-46%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-44%	-56%	-51%
EP-marine	kg $N_{eq.}$	-93%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-41%	-40%	-45%
EP-terrestrial	mol $N_{eq.}$	-46%	-18%	-36%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-41%	-47%	-46%
POCP	kg NMVOC $_{eq.}$	-43%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-41%	-46%	-43%
ADP-minerals&metals*	kg $Sb_{eq.}$	-39%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-47%	-56%	-50%
ADP-fossil*	MJ	-47%	-18%	-35%	0%	0%	0%	0%	0%	-75%	0%	0%	-44%	-43%	-50%	-34%
WDP*	m^3	-60%	-18%	-36%	0%	0%	0%	0%	0%	-75%	0%	0%	-45%	-39%	-46%	-31%

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.

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TD EVO-150 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-150 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	-46%	-48%	-17%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-26%	-30%	-21%
GWP-biogenic	Kg $CO_{2eq.}$	-11%	-48%	-11%	0%	0%	0%	0%	0%	-44%	0%	0%	0%	0%	0%	-25%
GWP-luluc	Kg $CO_{2eq.}$	-63%	-48%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-34%	-55%	-6%
GWP-total	Kg $CO_{2eq.}$	-49%	-48%	-11%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-26%	-30%	-21%
ODP	kg $CFC11_{eq.}$	-42%	-48%	-10%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-32%	-40%	-24%
AP	mol $H^{+}_{eq.}$	-46%	-48%	-11%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-33%	-45%	-38%
EP-freshwater	kg $P_{eq.}$	-45%	-48%	-11%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-37%	-55%	-50%
EP-marine	kg $N_{eq.}$	-93%	-48%	-12%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-30%	-29%	-43%
EP-terrestrial	mol $N_{eq.}$	-43%	-48%	-9%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-31%	-40%	-45%
POCP	kg NMVOC $_{eq.}$	-39%	-48%	-10%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-31%	-38%	-40%
ADP-minerals&metals*	kg $Sb_{eq.}$	-39%	-48%	-15%	0%	0%	0%	0%	0%	-43%	0%	0%	-36%	-42%	-55%	-50%
ADP-fossil*	MJ	-41%	-48%	-10%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-34%	-45%	-23%
WDP*	m^3	-56%	-48%	-10%	0%	0%	0%	0%	0%	-44%	0%	0%	-36%	-27%	-40%	-23%

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.

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TD EVO-160 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-160 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	-48%	9%	-15%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-29%	-31%	-22%
GWP-biogenic	Kg $CO_{2eq.}$	-7%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	0%	0%	0%	-29%
GWP-luluc	Kg $CO_{2eq.}$	-62%	9%	-5%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-35%	-55%	-8%
GWP-total	Kg $CO_{2eq.}$	-51%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-29%	-31%	-23%
ODP	kg $CFC11_{eq.}$	-44%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-34%	-41%	-27%
AP	mol $H^{+}_{eq.}$	-47%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-35%	-46%	-38%
EP-freshwater	kg $P_{eq.}$	-47%	9%	-8%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-38%	-55%	-50%
EP-marine	kg $N_{eq.}$	-93%	9%	-8%	0%	0%	0%	0%	0%	-44%	0%	0%	-37%	-32%	-31%	-43%
EP-terrestrial	mol $N_{eq.}$	-45%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-33%	-41%	-45%
POCP	kg NMVOC $_{eq.}$	-41%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-33%	-40%	-40%
ADP-minerals&metals*	kg $Sb_{eq.}$	-42%	9%	-10%	0%	0%	0%	0%	0%	-43%	0%	0%	-38%	-43%	-55%	-50%
ADP-fossil*	MJ	-43%	9%	-7%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-35%	-46%	-25%
WDP*	m^3	-57%	9%	-8%	0%	0%	0%	0%	0%	-44%	0%	0%	-38%	-29%	-40%	-24%

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.

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TD EVO-250 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-250 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	37%	33%	48%	0%	0%	0%	0%	0%	66%	0%	0%	43%	56%	47%	28%
GWP-biogenic	Kg $CO_{2eq.}$	49%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	0%	0%	0%	71%
GWP-luluc	Kg $CO_{2eq.}$	31%	34%	48%	0%	0%	0%	0%	0%	66%	0%	0%	44%	47%	21%	23%
GWP-total	Kg $CO_{2eq.}$	36%	33%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	56%	47%	27%
ODP	kg $CFC11_{eq.}$	58%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	48%	40%	45%
AP	mol $H^{+}_{eq.}$	12%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	47%	32%	-15%
EP-freshwater	kg $P_{eq.}$	29%	34%	49%	0%	0%	0%	0%	0%	65%	0%	0%	43%	43%	19%	-37%
EP-marine	kg $N_{eq.}$	-17%	34%	51%	0%	0%	0%	0%	0%	65%	0%	0%	43%	50%	50%	-24%
EP-terrestrial	mol $N_{eq.}$	29%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	50%	39%	-28%
POCP	kg NMVOC $_{eq.}$	40%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	49%	41%	-13%
ADP-minerals&metals*	kg $Sb_{eq.}$	47%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	42%	36%	18%	-37%
ADP-fossil*	MJ	44%	34%	49%	0%	0%	0%	0%	0%	66%	0%	0%	43%	47%	33%	40%
WDP*	m^3	33%	34%	48%	0%	0%	0%	0%	0%	66%	0%	0%	42%	53%	38%	22%

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.

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TD EVO-315 PF ECOWATT

Following are the results for the other products included in the EPD. It presents the percentage variation with respect to the reference product which is TD EVO-200 PF ECOWATT.

Results per declared unit - TD EVO-315 PF ECOWATT																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	62%	184%	123%	0%	0%	0%	0%	0%	150%	0%	0%	122%	171%	127%	111%
GWP-biogenic	Kg $CO_{2eq.}$	139%	184%	139%	0%	0%	0%	0%	0%	150%	0%	0%	0%	0%	0%	203%
GWP-luluc	Kg $CO_{2eq.}$	64%	185%	152%	0%	0%	0%	0%	0%	150%	0%	0%	123%	136%	41%	110%
GWP-total	Kg $CO_{2eq.}$	56%	184%	139%	0%	0%	0%	0%	0%	150%	0%	0%	122%	171%	127%	110%
ODP	kg $CFC11_{eq.}$	78%	185%	137%	0%	0%	0%	0%	0%	150%	0%	0%	123%	137%	107%	153%
AP	mol $H^{+}_{eq.}$	30%	185%	132%	0%	0%	0%	0%	0%	150%	0%	0%	122%	133%	79%	34%
EP-freshwater	kg $P_{eq.}$	31%	184%	129%	0%	0%	0%	0%	0%	150%	0%	0%	122%	118%	36%	-6%
EP-marine	kg $N_{eq.}$	17%	184%	125%	0%	0%	0%	0%	0%	149%	0%	0%	123%	149%	141%	16%
EP-terrestrial	mol $N_{eq.}$	44%	184%	140%	0%	0%	0%	0%	0%	150%	0%	0%	123%	145%	101%	9%
POCP	kg NMVOC $_{eq.}$	62%	184%	136%	0%	0%	0%	0%	0%	150%	0%	0%	122%	143%	110%	39%
ADP-minerals&metals*	kg $Sb_{eq.}$	27%	184%	105%	0%	0%	0%	0%	0%	151%	0%	0%	122%	92%	36%	-7%
ADP-fossil*	MJ	86%	185%	135%	0%	0%	0%	0%	0%	150%	0%	0%	122%	133%	84%	141%
WDP*	m^3	57%	184%	134%	0%	0%	0%	0%	0%	150%	0%	0%	122%	159%	87%	111%

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.

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Additional environmental information

Module B6: Country-Specific Results

Below are the results for Module B6 of the TD EVO-200 PF ECOWATT over its default reference lifetime of 17 years, operating in various representative countries across Europe. The dataset used corresponds to low-voltage electricity (market activity).

Results per declared unit B6 - TD EVO-200 PF ECOWATT per seventeen (17) years of consumption								
Indicator	**Unit**	**SPAIN**	**FRANCE**	**GERMANY**	**BELGIUM**	**NORWAY**	**ITALY**	**GREAT BRITAIN**
GWP-fossil	Kg $CO_{2eq.}$	9,75E+02	4,16E+02	1,86E+03	9,75E+02	1,14E+02	1,68E+03	1,24E+03
GWP-biogenic	Kg $CO_{2eq.}$	2,42E+00	7,41E-01	9,35E+00	1,43E+00	1,98E+00	6,90E+00	7,24E-01
GWP-luluc	Kg $CO_{2eq.}$	1,28E+01	4,16E-01	3,83E+00	2,62E+00	5,33E-01	3,65E-01	1,54E+00
GWP-total	Kg $CO_{2eq.}$	9,90E+02	4,17E+02	1,87E+03	9,79E+02	1,17E+02	1,69E+03	1,24E+03
ODP	kg $CFC11_{eq.}$	1,99E-05	1,47E-05	2,39E-05	4,17E-05	3,08E-06	3,89E-05	6,28E-05
AP	mol $H^{+}_{eq.}$	5,38E+00	2,90E+00	5,36E+00	3,11E+00	1,58E+00	7,10E+00	4,60E+00
EP-freshwater	kg $P_{eq.}$	2,31E-01	1,74E-01	2,54E+00	2,15E-01	1,20E-01	3,75E-01	2,23E-01
EP-marine	kg $N_{eq.}$	9,57E-01	5,53E-01	1,38E+00	6,46E-01	1,37E-01	1,06E+00	9,96E-01
EP-terrestrial	mol $N_{eq.}$	1,01E+01	4,59E+00	1,02E+01	6,61E+00	1,67E+00	1,15E+01	1,15E+01
POCP	kg NMVOC $_{eq.}$	3,61E+00	1,57E+00	3,28E+00	2,09E+00	5,08E-01	4,95E+00	3,22E+00
ADP-minerals&metals*	kg $Sb_{eq.}$	2,13E-02	2,00E-02	2,37E-02	2,24E-02	1,81E-02	2,12E-02	2,09E-02
ADP-fossil*	MJ	3,21E+04	5,40E+04	2,90E+04	3,85E+04	1,38E+03	2,70E+04	3,37E+04
WDP*	m^3	6,35E+02	6,85E+02	4,83E+02	4,55E+02	5,98E+03	1,04E+03	3,32E+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.

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Results per functional unit

Below are the EF3.1 impact results, aligned with the methodology defined by the PEP Ecopassport. This methodology specifies a functional unit of transferring 1 m³/h of air continuously over a reference lifetime of 17 years. The reported consumption represents the energy used by the equipment while supplying its reference flow rate at the reference pressure.

Results per functional unit																
Indicator	**Unit**	**A1 - A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	Kg $CO_{2eq.}$	5,11E-02	1,69E-03	1,29E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,89E+00	0,00E+00	0,00E+00	6,06E-05	4,02E-03	4,28E-04	-5,11E-03
GWP-biogenic	Kg $CO_{2eq.}$	-4,09E-03	3,41E-07	4,09E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,48E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,85E-25	2,83E-05
GWP-luluc	Kg $CO_{2eq.}$	2,52E-04	6,07E-07	8,46E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,87E-03	0,00E+00	0,00E+00	2,17E-08	1,20E-07	8,78E-08	-6,04E-06
GWP-total	Kg $CO_{2eq.}$	4,72E-02	1,70E-03	4,22E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,90E+00	0,00E+00	0,00E+00	6,06E-05	4,02E-03	4,28E-04	-5,09E-03
ODP	kg $CFC11_{eq.}$	1,29E-09	3,37E-11	1,16E-12	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,33E-08	0,00E+00	0,00E+00	1,20E-12	1,37E-12	8,72E-13	-1,04E-10
AP	mol $H^{+}_{eq.}$	4,22E-04	3,52E-06	4,06E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,70E-02	0,00E+00	0,00E+00	1,26E-07	1,14E-06	4,02E-07	-5,52E-05
EP-freshwater	kg $P_{eq.}$	3,69E-05	1,14E-07	2,22E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,69E-03	0,00E+00	0,00E+00	4,07E-09	3,89E-08	1,96E-08	-3,02E-05
EP-marine	kg $N_{eq.}$	4,81E-04	8,46E-07	5,72E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,67E-03	0,00E+00	0,00E+00	3,02E-08	4,78E-07	5,93E-07	-1,40E-05
EP-terrestrial	mol $N_{eq.}$	6,41E-04	9,13E-06	1,39E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,39E-02	0,00E+00	0,00E+00	3,26E-07	4,37E-06	1,26E-06	-1,96E-04
POCP	kg $NMVOC_{eq.}$	2,41E-04	5,87E-06	5,09E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,87E-03	0,00E+00	0,00E+00	2,09E-07	1,16E-06	4,19E-07	-4,69E-05
ADP-minerals&metals*	kg $Sb_{eq.}$	5,85E-06	5,65E-09	4,80E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,91E-05	0,00E+00	0,00E+00	2,02E-10	2,89E-09	4,02E-10	-5,52E-07
ADP-fossil*	MJ	8,01E-01	2,38E-02	1,02E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,72E+01	0,00E+00	0,00E+00	8,52E-04	1,23E-03	9,72E-04	-9,98E-02
WDP*	m^3	2,19E-02	1,19E-04	2,87E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,83E+00	0,00E+00	0,00E+00	4,24E-06	1,42E-04	2,81E-05	-1,41E-03

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.

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